



MUNICIPALITY OF MORRIS-TURNBERRY

COUNCIL AGENDA

Tuesday, April 11th, 2023, 7:30 pm

The Council of the Municipality of Morris-Turnberry will meet in Council Chambers in regular session on the 11th day of April 2023, at 7:30 pm.

1.0 **CALL TO ORDER**

Disclosure of recording equipment.

2.0 **ADOPTION OF AGENDA**

*Moved by ~
Seconded by ~*

THAT the Council of the Municipality of Morris-Turnberry hereby adopts the agenda for the meeting of April 11th, 2023, as circulated.

~

3.0 **DISCLOSURE OF PECUNIARY INTEREST / POTENTIAL CONFLICT OF INTEREST**

4.0 **MINUTES**

*Moved by ~
Seconded by ~*

THAT the Council of the Municipality of Morris-Turnberry hereby adopts the March 21st, 2023, Council Meeting Minutes as written.

~

5.0 **ACCOUNTS**

*Moved by ~
Seconded by ~*

THAT the Council of the Municipality of Morris-Turnberry hereby approves for payment the April 11th accounts in the amount of \$393,026.50.

~

6.0 **PUBLIC MEETINGS AND DEPUTATIONS**

6.1 VICTIM SERVICES HURON

Deborah Logue, Executive Director of Victim Services Huron has requested to address Council to present information on grant funds received to install a commemorative bench.

6.2 SAUGEEN VALLEY CONSERVATION AUTHORITY

Jennifer Stephens, General Manager and Secretary Treasurer of the Saugeen Valley Conservation Authority has requested to address council regarding the SVCA's various roles and obligations in the Municipality of Morris-Turnberry.

6.3 CONSENT APPLICATION C13-2022 RYAN

A report has been prepared by Huron County Planner Meghan Tydd-Hrynyk in this regard.

*Moved by ~
Seconded by ~*

THAT the Council of the Municipality of Morris-Turnberry hereby recommends that severance application C13/23 be approved subject to the conditions recommended in the Planner's report.

~

6.4 MEETING TO CONSIDER ENGINEER'S REPORT – BIVAL MUNICIPAL DRAIN

6.4.1 Engineer's Report

A Notice of Request for Drain Construction was received December 9th 2020, for a new closed tile drain to be installed at Part Lot 24, Part Lot 25 Concession 10, Morris Ward.

Notice of the meeting to consider the engineer's report was issued to landowners on March 15th, 2023. On March 21st, Council passed a resolution to extend the time for filing the engineer's report in accordance with the *Drainage Act*.

Project Engineer, Bill Dietrich will attend virtually to present the Engineer's report to Council and those in attendance.

6.4.2 Questions and Comments

- Council
- Landowners in attendance

6.4.3 Consideration of Provisional By-Law

*Moved by ~
Seconded by ~*

THAT leave be given to introduce By-Law # 22-2023, being a by-law to provisionally adopt the engineer's report for the BiVal Municipal Drain 2023, and that it now be read a first and second time this 11th day of April 2023.

~

6.4.4 Date of Court of Revision and instruction to Tender.

*Moved by ~
Seconded by ~*

THAT the Court of Revision for the BiVal Municipal Drain 2023 be set for May 16th, 2023 at 7:30 pm and the project be tendered with results to be presented on June 6th, 2023, pending no appeals.

~

6.4.5 Appointment of Members to the Court of Revision

*Moved by ~
Seconded by ~*

THAT the members of the Court of Revision for the BiVal Municipal Drain 2023 shall be:

- 1 –
- 2 –
- 3 –

~

6.5 SCHWARTZENTRUBER MUNICIPAL DRAIN COURT OF REVISION

6.5.1 The meeting to consider the engineer’s report for the Schwartzentruber Municipal Drain 2023 was held on March 7th, 2023. Notice of the sitting of the Court of Revision was sent on March 13th, 2023. No appeals were received by the deadline of March 31st. At the time of the publication of this agenda, no late appeals had been received.

On March 7rd Council appointed Mayor Heffer, Councillor Snell and Councillor McCallum to sit on the Court of Revision.

6.5.2 Open Court of Revision

THAT the Council of the Municipality of Morris-Turnberry hereby adjourns their regular meeting of Council and enters into the Court of Revision for the Schwartzentruber Municipal Drain 2023.

Schwartzentruber Municipal Drain 2023 Court of Revision

6.5.2.1 Appointment of Chair

*Moved by ~
Seconded by ~*

*THAT be appointed as Chairperson for the
Schwartzentruber Municipal Drain 2023 Court of Revision.*

~

6.5.2.2 Call to order by the Chairperson.

6.5.2.3 Appeals

None received as of the deadline of March 31st. As no appeals were received, the project engineer will not be in attendance.

6.5.2.4 Late or Verbal Appeals

No late appeals have been received as of the time of publication of the agenda. The Court may hear verbal appeals from the floor at their discretion.

6.5.2.5 Adjournment

*Moved by ~
Seconded by ~*

*THAT, there being no appeals to the assessment schedule as
prepared by the engineer, the Court of Revision for the
Schwartzentruber Municipal Drain 2023 be adjourned.*

~

7.0 STAFF REPORTS

7.1 CLERK

7.1.1 Bluevale Hall Door Update

A report has been prepared by Deputy Clerk Kim Johnston in this regard for the information of Council.

7.2 PUBLIC WORKS

7.2.1 Operations Update

A report has been prepared by Director of Public Works Mike Alcock to provide an update on Public Works operations and activities.

8.0 **BUSINESS**

8.1 ASSOCIATION OF ONTARIO ROAD SUPERVISORS REQUEST FOR SUPPORT

A request for support from AORS will be presented by Director of Public Works Mike Alcock.

8.2 BOUNDARY ROAD MAINTENANCE AGREEMENT – SOUTH BRUCE

A report has been prepared by Director of Public Works Mike Alcock in this regard.

*Moved by ~
Seconded by ~*

THAT the Council of the Municipality of Morris-Turnberry hereby directs staff to return a by-law to authorize an agreement for the maintenance of a boundary road between the Municipality of Morris-Turnberry and the Municipality of South Bruce to the next meeting of Council.

~

8.3 TILE DRAIN LOAN APPLICATION

A report has been prepared by CAO/Clerk Trevor Hallam in this regard.

*Moved by ~
Seconded by ~*

THAT the Council of the Municipality of Morris-Turnberry hereby accepts and approves the application for a Tile Loan submitted by Greg Higgins for the North Part of Lot 6, Concession 3, Morris.

~

9.0 **COUNCIL REPORTS**

Kevin Freiburger

Jamie McCallum

Sharen Zinn

Jodi Snell

Jamie Heffer

10.0 **CORRESPONDENCE, MINUTES, ITEMS FOR INFORMATION**

- 10.1 Media Release - SCVA Watershed Report Card Released
- 10.2 Media Release – Huron County Library survey
- 10.3 Media Release – Ontario's West Coast Tourism Summit
- 10.4 Brussels Fire/EMT station expansion update – Report to Huron County Council
- 10.5 BMGCC renovation update – Report to Huron East Council
- 10.6 AMDSB Board Meeting Highlights – March 28
- 10.7 Minutes – SVCA Board Meeting - February 16th
- 10.8 Minutes – MVCA Board Meetings
- 10.9 MVCA Levy Package 2023
- 10.10 SVCA Audited Financial Statements 2022
- 10.11 Notice of Public Meeting – Township of North Huron Zoning Review
- 10.12 Ausable Bayfield Maitland Valley Source Protection Region Newsletter – March 2023
- 10.13 Call for Nominations – Senior of the Year – Ministry for Seniors and Accessibility
- 10.14 Annual Report – Huron County Library
- 10.15 HPPH COVID Vaccine Report
- 10.16 Correspondence – Updates to PPS – Ministry of Municipal Affairs and Housing.
- 10.17 Resolution – Extension of Moratorium on Pupil Accommodation Reviews – Municipality of Calvin
- 10.18 Resolution – Barriers for Women in Politics – Township of Lucan Biddulph
- 10.19 Outstanding Action Items

11.0 **NEW BUSINESS**

None.

12.0 **BY-LAWS AND AGREEMENTS**

12.1 MUNICIPAL DEVELOPMENT AND SERVICING GUIDELINES

At the September 20, 2022 meeting of Council, staff were directed to return a by-law to adopt the draft Municipal Development and Servicing Guidelines for consideration. The completion of the Guidelines was delayed due to final review and further updates. By-law 23-2023 is presented here for consideration.

*Moved by ~
Seconded by ~*

THAT leave be given to introduce By-Law # 23-2023, being a by-law to establish Municipal Development and Servicing Guidelines for the Corporation of the Municipality of Morris-Turnberry, and that it now be read severally a first, second, and third time, and finally passed this 11th day of April 2023.

~

13.0 **CLOSED SESSION**

13.1 Enter closed session.

*Moved by ~
Seconded by ~*

THAT the Council of the Municipality of Morris-Turnberry enter a closed session at ____ p.m., with the CAO/Clerk remaining in attendance, for the purpose of discussing confidential matters pursuant to the following sections of the Municipal Act:

Section 239 (2) (c) regarding a proposed acquisition of land by the municipality.

~

13.2 Return to open session.

*Moved by ~
Seconded by ~*

THAT the Council of the Municipality of Morris-Turnberry rise from a closed session at ____ p.m.

~

13.3 Report and Action from Closed Session.

14.0 **CONFIRMING BY-LAW**

*Moved by ~
Seconded by ~*

THAT leave be given to introduce By-Law # 24-2023, being a by-law to confirm the proceedings of the Municipality of Morris-Turnberry meeting of Council held on April 11th, 2023, and that it now be read severally a first, second, and third time, and finally passed this 11th day of April 2023.

~

15.0 ADJOURNMENT

*Moved by ~
Seconded by ~*

*THAT the Council of the Municipality of Morris-Turnberry does
now adjourn at ____ pm.*

~

NEXT MEETINGS:

Regular Meeting of Council – Tuesday, May 2nd, 2023, 7:30 pm
Regular Meeting of Council – Tuesday, May 16th, 2023, 7:30 pm



MUNICIPALITY OF MORRIS-TURNBERRY

COUNCIL MINUTES

Tuesday, March 21st, 2023, 7:30 pm

The Council of the Municipality of Morris-Turnberry met in Council Chambers in regular session on the 21st day of March 2023, at 7:30 pm.

Council in Attendance

Mayor Jamie Heffer
Deputy Mayor Kevin Freiburger
Sharen Zinn
Jodi Snell
Jamie McCallum

Staff in Attendance

Trevor Hallam	CAO/Clerk
Kirk Livingston	Chief Building Official / Drainage Superintendent / Property Standards Officer / Zoning Administrator

Others in Attendance

Jeremy Gough	MPAC Account Manager
Scott Stephenson	The Citizen
Mike Wilson	Wingham Advance Times

1.0 CALL TO ORDER

Mayor Heffer called the meeting to order at 7:30 pm

Mayor Heffer noted that Mike Wilson and Scott Stephenson disclosed the use of recording equipment for the purpose of writing articles to the Clerk in advance of the meeting.

2.0 ADOPTION OF AGENDA

Motion 79-2023

Moved by Jamie McCallum

Seconded by Kevin Freiburger

THAT the Council of the Municipality of Morris-Turnberry hereby adopts the agenda for the meeting of March 21st, 2023, as circulated.

Carried.

3.0 DISCLOSURE OF PECUNIARY INTEREST / POTENTIAL CONFLICT OF INTEREST

None.

4.0 MINUTES

Motion 80-2023

*Moved by Sharen Zinn
Seconded by Jodi Snell*

THAT the Council of the Municipality of Morris-Turnberry hereby adopts the March 7th, 2023, Council Meeting Minutes as written.

Carried.

5.0 ACCOUNTS

Motion 81-2023

*Moved by Jodi Snell
Seconded by Kevin Freiburger*

THAT the Council of the Municipality of Morris-Turnberry hereby approves payment of the March 21st accounts in the amount of \$1,071,213.60.

Carried.

6.0 PUBLIC MEETINGS AND DEPUTATIONS

6.1 MUNICIPAL PROPERTY ASSESSMENT CORPORATION

Jeremy Gough, local MPAC Account Manager, provided information to Council to explain MPAC's role in the property assessment and taxation system.

7.0 STAFF REPORTS

7.1 CLERK

7.1.1 Early Investment in Education and Skills Program Promotion

A report prepared by Deputy Clerk Kim Johnston regarding the efforts made to promote and increase engagement in the Early Investment in Education and Skills program was presented by Mr. Hallam.

7.2 BY- LAW ENFORCEMENT

7.2.1 By-Law Enforcement Activities – January and February 2023

A report was presented by CBO/By-Law Enforcement Officer Kirk Livingston regarding by-law enforcement activities for January and February.

7.3 BUILDING

7.3.1 Building Department Activities – January and February 2023

A report was presented by CBO/By-Law Enforcement Officer Kirk Livingston regarding building department activities for January and February.

7.4 DRAINAGE

7.4.1 Municipal Drain Maintenance Activities - 2022

A report was presented by CAO/Clerk Trevor Hallam regarding Municipal Drain Maintenance activities for 2022.

8.0 BUSINESS

8.1 RECEIPT OF ENGINEERS REPORT EXCEEDING PRESCRIBED TIMELINE

A report was presented by CAO/Clerk Trevor Hallam in this regard.

Motion 82-2023

*Moved by Jamie McCallum
Seconded by Kevin Freiburger*

WHEREAS the Council of the Municipality of Morris-Turnberry previously accepted a petition for the construction of new drainage works at Part Lot 24, Part Lot 25 Concession 10, Morris;

AND WHEREAS Dietrich Engineering Ltd was appointed to examine the area requiring drainage and prepare a report in accordance with the Drainage Act on January 12th, 2021;

AND WHEREAS said report was filed with the Municipality by Dietrich Engineering on March 15th, 2023;

NOWTHEREFORE the Council of the Municipality of Morris-Turnberry hereby extends the time for filing the engineers report from January 12th 2022 to March 15th 2023 pursuant to Section 39(1) of the Drainage Act.

Carried.

8.2 COUNCIL CONFERENCE ATTENDANCE POLICY REVIEW

A report was presented by CAO/Clerk Trevor Hallam in this regard.

Councillor McCallum suggested that the conference budget amount that appears in the draft by-law for 2024 remuneration rates give regard to conference costs in 2023.

Motion 83-2023

*Moved by Sharen Zinn
Seconded by Kevin Freiburger*

THAT the Council of the Municipality of Morris-Turnberry hereby directs staff to take the following action with regard to the municipality's policy and allowances for the attendance of Councilors at Conferences and other events, to be effective January 1st 2024;

- 1. Remove the cap of one conference per Councillor per year;*
- 2. Establish a conference budget of \$3000.00 per Councillor for registration, accommodation, and travel expenses only;*
- 3. Set a meal/incidental expense allowance at the rates established by the National Joint Council and updated accordingly annually;*
- 4. Set a per diem allowance set at the rate for a meeting that is four hours or greater;*

Carried.

9.0 COUNCIL REPORTS

Kevin Freiburger

March 21st attended a cross border servicing meeting at the Morris-Turnberry Municipal office with Mayor Heffer, Mr. Hallam, and North Huron CAO Dwayne Evans, Reeve Heffer and Deputy Reeve Falconer.

Jamie McCallum

No report.

Sharen Zinn

March 15th attended a Maitland Valley Conservation Authority Member's Meeting.

Jodi Snell

March 8th attended a Coalition for Huron Injury Prevention meeting.
 March 13th attended a Wingham and Listowel Hospital Alliance Physician Recruitment Committee meeting.

Jamie Heffer

March 21st attended a cross border servicing meeting at the Morris-Turnberry Municipal office with Deputy Mayor Freiburger, Mr. Hallam, and North Huron CAO Dwayne Evans, Reeve Heffer and Deputy Reeve Falconer.

10.0 CORRESPONDENCE, MINUTES, ITEMS FOR INFORMATION

- 10.1 Notice of On-Site Meeting – Grant Municipal Drain
- 10.2 Notice of Zoning Review – North Huron
- 10.3 Drinking Water Source Protection Meeting Notes
- 10.4 Resolution – School Bust Stop Arm Cameras – North Perth
- 10.5 Budget – Wingham and area Health Professionals Recruiting Committee
- 10.6 Invitation – Economic Development 101 Workshop
- 10.7 Minutes – Coalition for Huron Injury Prevention – March 8
- 10.8 Outstanding Action Items

Motion 84-2023

*Moved by Sharen Zinn
 Seconded by Kevin Freiburger*

THAT the Council of the Municipality of Morris-Turnberry supports the resolution of the Municipality of North Perth calling on the Provincial Government to take action to improve student safety through the implementation of mandatory school bus stop arm cameras.

Carried.

Motion 85-2023

*Moved by Jamie McCallum
 Seconded by Kevin Freiburger*

THAT the Council of the Municipality of Morris-Turnberry hereby approves the attendance of Councilors McCallum, Zinn and Snell at the Community Economic Development 101 session in Walkerton on April 12th, and Mayor Heffer, and Councilors Snell and Zinn at the South Bruce Nuclear Exploration Forum on April 4th and 5th, as representatives of Council.

Carried.

11.0 NEW BUSINESS

None.

12.0 BY-LAWS AND AGREEMENTS

None.

13.0 CLOSED SESSION

- 13.1 Enter closed session.

Motion 86-2023

*Moved by Sharen Zinn
 Seconded by Jodi Snell*

THAT the Council of the Municipality of Morris-Turnberry enter a closed session at 8:23 p.m., with the CAO/Clerk remaining in

attendance, for the purpose of discussing confidential matters pursuant to the following sections of the Municipal Act:

1. *Section 239 (2) (k) regarding negotiations to be carried on by the municipality.*

Carried.

13.2 Return to open session.

Motion 86-2023

*Moved by Sharen Zinn
Seconded by Jamie McCallum*

THAT the Council of the Municipality of Morris-Turnberry rise from a closed session at 8:38 p.m.

Carried.

13.3 Report and Action from Closed Session.

Council received a verbal update regarding cross border servicing negotiations.

14.0 **CONFIRMING BY-LAW**

Motion 87-2023

*Moved by Jodi Snell
Seconded by Jamie McCallum*

THAT leave be given to introduce By-Law # 21-2023, being a by-law to confirm the proceedings of the Municipality of Morris-Turnberry meeting of Council held on March 21st, 2023, and that it now be read severally a first, second, and third time, and finally passed this 21st day of March 2023.

Carried.

15.0 **ADJOURNMENT**

Motion 88-2023

*Moved by Jamie McCallum
Seconded by Sharen Zinn*

THAT the Council of the Municipality of Morris-Turnberry does now adjourn at 8:38 pm.

Carried.

NEXT MEETINGS:

Regular Meeting of Council – Tuesday, April 11th, 2023, 7:30 pm
Regular Meeting of Council – Tuesday, May 2nd, 2023, 7:30 pm

Mayor, Jamie Heffer

Clerk, Trevor Hallam

Municipality of Morris-Turnberry
Account List for

April 11 2023

General

Bell Mobility	Cell Phone	51.40
Bell Canada	Morris Office	454.87
Bell Canada	Turnberry Shop - Emergency Lines	100.57
Telizon	Long Distance Phone	1.91
Enbridge	Morris Office	645.69
Hydro One	Streetlights	1,130.56
Tuckersmith Communications	Morris Office Internet & Security	146.90
Huron Clean	Office Cleaning	373.18
Orkin Canada	Pest Control	106.73
CIBC VISA	OGRA Conference Hotel Rooms x2	2,037.78
	Cream	12.18
	Coffee Supplies	698.90
	Water	72.72
	USB Chargers for Emergency Totes	138.30
	Online Council Meetings	22.60
		2,982.48
Maitland Conservation	2023 Levy	97,207.00
McDonagh Insurance Brokers	2023 Insurance	94,685.40
Huron County Mutual Fire Aid Assoc.	2023 Mutual Fire Aid Dues	624.10
Bluevale Community Committee	Bluevale Hall Rentals	120.00
UTS Group Inc	Bluevale Hall Door Replacement Deposit	5,166.93
Municipality of South Huron	Joint Compliance Audit Committee Training	339.00
Treasurer, County of Huron	Joint Orientation Session - Meeting Procedures	76.32
Assoc of Municipalities of Ontario	2023 AMO Conference Registration	966.15
Royal Canadian Legion Br 180	Donation in Memory	125.00
Minister of Finance	Policing - February	38,468.00
WSIB	WSIB - March	1,673.29
Minister of Finance	EHT - March	1,136.27
Receiver General	2022 PIER Report Reconciliation	53.36
Payroll		
March 29 2023	Payroll	21,209.77
	Expenses	670.98
Council Pay	Payroll - March 2023	4,699.52
	Rec General	553.69

273,769.07

Building Department

Bell Mobility	Cell Phone	109.82
Leslie Motors	Truck Maintenance	826.49
CIBC VISA	2023 Quarts Membership	128.00
WSIB	WSIB - March	390.89
Minister of Finance	EHT - March	245.88
Payroll		
March 29 2023	Payroll	5,019.19
	Expenses	-

Building Total

6,720.27

Property Standards

Keppelcreek	March Bylaw Enforcement	1,355.59
Goderich Print Shop	Business Cards	52.83

Property Standards Total

1,408.42

Drainage

Hydro One	Hopper Pump	238.31
Maitland Conservation	Grant MD, Arbuckle MD & Nichol MD Permits	435.00

Drainage Total

673.31

Parks & Cemeteries

Parks & Cemeteries Total

-

Belgrave Water

Bell Canada	Belgrave Water	137.20
Hay Communications	Belgrave Water	11.30
Allstream	Belgrave Water	68.15
Ferguson Plumbing Heating Electrical	Well House Valve Repairs	18,201.37
Veolia Water Canada	January Operations	5,945.80

Water Total 24,363.82

Landfill

Bell Mobility	Cell Phones	8.91
CIBC VISA	Spill Kits for Landfill	1,471.21
MGM Townsend Tire	Tractor Repair	230.53
Artech Signs & Graphic Ltd.	Signs	1,116.44
RJ Burnside & Associates	Morris Landfill	9,744.40
Bluewater Recycling Association	Curbside Pickup - April	14,631.02

Landfill Total 27,202.51

Roads

Bell Canada	Turnberry Shop	100.57
Bell Canada	Morris Shop	227.44
Bell Mobility	Cell Phones	143.81
Enbridge	Morris Shop	1,291.39
Enbridge	Turnberry Shop	664.56
HuronTel	Turnberry Shop Internet	66.56
PBJ Cleaning Depot Inc	Shop Supplies	527.37
CIBC VISA	OGRA Conference Hotel Room	1,018.89
	CVOR Renewal	<u>51.00</u>
Chad Cook Electric	Turnberry Shop Lights	1,069.89
Compass Minerals	Winter Road Salt	4,311.52
Laidlaw Carriers	Winter Road Salt	3,655.96
Donegan's Haulage	Winter Road Sand	306.67
Radar Auto Parts	Winter Road Sand	3,648.73
Joe Kerr Ltd.	Parts for 13-03 Grader, 22-14 Pickup & Shop Supplies	1,325.44
Altruck International Truck Centres	Repair for 19-06 Tandem	306.04
Brandt London	Parts for 16-05 Tandem	198.28
Valley Blades Limited	Part for 13-03 Grader	536.77
MRC Systems Inc.	Grader Blades	4,245.12
Neils Repair Service	Install Radio in 22-14 Pickup	260.91
BM Ross & Associates	Install Lighting on 22-14 Pickup	659.01
BM Ross & Associates	Smuck Bridge (M230)	1,751.39
Municipality of Morris-Turnberry	Moncrieff Rd Bridge (M060)	1,195.58
WSIB	Lamont Municipal Drain	461.16
Minister of Finance	WSIB - March	2,313.99
	EHT - March	1,455.57

Payroll

March 29 2023	Payroll	28,165.37
	Expenses	-

Roads Total 58,889.10

Account Total 393,026.50

Approved By Council:

April 11 2023

Mayor - Jamie Heffer

Treasurer- Sean Brophy



Municipality of Morris-Turnberry

COUNCIL AND COMMITTEE DELEGATION REQUEST

A delegation is a person or group of people who address Council or a Committee for the purpose of making a presentation. Please ensure this form is completed, with an attachment outlining your request for a Council delegation. This Request Form must be received by the Clerk no later than 12:00 noon on the Thursday preceding the Council meeting. The Request must be delivered by email, or in person.

Email: thallam@morristurnberry.ca

Address: 41342 Morris Road, PO Box 310, Brussels, ON N0G 1H0

REQUESTED DATE OF MEETING: April 11

NAME OF PERSON(S) MAKING PRESENTATION (and title/position, if applicable)

Deborah Logue - Executive Director of Victim Services Huron

GROUP/ORGANIZATION DELEGATION REPRESENTS: Victim Services Huron

FULL MAILING ADDRESS OF DELEGATION(S):

285 Princess St, Box 632 Brussels, ON N0G 1H0

TELEPHONE #: 519-525-7292

EMAIL ADDRESS: deborah@victimserviceshur

GENERAL NATURE OF DELEGATION:

To present information on receiving a grant to provide a bench to commemorate impacts of homicide.

PLEASE INDICATE THE ACTION/DECISION BEING REQUESTED OF COUNCIL:

Support for the installation of the bench and permission of the location requested at hwy #86 rest stop.

A delegation wishing to appear before the Council or Committee on Municipal business shall make a formal request to the Clerk in writing by Thursday noon prior to the meeting. A written brief is required outlining the subject matter of the presentation.

At the discretion of the Clerk, the Delegation will be scheduled to make a presentation to a Council Meeting or Committee meeting. Delegations are limited to ten (10) minutes to address Council. If the delegation has printed information such as reports, power point presentations and other written material that are to be presented to Council or Committee, it must be delivered to the Clerk by Thursday noon prior to the meeting.

For further information on the procedure for appearing before Council as a delegation, please contact Trevor Hallam, Clerk, at 519-887-6137 ext. 21 or thallam@morristurnberry.ca.

The Information submitted will be considered to be public information and therefore subject to full disclosure, under the Municipal Freedom of Information and Protection of Privacy Act.

Deborah Logue Digitally signed by Deborah Logue
Date: 2023.03.08 14:23:45 -05'00'

Delegation Applicant Signature

Clerk or designate

March 8, 2023

Date

March 8 2023.

Date Received

OFFICE USE:

Confirmed meeting date April 11th

Confirmed with Requestor on March 8 (date) by email (phone/email).



Municipality of Morris-Turnberry

COUNCIL AND COMMITTEE DELEGATION REQUEST

A delegation is a person or group of people who address Council or a Committee for the purpose of making a presentation. Please ensure this form is completed, with an attachment outlining your request for a Council delegation. This Request Form must be received by the Clerk no later than 12:00 noon on the Thursday preceding the Council meeting. The Request must be delivered by email, or in person.

Email: thallam@morristurnberry.ca

Address: 41342 Morris Road, PO Box 310, Brussels, ON N0G 1H0

REQUESTED DATE OF MEETING: April 11, 2023

NAME OF PERSON(S) MAKING PRESENTATION (and title/position, if applicable)

Jennifer Stephens, General Manager/Secretary-Treasurer

GROUP/ORGANIZATION DELEGATION REPRESENTS: Saugeen Valley Conservation Authority

FULL MAILING ADDRESS OF DELEGATION(S):

1078 Bruce Road 12, Box 150, Formosa, ON, N0G 1W0

TELEPHONE #: 519-369-7206

EMAIL ADDRESS: j.stephens@svca.on.ca

GENERAL NATURE OF DELEGATION:

The purpose of this delegation is to inform Council of the Programs and Services offered by Saugeen Valley Conservation Authority.

PLEASE INDICATE THE ACTION/DECISION BEING REQUESTED OF COUNCIL:

No decision being requested.

A delegation wishing to appear before the Council or Committee on Municipal business shall make a formal request to the Clerk in writing by Thursday noon prior to the meeting. A written brief is required outlining the subject matter of the presentation.

At the discretion of the Clerk, the Delegation will be scheduled to make a presentation to a Council Meeting or Committee meeting. Delegations are limited to ten (10) minutes to address Council. If the delegation has printed information such as reports, power point presentations and other written material that are to be presented to Council or Committee, it must be delivered to the Clerk by Thursday noon prior to the meeting.

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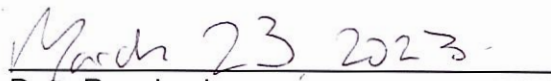
The Information submitted will be considered to be public information and therefore subject to full disclosure, under the Municipal Freedom of Information and Protection of Privacy Act.


Delegation Applicant Signature

March 23, 2023

Date


Clerk or designate


Date Received

OFFICE USE:

Confirmed meeting date April 11

Confirmed with Requestor on March 23 (date) by Email (phone/email).



Saugeen Valley Conservation Authority

Programs and Services

Jennifer Stephens

General Manager/Secretary-Treasurer

April 11th, 2023

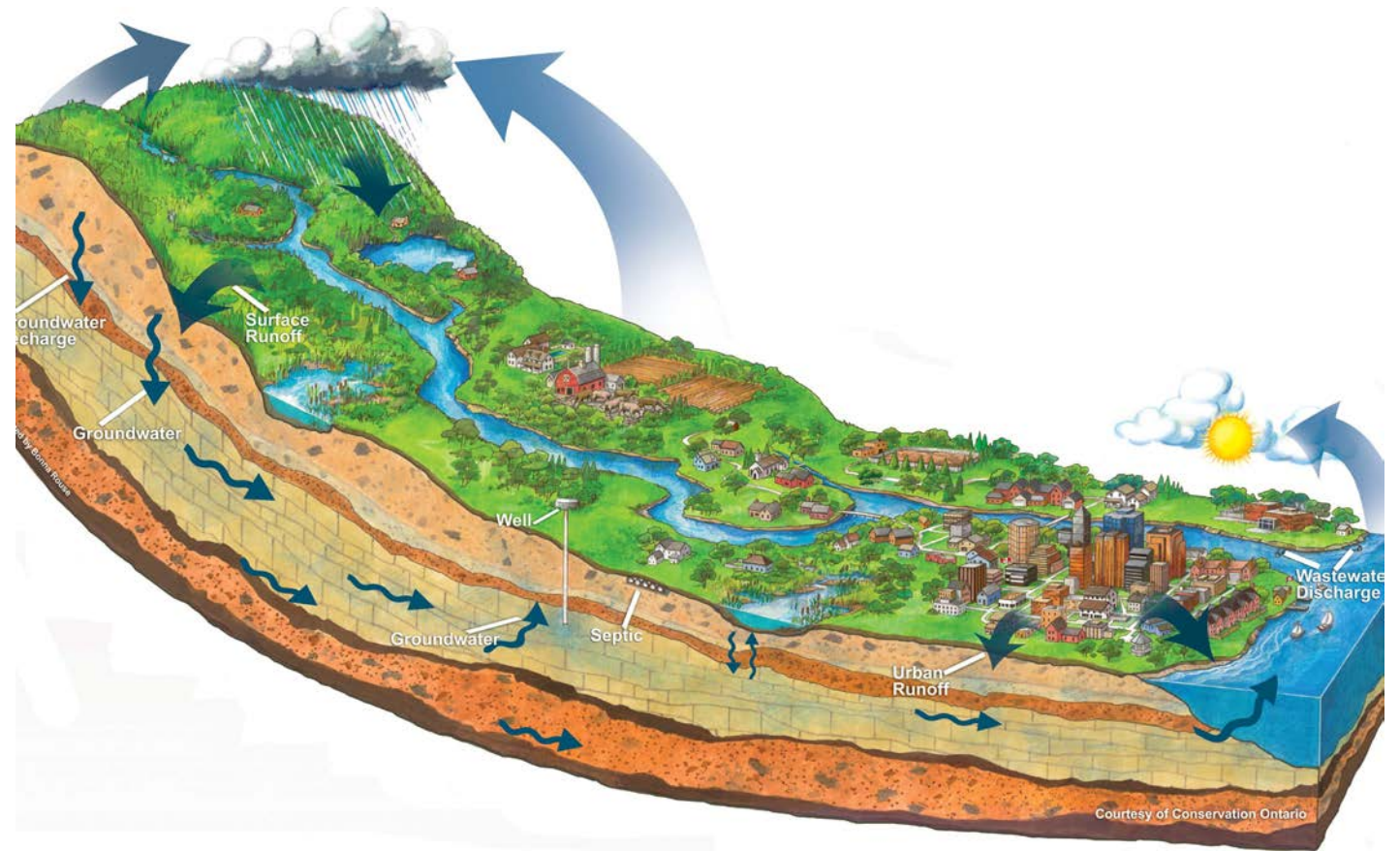
Ontario's Conservation Authorities

- 36 Conservation Authorities throughout Ontario
- Complete ~32,000 Planning and Permit Reviews Annually
- Manage over \$3.8-Billion worth of flood control and prevention infrastructure
- Protect lives and Prevent more than \$150-million per year in flood damages and disruption
- Work with landowners to plant over 1.3-M trees annually
- Offer 3,500 km worth of trail for people to enjoy, hosting almost 10-M visitors annually
- Second largest landowner in Ontario (collectively)

What is a Watershed?

Water flows Downstream...

- A watershed is simply a catchment area.
- When rain falls, it either infiltrates, evaporates, or runs off.
- What happens on your property might affect your neighbours and vice-versa.

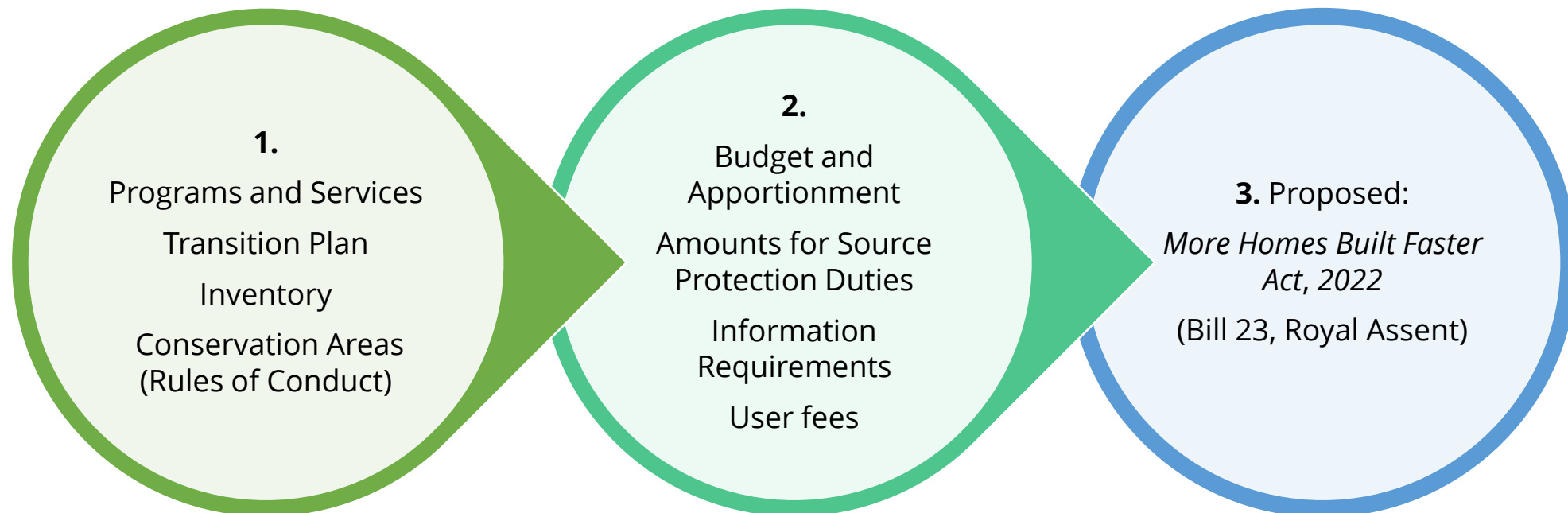




We are one of 36 Conservation Authorities across Ontario under the umbrella organization of Conservation Ontario.

Conservation Authorities Act

Overview of Related Changes and Proposals from 2021 Onwards



Flood and Erosion Control Prevention



Non-Structural Approaches

Keeping people away from water

- Regulation of development in floodplains
- Flood forecasting and warning
- Water infrastructure maintenance and inspection
- Emergency planning

Structural Approaches

Keeping water away from people

- Dams – to control flow of frazil ice and water
- Dykes – to restrict flows to the proper channel
- Channel works – to protect slopes from erosion

Flood Warning Program

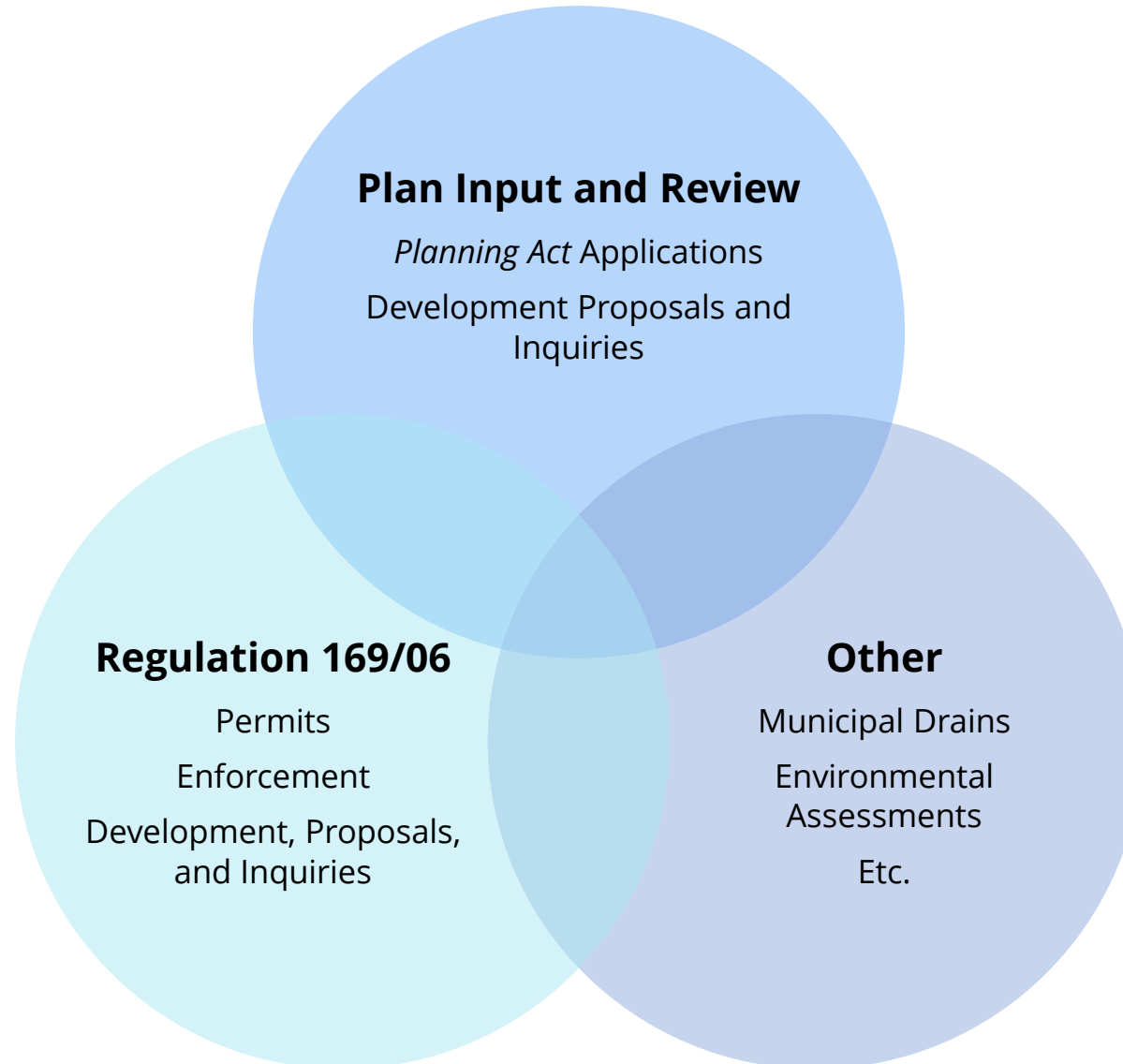
1. To relay routine information concerning watershed river conditions to selected agencies and municipal officials.
2. To provide rapid, advance warning and technical support to concerned officials and to citizens whose lives and properties may be endangered by floodwaters.



Flood Warning Messages

Normal	Green	
Statement	Yellow	<p>Watershed Conditions Statements / Water Safety are issued when general watershed conditions suggest high runoff potential that could lead to flooding and to remind the public that rivers, streams, and ponds may be unsafe for recreational or other activities.</p> <p>High flows, unsafe banks, melting ice or other factors that may result in watercourses being too dangerous for recreational users or the general public.</p>
Flood Watch	Orange	Flood Watch messages are issued when the potential for generalized flooding exists throughout the watershed or identified for specific municipalities.
Warning	Red	Flood Warning messages are issued when flooding is occurring or about to occur. It typically applies to a specific area of the watershed.

Environmental Planning and Regulations



Provincially Delegated Responsibility

All CAs have been delegated responsibility under the Provincial One Window Planning System for Natural Hazard management.

As outlined in a CO/MNRF/MMAH Memorandum of Understanding (MOU) CAs have been delegated responsibilities from the MNRF to represent **provincial interests** regarding natural hazards encompassed by Section 3.1 of the Provincial Policy Statement (PPS).

These delegated responsibilities require SVCA to review and provide comments on municipal policy documents (Official Plans and comprehensive zoning by-laws) and development applications.

SVCA's purpose is to ensure municipal policy documents and development applications are consistent with the natural hazard policies of the PPS.



Hurricane Hazel, Toronto 1954

Drinking Water Source Protection

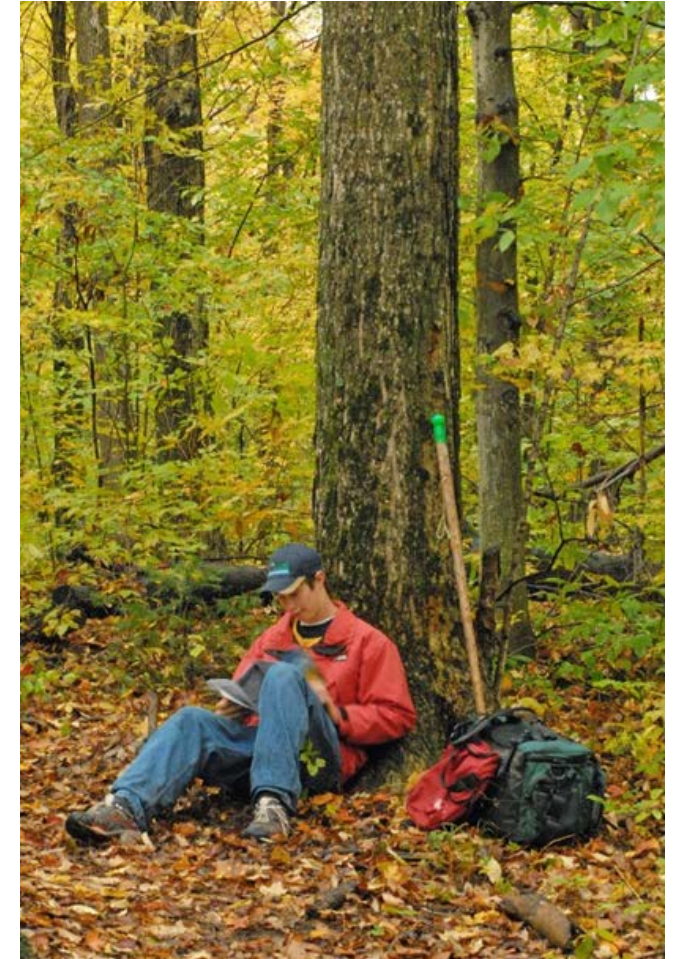
- Source protection is the first line of defense to protecting our drinking water
- Ensure communities are taking appropriate measures to protect municipal drinking water
- SVCA has a responsibility to help protect municipal sources of drinking water
- 153 Risk Management Plans are currently in place throughout the Source Protection Region
- 100% of significant drinking water threat policies have been implemented within the Source Protection Region



**DRINKING WATER
SOURCE PROTECTION**
Our Actions Matter

Land Conservation

Planning and design of maintenance or improvement projects related to Authority properties and structures.

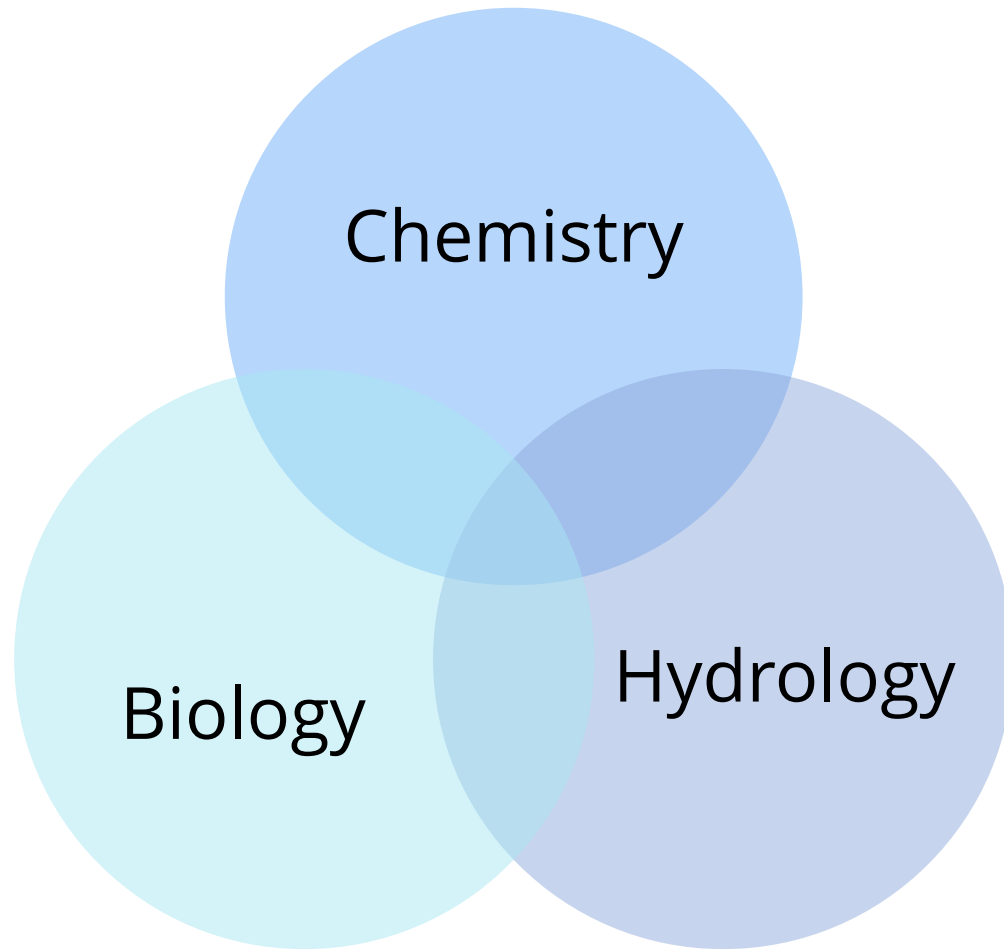


Forestry and Stewardship

- Tree Planting Program
- Managed Forest Tax Incentive Program applications for Authority properties and private landowners
- Tree Marking and Tendering Program
- Maintenance and improvement projects related to Authority forested properties (8,000ha)



Water Quality Program - Objectives



To establish baseline water quality data;
To observe trends; and
To assess the effectiveness of watershed programs.

The image shows a laboratory sample bottle and a handheld water quality meter. The bottle is labeled 'Environment Canada' and 'Ministry of the Environment'. It contains a dark liquid. The label also includes a form for 'Laboratory Sample for Analysis' with fields for 'Date and Time', 'Location', 'Depth', 'Volume', 'Container', 'Preservatives Used', and 'Sampler'. The meter is a 'Pro DSS' model, displaying various parameters on its screen, including 'pH', 'ORP', 'DO', 'TDS', 'Temp', 'Salinity', 'Conductivity', and 'Turbidity'. The meter is connected to a probe with a yellow tip.



Biomonitoring

SVCA samples sediments for insect larvae. Different species have different pollution tolerances.



Groundwater Monitoring

SVCA performs level and maintenance checks quarterly. Well pump and samples are taken every fall.

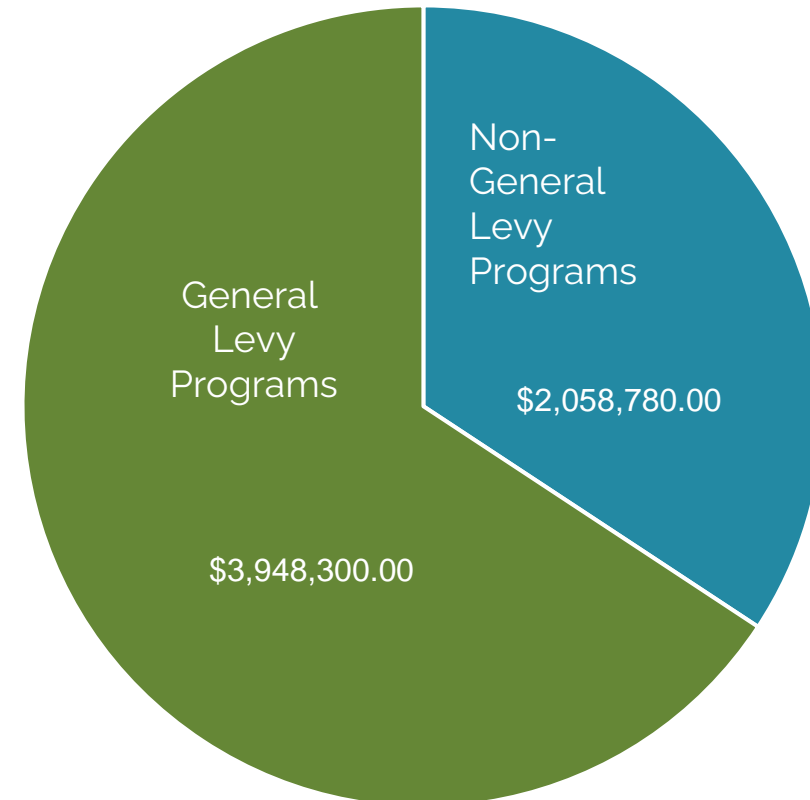
There are 23 aquifers accessed at 14 sites.



2023 Budget



Municipality of Morris-Turnberry: \$ 4,184



Total: \$6,007,080

Programs and Services



Category 1: Mandatory programs and services

Category 2: Programs and services a conservation authority does on behalf of municipalities

Category 3: Programs and services that a conservation authority determines are advisable to provide in its jurisdiction

Agreements between municipalities and conservation authorities for Category 2 and 3 Programs and Services must be in place by January 1, 2024.



Thank you!



PLANNING & DEVELOPMENT

57 Napier Street, Goderich, Ontario N7A 1W2 CANADA

Phone: 519.524.8394 Ext. 3 Fax: 519.524.5677 Toll Free: 1.888.524.8394 Ext. 3

www.huroncounty.ca

Consent Application Report – File C13-2023

Owner: Paul Ryan	Date: April 11, 2023
Property Description: Lot 6 & East Part Lot 7, Concession 11; 41996 Glenannon Road, Wingham, Municipality of Morris-Turnberry	

Recommendation: That provisional consent be:

- ☒ Recommended for approval with the attached conditions (& any additional Municipal Conditions)
- ☐ Recommended for deferral
- ☐ Recommended for denial (referred to Huron County Council for a decision)

Purpose:

- ☐ enlarge abutting lot
- ☒ create new lot
- ☐ surplus farm dwelling
- ☐ right-of-way / easement
- ☐ other:

Area Severed: 50 acres (20 ha)	Official Plan Designation: Agriculture, Natural Environment	Zoning: AG1 – (General Agriculture), NE2 – (Natural Environment – Limited Protection)
Area Retained: 100 acres (40 ha)	Official Plan Designation: Agriculture, Natural Environment	Zoning: AG1 – (General Agriculture), NE2 – (Natural Environment – Limited Protection)

Review: This application:

- ☒ Is consistent with the Provincial Policy Statement (s. 3(5) Planning Act);
- ☒ Does not require a plan of subdivision for the proper and orderly development of the municipality (s. 53(1) Planning Act);
- ☒ Conforms with section 51(24) of the Planning Act;
- ☒ Conforms to the Huron County Official Plan;
- ☒ Conforms to the Morris-Turnberry Official Plan, Section 3.4.1;
- ☒ Complies with the Morris-Turnberry Zoning By-law (or will comply subject to a standard condition of rezoning or minor variance).
- ☒ Has no unresolved objections/concerns raised (to date) from agencies or the public; and
- ☐ Recommended for approval by local Council.

(Applications that are unable to meet all of the foregoing criteria will be referred to Huron County Council for a decision)

Agency Comments:

	Not Received	No Objections	Summary of Comments
Neighbours			Two comments of objection summarized below and attached.
Municipality Staff		✓	Severed lot will require an entrance permit for a new entrance.
Maitland Valley Conservation Authority		✓	No objections as related to natural hazards.

Figure 1: Subject Property (outlined in orange)

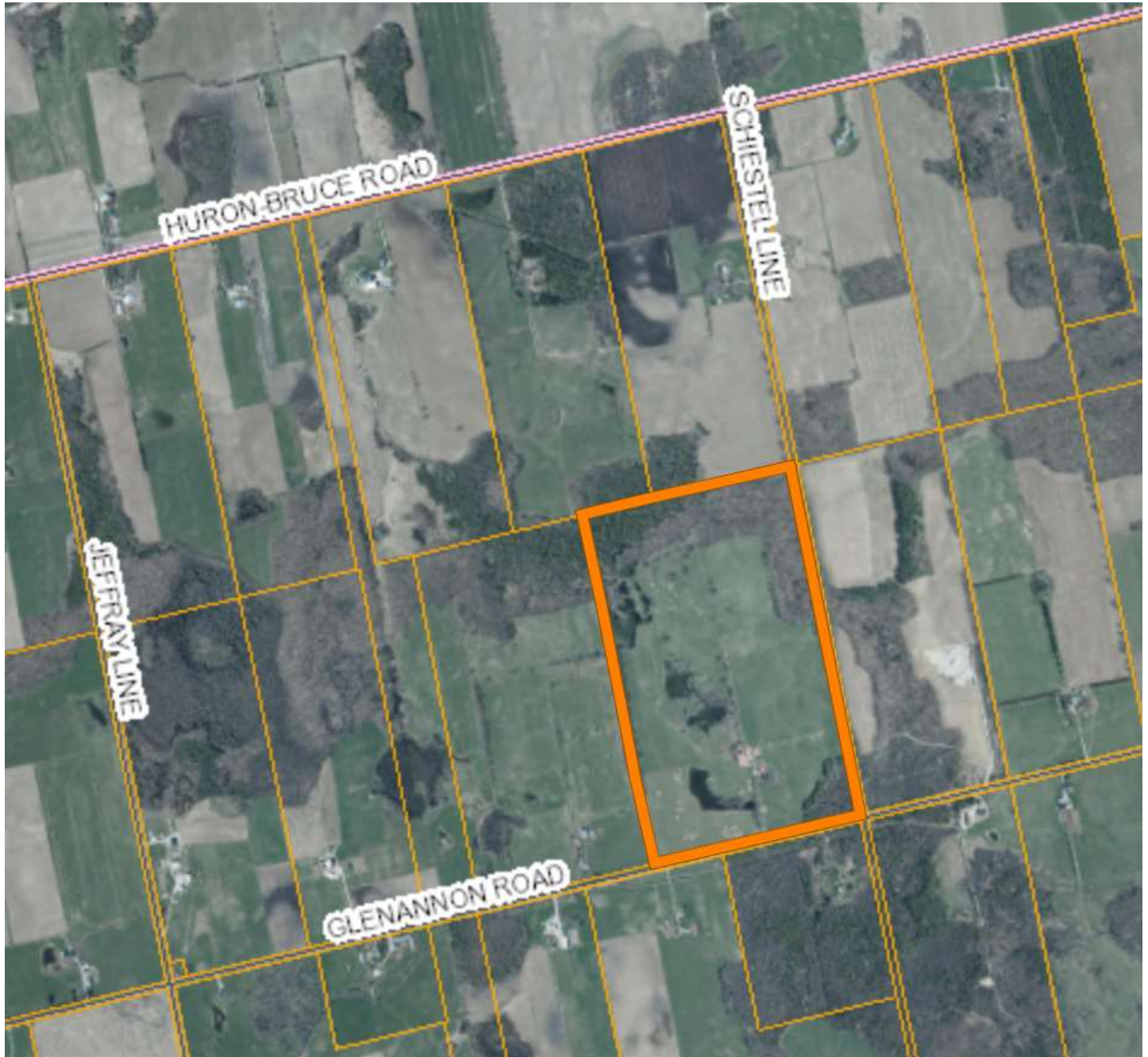
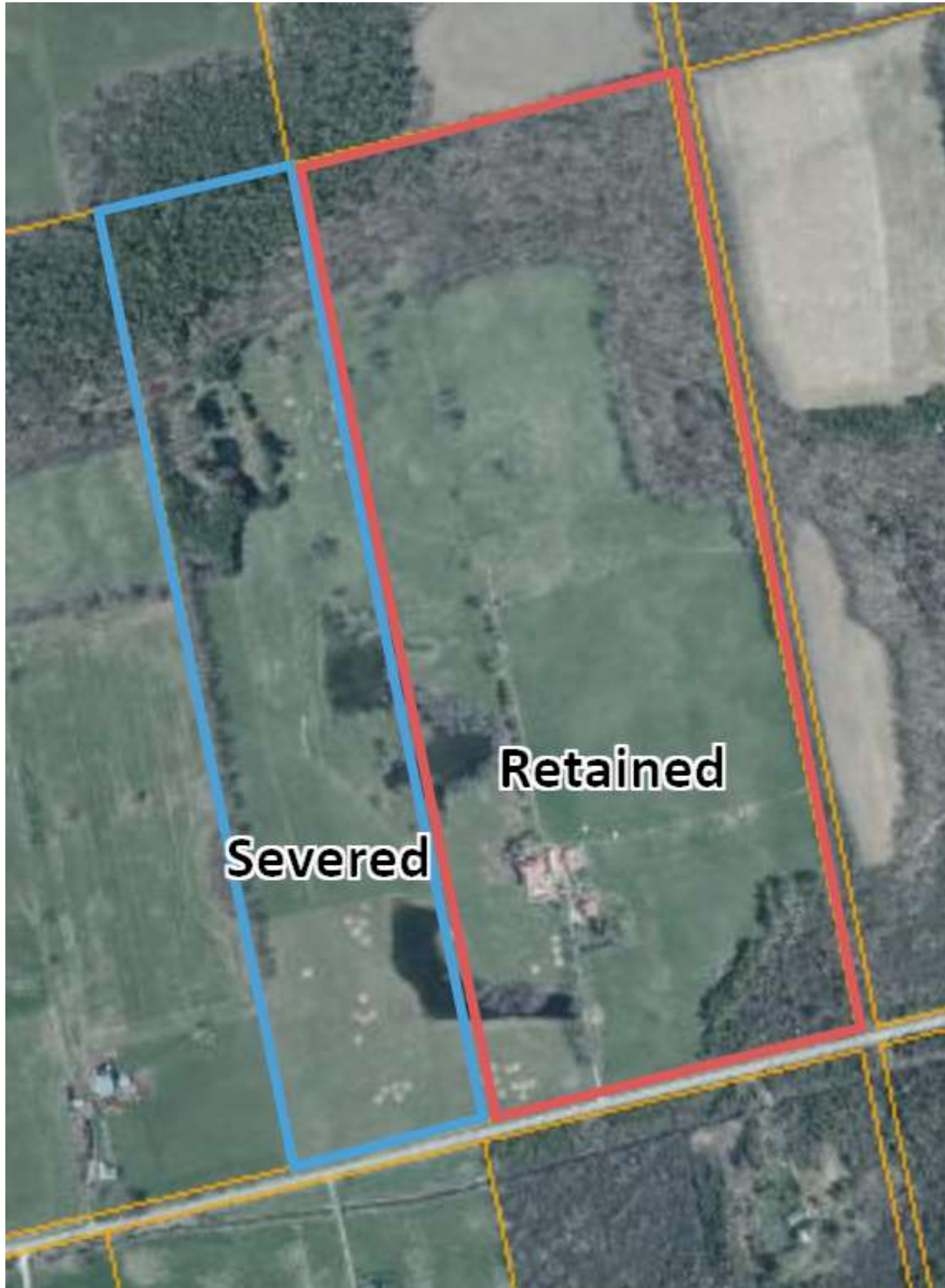


Figure 2: Subject Property (severed parcel – outlined in blue, retained parcel – outlined in red)



Additional Comments:

- This application proposes to sever 50 acres (20 ha) of vacant agricultural land from a 150 acre (60 ha) parcel in the Municipality of Morris-Turnberry.
- The subject lands are designated Agriculture and Natural Environment in the Morris-Turnberry Official Plan and zoned AG1 – (General Agriculture and NE2 – (Natural Environment – Limited Protection) in the Morris-Turnberry Zoning By-law.
- The *Provincial Policy Statement (PPS) 2020*, states “Lot creation in prime agricultural areas is discouraged and may only be permitted for: a) agricultural uses, provided that the lots are of a size appropriate for the type of agricultural use(s) common in the area and are sufficiently large to maintain flexibility for future changes in the type or size of agricultural operations;” As such, this application is consistent with the PPS 2020.
- The Huron County Official Plan and Morris-Turnberry Official Plan (OP) contain policies to guide consents within the Agricultural Areas. The Morris-Turnberry OP supports the creation of new lots in the agricultural areas provided the intention of the new lots is for agricultural purposes. There are several criteria to be met for the division of a 60 ha or larger farm into two farm parcels:
 - a minimum lot size of approximately 38 ha and 20 ha respectively for the proposed lots;
 - a minimum lot size of 38 ha for any intensive livestock operation;
 - there has been no separation of a parcel less than 38 ha from the property since the date of adoption of this Plan

The proposed severance meets these Official Plan policies and conforms to both the Huron County Official Plan and Morris-Turnberry Official Plan.

Comments Received:

Two comments of objection were received from neighbours. These comments are attached to the report and should be read in full, but are summarized as follows:

One comment was received from a neighbour owning abutting lands towards the east and lands towards the south. This neighbour is concerned about the potential impacts of the proposed severed lot on their possible future expansion of their farm buildings, which may need to be extended towards the east. They are also concerned that the severed parcel has minimal agricultural value partially due to the presence of natural features.

Multiple scenarios were run for Minimum Distance Separation compliance. The existing farm operations will allow for a new house to be built on the severed lot. Should the neighbours wish to expand their operations in the future there is a small amount of increase that would be permitted. Otherwise a Minor Variance may be sought.

The other comment was received from a neighbour owning lands towards the south of the subject property. This neighbour is concerned that the severed lot has minimal agricultural value. The comment also notes concern with possible new septic system installation on the severed lot.

Based on the data the County has for Natural Heritage locations, the remaining land is approximately 31 ac of potential farmland. The septic system will be reviewed under the Building Code at the time of construction.

Recommended Conditions**Expiry Period**

1. Conditions imposed must be met within two years of the date of notice of decision, as required by Section 53(41) of the Planning Act, RSO 1990, as amended. If conditions are not fulfilled as prescribed within two years, the application shall be deemed to be refused. Provided the conditions are fulfilled within two years, the application is valid for three years from the date of notice of decision.

Municipal Requirements

2. All municipal requirements, financial or otherwise, be met to the satisfaction of the Municipality (for example: servicing connections, cash-in-lieu of park dedication, property maintenance, compliance with zoning by-law provisions for structures).
3. 911 addressing for the subject lands be dealt with to the satisfaction of the Municipality and County.
4. That an entrance permit for a new entrance for the severed lands be obtained to the satisfaction of the Municipality.

Storm Water and Drainage

5. Section 65 of the Drainage Act with respect to the Armstrong Municipal Drain be addressed to the satisfaction of the Municipality.

Survey/Reference Plan

6. Provide to the satisfaction of the County and the Municipality:
 - a) a survey showing the lot lines of the severed parcel and the location of any buildings thereon, and
 - b) a reference plan based on the approved survey.OR
 - c) Alternatively with the agreement of the County, the Solicitor acting for the parties to provide to the County a registerable description of the severed parcel acceptable to the Land Registrar.

Zoning

7. Where a violation of any municipal zoning by-law is evident, the appropriate minor variance or rezoning be obtained to the satisfaction of the Municipality.

Sincerely,

“original signed by”

Meghan Tydd-Hrynyk, Planner

RE: NOTICE OF APPLICATION FOR CONSENT

MUNICIPALITY: MORRIS-TURNBERRY

LOT: CONCESSION 11, LOT 6 E, PT LOT 7

ADDRESS: 41996 GLENANNON RD

OWNER/APPLICANT: PAUL RYAN

Thank you for giving us the opportunity to relay our comments and concerns with regards to this potential severance.

It is important to state that we have no issue with the severance itself, but rather the future plans for this 50 acre parcel. We have 2 properties next to the proposed site – one to the west and one to the south.

These lands have been owned by 2 generations of our family and the current plan is that they will be taken over by the 3rd generation. It is the impact this severance will have on plans of this third generation that cause us concern.

We have done our due diligence and submitted our current Farm Data for MDS calculations (see attached – Baird Farms MDS, Supporting Documentation). If our son, currently studying Agricultural Science at the University of Guelph goes ahead with his plans to expand or rebuild the existing barns, the current MDS will need to be reevaluated. In order to go forward with his plans, the barn would need to be extended east toward our line fence and therefore the severance. This is the only practical direction of expansion due to the topography of our farm, existing infrastructure such as long established lanes ways, water and hydro as well as being the least disruptive or damaging to prime agricultural land. Our concern would be that any building on the proposed severance would impede development of our farm. It is important to note that the current layout of the complete 150 acres owned by Mr. Ryan would not conflict with any expansion plans. Attached are the MDS Calculations if we were to go ahead with the expansion prior to any building on the adjacent land, (Baird Farms MDS V2) If plans for the severed land also included the building of additional barn structures, the demolition and rebuild of our sons' future home on our farm would also be in jeopardy.

The MDS calculation made for Mr. Ryan's existing barn well underestimates the capacity of his barns and out buildings. Prior to Mr. Ryan purchasing this farm and renting out both the barn and lands, this barn had housed as many as 120 cows and the pig barn, 20 sows and their offspring. If the severance were approved and Mr. Ryan (or new owner) was permitted to build based on the current MDS for his property, it is our concern that anyone purchasing the 100 acre parcel, complete with the barn and out

buildings would be significantly restricted when these numbers are compared to the numbers given for the initial calculation. It is our understanding that minor variances can be applied for but there is a limit to the changes and in our opinion, if minor variances can be allowed it negates the importance of the calculation and validity of the original MDS numbers. How can it be calculated and then re-calculated to suit new situations?

The land involved in the proposed severance is of little use on its own. The front portion is prime agricultural land as designated by AG1 but there is significant hills and wetlands (NE2) at the back or north side of this parcel. As part of the 150 acre farm, this land has had significant agricultural use. The front can be cropped while the back has provided pasture land for countless generations of cattle and sheep. Unfortunately, in our opinion when separated and allowed to have buildings erected, this parcel becomes a residential lot on prime agricultural land instead of productive farmland. The severance and subsequent building would dramatically decrease the lands agricultural usefulness.

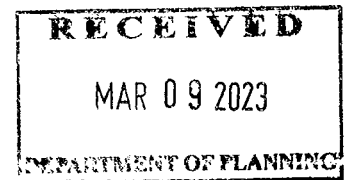
Agriculture in Huron County is important. Monthly, weekly, even Daily we continue to see our agricultural land being repurposed for development. We should value words of the County of Huron Official Plan, "Huron leads all counties and regions in Ontario in total value of production; and it also exceeds the production totals of several provinces." 50 Acres may not seem like a lot in the grand plan but multiple 50acres parcels granted with every request for severance and the significance mounts quickly. The Vision of Agriculture mandate as stated by the County Plan, is to "protect agriculture, the farmers' ability to farm, prime agricultural land and the QUALITY OF LIFE OF FUTURE GENERATIONS.". The goal is to "give agriculture priority over other uses in agricultural areas. Generally, non-agricultural development should be directed to urban areas". The County Plan clearly states that "all severances will recognize the protection of farmers' ability to farm."

It is also important to note that once a severance is granted, and sold, it is extremely unlikely that the parcel will ever return to the original farm and become part of a productive farm operation again.

Thank you for taking the time to review our comments and concerns.

Suzanne, Ross, Spencer and Graham Baird

████████ Glenannon Road, R.R.2
Wingham, ON N0G 2W0
████████



March 6, 2023

Huron County Planning and Development Department
57 Napier Street,
Goderich, ON N7A 1W2

ATTENTION: Lisa Finch, Land Division Administrator

Dear Ms. Finch:

I wish to thank you for the opportunity to comment on or raise objections to an application for consent made by Paul Ryan, owner/applicant of 41996 Glenannon Road, Morris-Turnberry, to transfer a parcel of land, for the creation of an agricultural lot, FILE NO: C13-2023.

When my husband and I purchased our piece of land in November 1972, the purpose of choosing that piece of land was deliberate. Neither of us had an agricultural background, but we understood the general significance and importance of that lifestyle, and wanted to learn more about it. Our backgrounds were more of a "lands and forests" nature. So the location where my late husband and I have chosen to live reflects both of our interests, and these comments tend to be more hypothetical and philosophical, rather than focused on sound agricultural science and operating principles. However, the longer we lived on our 50 acre "wetland", the more we grew to appreciate the finer details and demands involved in creating a successful farming livelihood, and the tremendous

responsibility which our farming neighbours have chosen. "If you've eaten today, thank a farmer."

I have what I believe to be a thought that makes me very concerned: what happens to the supply chain that feeds us, if our agricultural land is severed into a series of pockets of "50 acre agricultural lots"? Fifty acres may be sufficient to sustain some types of agriculture in some limited amounts, but, isn't it reasonable to assume that the amount of animals, grains, or a combination of both will be diminished if owners of larger parcels of land, for whatever reason, opt to sever 50 acre lots for agricultural purposes?

Assuming there is a need for water to service the severed lots, what is the effect on the existing aquifers or drainage ditches on the retained land and the property of neighbouring landowners? What if the new owner is allowed to or decides to build a residence or a building which requires domestic plumbing? Would a second septic field be required, other than on the retained property? Would these water related issues be monitored to make certain that neighbouring parcels of land and their owners are not adversely affected?

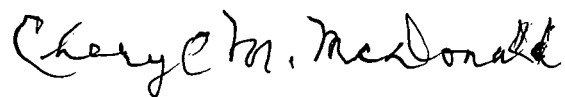
For the sakes of the environment and supply food chains, I hope we never witness land developers, realtors, and some agricultural landowners augmenting their incomes by depending on the benefits offered by "The Bank of Severed 50 Acre Agricultural Lots." The greed highlighted by the current debate over Ontario's Greenbelt is all too familiar. But perhaps this situation is already closer to us than I would like.

I appreciate the opportunity to express my comments and thoughts, if not outright objections, to Mr. Ryan's application

for consent to transfer some of his land. However, I do have what I consider, some serious concerns about a requested plan to sever 50 acres, which may have possibly negative consequences, now and in the future.

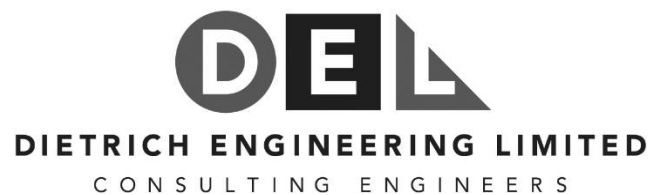
I wish to be notified of the decision and, if possible, the rationale and comments used to make the decision, when Mr. Ryan's case has been settled. Thank you for your consideration.

Sincerely,

A handwritten signature in black ink that reads "Cheryl M. McDonald". The script is cursive and fluid, with the first name "Cheryl" being more prominent than the last name "McDonald".

Cheryl M. McDonald

BiVal Municipal Drain 2023
Municipality of Morris-Turnberry
(Morris Ward)



Reference No. 2113

March 3, 2023

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Specification for Construction of Municipal Drainage Works

DIVISION A – General Conditions

DIVISION C – Specification for Tile Drains

DIVISION H – Special Provisions



DIETRICH ENGINEERING LIMITED
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Kitchener, Ontario

March 3, 2023

BiVal Municipal Drain 2023
Municipality of Morris-Turnberry
(Morris Ward)

To the Mayor and Council
of the Municipality of Morris-Turnberry

Members of Council:

1.0 Introduction

We are pleased to present our report on the “BiVal Municipal Drain 2023”, serving the following Lots and Concessions in the Municipality of Morris-Turnberry, Morris Ward, County of Huron:

Parts of Lots 24 & 25, Concession 9, and
Parts of Lots 24 & 25, Concession 10.

The attached Plan, Profiles, and Detail Drawings No.'s 1 to 3 Reference No. 2113, Specifications and the Instructions to Tenderers form part of this report. They show and describe in detail the location and extent of the work to be done and the lands which are affected.

2.0 Authorization

Authority to prepare this report was obtained by a resolution of the Municipality of Morris-Turnberry Council at its January 12, 2021, meeting to appoint Dietrich Engineering Limited to prepare an Engineer's Report.

In accordance with your instructions pursuant to a petition received by Council under Section 4 of the Drainage Act, R.S.O. 1990, we have made an examination and survey of the affected area and submit herewith our Report which includes Plan, Profiles and Specifications for this work.

The area requiring drainage is Parts of Lots 24 & 25, Concession 10. The petition is valid in compliance with Section 4(1)(a) of the Drainage Act, R.S.O. 1990.

3.0 History

The existing drainage basin is presently served by a private tile drainage system.

The outlet for this drain is the Murray-Lamb Municipal Drain.

4.0 On-Site Meeting

In accordance with Section 9(1) of the Drainage Act, R.S.O. 1990, an on-site meeting was held on May 25, 2021. The place of meeting was on Walton Road adjacent to Lot 25, Concession 10. Persons in attendance were:

Chris J. Dietrich, E.I.T.	Dietrich Engineering Limited
Kirk Livingston	Drainage Superintendent, Municipality of Morris-Turnberry
Mike Alcock	Director of Public Works, Municipality of Morris-Turnberry
Cameron Harper	Manger of Public Works, County of Huron
Landowners:	
Valerie Shortreed	
Matt Shortreed	

5.0 Information Meeting

An information meeting was held on February 14, 2023 at the Municipality of Morris-Turnberry Municipal Office. Persons in attendance were:

William J. Dietrich, P.Eng.	Dietrich Engineering Limited
Trevor Hallam	CAO/Clerk, Municipality of Morris-Turnberry
Landowners:	
Valerie Shortreed	
Matt Shortreed	

The information provided proposed constructing a new tile drainage system in Lots 24 & 25, Concession 10, in the Municipality of Morris-Turnberry, Morris Ward. This meeting provided a review of the design of the proposed drainage system, the estimated costs of the project and proposed assessments.

6.0 Findings

We have made an examination of the drainage area and have found the following:

1. The existing tile drainage system is in a poor state of repair and is neither of sufficient capacity nor depth to drain the surrounding and upstream lands within the watershed at today's standards of drainage.

7.0 Recommendations

It is our recommendation that:

1. A new tile drainage system be constructed in Lots 24 & 25, Concession 10 in the Municipality of Morris-Turnberry, Morris Ward, consisting of the Main Drain, Branch 'A', and Branch 'B'.
2. This new drainage system shall be known as the "BiVal Municipal Drain 2023".
3. The drainage coefficient design standard used for this drain is 38mm of rainfall per 24 hours.
4. The Main Drain consists of the installation of 618 metres of 300mm diameter to 450mm diameter tile from the northerly side of Walton Road adjacent to Lot 24, Concession 9, downstream to an outlet in the Murray-Lamb Municipal Drain in Lot 25, Concession 10.

5. Branch 'A' consists of the installation of 259 metres of 300mm diameter to 350mm diameter tile from the northerly side of Walton Road downstream to an outlet in the Main Drain in Lot 25, Concession 10.
6. Branch 'B' consists of the installation of 239 metres of 200mm diameter tile from the northerly side of Walton Road downstream to an outlet in Branch 'A' in Lot 25, Concession 10.

8.0 Summary of Proposed Works

The proposed work consists of:

1. The installation of approximately 1,080 metres of 200mm to 450mm diameter concrete field tile and H.D.P.E. pipes;
2. The installation of three (3) 375mm diameter H.D.P.E. surface culverts under Walton Road.
3. The installation of eight (8) concrete catch basins and one (1) concrete junction box.

9.0 Working Area and Access

Each landowner on whose property the drainage work is to be constructed shall designate access to and from the working area.

9.1 Closed Work

The working area shall be an average width of twenty-five (25) metres for construction purposes, and an average width of ten (10) metres for maintenance purposes along the alignment of the proposed tile drain.

10.0 Watershed and Soils Characteristics

The watershed was established through analysis of tile drainage maps, previous engineer's reports, field investigations, surveys, and data analysis of the Southwestern Ontario Orthophotographic Project (SWOOP).

The Drainage Area comprises of approximately 43 hectares. Land use within the watershed is primarily agricultural.

The Ontario Ministry of Agriculture, Food and Rural Affairs' Agricultural Information Atlas describes the soil types within the watershed and along the route of the drain as loam.

11.0 Allowances

In accordance with Sections 29 and 30 of the Drainage Act, R.S.O. 1990, we have calculated Allowances payable to Landowners using the following methodology.

11.1 Allowances for Right-of-Way (Section 29)

The agricultural land values used for calculating allowances for Right-of-Way was \$45,000/ha.

11.1.1 Closed Drain

The allowances for Right-of-Way under Section 29 of the Drainage Act, R.S.O. 1990 for closed drains were calculated based on 25% of the land value for a ten metre Right-of-Way.

11.2 Allowances for Damages to Lands and Crops (Section 30)

Allowances for Damages to Lands and Crops under Section 30 of the Drainage Act, R.S.O. 1990 were primarily calculated to compensate landowners for crop losses, bush losses and land damages due to the construction of the drain, including access to the working corridor.

We determined the allowances payable to Landowners entitled thereto as shown in Schedule A.

Total Allowances, under Sections 29 and 30 of the Drainage Act, R.S.O. 1990;

BiVal Municipal Drain 2023: **\$23,120**

12.0 Estimated Construction Costs

We have made an estimate of the cost of the proposed work based on labour, equipment and materials. A detailed description of the costs involved can be found in Schedule B of this report.

The total estimated construction costs for this project are as follows:

A) Total Estimated Construction Costs – Main Drain	\$ 106,070
B) Total Estimated Construction Costs – Branch ‘A’	\$ 35,975
C) Total Estimated Construction Costs – Branch ‘B’	\$ 27,055
Total Estimated Construction Costs	<u>\$ 169,100</u>

13.0 Summary of Estimated Project Costs

The total estimated project costs are as follows:

Allowances under Sections 29 and 30 of the Drainage Act, R.S.O. 1990 (Refer to Schedule A)	\$ 23,120
Total Estimated Construction Costs (Refer to Schedule B)	\$ 169,100
Meetings, survey, design, preparation of preliminary cost estimates, preparation of final drainage report, consideration of report and attendance at the Court of Revision (if necessary)	\$ 29,800
Preparation of contract documents, contract administration, supervision and inspection of construction	\$ 18,200
Contingencies, Interest and net H.S.T.	\$ 6,480
TOTAL ESTIMATED PROJECT COSTS – BiVal Municipal Drain 2023	<u>\$ 246,700</u>

The estimated cost of the work in the Municipality of Morris-Turnberry is \$246,700.

The above costs are estimates only. The final costs of construction, engineering and administration cannot be determined until construction is completed.

The above cost estimate does not include costs associated with defending the drainage report should appeals be filed with the Court of Revision Drainage Tribunal and/or Drainage Referee.

14.0 Assessment

We assess the cost of this work against the lands and roads liable for assessment for benefit and outlet liability as shown in the annexed Schedule C - Assessment for Construction. We have determined that there is no injuring liability assessment involved.

14.1 Special Assessments (Section 26)

Whether or not the Municipality of Morris-Turnberry elects to do the work on their property, Walton Road; Main Drain, Sta. 0+598 to Sta. 0+618, Branch 'A', Sta. 0+239 to Sta. 0+259, and Branch 'B', Sta. 0+183 to Sta. 0+203, they shall be assessed the actual increased costs to the drainage works due to the construction and operation of the road as Special Assessments in addition to any benefit and outlet assessments. The Special Assessments shall be made up of the actual construction costs plus an allowance for administration costs.

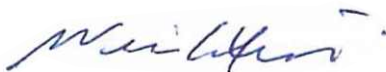
Whether or not the Province of Ontario elects to do the work on their property, Main Drain; Sta. 0+215 to Sta. 0+260 they shall be assessed the actual increased costs to the drainage works due to the construction and operation of the roadway as a Special Assessment in addition to any benefit and outlet assessments. The Special Assessment shall be made up of the actual construction costs plus an allowance for administration costs.

15.0 Maintenance

After completion, this drain shall be maintained by the Municipality of Morris-Turnberry at the expense of all the lands and roads assessed in the attached Schedule D - Assessment for Maintenance and in the same relative proportions until such time as the assessment is changed under the Drainage Act, except for those portions of the drain constructed within road right-of-ways. These portions of the drain shall be maintained at the expense of the road authority having jurisdiction over said road.

Respectfully submitted,

DIETRICH ENGINEERING LIMITED



W. J. Dietrich, P.Eng.

WJD:sm



Schedule A - Allowances

Lot or Part	Con.	Landowner	Roll No.	Right-of-Way (Section 29)	Damages to Lands and Crops (Section 30)	Total Allowances
<u>Main Drain</u>						
<u>Morris Ward</u>						
24	9	S. Huether	9-052		\$300	\$300
24 & 25	10	M. & J. Shortreed	10-017	\$6,220	\$6,530	\$12,750
Total Allowance, Main Drain				\$6,220	\$6,830	\$13,050
<u>Branch 'A'</u>						
<u>Morris Ward</u>						
25	9	R. & N. Stevenson	9-053		\$300	\$300
24 & 25	10	M. & J. Shortreed	10-017	\$2,690	\$2,890	\$5,580
Total Allowance, Branch 'A'				\$2,690	\$3,190	\$5,880
<u>Branch 'B'</u>						
<u>Morris Ward</u>						
25	9	R. & N. Stevenson	9-053		\$300	\$300
24 & 25	10	M. & J. Shortreed	10-017	\$2,060	\$1,830	\$3,890
Total Allowance, Branch 'B'				\$2,060	\$2,130	\$4,190
Total Allowances						
BiVal Municipal Drain 2023				\$10,970	\$12,150	\$23,120

Schedule B - Estimated Construction Costs

The estimated construction costs for the outlined proposed work below is as follows:

Description	Estimated Quantity	\$/Unit	Total
B) Main Drain			
1 Supply 450mm diameter concrete field tile	287 m	\$35.00	\$10,045.00
Installation (Sta. 0+006 to Sta. 0+215 & Sta. 0+260 to Sta. 0+338)	287 m	\$35.00	\$10,045.00
2 Supply 350mm diameter concrete field tile	162 m	\$25.00	\$4,050.00
Installation (Sta. 0+338 to Sta. 0+500)	162 m	\$30.00	\$4,860.00
3 Supply 300mm diameter concrete field tile	98 m	\$22.00	\$2,156.00
Installation (Sta. 0+500 to Sta. 0+598)	98 m	\$30.00	\$2,940.00
4 Supply 450mm diameter HDPE outlet pipe complete with rodent grate	6 m	\$90.00	\$540.00
Installation of 450mm diameter HDPE outlet pipe complete with quarry stone rip-rap protection and geotextile filter material including the construction of a plunge pool (35m ²)	I.s.		\$6,000.00
5 Supply and install 900mm x 1200mm concrete junction box at Sta. 0+338	1 ea.	\$3,000.00	\$3,000.00
6 Tile connections	I.s.		\$2,564.00

7 Provisional Items

A Provisional Item is an item that may or may not be required as a part of the Contract. The decision as to whether a Provisional Item will form part of the Contract will be at the discretion of the engineer at time of construction. Payment for Provisional Items will only be made for work authorized in writing (text or email) by the Engineer. Payment for work performed under a Provisional Item shall be based on the Unit Price bid in the Scope of Work below.

Additional costs associated with installation of tile drain on 19mm diameter crushed clear stone bedding. This includes the supply and placement of all stone, labour and equipment required for installation in accordance with Typical Pipe Installation on Stone Bedding Detail.

Description	Estimated Quantity	\$/Unit	Total
300mm diameter to 450mm diameter concrete field tile	150 m	\$40.00	\$6,000.00

Total Estimated Construction Costs

Provisional Items **\$6,000.00**

Description	Estimated Quantity	\$ /Unit	Total
Sub-Total			\$52,200.00
8 Work to be done on the Province of Ontario, Right-of-Way (Sta. 0+215 to Sta. 0+260)			
a) Supply 450mm diameter HDPE pipe (bell & spigot) Installation of 45 metres of 450mm diameter HDPE pipe complete with granular base and backfill (open cut method)	45 m l.s.	\$90.00	\$4,050.00 \$15,000.00
b) Supply 30 metres of 450mm diameter HDPE pipe Installation of 450mm diameter HDPE surface culvert (to be installed in the same trench as the 450mm diameter subsurface pipe)	30 m l.s.	\$90.00	\$2,700.00 \$4,000.00
c) Supply and install 2 standard 900mm X 1200mm concrete ditch inlet catch basins at Sta. 0+215 and Sta. 0+260 (inline type)	2 ea.	\$3,500.00	\$7,000.00
Sub-Total			\$ 32,750.00
9 Work to be done on the Municipality of Morris-Turnberry Road Allowance, Walton Road (Sta. 0+598 to Sta. 0+618)			
a) Supply 300mm diameter HDPE pipe (bell & spigot) Installation of 20 metres of 300mm diameter HDPE pipe complete with granular base and backfill (open cut method)	20 m l.s.	\$50.00	\$1,000.00 \$9,000.00
b) Supply 16 metres of 375mm diameter HDPE pipe Installation of 375mm diameter HDPE surface culvert (to be installed in the same trench as the 300mm diameter subsurface pipe)	16 m l.s.	\$70.00	\$1,120.00 \$3,000.00
c) Supply and install 2 standard 900mm X 1200mm concrete ditch inlet catch basins at Sta. 0+598 and Sta. 0+618 (inline type)	2 ea.	\$3,500.00	\$7,000.00
Sub-Total			\$ 21,120.00
Total Estimated Construction Costs Main Drain			\$106,070.00

Description		Estimated Quantity	\$/Unit	Total
B) Branch 'A'				
1	Supply 350mm diameter concrete field tile	150 m	\$25.00	\$3,750.00
	Installation (Sta. 0+000 to Sta. 0+150)	150 m	\$30.00	\$4,500.00
2	Supply 300mm diameter concrete field tile	89 m	\$22.00	\$1,958.00
	Installation (Sta. 0+150 to Sta. 0+239)	89 m	\$30.00	\$2,670.00
3	Tile connections	I.s.		\$1,977.00
Sub-Total				\$ 14,855.00
4	Work to be done on the Municipality of Morris-Turnberry Road Allowance, Walton Road (Sta. 0+239 to Sta. 0+259)			
a)	Supply 300mm diameter HDPE pipe (bell & spigot)	20 m	\$50.00	\$1,000.00
	Installation of 20 metres of 300mm diameter HDPE pipe complete with granular base and backfill (open cut method)	I.s.		\$9,000.00
b)	Supply 16 metres of 375mm diameter HDPE pipe	16 m	\$70.00	\$1,120.00
	Installation of 375mm diameter HDPE surface culvert (to be installed in the same trench as the 300mm diameter subsurface pipe)	I.s.		\$3,000.00
c)	Supply and install 2 standard 900mm X 1200mm concrete ditch inlet catch basins at Sta. 0+239 and Sta. 0+259 (inline type)	2 ea.	\$3,500.00	\$7,000.00
Sub-Total				\$21,120.00
Total Estimated Construction Costs				
Branch 'A'				\$ 35,975.00
C) Branch 'B'				
1	Supply 200mm diameter concrete field tile	183 m	\$20.00	\$3,660.00
	Installation (Sta. 0+000 to Sta. 0+183)	183 m	\$25.00	\$4,575.00
Sub-Total				\$ 8,235.00
2	Work to be done on the Municipality of Morris-Turnberry Road Allowance, Walton Road (Sta. 0+183 to Sta. 0+203)			
a)	Supply 200mm diameter HDPE pipe (bell & spigot)	20 m	\$35.00	\$700.00
	Installation of 20 metres of 200mm diameter HDPE pipe complete with granular base and backfill (open cut method)	I.s.		\$9,000.00

Description	Estimated Quantity	\$/Unit	Total
b) Supply 16 metres of 375mm diameter HDPE pipe	16 m	\$70.00	\$1,120.00
Installation of 375mm diameter HDPE surface culvert (to be installed in the same trench as the 200mm diameter subsurface pipe)	l.s.		\$3,000.00
c) Supply and install standard 600mm X 600mm concrete ditch inlet catch basin at Sta. 0+183 (inline type)	1 ea.	\$2,500.00	\$2,500.00
d) Supply and install standard 600mm X 600mm concrete catch basin at Sta. 0+203 (inline type)	1 ea.	\$2,500.00	\$2,500.00
Sub-Total			\$18,820.00
Total Estimated Construction Costs Branch 'B'		\$	27,055.00
TOTAL ESTIMATED CONSTRUCTION COSTS BIVAL MUNICIPAL DRAIN 2023			\$169,100.00
Summary of Construction Costs			
A) Total Estimated Construction Costs - Main Drain			\$106,070.00
B) Total Estimated Construction Costs - Branch 'A'			\$35,975.00
C) Total Estimated Construction Costs - Branch 'B'			<u>\$27,055.00</u>
TOTAL ESTIMATED CONSTRUCTION COSTS BIVAL MUNICIPAL DRAIN 2023			\$169,100.00

Schedule C - Assessment For Construction

Main Drain									
Lot or Part	Con. Landowner	Roll No.	Approx. Hectares Affected	Benefit (Sec. 22)	Outlet Liability (Sec. 23)	Special Assessment (Sec. 26)	Total Assessment	Less Gov't Grant	Net Assessment
Main Drain									
<u>Morris Ward</u>									
24	9 S. Huether	9-052	2.7	\$1,500	\$2,787		\$4,287	\$1,429	\$2,558
25	9 R. & N. Stevenson	9-053	14.4		\$9,944		\$9,944	\$3,315	\$6,629
24 & 25	10 M. & J. Shortreed	10-017	22.3	\$47,300	\$10,687		\$57,987	\$19,329	\$25,908
* Pt. 24 & 25	10 Province of Ontario	10-998	2.0	\$5,000	\$2,111	\$39,425	\$46,536		\$46,536
Total Assessment on Lands									
McCall Line	Municipality of Morris-Turnberry	0.4		\$53,800	\$25,529	\$39,425	\$118,754	\$24,073	\$81,631
Walton Road	Municipality of Morris-Turnberry	1.2		\$5,000	\$697	\$26,415	\$32,112		\$2,834
Total Assessment on Roads									
				\$5,000	\$3,531	\$26,415	\$34,946		\$34,946
Total Assessment on Lands and Roads									
BiVal Municipal Drain 2023 - Main Drain									
				\$58,800	\$29,060	\$65,840	\$153,700	\$24,073	\$116,577

NOTES:

1. * Denotes lands not eligible for ADIP grants.
2. The NET ASSESSMENT is the total estimated assessment less a one-third (1/3) Provincial grant, and allowances, if applicable.
3. The NET ASSESSMENT is provided for information purposes only.

Schedule C - Assessment For Construction

Branch 'A'									
Lot or Part	Con. Landowner	Roll No.	Approx. Hectares Affected	Benefit (Sec. 22)	Outlet Liability (Sec. 23)	Special Assessment (Sec. 26)	Total Assessment	Less Gov't Grant	Net Assessment
Branch 'A'									
<u>Morris Ward</u>									
25	9 R. & N. Stevenson	9-053	10.9	\$3,000	\$6,075		\$9,075	\$3,025	\$5,750
24 & 25	10 M. & J. Shortreed	10-017	6.1	\$13,500	\$1,688		\$15,188	\$5,063	\$4,545
Total Assessment on Lands				\$16,500	\$7,763		\$24,263	\$8,088	\$10,295
McCall Line Municipality of Morris-Turnberry				0.4	\$675		\$675		\$675
Walton Road Municipality of Morris-Turnberry				0.7	\$1,147	\$26,415	\$29,062		\$29,062
Total Assessment on Roads					\$1,822	\$26,415	\$29,737		\$29,737
Total Assessment on Lands and Roads									
BiVal Municipal Drain 2023 - Branch 'A'				\$18,000	\$9,585	\$26,415	\$54,000	\$8,088	\$40,032

NOTES:

1. All the above lands are eligible for ADIP grants.
2. The NET ASSESSMENT is the total estimated assessment less a one-third (1/3) Provincial grant, and allowances, if applicable.
3. The NET ASSESSMENT is provided for information purposes only.

Schedule C - Assessment For Construction

Branch 'B'									
Lot or Part	Con. Landowner	Roll No.	Approx. Hectares Affected	Benefit (Sec. 22)	Outlet Liability (Sec. 23)	Special Assessment (Sec. 26)	Total Assessment	Less Gov't Grant	Net Assessment
Branch 'B'									
<u>Morris Ward</u>									
25	9 R. & N. Stevenson	9-053	2.0	\$1,000	\$3,300		\$4,300	\$1,433	\$2,567
24 & 25	10 M. & J. Shortreed	10-017	0.8	\$6,500	\$264		\$6,764	\$2,255	\$619
Total Assessment on Lands									
				\$7,500	\$3,564		\$11,064	\$3,688	\$3,186
McCall Line Municipality of Morris-Turnberry									
				0.4	\$1,980		\$1,980		\$1,980
Walton Road Municipality of Morris-Turnberry									
				0.3	\$1,000	\$23,570	\$25,956		\$25,956
Total Assessment on Roads									
				\$1,000	\$3,366	\$23,570	\$27,936		\$27,936
Total Assessment on Lands and Roads									
BiVal Municipal Drain 2023 - Branch 'B'									
				\$8,500	\$6,930	\$23,570	\$39,000	\$3,688	\$31,122

NOTES:

1. All the above lands are eligible for ADIP grants.
2. The NET ASSESSMENT is the total estimated assessment less a one-third (1/3) Provincial grant, and allowances, if applicable.
3. The NET ASSESSMENT is provided for information purposes only.



Schedule C - Total Assessment For Construction

TOTAL ASSESSMENT									
Lot or Part	Con.	Landowner	Roll No.	Main Drain	Branch 'A'	Branch 'B'	Total Assessment	Less Gov't 1/3	Net Assessment
<u>Morris Ward</u>									
24	9	S. Huether	9-052	\$4,287			\$4,287	\$1,429	\$2,558
25	9	R. & N. Stevenson	9-053	\$9,944	\$9,075	\$4,300	\$23,319	\$7,773	\$14,946
24 & 25	10	M. & J. Shortreed	10-017	\$57,987	\$15,188	\$6,764	\$79,939	\$26,646	\$31,073
* Pt. 24 & 25	10	Province of Ontario	10-998	\$46,536			\$46,536		\$46,536
Total Assessment on Lands				\$118,754	\$24,263	\$11,064	\$154,081	\$35,848	\$95,113
McCall Line		Municipality of Morris-Turnberry		\$2,834	\$675	\$1,980	\$5,489		\$5,489
Walton Road		Municipality of Morris-Turnberry		\$32,112	\$29,062	\$25,956	\$87,130		\$87,130
Total Assessment on Roads				\$34,946	\$29,737	\$27,936	\$92,619		\$92,619
Total Assessment on Lands and Roads									
BiVal Municipal Drain 2023				\$153,700	\$54,000	\$39,000	\$246,700	\$35,848	\$187,732

NOTES:

1. * Denotes lands not eligible for ADIP grants.
2. The NET ASSESSMENT is the total estimated assessment less a one-third (1/3) Provincial grant, and allowances, if applicable.
3. The NET ASSESSMENT is provided for information purposes only.

Schedule D - Assessment For Maintenance

Lot or Part	Con.	Landowner	Roll No.	Approx. Hectares Affected	Portion of Maintenance Cost
<u>Main Drain</u>					
<u>Morris Ward</u>					
24	9	S. Huether	9-052	2.7	5.5%
25	9	R. & N. Stevenson	9-053	14.4	29.7%
24 & 25	10	M. & J. Shortreed	10-017	22.3	44.4%
* Pt. 24 & 2	10	Province of Ontario	10-998	2.0	10.4%
Total Assessment on Lands					90.0%
McCall Line		Municipality of Morris-Turnberry		0.4	2.5%
Walton Road		Municipality of Morris-Turnberry		1.2	7.5%
Total Assessment on Roads					10.0%
Total Assessment on Lands and Roads					
BiVal Municipal Drain 2023 - Main Drain					100.0%

NOTES:

- * Denotes lands not eligible for ADIP grants.

Schedule D - Assessment For Maintenance

Lot or Part	Con.	Landowner	Roll No.	Approx. Hectares Affected	Portion of Maintenance Cost
<u>Branch 'A'</u>					
<u>Morris Ward</u>					
25	9	R. & N. Stevenson	9-053	10.9	53.9%
24 & 25	10	M. & J. Shortreed	10-017	6.1	29.9%
Total Assessment on Lands					83.8%
McCall Line		Municipality of Morris-Turnberry		0.4	6.0%
Walton Road		Municipality of Morris-Turnberry		0.7	10.2%
Total Assessment on Roads					16.2%
Total Assessment on Lands and Roads					
BiVal Municipal Drain 2023 - Branch 'A'					100.0%

NOTES:

1. All the above lands are eligible for ADIP grants.

Schedule D - Assessment For Maintenance

Lot or Part	Con.	Landowner	Roll No.	Approx. Hectares Affected	Portion of Maintenance Cost
<u>Branch 'B'</u>					
<u>Morris Ward</u>					
25	9	R. & N. Stevenson	9-053	2.0	41.3%
24 & 25	10	M. & J. Shortreed	10-017	0.8	16.5%
Total Assessment on Lands					57.8%
McCall Line		Municipality of Morris-Turnberry		0.4	24.8%
Walton Road		Municipality of Morris-Turnberry		0.3	17.4%
Total Assessment on Roads					42.2%
Total Assessment on Lands and Roads					
BiVal Municipal Drain 2023 - Branch 'B'					100.0%

NOTES:

1. All the above lands are eligible for ADIP grants.

**SPECIFICATIONS FOR THE CONSTRUCTION OF
MUNICIPAL DRAINAGE WORKS**

DIVISION A – General Conditions

DIVISION C – Specification for Tile Drains

DIVISION H – Special Provisions

DIVISION A – GENERAL CONDITIONS**TABLE OF CONTENTS**

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DIVISION A – GENERAL CONDITIONS

A.1. Scope

The work to be done under this contract consists of supplying all labour, equipment and materials to construct the drainage work as outlined in the Scope of Work, Drawings, General Conditions and other Specifications.

A.2. Tenders

Tenders are to be submitted on a lump sum basis for the complete works or a portion thereof, as instructed by the Municipality. The Scope of Work must be completed and submitted with the Form of Tender and Agreement. A certified cheque is required as Tender Security, payable to the Treasurer of the Municipality.

All certified cheques, except that of the bidder to whom the work is awarded will be returned within ten (10) days after the tender closing. The certified cheque of the bidder to whom the work is awarded will be retained as Contract Security and returned when the Municipality receives a Completion Certificate for the work.

A certified cheque is not required if the Contractor provides an alternate form of Contract Security such as a Performance Bond for 100% of the amount of the Tender or other satisfactory security, if required/permitted by the Municipality. A Performance Bond may also be required to insure maintenance of the work for a period of one (1) year after the date of the Completion Certificate.

A.3. Examinations of Site, Drawings, and Specifications

The Tenderer must examine the premises and site to compare them with the Drawings and Specifications in order to satisfy himself of the existing conditions and extent of the work to be done before submission of his Tender. No allowance shall subsequently be made on behalf of the Contractor by reason of any error on his part. Any estimates of quantities shown or indicated on the Drawings, or elsewhere are provided for the convenience of the Tenderer. Any use made of these quantities by the Tenderer in calculating his Tender shall be done at his own risk. The Tenderer for his own protection should check these quantities for accuracy.

The standard specifications (Divisions B through G) shall be considered complementary and where a project is controlled under one of the Divisions, the remaining Divisions will apply for miscellaneous works.

In case of any inconsistency or conflict between the Drawings and Specifications, the following order of precedence shall apply:

- Direction of the Engineer
- Special Provisions (Division H)
- Scope of Work
- Contract Drawings
- Standard Specifications (Divisions B through G)
- General Conditions (Division A)

A.4. Payment

Progress payments equal to 87±% of the value of work completed and materials incorporated in the work will be made to the Contractor monthly. An additional ten per cent (10±%) will be paid 45 days after the final acceptance by the Engineer, and three per cent (3±%) of the Contract price may be reserved by the Municipality as a maintenance holdback for a one (1) year period from the date of the Completion Certificate. A greater percentage of the Contract price may be reserved by the Municipality for the same one (1) year period if in the opinion of the Engineer, particular conditions of the Contract requires such greater holdback.

After the completion of the work, any part of this reserve may be used to correct defects developed within that time from faulty workmanship and materials, provided that notice shall first be given to the Contractor and that he may promptly make good such defects.

A.5. Contractor's Liability Insurance

Prior to commencement of any work, the Contractor shall file with the Municipality evidence of compliance with all Municipality insurance requirements (Liability Insurance, WSIB, etc.) for no less than the minimum amounts as stated in the Purchasing Procedures of the Municipality. All insurance coverage shall remain in force for the entire contract period including the warranty period which expires one year after the date of the Completion Certificate.

The following are to be named as co-insured:

- Successful Contractor
- Sub-Contractor Municipality
- Dietrich Engineering Ltd.

A.6. Losses Due to Acts of Nature, Etc.

All damage, loss, expense and delay incurred or experienced by the Contractor in the performance of the work, by reason of unanticipated difficulties, bad weather, strikes, acts of nature, or other mischances shall be borne by the Contractor and shall not be the subject of a claim for additional compensation.

A.7. Commencement and Completion of Work

The work must commence as specified in the Form of Tender and Agreement. If conditions are unsuitable due to poor weather, the Contractor may be required, at the discretion of the Engineer to postpone or halt work until conditions become acceptable and shall not be subject of a claim for additional compensation.

The Contractor shall give the Engineer a minimum of 48 hours notice before commencement of work. The Contractor shall then arrange a meeting to be held on the site with Contractor, Engineer, and affected Landowners to review in detail the construction scheduling and other details of the work.

If the Contractor leaves the job site for a period of time after initiation of work, he shall give the Engineer and the Municipality a minimum of 24 hours notice prior to returning to the project. If any work is commenced without notice to the Engineer, the Contractor shall be fully responsible for all such work undertaken prior to such notification.

The work must proceed in such a manner as to ensure its completion at the earliest possible date and within the time limit set out in the Form of Tender and Agreement.

A.8. Working Area and Access

Where any part of the drain is on a road allowance, the road allowance shall be the working area. For all other areas, the working area available to the Contractor to construct the drain is specified in the Special Provisions (Division H).

Should the specified widths become inadequate due to unusual conditions, the Contractor shall notify the Engineer immediately. Where the Contractor exceeds the specified working widths without authorization, he shall be held responsible for the costs of all additional damages.

If access off an adjacent road allowance is not possible, each Landowner on whose property the drainage works is to be constructed, shall designate access to and from the working area. The Contractor shall not enter any other lands without permission of the Landowner and he shall compensate the Landowner for damage caused by such entry.

A.9. Sub-Contractors

The Contractor shall not sublet the whole or part of this Contract without the approval of the Engineer.

A.10. Permits, Notices, Laws and Rules

The Contractor shall obtain and pay for all necessary permits or licenses required for the execution of the work (but this shall not include MTO encroachment permits, County Road permits permanent easement or rights of servitude). The Contractor shall give all necessary notices and pay for all fees required by law and comply with all laws, ordinances, rules and regulations relating to the work and to the preservation of the public's health and safety.

A.11. Railways, Highways, and Utilities

A minimum of 72 hours' notice to the Railway or Highways, exclusive of Saturdays, Sundays, and Statutory Holidays, is required by the Contractor prior to any work activities on or affecting the applicable property. In the case of affected Utilities, a minimum of 48 hours' notice to the utility owner is required.

A.12. Errors and Unusual Conditions

The Contractor shall notify the Engineer immediately of any error or unusual conditions which may be found. Any attempt by the Contractor to correct the error on his own shall be done at his own risk. Any additional cost incurred by the Contractor to remedy the wrong decision on his part shall be borne by the Contractor. The Engineer shall make the alterations necessary to correct errors or to adjust for unusual conditions during which time it will be the Contractor's responsibility to keep his men and equipment gainfully employed elsewhere on the project.

The Contract amount shall be adjusted in accordance with a fair evaluation of the work added or deleted.

A.13. Alterations and Additions

The Engineer shall have the power to make alterations in the work shown or described in the Drawings and Specifications and the Contractor shall proceed to make such changes without causing delay. In every such case, the price agreed to be paid for the work under the Contract shall be increased or decreased as the case may require according to a fair and reasonable evaluation of the work added or deleted. The valuation shall be determined as a result of negotiations between the Contractor and the Engineer, but in all cases the Engineer shall maintain the final responsibility for the decision. Such alterations and variations shall in no way render the Contract void. No claims for a variation or alteration in the increased or decreased price shall be valid unless done in pursuance of an order from the Engineer and notice of such claims made in writing before

commencement of such work. In no such case shall the Contractor commence work which he considers to be extra before receiving the Engineer's approval.

A.14. Supervision

The Contractor shall give the work his constant supervision and shall keep a competent foreman in charge at the site.

A.15. Field Meetings

At the discretion of the Engineer, a field meeting with the Contractor or his representative, the Engineer and with those others that the Engineer deems to be affected, shall be held at the location and time specified by the Engineer.

A.16. Periodic and Final Inspections

Periodic inspections by the Engineer will be made during the performance of the work. If ordered by the Engineer, the Contractor shall expose the drain as needed to facilitate inspection by the Engineer.

Final inspection by the Engineer will be made within twenty (20) days after he has received notice from the Contractor that the work is complete.

A.17. Acceptance By the Municipality

Before any work shall be accepted by the Municipality, the Contractor shall correct all deficiencies identified by the Engineer and the Contractor shall leave the site neat and presentable.

A.18. Warranty

The Contractor shall repair and make good any damages or faults in the drain that may appear within one (1) year after its completion (as dated on the Completion Certificate) as the result of the imperfect or defective work done or materials furnished if certified by the Engineer as being due to one or both of these causes; but nothing herein contained shall be construed as in any way restricting or limiting the liability of the Contractor under the laws of the Country, Province or Locality in which the work is being done. Neither the Completion Certificate nor any payment there under, nor any provision in the Contract Documents shall relieve the Contractor from his responsibility.

A.19. Termination of Contract By The Municipality

If the Contractor should be adjudged bankrupt, or if he should make a general assignment for the benefit of his creditors, or if a receiver should be appointed on account of his insolvency, or if he should refuse or fail to supply enough properly skilled workmen or proper materials after having received seven (7) days notice in writing from the Engineer to supply additional workmen or materials to commence or complete the works, or if he should fail to make prompt payment to Sub-Contractors, or for material, or labour, or persistently disregards laws, ordinances, or the instruction of the Engineer, or otherwise be guilty of a substantial violation of the provisions of the Contract, then the Municipality, upon the certificate of the Engineer that sufficient cause exists to justify such action, may without prejudice to any other right or remedy, by giving the Contractor written notice, terminate the employment of the Contractor and take possession of the premises, and of all materials, tools and appliances thereon, and may finish the work by whatever method the Engineer may deem expedient but without delay or expense. In such a case, the Contractor shall not be entitled to receive any further payment until the work is finished. If the unpaid balance of the Contract price will exceed the expense of finishing the work including compensation to the Engineer for his additional services and including the other damages of every name and nature, such excess shall be paid by the

Contractor. If such expense will exceed such unpaid balance, the Contractor shall pay the difference to the Municipality. The expense incurred by the Municipality, as herein provided, shall be certified by the Engineer.

If the Contract is terminated by the Municipality due to the Contractor's failure to properly commence the works, the Contractor shall forfeit the certified cheque bid deposit and furthermore shall pay to the Municipality an amount to cover the increased costs, if any, associated with a new Tender for the Contract being terminated.

If any unpaid balance and the certified cheque do not match the monies owed by the Contractor upon termination of the Contract, the Municipality may also charge such expense against any money which may thereafter be due to the Contractor from the Municipality.

A.20. Tests

The cost for the testing of materials supplied to the job by the Contractor shall be borne by the Contractor. The Engineer reserves the right to subject any lengths of any tile or pipe to a competent testing laboratory to ensure the adequacy of the tile or pipe. If any tile supplied by the Contractor is determined to be inadequate to meet the applicable A.S.T.M. standards, the Contractor shall bear full responsibility to remove and/or replace all such inadequate tile in the Contract with tile capable of meeting the A.S.T.M. Standards.

A.21. Pollution

The Contractor shall keep their equipment in good repair. The Contractor shall refuel or repair equipment away from open water.

If polluted material from construction materials or equipment is caused to flow into the drain, the Contractor shall immediately notify the Ministry of the Environment, and proceed with the Ministry's protocols in place to address the situation.

A.22. Species and Risk

If a Contractor encounters a known Species at Risk as designated by the MNR or DFO, the Contractor shall notify the Engineer immediately and follow the Ministry's guidelines to deal with the species.

A.23. Road Crossings

This specification applies to all road crossings (Municipality, County, Regional, or Highway) where no specific detail is provided on the drawings or in the standard specifications. This specification in no way limits the Road Authority's regulations governing the construction of drains on their Road Allowance.

A.23.1 Road Occupancy Permit

Where applicable, the Contractor must submit an application for a road occupancy permit to the Road Authority and allow a minimum of five (5) working days for its review and issuance.

A.23.2 Road Closure Request and Construction Notification

The Contractor shall submit written notification of construction and request for road closure (if applicable) to the Road Authority and the Engineer for review and approval a minimum of five (5) working days prior to proceeding with any work on the road allowance. The Contractor shall be responsible for notifying all applicable emergency services, schools, etc. of the road closure or construction taking place.

A.23.3 Traffic Control

The Contractor shall supply flagmen, and warning signs and ensure that detour routes are adequately signed in accordance with no less than the minimum standards as set out in the Ontario Traffic Manual's Book 7.

A.23.4 Weather

No construction shall take place during inclement weather or periods of poor visibility.

A.23.5 Equipment

No construction material and/or equipment is to be left within three (3) metres of the travelled portion of the road overnight or during periods of inclement weather.

If not stated on the drawings, the road crossing shall be constructed by open cut method. Backfill from the top of the cover material over the subsurface pipe or culvert to the under side of the road base shall be Granular "B". The backfill shall be placed in lifts not exceeding 300mm in thickness and each lift shall be thoroughly compacted to 98% Standard Proctor. Granular "B" road base for County Roads and Highways shall be placed to a 450mm thickness and Granular "A" shall be placed to a thickness of 200mm. Granular road base materials shall be thoroughly compacted to 100% Standard Proctor.

Where the road surface is paved, the Contractor shall be responsible for placing HL-8 Hot Mix Asphalt patch at a thickness of 50mm or of the same thickness as the existing pavement structure. The asphalt patch shall be flush with the existing roadway on each side and without overlap.

Excavated material from the trench beyond 1.25 metres from the travelled portion or beyond the outside edge of the gravel shoulder may be used as backfill in the trench in the case of covered drains. The material shall be compacted in lifts not exceeding 300mm.

A.24. Laneways

All pipes crossing laneways shall be backfilled with material that is clean, free of foreign material or frozen particles and readily tamped or compacted in place unless otherwise specified. Laneway culverts on open ditch projects shall be backfilled with material that is not easily erodible. All backfill material shall be thoroughly compacted as directed by the Engineer.

Culverts shall be bedded with a minimum of 300mm of granular material. Granular material shall be placed simultaneously on each side of the culvert in lifts not exceeding 150mm in thickness and compacted to 95% Standard Proctor Density. Culverts shall be installed a minimum of 10% of the culvert diameter below design grade with a minimum of 450mm of cover over the pipe unless otherwise noted on the Drawings.

The backfill over culverts and subsurface pipes at all existing laneways that have granular surfaces on open ditch and closed drainage projects shall be surfaced with a minimum of 300mm of Granular "B" material and 150mm of Granular "A" material. All backfill shall be thoroughly compacted as directed by the Engineer. All granular material shall be placed to the full width of the travelled portion.

Any settling of backfilled material shall be repaired by or at the expense of the Contractor during the warranty period of the project and as soon as required.

A.25. Fences

No earth is to be placed against fences and all fences removed by the Contractor shall be replaced by him in as good a condition as found. Where practical the Contractor shall take down existing fences in good condition at the nearest anchor post and roll it back rather than cutting the fence and attempting to patch it. The replacement of the fences shall be done to the satisfaction of the Engineer. Any fences found in such poor condition where the fence is not salvageable, shall be noted and verified with the Engineer prior to commencement of work.

Fences damaged beyond repair by the Contractor's negligence shall be replaced with new materials, similar to those materials of the existing fence, at the Contractor's expense. The replacement of the fences shall be done to the satisfaction of the Landowner and the Engineer.

Any fences paralleling an open ditch that are not line fences that hinder the proper working of the excavating machinery, shall be removed and rebuilt by the Landowner at his own expense.

The Contractor shall not leave fences open when he is not at work in the immediate vicinity.

A.26. Livestock

The Contractor shall provide each landowner with 48 hours notice prior to removing any fences along fields which could possibly contain livestock. Thereafter, the Landowner shall be responsible to keep all livestock clear of the construction areas until further notified. The Contractor shall be held responsible for loss or injury to livestock or damage caused by livestock where the Contractor failed to notify the Landowner, or through negligence or carelessness on the part of the Contractor.

A.27. Standing Crops

The Contractor shall be responsible for damages to standing crops which are ready to be harvested or salvaged along the course of the drain and access routes if the Contractor has failed to notify the Landowners 48 hours prior to commencement of the work on that portion of the drain.

A.28. Surplus Gravel

If as a result of any work, gravel or crushed stone is required and not all the gravel or crushed stone is used, the Contractor shall haul away such surplus material.

A.29. Iron Bars

The Contractor is responsible for the cost of an Ontario Land Surveyor to replace any iron bars that are altered or destroyed during the course of the construction.

A.30. Rip-Rap

Rip-rap shall be quarry stone rip-rap material and shall be the sizes specified in the Special Provisions. Broken concrete shall not be used as rip-rap unless otherwise specified.

A.31. Clearing, Grubbing and Brushing

This specification applies to all brushing where no specific detail is provided on the drawings or in the Special Provisions.

The Contractor shall clear, brush and stump trees from within the working area that interfere with the installation of the drainage system.

All trees, limbs and brush less than 150mm in diameter shall be mulched. Trees greater than 150mm in diameter shall be cut and neatly stacked in piles designated by the Landowners.

A.32. Restoration of Lawns

This specification applies to all lawn restoration where no specific detail is provided on the drawings or in the Special Provisions and no allowance for damages has been provided under Section 30 of the Drainage Act RSO 1990 to the affected property.

The Contractor shall supply “high quality grass seed” and the seed shall be broadcast by means of an approved mechanical spreader. All areas on which seed is to be placed shall be loose at the time of broadcast to a depth of 25mm. Seed and fertilizer shall be spread in accordance with the supplier’s recommendations unless otherwise directed by the Engineer. Thereafter it will be the responsibility of the Landowner to maintain the area in a manner so as to promote growth

END OF DIVISION

DIVISION C – SPECIFICATIONS FOR TILE DRAINS

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DIVISION C – SPECIFICATIONS FOR TILE DRAINS

C.1. Pipe Materials

C.1.1 Concrete Tile

Concrete drain tile shall conform to the requirements of the most recent A.S.T.M. specification for Heavy-Duty Extra Quality drain tile. All tile with diameters less than 600mm shall have a pipe strength of 1500D. All tile with diameters 600mm or larger shall have a pipe strength of 2000D.

All tile furnished shall be subject to the approval of the Engineer. All rejected tile are to be immediately removed from the site.

C.1.2 High Density Polyethylene (HDPE) Pipe

All HDPE pipe shall be dual-wall corrugated drainage pipe with a smooth inner wall. HDPE pipe shall have a minimum stiffness of 320 kPa at 5% deflection.

Unless otherwise noted, all sealed HDPE pipe shall have a water tight gasketed bell and spigot joining system meeting the minimum requirements of CSA B182.8. Perforated HDPE pipe shall have a soil tight joining system, and shall be enveloped in non-woven geotextile filter sock.

C.2. Alignment

The Contractor shall contact the Engineer to establish the course of the drain. Where an existing drain is to be removed and replaced by the new drain, or where the new drain is to be installed parallel to an existing drain, the Contractor shall locate the existing drain (including repairing damaged tile caused by locating) at intervals along the course of the drain. The costs of locating shall be included in the tender price.

The drain shall run in as straight a line as possible throughout its length, except that at intersections of other watercourses or at sharp corners, it shall run on a curve of at least 15 metres radius. The new tile drain shall be constructed at an offset from and parallel with any ditch or defined watercourse in order that fresh backfill in the trench will not be eroded by the flow of surface water.

The Contractor shall exercise care not to disturb any existing tile drain or drains which parallel the course of the new drain, particularly where the new and existing tile act together to provide the necessary capacity. Where any such existing drain is disturbed or damaged, the Contractor shall perform the necessary repair at his expense.

C.3. Profile

Benchmarks have been established along the course of the drain which are to govern the elevations of the drain. The location and elevations of the benchmarks are shown on the drawings. Tile is to be installed to the elevation and grade shown on the profiles. Accurate grade control must be maintained by the Contractor at all times.

When installing a drain towards a fixed point such as a bore pipe, the Contractor shall uncover the pipe and confirm the elevation a sufficient distance away from the pipe in order to allow for any necessary minor grade adjustments to be made.

C.4. Excavation

C.4.1 Wheel machine

Unless otherwise specified, all trenching shall be carried out with a wheel machine approved by the Engineer. The wheel machine shall shape the bottom of the trench to conform to the outside diameter of the pipe. The minimum trench width shall be equal to the outside diameter of the pipe plus 100mm on each side of the pipe, unless otherwise specified. The maximum trench width shall be equal to the outside diameter of the pipe plus 300mm on each side of the pipe, unless otherwise specified.

C.4.2 Scalping

Where the depths of cuts in isolated areas along the course of the drain as shown on the profile exceed the capability of the Contractor's wheel machine, he shall lower the surface grade in order that the wheel machine may trench to the correct depth. Topsoil is to be stripped over a sufficient width that no subsoil will be deposited on top of the topsoil. Subsoil will then be removed to the required depth and piled separately. Upon completion, the topsoil will then be replaced to an even depth over the disturbed area. The cost for this work shall be included in his tender price.

C.4.3 Excavator

Where the use of an excavator is used in-lieu of a wheel machine, the topsoil shall be stripped and replaced in accordance with Item C.4.2. All tile shall be installed on 19mm clear crushed stone bedding placed to a minimum depth of 150mm which has been shaped to conform to the bottom of the pipe. The Contractor shall include the costs of this work in his tender price.

C.5. Installation

C.5.1 Concrete Tile

The tile is to be laid with close joints and in regular grade and alignment in accordance with the drawings. The tiles are to be bevelled, if necessary to ensure close joints. The inside of the tile is to be kept clear when laid. The sides of the tile are to be supported by partial filling of the trench (blinding) prior to inspection by the Engineer. No tile shall be backfilled until inspected by the Engineer unless otherwise permitted by the Engineer. The tile shall be backfilled such that a sufficient mound of backfill is placed over the trench to ensure that no depression remains after settling occurs in the backfill.

Where a tile connects to a catch basin or similar structure, the Contractor shall include in his tender price for the supply and placement of compacted Granular 'A' bedding or 19mm clear crushed stone under areas backfilled from the underside of the pipe to undisturbed soil. Where a tile drain passes through a bore pit, the Contractor shall include in his tender price for the supply and placement of compacted Granular 'A' bedding or 19mm clear crushed stone from the underside of the pipe down to undisturbed soil with the limits of the bore pit.

The Contractor shall supply and wrap all concrete tile joints with Mirafi 160N geotextile filter material as part of this contract. The width of the filter material should be:

- 300mm wide for tile sizes 150mm diameter to 350mm diameter.
- 400mm wide for tile sizes 400mm diameter to 750mm diameter.
- 500mm wide for tile sizes larger than 750mm diameter.

The filter material shall completely cover the tile joint and shall have a minimum overlap of 300mm. The type of filter material shall be.

C.5.2 HDPE Pipe

HDPE pipe shall be installed using compacted Granular 'A' bedding or 19mm clear crushed stone bedding from 150mm below the pipe to 300mm above the pipe. All granular material shall be compacted using a suitable mechanical vibratory compactor. Granular bedding and backfill shall be placed in lifts not exceeding 300mm and compacted to at least 95% Standard Proctor Maximum Dry Density (SPMDD).

Where a pipe connects to a catch basin or similar structure, the Contractor shall include in his tender price for the supply and placement of compacted Granular 'A' bedding or 19mm clear crushed stone under areas backfilled from the underside of the pipe to undisturbed soil. Where a pipe passes through a bore pit, the Contractor shall include in his tender price for the supply and placement of compacted Granular 'A' bedding or 19mm clear crushed stone from the underside of the pipe down to undisturbed soil with the limits of the bore pit.

As determined by the Engineer, unsuitable backfill material must be hauled off-site by the Contractor and Granular "B" shall be used as replacement backfill material.

C.6. Trench Crossings

The Contractor shall not cross the backfilled trench with any construction equipment or vehicles, except by one designated crossing location on each property. The Contractor shall ensure that the bedding and backfill material at this designated crossing location is properly placed and compacted so as to adequately support the equipment and vehicles that may cross the trench. The Contractor may undertake any other approved work to ensure the integrity of the tile at the crossing location. The Contractor shall ensure that no equipment or vehicles travel along the length of the trench. The Contractor shall be responsible for any damage to the new tile caused by the construction of the drain.

C.7. Outlet Protection

A tile drain outlet into a ditch shall be either HDPE pipe or corrugated steel pipe and shall include a hinged grate for rodent protection. The maximum spacing between bars on the rodent grate shall be 40mm. All corrugated steel outlet pipes shall be bevelled at the end to generally conform to the slope of the ditch bank.

Quarry stone rock rip-rap protection and geotextile filter material (Mirafi 160N), shall be installed around the outlet pipe and extended downstream a minimum distance of three metres, unless otherwise specified. The protection shall extend to the top of the backfilled trench and below the pipe to 300 mm under the streambed. The protection shall also extend 600mm into undisturbed soil on either side of the backfilled trench. In some locations, rip-rap may be required on the bank opposite the outlet.

Where the outlet occurs at the upper end of an open ditch, the rip-rap protection will extend all around the end of the ditch and to a point 800mm downstream on either side. Where heavy overflow is likely to occur, sufficient additional rip-rap and filter material shall be placed as directed by the Engineer to prevent the water cutting around the protection.

C.8. Catch Basins and Junction Boxes

Unless otherwise noted, catch basins shall be in accordance with OPSD 705.010 and 705.030. The catch basin grate shall be a "Birdcage" type substantial steel grate, removable for cleaning and shall be inset into a recess provided around the top of the structure. The grate shall be fastened to the catch basin with bolts into the concrete. Spacing of bars on grates for use on 600mmX600mm structures shall be 65mm centre to centre. Spacing of bars on grates for use on structures larger than 600mmX600mm shall be 90mm.

All catch basins shall be backfilled with compacted Granular 'A' or 19mm clear crushed stone placed to a minimum width of 300mm on all sides. If settling occurs after construction, the Contractor shall supply and place sufficient granular material to maintain the backfill level flush with adjacent ground. The riser sections of the catch basin shall be wrapped with filter cloth.

Quarry stone rip-rap protection shall be placed around all catch basins and shall extend a minimum distance of one (1) metre away from the outer edge of each side of the catch basin, and shall be placed so that the finished surface of the rip-rap is flush with the existing ground.

If there are no existing drains to be connected to the catch basin at the top end of the drain, a plugged tile shall be placed in the upstream wall with the same elevations as the outlet tile.

Junction boxes shall have a minimum cover over the lid of 450mm.

The Contractor shall include in his tender price for the construction of a berm behind all ditch inlet structures. The berm shall be constructed of compacted clay keyed 300mm into undisturbed soil. The top of the spill way of the earth berm shall be the same elevation as the high wall of the ditch inlet catch basin. The earth berm shall be covered with 100mm depth of topsoil and seeded with an approved green seed mixture. The Contractor shall also include for regrading, shaping and seeding of road ditches for a maximum of 15 metres each way from all catch basins.

The Contractor shall clean all catch basin sumps after completion of the drain installation. Catch basin markers shall be placed beside each catch basin.

C.9. Tributary Drains

Any tributary tile encountered in the course of the drain is to be carefully taken up by the Contractor and placed clear of the excavated earth. If the tributary drains encountered are clean or reasonably clean, they shall be connected into the new drain in accordance with the typical tile drain connection detail. Tributary tile drain connections into the new drain shall be made using high density polyethylene agricultural drain tubing installed on and backfilled with 19mm clear crushed stone. All tile drain connections into the new drain shall be either a cored hole with an insert coupler or a manufactured tee.

Where the existing drains are full of sediment, the decision to connect the tributary drain to the new drain shall be left to the Engineer. The Contractor shall be paid for each tributary drain connection as outlined in the Form of Tender and Agreement.

The Contractor shall be responsible for all tributary tile connections for a period of one year from the date of the Completion Certificate. After construction, any missed tile connections required to be made into the new drain shall be paid at the same rate as defined in the Form of Tender and Agreement. The Contractor will have the option to make any subsequent tile connections or have the Municipality make the required connections and have the cost of which deducted from the holdback.

Where an open ditch is being replaced by a new tile drain, existing tile outlets entering the ditch from the side opposite the new drain shall be extended to the new drain.

Where the Contractor is required to connect an existing tile which is not encountered in the course of the drain, the cost of such work shall constitute an extra to the contract.

C.10. Clearing, Grubbing and Mulching

The Contractor shall clear, brush and stump trees from within the working area.

All trees or limbs 150mm or larger, that is necessary to remove, shall be cut, trimmed and neatly stacked in the working width for the use or disposal by the Landowner. Brush and limbs less than 150mm in diameter shall be mulched.

Clearing, grubbing and mulching shall be carried out as a separate operation from installing the drain, and shall not be completed simultaneously at the same location.

C.11. Roads and Laneway Sub-Surface Crossings

All roads and laneway crossings may be made with an open cut. The Contractor may use original ground as backfill to within 600mm of finished grade only if adequate compaction and if the use of the original ground backfill has been approved beforehand by the Engineer.

C.12. Filling In Existing Ditches

The Contractor shall backfill the ditch sufficiently for traversing by farm equipment. If sufficient material is available on-site to fill in the existing ditch, the topsoil shall be stripped and the subsoil shall be bulldozed into the ditch and the topsoil shall then be spread over the backfilled waterway. The Contractor shall ensure sufficient compaction of the backfill and if required, repair excess settlement up to the end of the warranty period.

C.13. Construction of Grassed Waterways

Where the Contractor is required to construct a grassed waterway, the existing waterway shall be filled in, regraded, shaped and a seed bed prepared prior to applying the grass seed. The grass seed shall be fresh, clean and new crop seed, meeting the requirements of the MTO.

- 55% Creeping Red Fescue
- 15% Perennial Rye Grass
- 27% Kentucky Bluegrass
- 3% White Clover

Grass seed shall be applied at the rate of 100 kg/ha.

C.14. Unstable Soil

The Contractor shall immediately contact the Engineer if unstable soil is encountered. The Engineer shall, after consultation with the Contractor, determine the action necessary and a price for additions or deletions shall be agreed upon prior to further drain installation.

C.15. Rocks

The Contractor shall immediately contact the Engineer if boulders of sufficient size and number are encountered such that the Contractor cannot continue trenching with a wheel machine. The Engineer shall determine the action necessary and a price for additions or deletions shall be agreed upon prior to further drain installation.

If only scattered large stone or boulders are removed on any project, the Contractor shall either excavate a hole to bury same adjacent to the drain, or he shall haul the stones or boulders to a location designated by the Landowner.

C.16. Broken or Damaged Tile

The Contractor shall remove and dispose of all broken (existing or new), damaged or excess tile off site.

C.17. Recommended Practice For Construction of Sub-Surface Drainage Systems

Drainage Guide for Ontario, Ministry of Agriculture, Food and Rural Affairs, Publication 29 and its amendments, dealing with the construction of Subsurface Drainage Systems, shall be the guide to all methods and materials to be used in the construction of tile drains except where superseded by other Specifications of the Contract.

END OF DIVISION

DIVISION H – SPECIAL PROVISIONS

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DIVISION H – SPECIAL PROVISIONS

BiVal Municipal Drain 2023

Municipality of Morris-Turnberry

Reference No.2113

Special provisions means special directions containing requirements peculiar to the work not adequately provided for by the standard or supplemental Specifications. Special provisions shall take precedence and govern any standard or supplemental Specifications.

H.1 General

The Contractor shall notify the Landowners, the Drainage Superintendent and the Engineer forty-eight (48) hours prior to construction and arrange a pre-construction meeting.

The Contractor shall verify the location of the new drainage system with the Engineer and Landowners prior to construction. The Contractor shall locate the existing tile drains Main Drain and Branch 'A' in several places before installing the new drain. The existing tile drains shall be destroyed as part of this contract.

The Contractor shall check and verify all dimensions and elevations and report any discrepancies to the Engineer prior to proceeding with the work.

The Contractor must maintain access to all driveways along the route of the drain as well as maintain access for all emergency vehicles at all times during construction. All driveways shall be restored by the Contractor to their original condition.

Any areas disturbed within the Municipality of Morris-Turnberry Right-of-Way during construction shall be top soiled and seeded with an approved grass seed mixture.

The roadside ditches shall be graded to the catch basins.

The Contractor shall be responsible for all trench settlement.

H.2 Utilities

All utilities shall be located and uncovered in the affected areas by the Contractor prior to construction.

The locations and elevations of all utilities shown on the drawings are approximate locations. Actual locations and elevations of all utilities must be verified by the Contractor prior to construction.

The Contractor shall arrange to have a representative of the utility owner on site during construction if it is a requirement by the utility owner.

H.3 Working Area And Access

Each Landowner on whose property the drainage work is to be constructed shall designate access to and from the working area.

H.3.1 Closed Work

The working area for construction purposes shall be a width of twenty-five (25) metres centred on the proposed tile drains.

H.4 Topsoil

Where the drain is to be installed by means of an approved wheel trencher, the Contractor shall strip the topsoil for a minimum width of 5 metres centred on the proposed drain. In deep cuts, the width of the topsoil to be stripped will be greater than 5 metres. Where the drain is to be installed by means of an approved hydraulic excavator, the Contractor shall strip the topsoil for a width equal to the trench width.

The Contractor shall stockpile the topsoil and later spread it over the backfilled trench. The Contractor shall use a trim dozer to fine-grade the topsoil once it has been placed on the trench.

H.5 Pipe, Installation, Bedding & Backfill

H.5.1 Concrete Field Tile

An approved wheel trencher shall be used to install the concrete field tile.

All concrete tile shall be Heavy-Duty Extra Quality Concrete Drain Tile 2000D.

All concrete field tile shall be backfilled using native material. The backfill shall not be compacted but a sufficient mound shall be left over the trench by the Contractor to allow for settlement flush with adjacent lands. The Contractor shall be responsible for all trench settlement. Excess excavated material from the installation of the 750mm diameter tile shall be hauled off site.

The Contractor shall supply and wrap all concrete tile joints with geotextile filter material as part of this contract. The width of the filter material shall be 300mm wide for tile sizes 200mm diameter to 350mm diameter and 400mm wide for tile sizes 400mm diameter to 750mm diameter.

The filter material shall completely cover the tile joint and shall have a minimum overlap of 300mm. The type of filter material shall be Mirafi 140NC for clay loam soil conditions and Mirafi 160N for sandy or silty soil conditions.

H.5.2 High Density Polyethylene Pipe (H.D.P.E.)

An approved hydraulic excavator shall be used for the installation of all H.D.P.E. pipe.

All H.D.P.E. pipe shall be CSA B182.8 320 KPa with split coupler joining systems. All perforated H.D.P.E. pipe shall be complete with non-woven filter sock (Terrafix 200R or equivalent).

All H.D.P.E. pipe, shall be installed using 19mm (3/4") crushed stone bedding from 150mm below the pipe to 150mm above the pipe. Suitable native material shall be used as backfill from 150mm above the pipe to the underside of the topsoil.

As determined by the Engineer, unsuitable backfill material must be hauled off-site by the Contractor and Granular "B" shall be used as replacement backfill material.

H.6 Outlet Structure Installation

The Contractor shall install the new outlet pipe such that the side slopes of the ditch match typical side slopes, and the Contractor shall place geotextile filter material and stone rip-rap for long-term bank stabilization. A

plunge pool lined with quarry stone riprap shall be constructed at the new tile drain outlet (Sta. 0+000, Main Drain).

H.7 Catch Basins & Manholes

All catch basins shall be precast concrete catch basins (Coldstream Concrete Ltd. or approved equal).

All existing catch basins and manholes that are to be removed shall be disposed of off-site by the Contractor.

All catch basins to have 300mm sumps.

The catch basin grate elevations shall be set to the satisfaction of the Engineer.

All catch basin grates shall be fastened to the new catch basins.

All catch basins shall have hot dipped galvanized bird cage grates.

Knockouts shall be provided in all catch basins.

All catch basins and manholes structures shall be installed on 150mm crushed stone bedding.

Structures on private property shall be backfilled using approved native material up to the underside of the topsoil layer.

All backfill material shall be placed and thoroughly compacted evenly around each structure in lifts not exceeding 300mm so as to minimize settlement around the structures.

The Contractor shall place quarry stone rip-rap material around all sides of the catch basins for a width of 1m and shall be placed on an approved geo-textile filter material.

Lifts (modulocs) shall be placed by the Contractor on all catch basins or manholes if necessary to achieve the desired elevation when field setting the structures.

All holes for manhole and catch basin pipe connections to be cored by the manufacturer.

The Contractor shall be responsible to repair or reapply grout for all grouted connections into any catch basin or manhole for a period of one year after the completion certificate has been issued.

All existing catch basins and manholes to be removed shall be disposed of off-site by the Contractor. Existing Drains/Tile Connections

H.8 Existing Drains/Tile Connections

The Contractor shall make all tributary tile drain connections in accordance with the Typical Tile Connection Detail included in the drawing set.

The Contractor shall be responsible for all tile connections for a period of one year after the issuance of the completion certificate. The tile connections required to be made within this warranty period shall be made at the same rate as defined on the Form of Tender and Agreement. After construction, the Contractor will be given the option to make any subsequent tile connections or have the Municipality make said connections and have the costs of which deducted from the holdback.

H.9 Rip-Rap

All stone rip-rap material shall be quarry stone 150 mm to 300 mm dia. and placed to a depth of 450 mm. All rip-rap material shall be placed on geo-textile filter material (Mirafi 160N).

H.10 Clearing and Grubbing

The Contractor shall clear, brush and mulch all trees from within the working area.

An approved mulching attachment for a hydraulic excavator or woodchipper shall be used. Clearing and grubbing, mulching shall be done prior to the construction of the drain.

All trees, limbs and brush less than 150mm in diameter shall be mulched/chipped. Trees greater than 150mm in diameter shall be cut into lengths of no greater than four (4) metres and neatly placed into piles designated by the Landowners. All stumps removed shall be placed in piles designated by the Landowner.

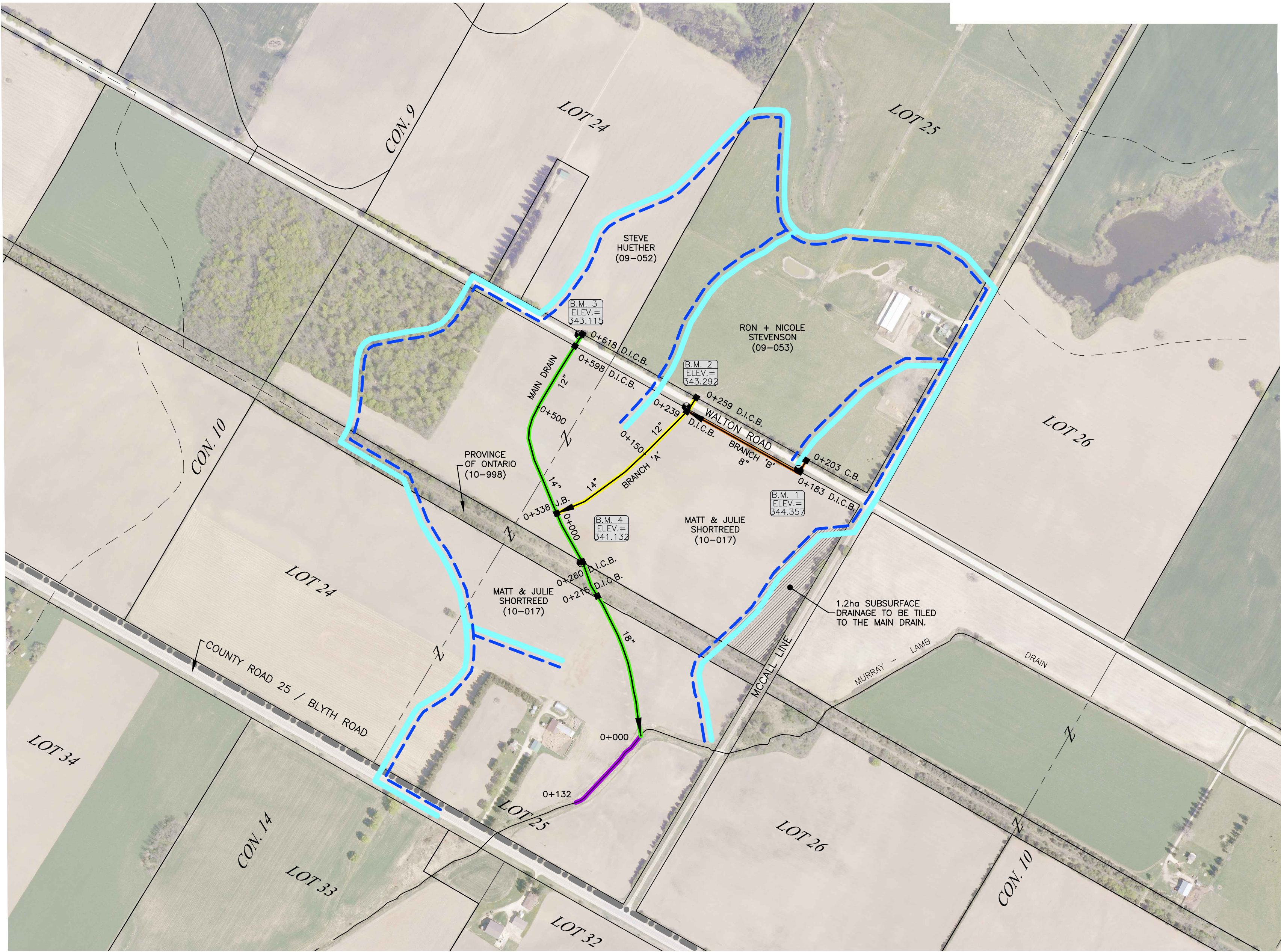
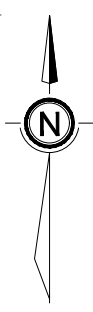
H.11 Sediment Erosion Control Measures

1. A silt fence/silt trap will be installed at the lower end of the tile drain in the Murray-Lamb Municipal Drain.

H.12 Walton Road - Road Crossings

The road crossings on the Municipality of Morris-Turnberry road allowance shall be made with an open cut. All work shall be in accordance with the Ontario Traffic Manuals Book 7. The 375mm diameter HDPE surface pipes shall be installed in the same trench as the HDPE subsurface pipes. The existing corrugated metal pipe surface culverts shall be removed as part of this Contract.

MUNICIPALITY OF MORRIS-TURNBERRY
COUNTY OF HURON



PLAN

PLAN SCALE



NOTES:

1. ALL SOLID HIGH DENSITY POLYETHYLENE PIPE SHALL BE BELL & SPIGOT CSA B182.8 UNLESS OTHERWISE NOTED.
2. ALL PERFORATED HIGH DENSITY POLYETHYLENE PIPE SHALL BE EXTERNAL SPLIT COUPLER JOINING SYSTEMS UNLESS OTHERWISE NOTED.

BENCHMARK No. 1 ELEV.=344.357
TOP OF 350mm DIA. SURFACE CULVERT 3 METRES WEST OF STA. 0+185 BRANCH 'B'

BENCHMARK No. 2 ELEV.=343.292
TOP OF 350mm DIA. SURFACE CULVERT 5 METRES WEST OF STA. 0+240 BRANCH 'A'

BENCHMARK No. 3 ELEV.=343.115
TOP OF 300mm DIA. SURFACE CULVERT 3.5 METRES WEST OF STA. 0+615 MAIN DRAIN

BENCHMARK No. 4 ELEV.=341.132
TOP OF EXISTING CONCRETE CATCH BASIN 2 METRES WEST OF STA. 0+260 MAIN DRAIN

BENCHMARK No. 5 ELEV.=337.785
INVERT OF EXISTING CMP OUTLET PIPE 1.2 METRES WEST OF STA. 0+009 MURRAY-LAMB DRAIN

LEGEND:

DRAIN NAME		
EXISTING MUNICIPAL DRAIN	—	
INTERIOR/EXTERIOR WATERSHED BOUNDARY	- - -	
PROPERTY BOUNDARY	- - -	
LOT OR CONCESSION BOUNDARY	- - -	
TOWNSHIP BOUNDARY	- - -	
EXISTING CATCH BASIN OR JUNCTION BOX	□	
EXISTING MANHOLE	○	
DRAIN NAME		
MUNICIPAL DRAIN (AREA OF WORK)	—	
WATERSHED BOUNDARY	- - -	
CONSTRUCTION ACCESS	- - -	
PROPOSED CATCH BASIN OR JUNCTION BOX	■	
PROPOSED MANHOLE	●	
BENCHMARK LOCATION	●	
BENCHMARK No.	B.M. 1	
BENCHMARK ELEVATION	ELEV.= 50.00	

3. REPORT SUBMISSION	2023-03-03	DEL
2. INFORMATION MEETING	2023-02-14	DEL
1. ON-SITE MEETING	2021-05-25	DEL
No. ISSUES AND REVISIONS	DATE	BY

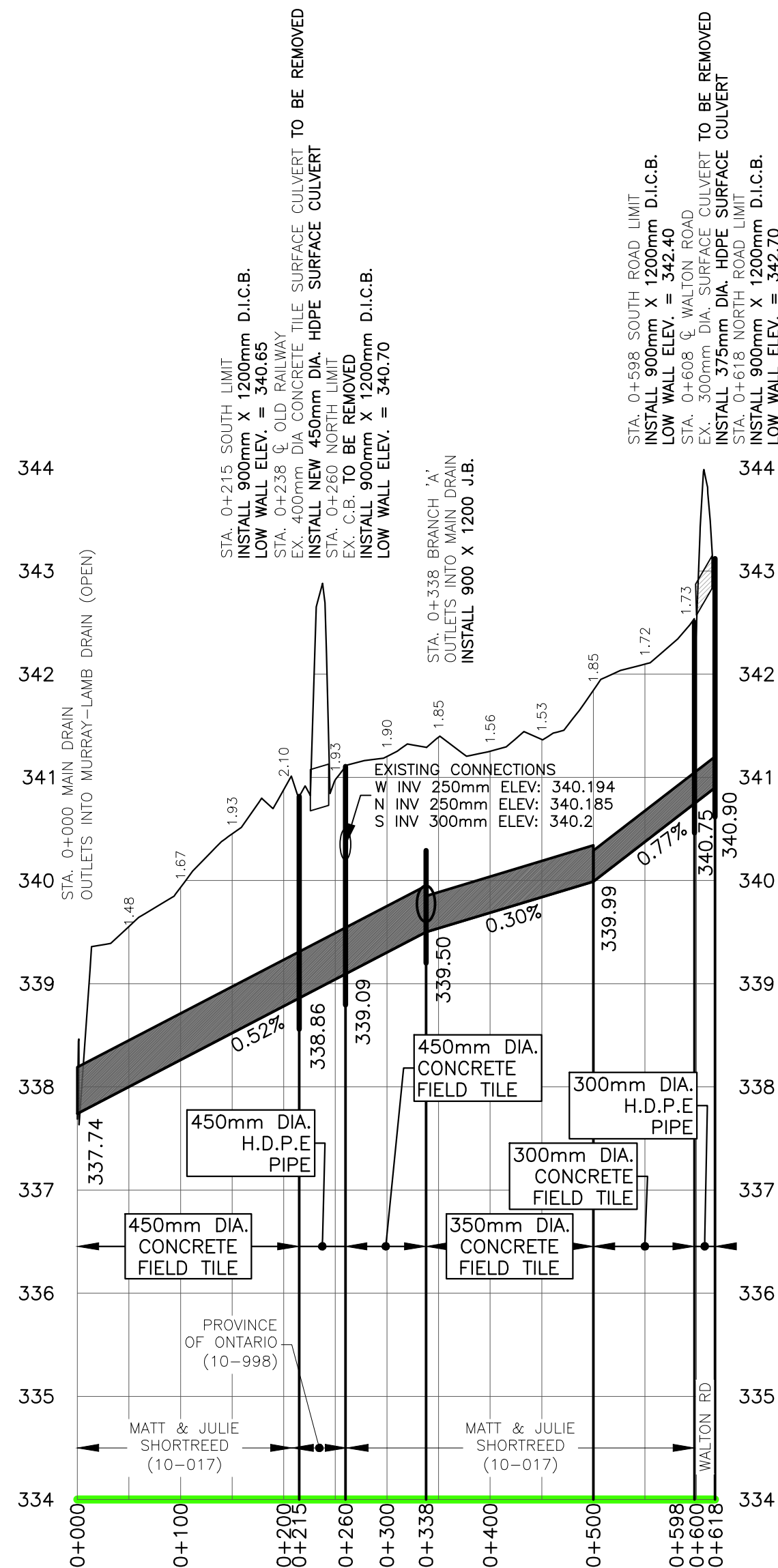


PROJECT: BIVAL MUNICIPAL DRAIN 2023

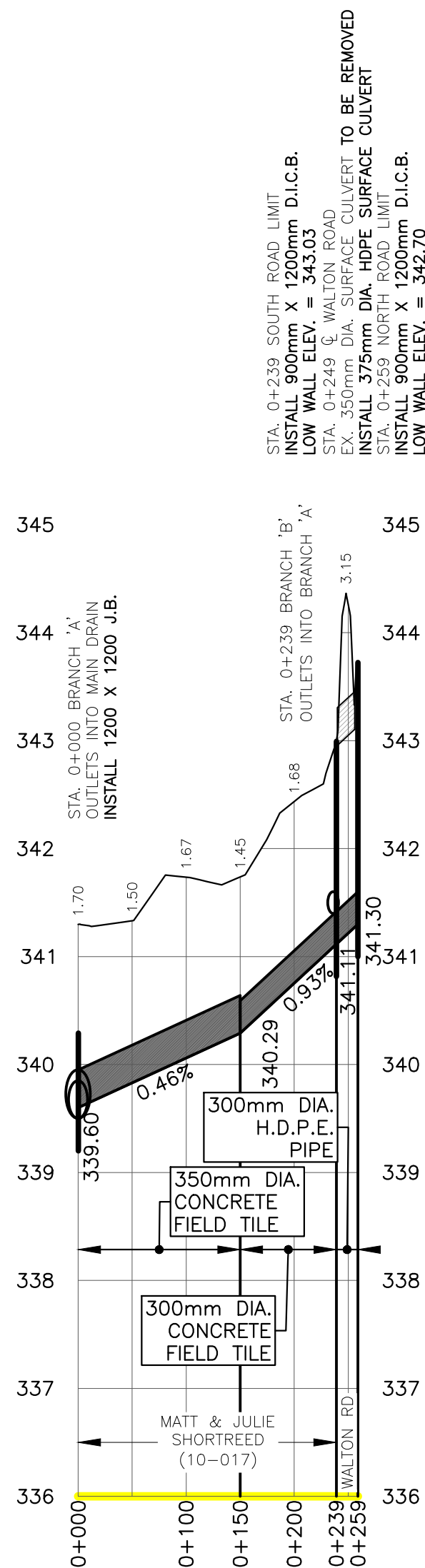
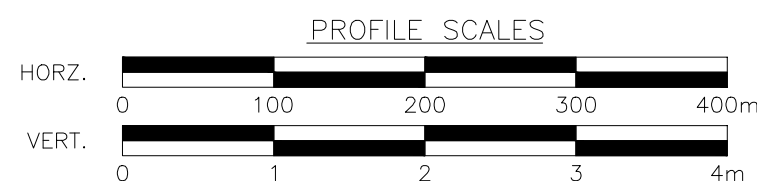
DRAWING: PLAN

DEL
DIETRICH ENGINEERING LIMITED
CONSULTING ENGINEERS
10 Alpine Court, Kitchener, ON, N2E 2M7

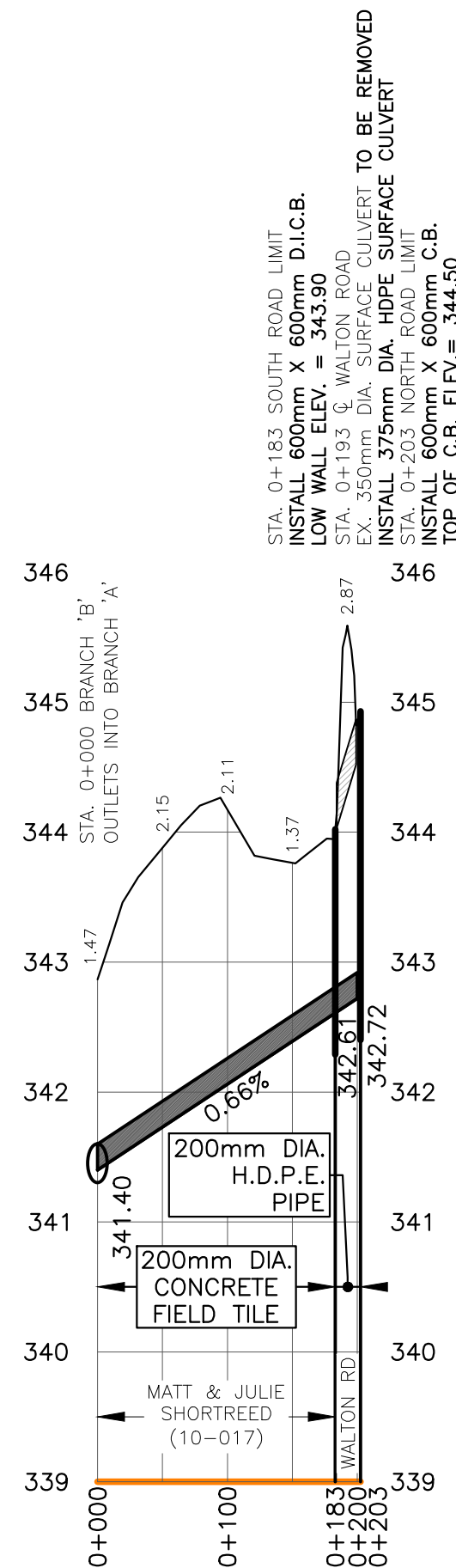
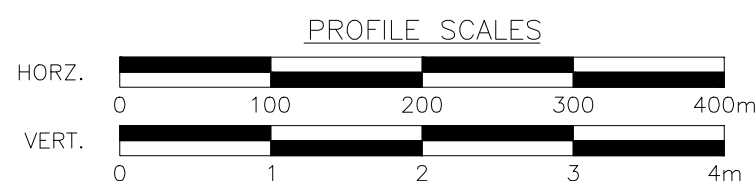
PROJ. MGR: W.J.D.	DESIGNED BY: W.J.D.	DRAWN BY: V.M.C.	CHECKED BY: W.J.D.
DRAWING SCALE: AS NOTED	DATE: March 3, 2023	PROJECT No. 2113	DRAWING No. 1 of 3



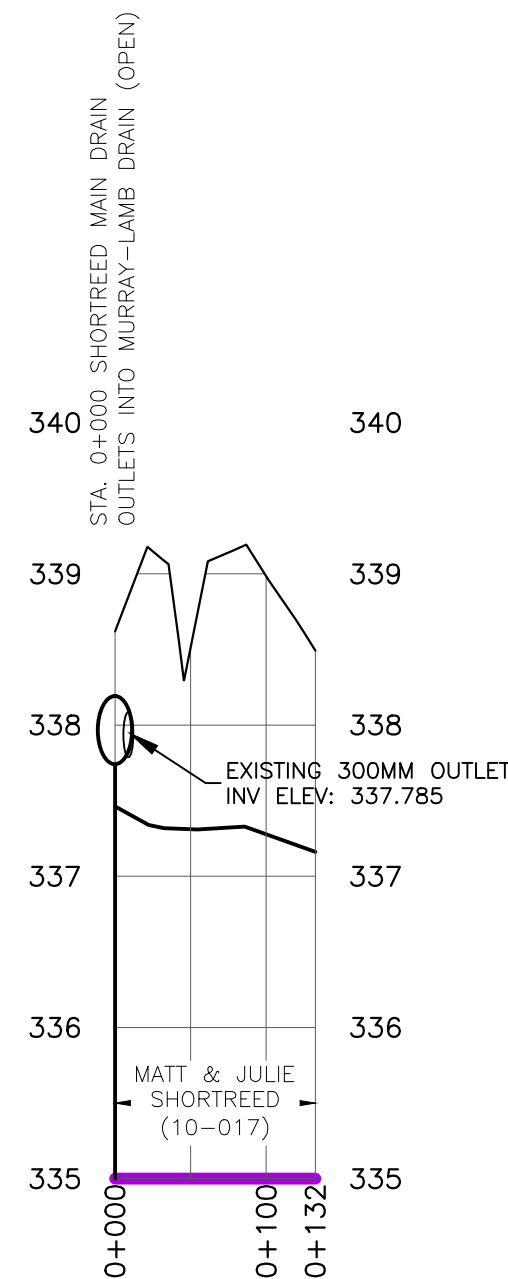
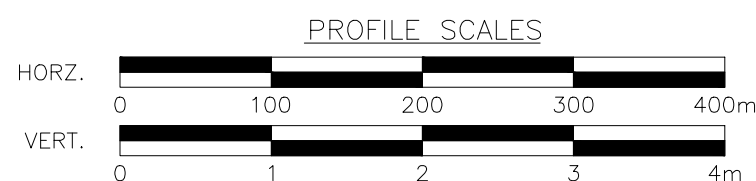
MAIN DRAIN PROFILE



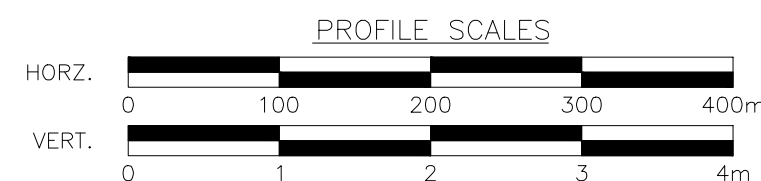
BRANCH 'A' PROFILE



BRANCH 'B' PROFILE



MURRAY-LAMB DRAIN PROFILE



SCHEDULE OF PIPE MATERIALS

MAIN DRAIN

No.	ITEM	SIZE (mm)	STATION	LENGTH (m)
1.	HIGH DENSITY POLYETHYLENE OUTLET PIPE	450	0+000 - 0+006	6
2.	CONCRETE FIELD TILE	450	0+006 - 0+215	209
3.	HIGH DENSITY POLYETHYLENE PIPE	450	0+215 - 0+260	45
4.	CONCRETE FIELD TILE	450	0+260 - 0+338	78
5.	CONCRETE FIELD TILE	350	0+338 - 0+500	162
6.	CONCRETE FIELD TILE	300	0+500 - 0+598	98
7.	HIGH DENSITY POLYETHYLENE PIPE	300	0+598 - 0+618	20

BRANCH 'A'

No.	ITEM	SIZE (mm)	STATION	LENGTH (m)
1.	CONCRETE FIELD TILE	350	0+000 - 0+150	150
2.	CONCRETE FIELD TILE	300	0+150 - 0+239	89
3.	HIGH DENSITY POLYETHYLENE PIPE	300	0+239 - 0+259	20

BRANCH 'B'

No.	ITEM	SIZE (mm)	STATION	LENGTH (m)
1.	CONCRETE FIELD TILE	200	0+000 - 0+183	183
2.	HIGH DENSITY POLYETHYLENE PIPE	200	0+183 - 0+203	20

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TOP OF 350mm DIA. SURFACE CULVERT 3 METRES WEST OF STA. 0+185 BRANCH 'B'

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TOP OF 350mm DIA. SURFACE CULVERT 5 METRES WEST OF STA. 0+240 BRANCH 'A'

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TOP OF 300mm DIA. SURFACE CULVERT 3.5 METRES WEST OF STA. 0+615 MAIN DRAIN

BENCHMARK No. 4 ELEV.=341.132
TOP OF EXISTING CONCRETE CATCH BASIN 2 METRES WEST OF STA. 0+260 MAIN DRAIN

BENCHMARK No. 5 ELEV.=337.785
INVERT OF EXISTING CMP OUTLET PIPE 1.2 METRES WEST OF STA. 0+009 MURRAY-LAMB DRAIN

LEGEND:		
— DRAIN NAME —>	EXISTING MUNICIPAL DRAIN	
---	INTERIOR/EXTERIOR WATERSHED BOUNDARY	
- - -	PROPERTY BOUNDARY	
- - -	LOT OR CONCESSION BOUNDARY	
- - -	TOWNSHIP BOUNDARY	
□	EXISTING CATCH BASIN OR JUNCTION BOX	
○	EXISTING MANHOLE	
— DRAIN NAME —>	MUNICIPAL DRAIN (AREA OF WORK)	
---	WATERSHED BOUNDARY	
---	CONSTRUCTION ACCESS	
□	PROPOSED CATCH BASIN OR JUNCTION BOX	
○	PROPOSED MANHOLE	
●	BENCHMARK No.	
●	B.M. 1 ELEV.= 50.00	
●	BENCHMARK ELEVATION	

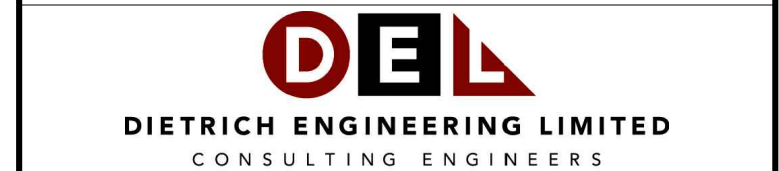
3. REPORT SUBMISSION	2023-03-03	DEL
2. INFORMATION MEETING	2023-02-14	DEL
1. ON-SITE MEETING	2021-05-25	DEL
No. ISSUES AND REVISIONS	DATE	BY



PROJECT: BIVAL MUNICIPAL DRAIN 2023

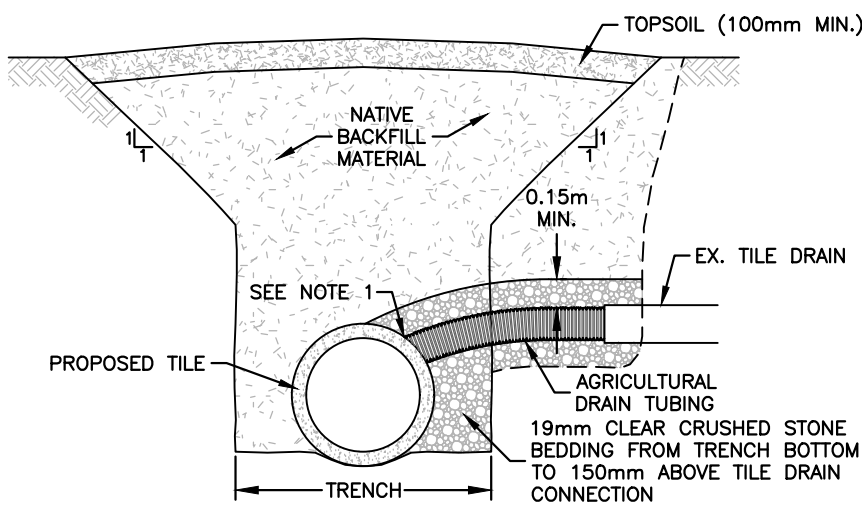
DRAWING:

PROFILES



10 Alpine Court, Kitchener, ON, N2E 2M7

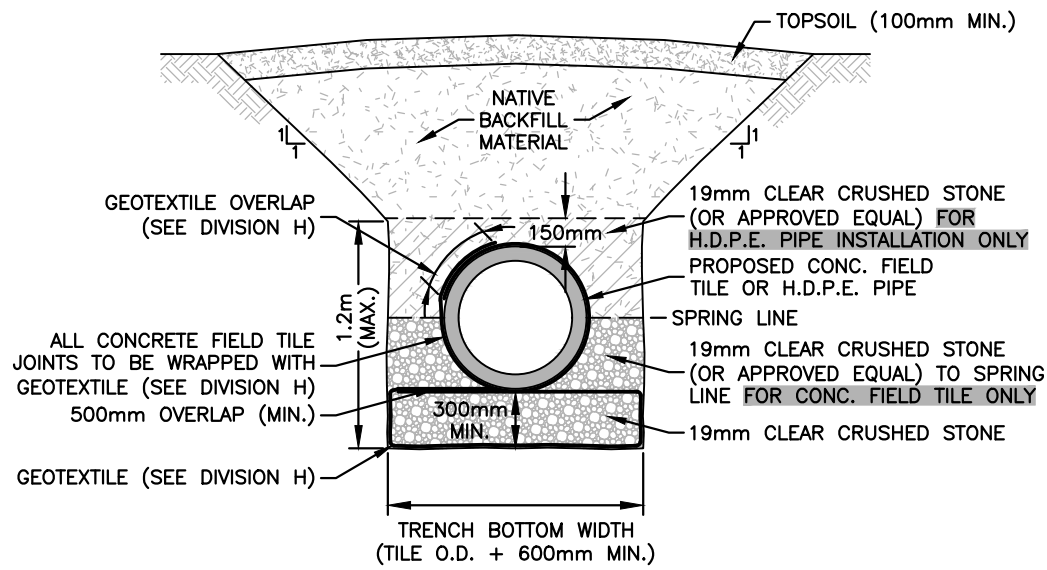
PROJ. MGR: W.J.D.	DESIGNED BY: W.J.D.	DRAWN BY: V.M.C.	CHECKED BY: W.J.D.
DRAWING SCALE: AS NOTED	DATE: March 3, 2023	PROJECT No. 2113	DRAWING No. 2 of 3



- NOTE:
1. ALL TILE CONNECTIONS TO BE EITHER A CORED HOLE WITH AN INSERT COUPLER, OR A MANUFACTURED TEE.
 2. CLEAR CRUSHED STONE BEDDING NOT REQUIRED IF DUAL WALL H.D.P.E. PIPE IS USED FOR THE CONNECTION.

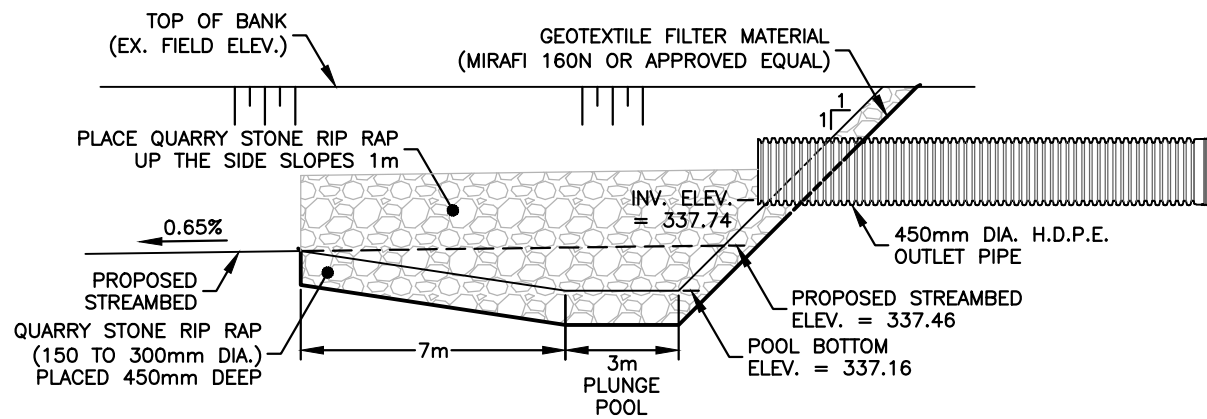
TYPICAL TILE CONNECTION DETAIL

N.T.S.



TYPICAL DRAIN INSTALLATION ON STONE BEDDING DETAIL

N.T.S.



PLUNGE POOL DETAIL

N.T.S.

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TOP OF 350mm DIA. SURFACE CULVERT 3 METRES WEST
OF STA. 0+185 BRANCH 'B'

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BENCHMARK No. 5 ELEV.=337.785
INVERT OF EXISTING CMP OUTLET PIPE 1.2 METRES WEST
OF STA. 0+009 MURRAY-LAMB DRAIN

LEGEND:

DRAIN NAME	EXISTING MUNICIPAL DRAIN
INTERIOR/EXTERIOR WATERSHED BOUNDARY	PROPERTY BOUNDARY
LOT OR CONCESSION BOUNDARY	TOWNSHIP BOUNDARY
EXISTING CATCH BASIN OR JUNCTION BOX	EXISTING MANHOLE
DRAIN NAME	MUNICIPAL DRAIN (AREA OF WORK)
WATERSHED BOUNDARY	CONSTRUCTION ACCESS
PROPOSED CATCH BASIN OR JUNCTION BOX	PROPOSED MANHOLE
BENCHMARK LOCATION	BENCHMARK No.
	BENCHMARK ELEVATION

3. REPORT SUBMISSION	2023-03-03	DEL
2. INFORMATION MEETING	2023-02-14	DEL
1. ON-SITE MEETING	2021-05-25	DEL

No. 1. ISSUES AND REVISIONS	DATE	BY
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PROJECT: BIVAL MUNICIPAL DRAIN 2023

DRAWING: DETAILS

DEL
DIETRICH ENGINEERING LIMITED
CONSULTING ENGINEERS
10 Alpine Court, Kitchener, ON, N2E 2M7

PROJ. MGR: W.J.D.	DESIGNED BY: W.J.D.	DRAWN BY: V.M.C.	CHECKED BY: W.J.D.
DRAWING SCALE: AS NOTED	DATE: March 3, 2023	PROJECT No. 2113	DRAWING No. 3 of 3



CORPORATION OF THE MUNICIPALITY OF MORRIS-TURNBERRY

BY-LAW NO. 22-2023

Being a by-law to provide for a drainage works in the Municipality of Morris-Turnberry in the County of Huron.

WHEREAS the Council of the Municipality of Morris-Turnberry, in the County of Huron has procured a report under section 4 of the *Drainage Act, R.S.O. 1990*;

AND WHEREAS the report dated March 3rd, 2023, for the BiVal Municipal Drain 2023 has been authored by Dietrich Engineering Limited, 10 Alpine Court, Kitchener, Ontario, and said report is attached hereto and forms part of this by-law.

AND WHEREAS the estimated total cost of constructing the drainage works is \$ 246,700.00.

AND WHEREAS the Council of the Municipality of Morris-Turnberry is of the opinion that the drainage of the area is desirable;

NOW THEREFORE, the Council of the Corporation of the Municipality pursuant to the *Drainage Act* enacts as follows:

1. Authorization

The attached report is adopted. The drainage works are authorized and shall be completed as specified in the report.

2. Borrowing

The Corporation of the Municipality of Morris-Turnberry may borrow on the credit of the Corporation the amount of \$ 246,700.00 being the amount necessary for the construction of the Drainage Works.

3. Debentures

This project will be debentured.

The corporation may issue debentures for the amount borrowed less the total amount of:

- a. grants received under Section 85 of the Act;
- b. commuted payments made in respect of lands and roads assessed within the municipality;
- c. money paid under subsection 61 (3) of the Act; and
- d. money assessed in and payable by another municipality,

4. Payment

Such debenture(s) shall be made payable within three (3) years from the date of the debenture(s) and shall bear interest at a rate not higher than 2% more than the municipal lending rates as posted by Infrastructure Ontario on the date of sale of such debenture(s).

- a. All assessments of \$1,000.00 or less are payable in the first year in which the assessment is imposed.
- b. All assessments under \$10.00 shall be added to the municipal tax roll to be collected in the same manner and at the same time as other taxes collected.

5. Citation

This By-law comes into force on the final passing thereof, and may be cited as the “BiVal Municipal Drain 2023 By-law.”

Read a FIRST and SECOND time and PROVISIONALLY ADOPTED this 11th day of April 2023.

Mayor, Jamie Heffer

Clerk, Trevor Hallam

Read a THIRD time and FINALLY PASSED this 6th day of June, 2023.

Mayor, Jamie Heffer

Clerk, Trevor Hallam

Schedule of Assessment for Construction
Schwartzentruber Municipal Drain 2023

Schwartzentruber Municipal Drain 2023	Property Details				Drainage Act Instruments of Assessment				For Information			
	Part			Roll	Approx. Ha.	Benefit	Outlet	Special	Total	Less Gov't	Less	Net Estimated
	Lot	Concession	Landowner	Number	Affected	(Sec. 22)	Liability	Assessment	Assessment	Grant	Allowances	Expense
	3	2	Jared Harkness and Traci Ducharme	2-038		\$ -	\$ -		\$ -	*	\$ 750.00	-\$ (750.00)
	2,3	3	Great Land Farms Ltd	3-004	38.2	\$ 105,750.00	\$ 15,761.00		\$ 121,511.00	\$ 40,504.00	\$ 25,040.00	\$ 55,967.00
	3	3	Maple Ridge Beef Farms Ltd	3-040	6.5	\$ -	\$ 4,538.00		\$ 4,538.00	\$ 1,513.00	\$ -	\$ 3,025.00
	4	3	Great Land Farms Ltd	3-005	33.6	\$ 30,931.00	\$ 16,387.00		\$ 47,318.00	\$ 15,773.00	\$ 1,250.00	\$ 30,295.00
	4	3	Maple Ridge Beef Farms Ltd	3-041	25.5	\$ -	\$ 29,323.00		\$ 29,323.00	\$ 9,774.00	\$ -	\$ 19,549.00
	5	3	Great Land Farms Ltd	3-006	0.3	\$ -	\$ 5,054.00		\$ 5,054.00	\$ 1,685.00	\$ -	\$ 3,369.00
	5	3	Hopper Holdings Inc	3-042	4.7	\$ -	\$ 3,478.00		\$ 3,478.00	\$ 1,159.00	\$ -	\$ 2,319.00
Total Assessments on Lands						\$ 136,681.00	\$ 74,541.00	\$ -	\$ 211,222.00	\$ 70,408.00	\$ 27,040.00	\$ 111,455.00
Stone School Road Morris-Turnberry						\$ 5,068.00	\$ 310.00	\$ 46,700.00	\$ 52,078.00			\$ 52,078.00
Total Assessments on Roads						\$ 5,068.00	\$ 310.00	\$ 46,700.00	\$ 52,078.00			\$ 52,078.00
Total Assessments												
Schwartzentruber Municipal Drain 2023						\$ 141,749.00	\$ 74,851.00	\$ 46,700.00	\$ 263,300.00	\$ 70,408.00	\$ 27,040.00	\$ 163,533.00

Notes:

- 1 "*" Denotes Lands not eligible for ADIP Grants.
- 2 The Special Assessment (Sec. 26) shall be a non-proratable assessment. All other Assessments are proratable.
- 3 The Net Estimated Expense is the Total Assessment less gov't grants and allowances (if applicable).

MUNICIPALITY OF MORRIS-TURNBERRY

REPORT TO COUNCIL

TO: Mayor and Council
PREPARED BY: Kim Johnston, Deputy Clerk
DATE: April 11, 2023
SUBJECT: Bluevale Hall Entrance

RECOMMENDATION

For information only.

BACKGROUND

At the February 7, 2023 Council meeting, you were informed of the Accessibility Grant received to correct and complete the work on the Bluevale Community Hall entrance door.

On April 4, 2023, the contractor arranged to complete the work on the Bluevale hall.

Repairs included:

- Installing a panic bar exit, trim and an electric strike,
- Installing the automatic door opener and
- Installing electronic proponents to allow for remote locking and unlocking of the hall

Current process for Bluevale Hall Rentals:

1. Municipal office books the rentals,
2. Municipal office and Bluevale Community Committee share a rental calendar
3. The week leading up to the rental, a reminder email goes out the Committee regarding the rental and the Committee will make sure the door is unlocked before the rental and go back and lock up the hall after the rental.

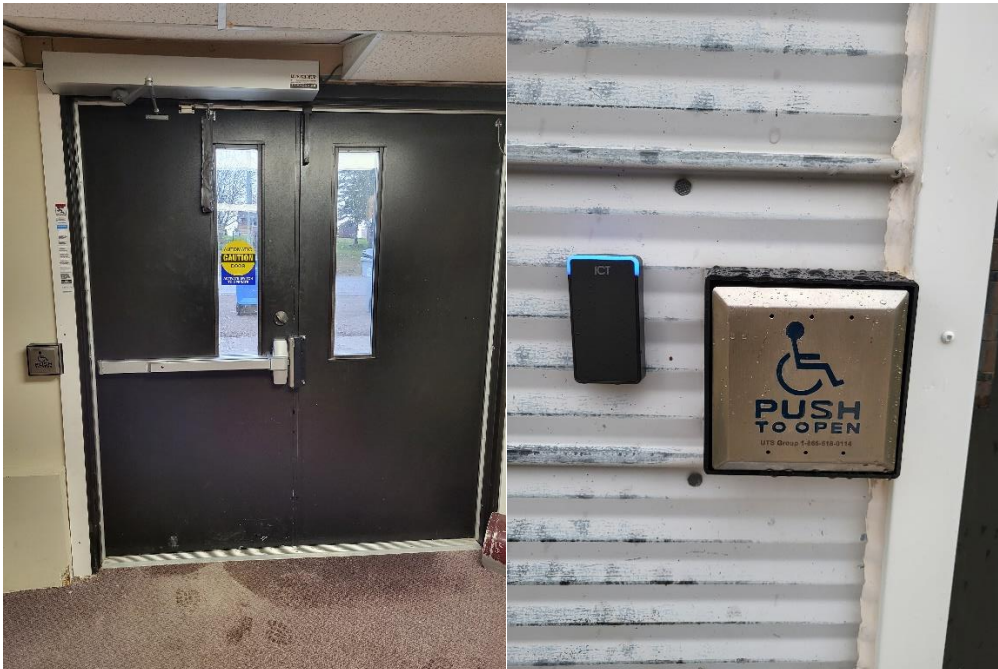
The Entrance to the Bluevale Community Hall can now be unlocked and locked remotely – All rental times for the hall can be set up prior to the rental, from the Municipal office with exact open and close times programed for the entrance. This will remove any need for a key to enter the building at the front entrance.

The small black box beside the push button outside the building will allow committee members and employees of Morris-Turnberry to use their own assigned Key fob to enter the hall.

April 5, 2023, online training was completed with Municipal staff.

The work on the entrance door to the hall is now complete, up to code and safe and accessible for the public to continue to use.

PICTURES



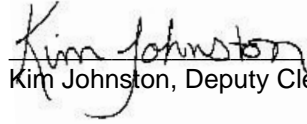
OTHERS CONSULTED

Trevor Hallam, CAO/Clerk

Kirk Livingston, Chief Building Official

Sean Brophy, Treasurer

Respectfully submitted,

A handwritten signature in black ink that reads "Kim Johnston". The signature is written in a cursive, flowing style. The first name "Kim" is written in a larger, more prominent script, and "Johnston" follows in a similar but slightly smaller script. The signature is positioned above the printed name.

Kim Johnston, Deputy Clerk

MUNICIPALITY OF MORRIS-TURNBERRY

REPORT TO COUNCIL

TO: Mayor and Council
PREPARED BY: Mike Alcock, Director of Public Works
DATE: April 11th, 2023
SUBJECT: Operations Report

RECOMMENDATION

That the Council of the Municipality of Morris-Turnberry receive the Public Works Operations Report.

For Information Purposes Only

BACKGROUND

This report is intended to provide Council with an outline of Public Works Staff operations:

- Routine and Winter Road Patrols are being completed as scheduled and / or as required until the official end of winter this month.
- Winter maintenance activities continued into late march and as required.
- Most of the winter equipment has been removed and the summer equipment is being installed.
- Our winter rental grader has been returned to the rental company.
- We have interviewed and selected our summer students for the upcoming summer season. Both seem excited and they will be starting on May 1, 2023.
- Shop maintenance and vehicle maintenance are being completed as time permits and as required.
- Public Works staff continue cutting trees that pose a hazard when time permits during the winter maintenance season.
- The Hybrid Landfill / Public Works operator position was posted internally and a qualified applicant that previously worked as a part time seasonal winter employee applied and was subsequently hired to this vacancy. Greg Nicholson will replace Andy as our New Landfill / Public Works Operator. Greg began March 6, 2023.
- Although we continue to struggle with a lot of moisture, we have been able to complete some light grading to improve roads that suffered from a very wet warm winter.
- The Public Works truck that is scheduled for replacement will be posted on GovDeals in the upcoming weeks. We expect to get a fair price for this truck due to current demand.
- Preparations for spring have begun and preparations for paving tenders will be commencing in the next couple of weeks.
- We will be short one public works employee for the next 6 – 8 weeks recovering from knee surgery.

Respectfully submitted,



Mike Alcock,
Director of Public Works



AORS
PROMOTING **KNOWLEDGE**. PURSUING **EXCELLENCE**

March 27, 2023

Dear Heads of Councils and Councillors,

We, the Association of Ontario Road Supervisors (AORS), are writing you on behalf of all our municipal members to raise awareness and solicit your support by objecting to a new fee proposed by Enbridge Gas. Enbridge has announced their intention to implement a new charge to third-party contractors and other utilities for utility locates. Third-party contractors will include Ontario municipalities and contractors working on their behalf. Enbridge Gas will apply a charge of \$200 CAD (plus applicable taxes) per locate request where a field locate is required. The need for municipalities and their contractors to request these locates when doing road construction and maintenance is due to utilities being present in municipal right of ways, which municipalities across the province have allowed at no cost to the utility.

Enbridge has stated that the *Getting Ontario Connected Act* passed into law in April 2022 has resulted in changes to the *Ontario Underground Infrastructure Notification System Act* and has caused Enbridge to make significant investments in associated operational investments. The concern being raised by our members, your public works staff, is that Enbridge will be just the beginning of these additional fees, with other utility companies implementing similar charges. These new charges will have significant impacts on municipal budgets.

As examples of what impacts this announcement might have on municipalities, based on 2022 municipal locate requests alone, it is estimated that this new fee would directly cost the Municipality of Central Huron approximately \$35,000 annually, the City of Belleville approximately \$90,000 annually and the Town of Espanola approximately \$7,300 annually. It is important to note that these are direct costs alone. Any subcontractors working on behalf the municipality requesting locates will be charged this same cost, and these costs will have to be borne by someone – meaning the subcontractors will put this cost back to the municipality. Then there will be the added administrative costs at both ends of the transaction. It is difficult to determine this quickly the true fulsome costs to your budget. This will also add an extra item into tendering projects, as it will create concerns on both sides on who is responsible for these costs.

By Enbridge Gas passing on these locate costs to municipalities, these costs are borne by all ratepayers across the municipality, and not only those who use this utility.

We would like to request your Council consider passing the following resolution:

WHEREAS, Enbridge recently made an announcement of their intention to begin charging third-party contractors and other utilities \$200 CAD (plus applicable taxes) for utility locates where a field locate is required;

AND WHEREAS, third-party contractors include Ontario municipalities;

AND WHEREAS, these locate requests are only required as Ontario municipalities have allowed utilities to use municipal right of ways at no charge to the utilities;

AND WHEREAS, this announcement of new downloaded costs will negatively impact the budgets of Ontario municipalities which are already burdened;

AND WHEREAS, if Enbridge is successful in implementing this new charge, a precedence is set for other utility companies to also begin charging for locates;

THEREFORE IT BE RESOLVED, that the <insert your municipality name> strongly opposes these utility locate costs being downloaded to Ontario municipalities by Enbridge Gas or other utilities;

AND THAT, the Province of Ontario's Ministry of Public and Business Service Delivery make it clear that these costs must be borne by the utilities themselves;

AND THAT, this decision be forwarded to Minister of Public and Business Service Delivery Kaleed Rasheed, Minister of Infrastructure Kinga Surma, Minister of Energy Todd Smith, Premier Doug Ford, <insert your municipality name>'s MPP, the Association of Ontario Road Supervisors and the Association of Municipalities of Ontario.

Furthermore, AORS will be sending your public works senior managers and directors a survey to further investigate the true costs of this proposed fee on your budgets. We ask you to encourage your staff to complete this survey so we can better advocate on your behalf.

If you require additional information, please do not hesitate to contact us.

Sincerely,



John Maheu
Executive Director
johnmaheu@aors.on.ca



Kelly Elliott
Marketing and Communications Specialist
kellyelliott@aors.on.ca



Report to the Council on April 11th, 2023

Subject: Boundary Agreement – Municipality of South Bruce

Presented by: Mike Alcock

- **Recommendation:** That the Council of the Municipality of Morris-Turnberry receive the Report on Boundary Agreements and approved the terms of the Draft Boundary Agreement and instruct the Clerk to prepare a by-law to adopt the Boundary Agreement between the Municipality of South Bruce and the Municipality of Morris-Turnberry.

Executive Summary:

Section 29(1) of the Municipal Act, R.S.O. 2001, assigns joint jurisdiction to Municipalities on either side of a boundary road. Generally, when Municipalities share a boundary road it is advantageous to enter into an agreement to assign the responsibility for that road or section of road to one or the other municipality. Section 29.1 (1) of the Municipal Act, R.S.O. 2001, offers provisions to municipalities to enter into agreements with adjacent municipalities to assign responsibility for the whole road or section of road to one municipality.

In Morris-Turnberry we have 3 neighbouring municipalities that share boundary roads with us and / or perform work on our roads for the purpose of efficiency and vice versa. It is necessary to have agreements in all cases to protect all of the Municipalities involved.

Comments:

The Municipal Act provides for such mutual agreements between adjacent municipalities so long as the agreement is authorized by by-law in both Municipalities.

Morris-Turnberry Public Works created agreements in 2018 for all of our boundaries and bordering municipalities that share common roads or that are responsible for work completed in the adjacent municipality.

Morris-Turnberry has an agreement with South Bruce for maintenance on the Boundary between the two Municipalities. The agreement refers only to the boundary itself, and not to the sections of adjacent road maintained by each other Municipality. The agreement was made in 2001 and expired in 2011. This expired agreement requires the tracking of every activity and the preparation of invoices every year. The resulting revenue and expense of these billings has generally been nil, with the exception of capital work and gravel applications.

Morris-Turnberry began negotiations in 2019 with South Bruce requesting the development of an updated Boundary Agreement. Staff turnover at South Bruce has been the biggest challenge in getting an approved agreement.

The proposed agreement is a reciprocal agreement recognizing an even distribution of work. No invoicing will be required except for capital work, maintenance gravel and special circumstances. Although there is no sunset clause to prevent future operations with an agreement, It is recommended that the agreements be renewed at least every 5 years.

Similar agreements have been in place and in force with both the Howick Township and the Township of North Huron since early 2019.

The Council of South Bruce executed By-Law #2023-27 to authorize the execution of the Boundary Agreement between the Corporation of the Municipality of South Bruce and the Corporation of the Municipality of Morris-Turnberry at their regular Council meeting on March 28, 2023.

Budget:

The costs associated with preparation and registration of the agreement and By-law can be absorbed within the existing budget.

Thank you.



Mike Alcock,
Director of Public Works

THIS AGREEMENT made in duplicate this ____ day of _____, 2023.

B E T W E E N:

THE CORPORATION OF THE MUNICIPALITY OF SOUTH BRUCE
OF THE FIRST PART

AND

THE CORPORATION OF THE MUNICIPALITY OF MORRIS-TURNBERRY
OF THE SECOND PART

The parties are adjoining municipalities and are desirous of entering into an agreement under the provisions of Section 8(1), 9 and 29(1) of the Municipal Act, R.S.O. 2001, and amendments thereto dealing with winter maintenance and repair of boundary roads between such municipalities and certain other roads totally under the jurisdiction of the respective municipalities. The "Road" is deemed herein to include, but not limited to, all bridges, culverts, guide rails, signage, line markings, trees and intersection illumination under the jurisdiction of either or both municipalities.

The said municipalities have jurisdiction over the portions of said highways so assumed as municipal roads, and it is deemed expedient and necessary to provide for the division of said highways so that each municipality may be responsible for the maintenance and repair of a particular portion of the same;

This agreement witnesseth that in consideration of the premises and of the mutual agreements and covenants hereinafter contained the parties hereto agree each with the other as follows:

1. The Corporation of the Municipality of South Bruce shall maintain and repair the portions of road more particularly described as follows:
 - 1.1. The Corporation of the Municipality of South Bruce shall be responsible for 100% of the Yearly Maintenance Costs including Patrolling, Plowing, Sanding, Salting, ice blading, graveling, dust control, and grass cutting on the following roads under the jurisdiction of Morris-Turnberry:
 - 1.1.1. Versteeg Line from the west limit of County Road 4 (London Road) to the south limit of Turnberry-Culross Road as distance of approximately 0.21 km.
 - 1.2. All work other than that specifically described in section 1.1. on the road sections described in section 1.1., such as, but not limited to road construction, hot mix asphalt resurfacing, bridge and culvert repairs and/or replacements, surface treatment, etc., shall be the responsibility of the municipality having jurisdiction over that portion of road.

- 1.3. The Corporation of the Municipality of South Bruce shall be responsible for 100% of the yearly maintenance costs including Patrolling, Plowing, Sanding, Salting, ice blading, dust control, and grass cutting on the westerly portion of the Boundary Line – Turnberry-Culross Road – between the said Municipalities of South Bruce and Morris-Turnberry extending from 150 m west of the western limit of King Road to the north-west limit of County Road 4 (London Road) a distance of approximately 4.6 km.
- 1.4. All work other than that specifically described in section 1.3., on the road section described in section 1.3., such as, but not limited to road construction, hot mix asphalt resurfacing, bridge and culvert repairs and/or replacements, surface treatment, and maintenance gravel, shall be agreed upon by both Municipalities and apportioned between and paid by the two Municipalities on a 50 / 50 basis.
- 1.5. The Corporation of the Municipality of South Bruce shall be responsible for 100% of the yearly maintenance costs including Patrolling, dust control, and grass cutting on the westerly portion of the Boundary Line – Turnberry-Culross Road – between the said Municipalities of South Bruce and Morris-Turnberry extending from the Boundary between Huron-Kinloss and South Bruce to 150 m west of the western limit of King Road a distance of approximately 1.6 km.
- 1.6. All work other than that specifically described in section 1.5., on the “No Winter Maintenance” road section described in section 1.5., such as, but not limited to road construction, hot mix asphalt resurfacing, bridge and culvert repairs and/or replacements, surface treatment, and maintenance gravel, shall be agreed upon by both Municipalities and apportioned between and paid by the two Municipalities on a 50 / 50 basis.
- 1.7. The Corporation of the Municipality of South Bruce shall be responsible for the application of maintenance gravel on the road sections described in section 1.3 and 1.5. It is agreed upon by both Municipalities that the cost of supplying the gravel will be apportioned between the two Municipalities on a 50 / 50 basis. The cost of labour and equipment to install the gravel will be borne by the Municipality of South-Bruce.
- 1.8. South Bruce shall be solely responsible for all sign maintenance on all roads to this agreement completely under the jurisdiction of South Bruce and for sign maintenance on the South Bruce side of boundary roads with joint jurisdiction.
2. The Corporation of the Municipality of Morris-Turnberry shall maintain and repair the portions of road more particularly described as follows:
 - 2.1. The Corporation of the Municipality of Morris-Turnberry shall be responsible for 100% of the Winter Maintenance Costs including Patrolling, Plowing, Sanding and Salting on the following roads under the jurisdiction of South Bruce:
 - 2.1.1. Margaret Street from the North limit of Huron Bruce Road for a distance of approximately 0.32 km.
 - 2.2. All work other than that specifically described in section 2.1. on the road sections described in section 2.1., such as, but not limited to road construction, hot mix asphalt resurfacing,

bridge and culvert or storm sewer repairs and/or replacements, surface treatment, etc., shall be the responsibility of the municipality having jurisdiction over that portion of road.

- 2.3. The Corporation of the Municipality of Morris-Turnberry shall be responsible for 100% of the Yearly Maintenance Costs including Patrolling, Plowing, Sanding, Salting, shouldering, and grass cutting on the following roads under the jurisdiction of South Bruce:

- 2.3.1. Side Road 15 from the North limit of Huron Bruce Road to the south-east limit of Bruce Road 4 for a distance of approximately 0.21 km.

- 2.4. All work other than that specifically described in section 2.3. on the road sections described in section 2.3., such as, but not limited to road construction, hot mix asphalt resurfacing, bridge and culvert or storm sewer repairs and/or replacements, surface treatment, earth work etc., shall be the responsibility of the municipality having jurisdiction over that portion of road.

- 2.5. The Corporation of the Municipality of Morris-Turnberry shall be responsible for 100% of the yearly maintenance costs including Patrolling, Plowing, Sanding, Salting, and grass cutting on the eastern portion of the Boundary Line – Huron Bruce Road – between the said Municipalities of South Bruce and Morris-Turnberry extending from the south east limit of County Road 4 (London Road) to the west limit of County Road 12 (Belmore Line) a distance of approximately 7.3 km.

- 2.6. All work other than that specifically described in section 2.5., on the road section described in section 2.5., such as, but not limited to road construction, hot mix asphalt resurfacing, bridge and culvert repairs and/or replacements, surface treatment, etc. shall be agreed upon by both Municipalities and apportioned between and paid by the two Municipalities on a 50 / 50 basis.

- 2.7. Morris-Turnberry shall be solely responsible for all sign maintenance on all roads to this agreement completely under the jurisdiction of Morris-Turnberry and for sign maintenance on the Morris-Turnberry side of boundary roads with joint jurisdiction.

3. **It is recognized by both parties that this reciprocal agreement directs equal responsibility to each of the parties. With regard to compensation to either municipality, it is agreed that there shall be no reimbursement, other than that specifically identified, to either municipality from the other for the maintenance outlined herein.**
4. Each municipality shall have full supervision, control, and financial responsibility for the maintenance work on its respective portion of said roads, and at the end of each financial year, or when the work for each year is completed, the respective Operations Manager/Director of Public Works of the said municipalities shall include in their accounts, the maintenance expenditures made in such year on the portion of said road under their responsibility.
5. The responsible Manager/Director of each municipality shall forward the details of any planned capital or major maintenance work requiring the financial contribution of more than \$5,000 from the other municipality in writing not later than September 1st of the year preceding the work. The cost of approved work shall be apportioned between and paid by the two municipalities on a 50 / 50 basis.

6. The responsible Manager/Director of each municipality shall also prepare each year a detailed statement of the capital improvements as described in Sections 1.3., 1.5. and 2.5, and such statement shall be verified by a statutory declaration of the responsible Manager/Director and shall be submitted to the other municipality not later than the first day of January in the year following that in which the expenditure was made, and such expenditure shall be paid in said proportions by each of the two municipalities. The capital expenditures by either municipality in any one year on the portion of the work as above set out shall not exceed the sum of \$5,000.00 without first receiving the consent of the municipality to the expenditure of any amount in excess of the said sum.
7. This Agreement when confirmed by By-Law of the Council of each of the municipalities shall become effective and binding on the parties hereto and shall continue in force until terminated. Either Party may provide the other Party with a written notification that this Agreement will be terminated six months following receipt of the written notification.
8. After confirmation by By-Laws by each municipal council, each municipality shall have jurisdiction only over that portion of the road which it has undertaken to maintain and keep in repair to the extent aforesaid, and shall indemnify and save harmless the other from any loss or damage arising from the want of repair of such road and such other municipality shall be relieved from all liability in respect of the maintenance and repair described herein of such portion of road except as to its liability to contribute its share of the net expenditure therein, under the provision of Section 5 and 6 hereof.

WITNESS the Corporate Seals of the said Municipalities as attested by the hands of their respective Heads of Council and Clerks in that behalf.

CORPORATION OF THE MUNICIPALITY OF SOUTH BRUCE

MAYOR

CAO/Clerk

CORPORATION OF THE MUNICIPALITY OF MORRIS-TURNBERRY

MAYOR

CAO/Clerk

MUNICIPALITY OF MORRIS-TURNBERRY

REPORT TO COUNCIL

TO: Mayor and Council
PREPARED BY: Trevor Hallam, CAO/Clerk
DATE: April 11th, 2023
SUBJECT: Tile Drain Loan Application

RECOMMENDATION

That the application for a Tile Loan submitted by Greg Higgins for the North Part of Lot 6, Concession 3, Morris, be accepted.

BACKGROUND

Landowners in Ontario planning to install a tile drainage system on their agricultural land are eligible for a tile loan under the Tile Loan Program from the Ontario Ministry of Agriculture, Food and Rural Affairs (OMAFRA).

All tile loans have 10-year terms, and repayments are made annually. Landowners are eligible for a loan of up to 75% of the value of the tile drainage work, up to \$50,000.00. The provincial government sets the program interest rate, which is currently at 6%. This rate is fixed for the full term of the loan, regardless of changes in market interest rates. The interest rate is calculated annually, not semi-annually, as is done by most financial institutions.

A landowner wishing to receive a loan under this program must submit a loan application form to council. Once council approves the application, the owner arranges to have the work completed by a licensed tile drainage contractor. The municipality will inspect the work upon completion and charges \$100.00 per hour plus mileage for the inspection. The municipality then prepares loan documents to send to OMAFRA. After processing these documents, OMAFRA issues a cheque to the municipality, which distributes the loan funds to the applicant.

The municipality collects the loan repayments from the owner and remits them to OMAFRA. The loan can be repaid in full at any time.

COMMENTS

On March 21st an application for a Tile Loan was received from Greg Higgins for property at 85862 Clegg Line. Mr. Higgins proposes to tile approximately 50 acres of land on the property

The total estimate for the work is \$70,200.00, making the potential loan amount the maximum of \$50,000.00. The actual loan amount may vary if the final cost of the work varies from the estimate.

If Council approves the application, the landowner will be notified and work by a licensed contractor can begin.

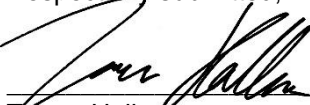
ATTACHMENTS

1. Application for a Tile Loan - Higgins

OTHERS CONSULTED

None.

Respectfully submitted,



Trevor Hallam,
CAO/Clerk

To the council of the _____ of _____

Property Ownership

If property is owned in partnership, all partners must be listed. If property is owned by a corporation, list the corporation's name and the name and corporate position of the authorized officer. Only the owner(s) of the property may apply for the loan.

Ownership Type

Applicant Mailing Address and Primary Contact Information

Last Name Hickins		First Name Greg		Middle Initial N
Unit Number	Street/Road Number	Street/Road Name		PO Box
City/Town BRUSSELS		Province ON		Postal Code N0G 1H0
Telephone Number	Cellphone Number (optional)		Email Address (optional)	

Location of Land to be Drained

Lot or Part Lot 6	Concession 3 N	Geographic Township MORRIS
Parcel Roll Number 40 60 540 003 00900 0000		
Civic Address		
Unit Number	Street/Road Number	Street/Road Name
City/Town	Province	Postal Code

Description of Drainage System

Please attach a sketch of the location of the land you are planning to drain.

A mapping tool is available at: www.ontario.ca/drainage

Approximate Length of Pipe Material 67 000	ft/m 67 000	Area to be Drained 50	acre/ha 50
Proposed Outlet SELF EXISTING RIVER	MAITLAND	Anticipated Date of Commencement APRIL 2023	Anticipated Date of Completion MAY 2023

Estimated Total Cost of Drainage System

Material	45 000 53 000
Installation	16 000 17 000
Inspection Fee	200
Other	
Total Cost	70 200

Amount of Loan Requested*	50 000
---------------------------	---------------

* Must be a multiple of \$100 not exceeding 75% of total cost of drainage work.

Terms of Agreement

In making this application for a loan, I understand and agree to the following:

- The granting of the loan is conditional upon all work being conducted in accordance with the *Agricultural Tile Drainage Installation Act*;
- The approval or refusal of the application is at the discretion of council whose decision is final;
- I will be advised in writing of council's decision regarding the application;
- Should the loan application be approved, an inspector of drainage will complete an Inspection and Completion Certificate and submit it to council;
- Council shall levy and collect for the term of ten years, over and above all other rates upon the land in respect of which the loan is made, a special equal annual rate sufficient to discharge the principal and interest of the loan;
- The *Tile Drainage Act* sets out procedural matters which pertain to this application for a loan; and
- The sum of all loans issued to me, as an individual, or in my role in a partnership or corporation in this and any other municipality does not exceed \$50,000 for the period of April 1st to March 31st.

Signature of Owner(s)/Primary Contact

Date (yyyy/mm/dd)

Signature of Owner(s)/Primary Contact

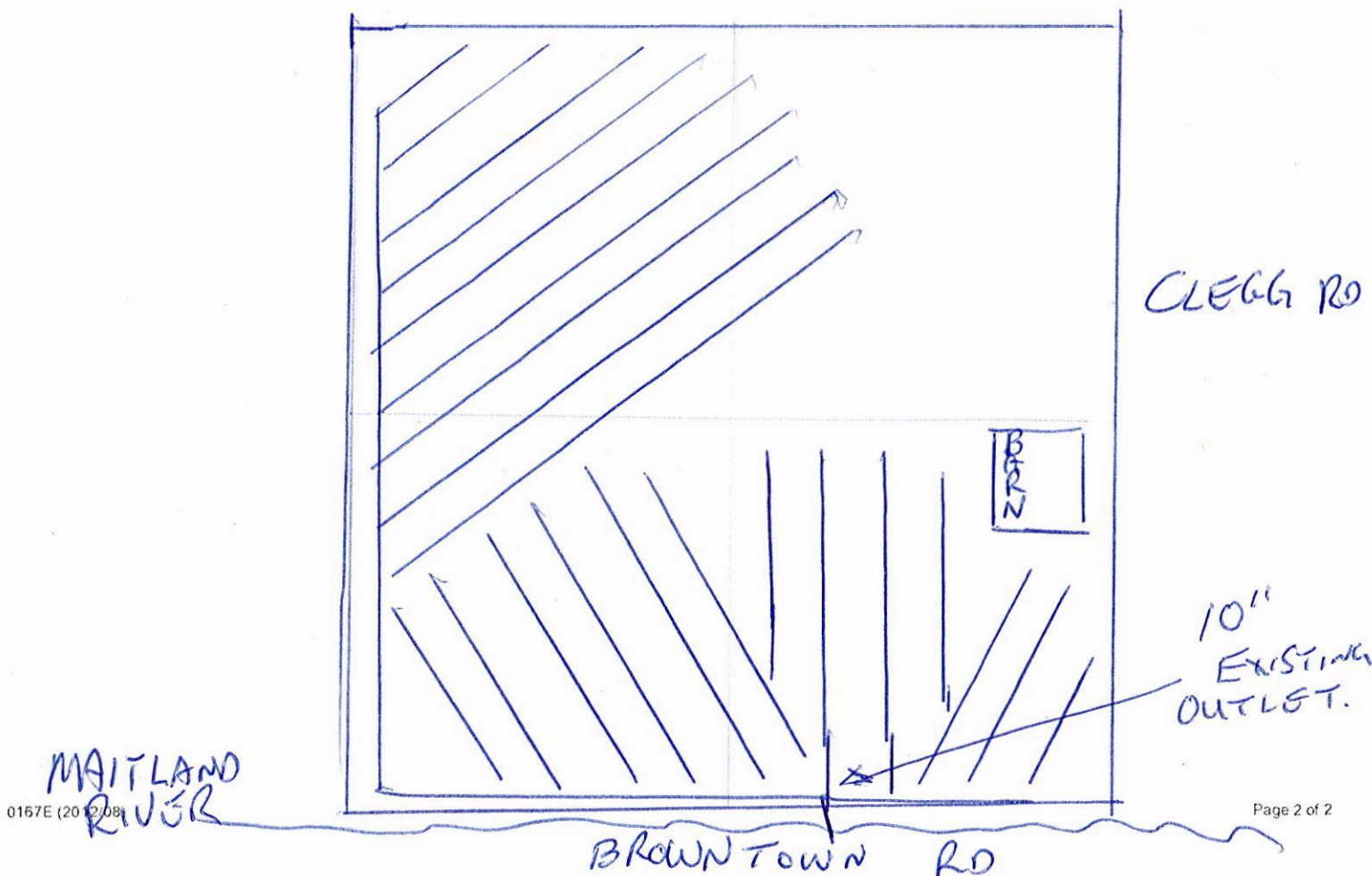
Date (yyyy/mm/dd)

Notice of Collection of Personal Information

Any personal information collected on this form is collected under the authority of the *Tile Drainage Act*, R.S.O. 1990, c. T.8 and will be used for the purposes of administering the Act. Questions concerning the collection of personal information should be directed to:

where the form is addressed to a municipality (*municipality to complete*)

and where the form is addressed to a territory without municipal organization, the Drainage Coordinator, Ministry of Agriculture, Food and Rural Affairs, 1 Stone Rd W, Guelph ON N1G 4Y2, 519 826-3552.



Trevor Hallam

From: Saugeen Valley Conservation Authority <a.richards@svca.on.ca>
Sent: Wednesday, March 22, 2023 2:49 PM
To: Trevor Hallam
Subject: 2023 SVCA Watershed Report Card Released

This is the first email you've received from this external sender.

Do not click links or open attachments unless it is an email you expected to receive.



FOR IMMEDIATE RELEASE – March 22nd, 2023

Saugeen Valley Conservation Authority (SVCA) releases the 2023 Watershed Report Card

SAUGEEN WATERSHED, ONTARIO – Bruce, Dufferin, Huron, Grey, and Wellington Counties.

Saugeen Valley Conservation Authority (SVCA) is excited to present the 2023 Watershed Report Card, a comprehensive summary of the state of water quality, forests, and wetlands in the Saugeen Valley watershed from 2017 to 2021. Prepared in partnership with Conservation Ontario and released every five years, this report card offers essential insights into the current conditions and trends within the watershed, enabling informed planning for a sustainable future.

In compiling the 2023 Watershed Report Card, SVCA collected data on groundwater quality, surface water quality, forest cover, and wetland cover at numerous sites throughout the watershed. For the first time, the report card incorporates at least ten years of data for groundwater to provide a more accurate representation of long-term trends.

Key findings from the 2023 Watershed Report Card include:

Groundwater Quality: Chloride levels at all tested sites received a grade of A (excellent), and nitrogen levels at most sites (86%) received a grade of A (excellent). Two sites received nitrogen grades of B (good), and one site received a D (poor). These findings are not indicators of drinking water quality.

Surface Water Quality: Overall grades range from A (excellent) to C (fair), with mostly (60%) B (good) grades. Phosphorus grades fell in the South Saugeen River and Lower Main Saugeen River, while E.coli grades remained mostly unchanged across the watershed, and benthic macroinvertebrate grades generally improved.

Forest Cover: Grades range from A (excellent) to D (poor), with mostly B (good) and C (fair) grades.

Wetland Cover: Grades range from A (excellent) to D (poor) with mostly excellent grades.

SVCA encourages residents, businesses, municipalities, and counties in the Saugeen Valley region to review the 2023 Watershed Report Card, which is available for download at the SVCA website. By engaging with this essential information, all stakeholders can play an active role in preserving and enhancing our shared natural resources.

View the website:

www.saugeenconservation.ca/2023wrc

Download the report card by [clicking here](#).

For more information, please contact:

Ashley Richards, Communications Coordinator

Saugeen Valley Conservation Authority

Email: a.richards@svca.on.ca

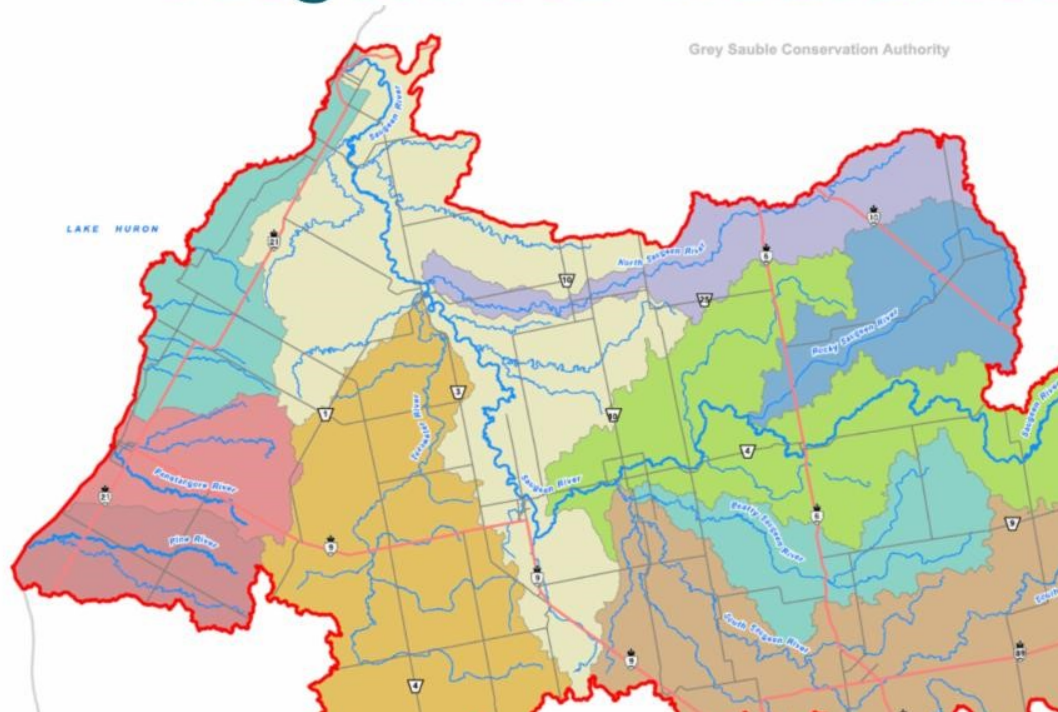
Cell: 519-364-1255 ext. 238

www.saugeenconservation.ca

The map below depicts the sub-watersheds that make up the Saugeen Valley Conservation Authority. These are the Beatty Saugeen River, Lake Fringe, Lower Main, North Saugeen River, Penetangore River, Pine River, Rocky Saugeen River, South Saugeen River, Teeswater River and Upper Main watersheds.

The sub-watersheds, irrespective of political or geographic boundaries, are the defined areas for the grades produced in the report cards. The sub-watershed boundaries reflect the tributaries and creeks that form the larger river systems that flow towards Lake Huron.

Saugeen Sub-watersheds



Saugeen Conservation | 1078 Bruce Road 12, Box 150, Formosa, N0G 1W0 Canada

[Unsubscribe thallam@morristurnberry.ca](mailto:Unsubscribe_thallam@morristurnberry.ca)

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Sent by a.richards@svca.on.ca in collaboration with



Try email marketing for free today!

FOR IMMEDIATE RELEASE

April 3, 2023

SPOKESPERSON: Glen McNeil, Warden

519.524.8394 x3224

warden@huroncounty.ca

Huron County Library launches community survey to support strategic plan development.

Huron County, Ontario – The Huron County Library is developing a new strategic plan and invites the public to participate in a community survey to help the library establish priorities for 2024 through 2028.

Public input on the library's services, programs and facilities will provide valuable feedback that will help shape the plan to meet the needs of the communities the library serves.

"Whether or not you are a regular user of library services, we want to hear from you!" said County Librarian and Director of Cultural Services Beth Rumble. "All feedback is welcome and will be considered as we set our direction for the next five years."

The online survey can be accessed from home or from any Huron County Library branch by visiting connectedcountyofhuron.ca/librarystrategicplan. Branches will also have paper copies of the survey available and staff willing to help if you have questions or need support completing the survey. As a thank you for taking the time to provide feedback, all participants will be entered into a draw for an iPad. The deadline to complete the survey is Sunday, April 30.

The survey can also be found on the library's website which includes full rules for participating in the giveaway: <https://www.huroncountylibrary.ca/survey/>

FOR IMMEDIATE RELEASE

April 4, 2023

SPOKESPERSON: Glen McNeil, Warden

519.524.8394 x3224

warden@huroncounty.ca

Ontario's West Coast Tourism Summit to be held April 24, 2023.

Huron County, Ontario – Tourism and hospitality businesses, and those working in the sector, are invited to the Ontario's West Coast Tourism Summit. This one-day summit will be held at the Libro Community Hall, Clinton on Monday, April 24 from 9:30 a.m. to 3:30 p.m.

Attendees will learn from industry experts, network with others in the Huron County tourism sector, and hear about local tourism marketing and development initiatives.

"The County continues to support our dynamic tourism sector," says Warden Glen McNeil. "In 2022, we welcomed 1.2 million visitors to Huron County, and that's why we're excited to work with our local partners and elevate tourism in Huron County."

The keynote speaker for this year's event is Philip Mondor, President and CEO of Tourism HR Canada. Mondor is an accomplished leader with 35 years of experience working with labour market professionals across Canada and abroad. Mondor will be sharing insights about workforce shortages in the tourism sector and offering tools and strategies on how businesses can manage challenges as the region enters the busy summer tourism season.

Julie Sawchuk from Sawchuk Accessible Solutions will also be presenting at the event. Almost 22% of Canada's population, aged 15 years and over, are living with some form of disability. Sawchuk will educate tourism business operators on how they can improve the accessibility of their businesses, ensuring Huron County is welcoming to all.

Other speakers and presentations at the summit will include Diana MacDonald from Ipsos, who will share a report on the Tourism Economic Impact in Huron County, and Regional Tourism Organization 4 will give an overview of Sustainable Tourism initiatives including a sneak peek at four new Ontario's West Coast cycling tourism itineraries.

The registration fee for the Ontario's West Coast Tourism Summit is \$20 plus HST and includes lunch along with tastings from local beer and wine producers.

To register, visit <https://www.eventbrite.ca/e/ontarios-west-coast-tourism-summit-tickets-595909801257>.

The Ontario's West Coast Tourism Summit is organized by Huron County Economic Development in partnership with Municipality of Central Huron, Municipality of Huron East, Township of North Huron, Town of Goderich, and Regional Tourism Organization 4.

CORPORATION OF THE COUNTY OF HURON

TO: Warden and Members of Council
FROM: Jeff Horseman, Chief Emergency Services
DATE: 3/22/2023
SUBJECT:

RECOMMENDATION:

RECOMMENDED MOTION:

THAT:

The Council of the County of Huron receives the report by Jeff Horseman, Chief Emergency Services, dated March 22, 2023, titled Brussels Paramedic Base Design, as presented for information;

AND FURTHER THAT:

The Council of the County of Huron direct Huron County staff to proceed with the Municipality of Huron East in the RFP and construction of the Brussels Fire Hall expansion and Paramedic Base.

BACKGROUND:

Prior to COVID, Brussels Paramedic crews were positioned in Huronlea Long Term Care but were required to leave because of the risk of COVID with our seniors. With this change, we secured a temporary post location at the Brussels firehall.

This location, although suitable for a temporary post, is not sustainable for a permanent home under the current configuration. In the ORH Deployment and Base Review, Brussels had been identified as requiring a better solution than the location at Huronlea, however it was slated in the plans to deal within the 2026 – 2029 (Long-Term) planning period. Due to the current COVID situation Brussels base was prioritized, and Seaforth base was delayed.

County Council directed staff as noted by this resolution from September 15th 2021 Council meeting,

The Council of the County of Huron approves the Municipality of Huron East proceeding with accessing conceptual site plans for the expansion of the Brussels Fire Hall to include Paramedic vehicle bays and associated crew quarters;

AND FURTHER THAT:

Staff report back to Huron County Council with the conceptual site plans and construction cost estimates for final approval before proceeding.

County staff have been working with the Municipality of Huron East to develop a renovation and expansion of the Brussels fire hall to include a proper Paramedic base for a long-term solution.

Once Huron East expressed an interest to expand the fire hall and build an appropriate base for the Paramedics, the process was delayed for a period of time. Huron East went through a service delivery review, which delayed moving forward on Brussels until the municipality was satisfied with the results of their internal service review.

The completed drawing for the proposed expansion of the Brussels Fire Hall and the addition of the Paramedic Base are attached.

Paramedic Base are attached.

COMMENTS:

The plans for the Paramedic portion of the expanded Fire Hall and Paramedic Base would build the addition on to the east side of the current fire hall. The new Paramedic vehicle bays would exit the building to the east onto Princess Street. There would be a new driveway constructed that would come off George Street into the rear of the building, which would allow for one (1) drive through bay for the Fire Department and two (2) drive through bays for Paramedic vehicles.

The living area of the base would include:

- Washrooms & Changerooms
- Two (2) small offices
- Crew lounge area & kitchen
- Equipment & medical supply storage rooms

The current Brussels post location is staffed 12 hours a day, seven (7) days a week, however, the crew reports to the Wingham base at the start of the shift and returns at the end of the shift. This type of arrangement means that the actual coverage time for a crew being in Brussels is reduced to about 10 hours (considering travel time to and from Wingham, plus time to prepare and clean the ambulance).

When the Brussels base is completed, it will meet the requirements for a full Paramedic Base and it will be changed to a "reporting base" meaning that the crew will report directly to Brussels for the start of their shift, thereby giving Brussels full 12-hour coverage.

As identified in the ORH report, vehicle storage will be an issue going forward, and the ORH report did not consider the Community Paramedic Program vehicles as this program is new and did not start until after the ORH report was completed. The Brussels base is proposed as a two (2) vehicle base so that we can utilize the second bay for some type of vehicle storage. This could include a spare ambulance; it could be a Community Paramedic working out of this location or could possibly even be the storage bay for the Emergency Support trailer. Regardless of what is positioned in the second bay, it is required due to the predicted growth of the Huron County Emergency Services Department.

Based on the initial drawings only, the rough estimate cost for the Paramedic portion of this project has been suggested to be between \$900,000 to \$1 million. Once a more accurate cost is available, staff would recommend that a lease agreement be negotiated with Huron East and returned to County Council for approval.

This lease would be similar to the agreement with Central Huron for the Paramedic administration offices. An agreement for the repayment of the Capital costs over a period of 5 years – 10 years is recommended in addition to a normal operating lease for a period of 5 years - 10 years.

OTHERS CONSULTED:

Steve Lund, Director of Operations
Michael Blumhagen, County Treasurer
Rob Taylor, Deputy Chief Operations

INFORMATION TECHNOLOGY IMPACTS:

FINANCIAL IMPACTS:

There are no budgeted funds in the 2023 Paramedic budget for the Brussels Paramedic Base. Staff are not aware of the estimated timing of construction with Huron East, once approved by Council, and therefore have not included any estimates in the current budget. That said, if the base is completed prior to the end of 2023 there are financial options available to Council for consideration, which could include utilizing the EMS Base reserve.

The rough estimated cost for the Paramedic portion of this project has been suggested to be between \$900,000 to \$1 million. The final amount will be negotiated into a lease agreement with Huron East.

PRIVACY IMPACTS:

CLIMATE IMPACTS:

COUNCIL PRINCIPLES:

Engaged community, Service excellence, Community-centered

SMT VALUES:

Support, Respect, Honesty

SMT MANTRAS:

Tell me how it's good for Huron County

ATTACHMENTS:

Description	Type	Upload Date	File Name
▢ Brussels Proposed Design	Backup Material	3/10/2023	Brussels_Proposed_Design.pdf
▢ Huron_County_Report_Final_2	Correspondence	3/17/2023	Huron_County_Report_Final_2.pdf

JOINT OPERATIONS CENTRE PROPOSED ADDITION

GENERAL NOTES

INDUSTRIAL USE - LOW HAZARD OCCUPANCY (F3)
ASSUMED SOIL BEARING CAPACITY = 145 kPa (3000 psf)

CLIMATIC DATA:

$$S_s = 2.6 \text{ kPa}$$
$$S_r = 0.4 \text{ kPa}$$

1/100 WIND = 0.62 kPa – POST-DISASTER BUILDING

SNOW LOAD COEFFICIENTS:

$$C_b = 0.8 ; \quad C_g = 1.0$$
$$C_S = 1.0 ; \quad C_W = 1.0$$

STRUCTURE IS DESIGNED IN ACCORDANCE WITH THE FOLLOWING CODES:

THE 2012 ONTARIO BUILDING CODE COMPENDIUM – O. REG. 332/12

THE 2012 ONTARIO BUILDING CODE COMPENDIUM O. REG. 332/
CAN3-23.3 – DESIGN OF CONCRETE STRUCTURES FOR BUILDINGS

CAN/CSA-S16.1 – STEEL STRUCTURES FOR BUILDINGS – LIMIT STATES

CAN/CSA-086.1 – ENGINEERING DESIGN IN WOOD – LIMIT STATES

USE FACTOR OF SAFETY OF
2.0 ON LIVE LOAD AND
1.25 ON DEAD LOAD

ALL SPECIFICATIONS NOTED ARE MINIMUM.
CONTRACTOR TO VERIFY ANY ADDITIONAL
REQUIREMENTS RELATED TO APPLICABLE
CODES & REGULATIONS AND CONFORM AS
REQUIRED.

OWNER IS NOT RESPONSIBLE FOR
CONTRACTOR'S FAILURE TO VERIFY ANY OR
ALL ADDITIONAL REQUIREMENTS.

CONTRACTOR IS RESPONSIBLE TO RETAIN ARCHITECT & PROFESSIONAL ENGINEER AS REQUIRED TO REVIEW DESIGN BUILD TENDER INFORMATION FOR COMPLETENESS.

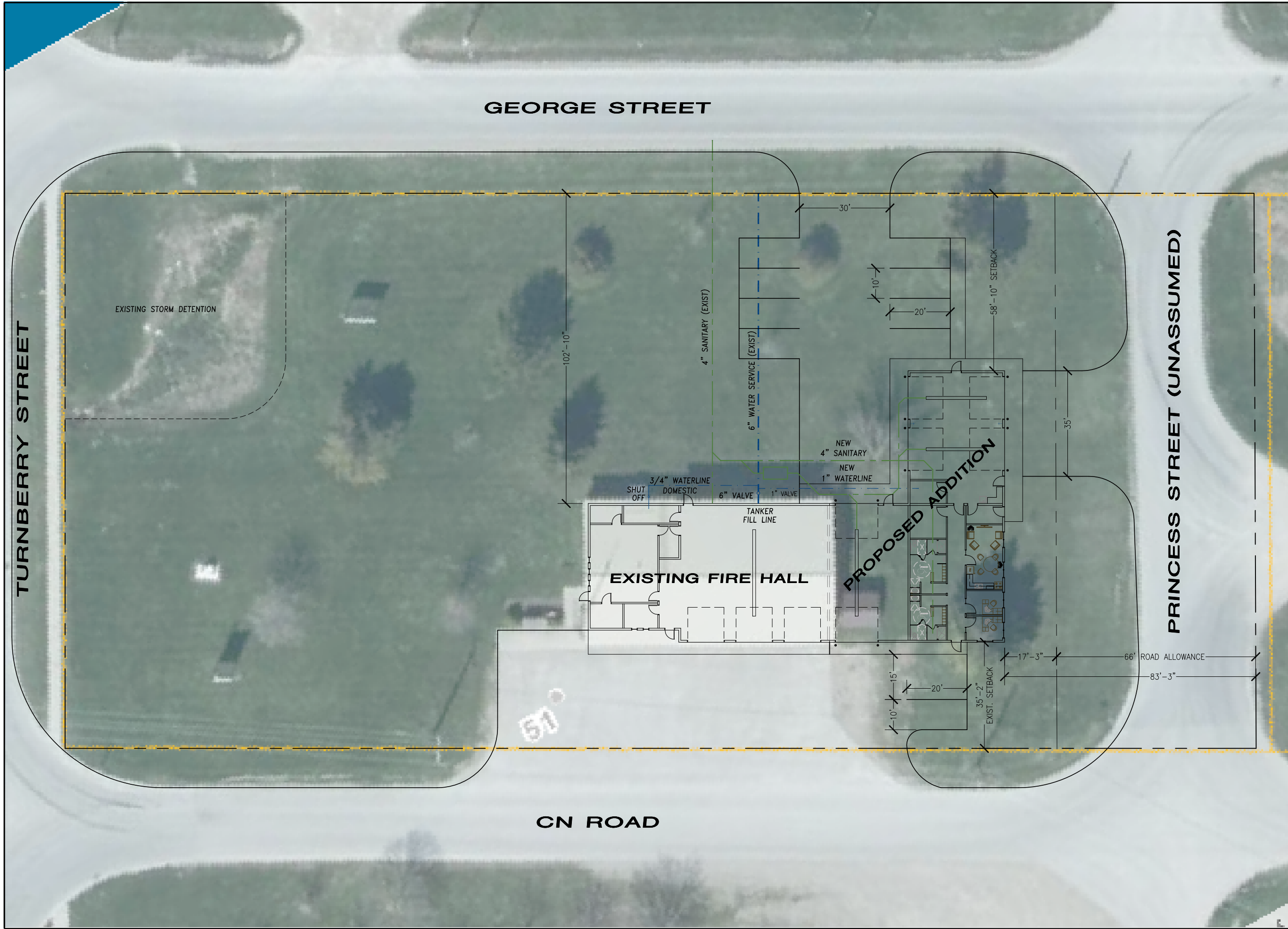
CONTRACTOR'S DESIGN PROFESSIONALS TO REVIEW
 & SEAL CONSTRUCTION DRAWINGS AND PROVIDE
 PERIODIC INSPECTIONS AS REQUIRED BY
 BUILDING CODE AND BUILDING DEPARTMENT

**DESIGN-BUILD PROPOSAL DRAWINGS
NOT FOR CONSTRUCTION**

CONTRACTOR TO APPLY FOR AND OBTAIN BUILDING PERMIT (INCLUDE ALL RELATED FEES)

[illegible]

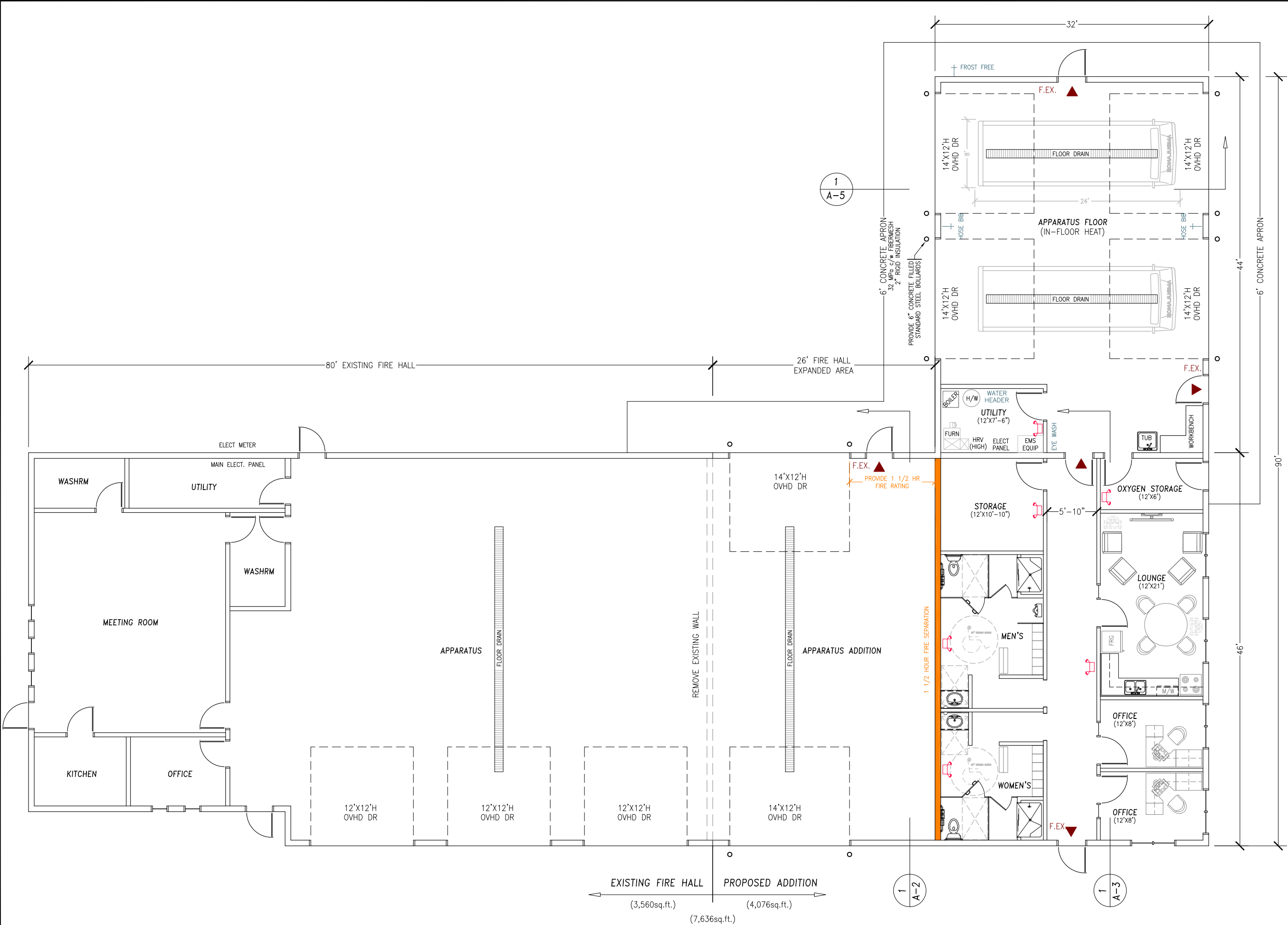
DESIGN BUILD TENDER



HURON EAST
JOINT OPERATIONS CENTRE
FIRE HALL / AMBULANCE

BRUSSELS ONTARIO

ISSUED FOR DISCUSSION		GENERAL SITE PLAN	
SCALE	1" = 1'-0"	DWG.#	SP-1
DATE	JAN 31, 2023		0



GENERAL NOTES

BUILDING TO BE DESIGNED AS POST DISASTER GROUP F – DIVISION 3; STORAGE GARAGE OFFICE, MEETING & WASHROOMS ARE ANCILLARY SPACE

BUILDING AREA = 7,636sq.ft. (710sq.m.)
BUILDING IS (2) STOREYS FACING (2) STREETS
BUILDING IS CONSTRUCTED IN CONFORMANCE TO O.B.C. 3.2.2.78.

COMBUSTIBLE CONSTRUCTION ACCEPTABLE
ALL FLOOR ASSEMBLIES TO BE FIRE SEPARATIONS WITH 45 MIN. RATING
SPRINKLERING NOT REQUIRED

ROOF & MEZZ. – NO FIRE RATING REQ'D
MAX. TRAVEL DISTANCE IN CONFORMANCE TO O.B.C. 3.4.2.5. = 98' (30m)

OCCUPANT LOADING BASED ON EXISTING
FIRE HALL = 24 PERSONS (UNCHANGED)
NO CHANGES IN WASHROOMS PROPOSED

OCCUPANT LOADING AMBULANCE ADDITION
BASED ON USE = 6 PERSONS
WATER CLOSETS REQ'D FOR INDUSTRIAL OCCUPANCIES: TABLE 3.7.4.9

PROPOSED NUMBER OF WATER CLOSETS MEETS THE OCCUPANT LOADING
ALL DIMENSIONS TO FINISHED SURFACES
NOTIFY BOTH ENGINEER & BUILDING OFFICIAL FOR FRAMING & INSULATION/VAPOUR BARRIER

INSPECTION PRIOR TO INTERIOR LINER
REFER TO MANUFACTURER SPEC'S FOR ALL ROUGH STUD OPENINGS

PROVIDE ATTIC ACCESS TO EACH ATTIC SPACE
AS PER O.B.C. 9.20.5.2. HATCH TO BE WEATHERSTRIPPED AND INSULATED WITH THE FINISH TO MATCH ADJACENT AREAS

ALL FURNISHINGS TO BE SUPPLIED & INSTALLED BY OWNER

▼ REPRESENTS SIGNED FIRE EXIT (WITH EMERGENCY LIGHTING)
F.EX. FIRE EXTINGUISHER LOCATION

CLIMATIC DATA:
 $S_s = 2.7 \text{ kPa}$
 $S_r = 0.4 \text{ kPa}$
 $1/100 \text{ WIND} = 0.50 \text{ kPa}$

SNOW LOAD COEFFICIENTS:
 $C_b = 0.8$; $C_a = 1.0$
 $C_s = 1.0$; $C_w = 1.0$

TOP CHORD DEAD LOAD = 0.75 kPa
BOT CHORD DEAD LOAD = 0.5 kPa
BOT CHORD LIVE LOAD = 0.5 kPa

SEISMIC DATA
 $S_a(0.2) = 0.120$ $S_a(1.0) = 0.051$
 $S_a(0.5) = 0.079$ $S_a(2.0) = 0.017$
PGA = 0.039

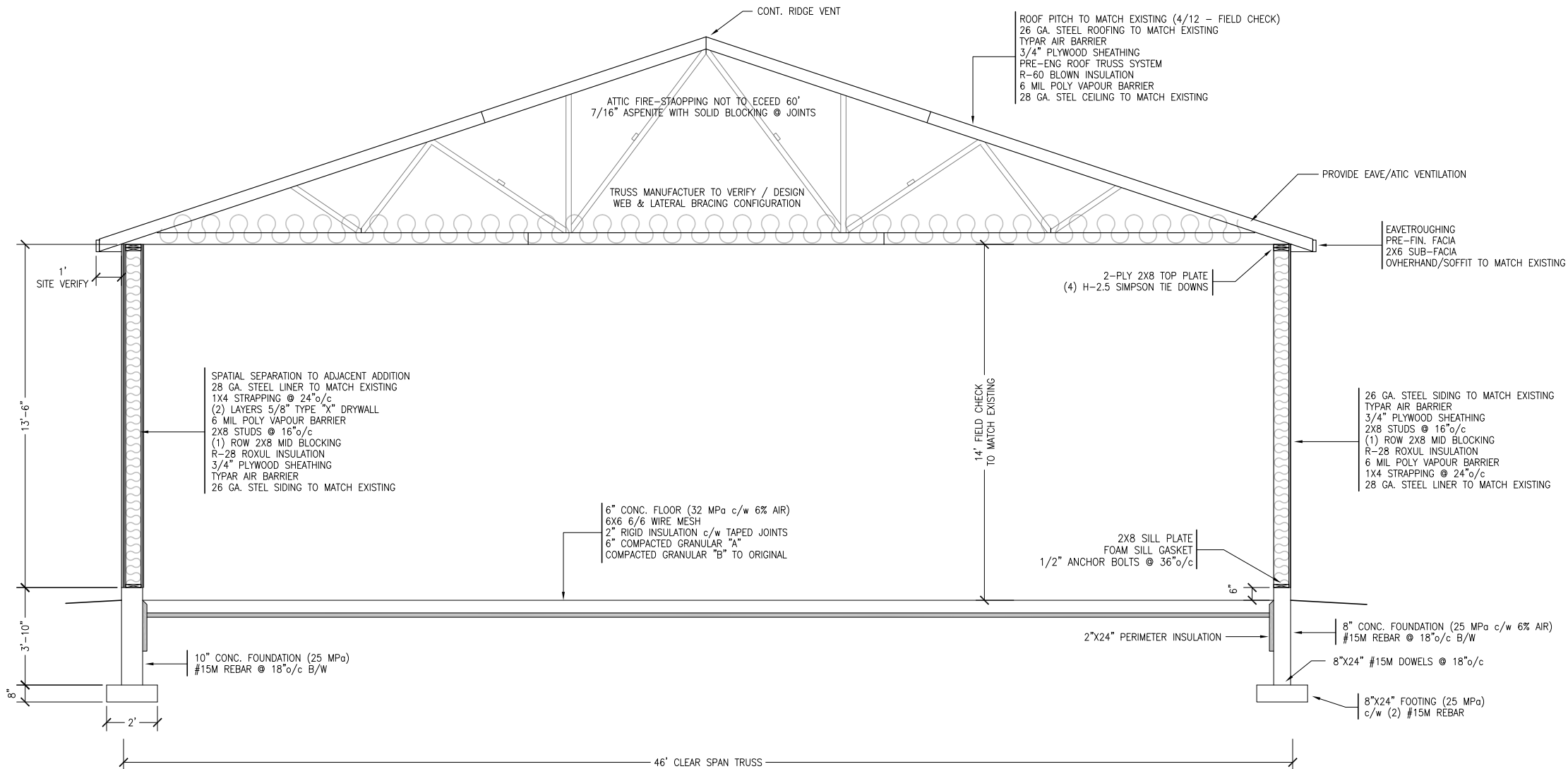
USE FACTOR OF SAFETY OF
2.0 ON LIVE LOAD AND
1.25 ON DEAD LOAD

USE FACTOR OF SAFETY OF 2.0 ON LIVE LOAD

TRUSS DESIGN

POST DISASTER DESIGN
GROUND LOADS: $S_s = 2.6 \text{ kPa}$
 $S_r = 0.4 \text{ kPa}$
 $1/100 \text{ WIND PRESSURE} = 0.62 \text{ kPa}$
SNOW LOAD FACTORS:
 $C_b = 0.8$; $C_w = 1.0$
 $C_a = 1.0$; $C_s = 1.0$
TRUSSES TO BE DESIGNED FOR UNBALANCED
LOADING WITH $C_d = 1.25$
TOP CHORD DEAD LOAD = 0.75 kPa
BOTTOM CHORD DEAD LOAD = 0.5 kPa
BOTTOM CHORD LIVE LOAD = 0.5 kPa
ALL ROOF TRUSSES TO BE SIZED AND DETAILED ON
THE TRUSS SUPPLIER'S SHOP DRAWINGS. THESE
DRAWINGS SHALL BEAR THE SIGNATURE AND
SEAL OF THE REGISTERED PROFESSIONAL ENGINEER
RESPONSIBLE FOR THEIR DESIGN.

TRUSS MEMBERS TO BE 2x4 OR GREATER.
TRUSS MANUFACTURER TO VERIFY BEARING REQUIREMENTS - IF BEARING
SHOWN IS NOT ADEQUATE, PROVIDE BEARING BRACKETS AS REQUIRED.
GRADING TO BE No. 2 S-P-F OR BETTER.
"GRADE STAMP" TO BE PRESENT ON EACH
TRUSS MEMBER - MINIMUM 1 TRUSS IN 4
PLATE PLACEMENT TOLERANCE ON DESIGN NOT
TO BE LESS THAN 1/2". WHERE POSSIBLE, ALL
CUSSET PLATES TO BE SIZED FOR CENTERING ON THE JOINT.
NO TRUSS MEMBER TO HAVE A CSI GREATER THAN 0.98
TRUSSES TO BE MANUFACTURED IN CONFORMANCE TO
ONTARIO WOOD TRUSS FABRICATOR'S ASSOCIATION QUALITY MANUAL.
TRUSS MANUFACTURER AND TRUSS ENGINEER RESPONSIBLE TO
ENSURE QUALITY CONTROL.



HURON EAST
JOINT OPERATIONS CENTRE
FIRE HALL / AMBULANCE

BRUSSELS ONTARIO

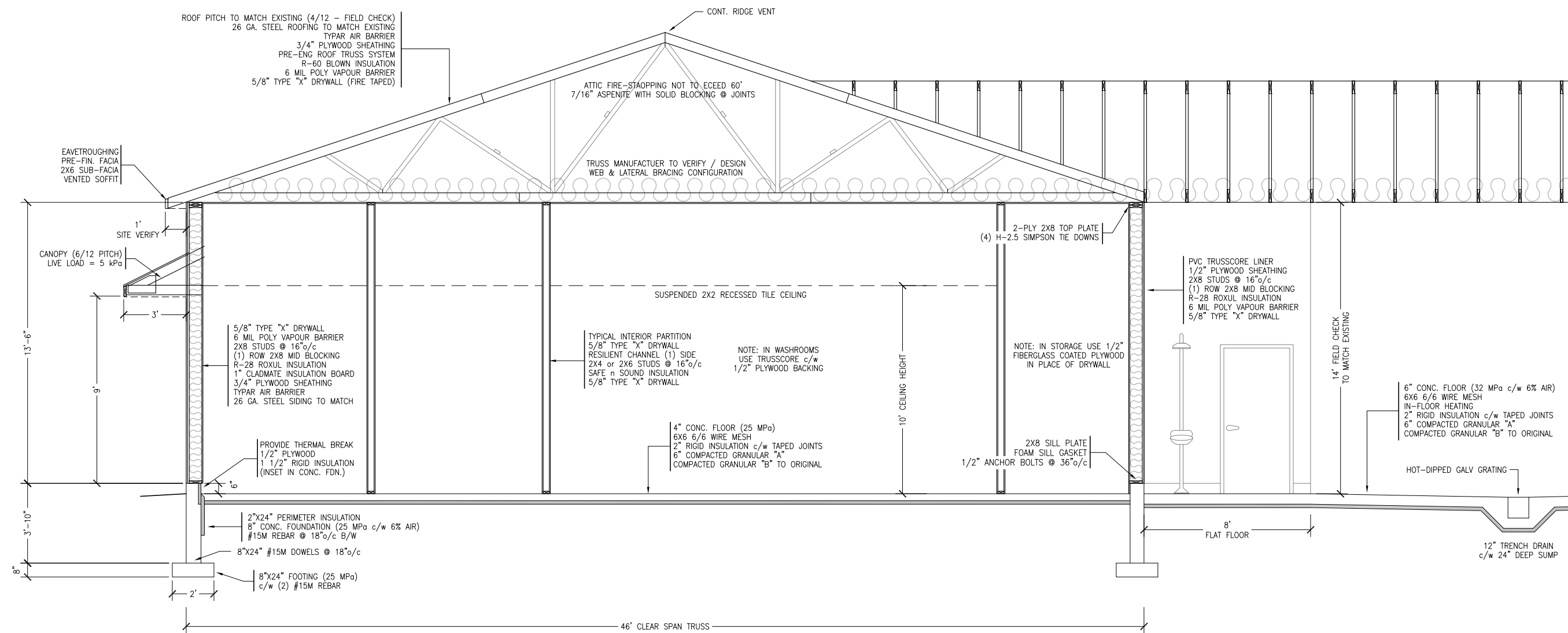
ISSUED FOR DISCUSSION		FIRE HALL SECTION	
SCALE	3/16" = 1'-0"	DWG.#	A-2
DATE	JAN 31, 2023		0

USE FACTOR OF SAFETY OF 2.0 ON LIVE LOAD

TRUSS DESIGN

POST DISASTER DESIGN
GROUND LOADS: $S_s = 2.6 \text{ kPa}$
 $S_r = 0.4 \text{ kPa}$
 $1/100 \text{ WIND PRESSURE} = 0.62 \text{ kPa}$
SNOW LOAD FACTORS:
 $C_b = 0.8$; $C_w = 1.0$
 $C_a = 1.0$; $C_s = 1.0$
TRUSSES TO BE DESIGNED FOR UNBALANCED
LOADING WITH $C_d = 1.25$
TOP CHORD DEAD LOAD = 0.75 kPa
BOTTOM CHORD DEAD LOAD = 0.5 kPa
BOTTOM CHORD LIVE LOAD = 0.5 kPa
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SHOWN IS NOT ADEQUATE, PROVIDE BEARING BRACKETS AS REQUIRED.
GRADING TO BE No. 2 S-P-F OR BETTER.
"GRADE STAMP" TO BE PRESENT ON EACH
TRUSS MEMBER - MINIMUM 1 TRUSS IN 4
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TO BE LESS THAN 1/2". WHERE POSSIBLE, ALL
CUSSET PLATES TO BE SIZED FOR CENTERING ON THE JOINT.
NO TRUSS MEMBER TO HAVE A CSI GREATER THAN 0.98
TRUSSES TO BE MANUFACTURED IN CONFORMANCE TO
ONTARIO WOOD TRUSS FABRICATOR'S ASSOCIATION QUALITY MANUAL.
TRUSS MANUFACTURER AND TRUSS ENGINEER RESPONSIBLE TO
ENSURE QUALITY CONTROL.



HURON EAST
JOINT OPERATIONS CENTRE
FIRE HALL / AMBULANCE

BRUSSELS ONTARIO

ISSUED FOR DISCUSSION		OFFICE SECTION	
SCALE	3/16" = 1'-0"	DWG.#	A-3
DATE	JAN 31, 2023		0

USE FACTOR OF SAFETY OF 2.0 ON LIVE LOAD

TRUSS DESIGN

POST DISASTER DESIGN

GROUND LOADS: $S_s = 2.6 \text{ kPa}$
 $S_r = 0.4 \text{ kPa}$

1/100 WIND PRESSURE = 0.62 kPa

SNOW LOAD FACTORS:

$C_b = 0.8$; $C_w = 1.0$

$C_a = 1.0$; $C_s = 1.0$

TRUSSES TO BE DESIGNED FOR UNBALANCED

LOADING WITH $C_a = 1.25$

TOP CHORD DEAD LOAD = 0.75 kPa

BOTTOM CHORD DEAD LOAD = 0.5 kPa

BOTTOM CHORD LIVE LOAD = 0.5 kPa

ALL ROOF TRUSSES TO BE SIZED AND DETAILED ON
THE TRUSS SUPPLIER'S SHOP DRAWINGS. THESE
DRAWINGS SHALL BEAR THE SIGNATURE AND
SEAL OF THE REGISTERED PROFESSIONAL ENGINEER
RESPONSIBLE FOR THEIR DESIGN.

TRUSS MEMBERS TO BE 2x4 OR GREATER.

TRUSS MANUFACTURER TO VERIFY BEARING REQUIREMENTS - IF BEARING
SHOWN IS NOT ADEQUATE, PROVIDE BEARING BRACKETS AS REQUIRED.

GRADING TO BE No. 2 S-P-F OR BETTER.

"GRADE STAMP" TO BE PRESENT ON EACH

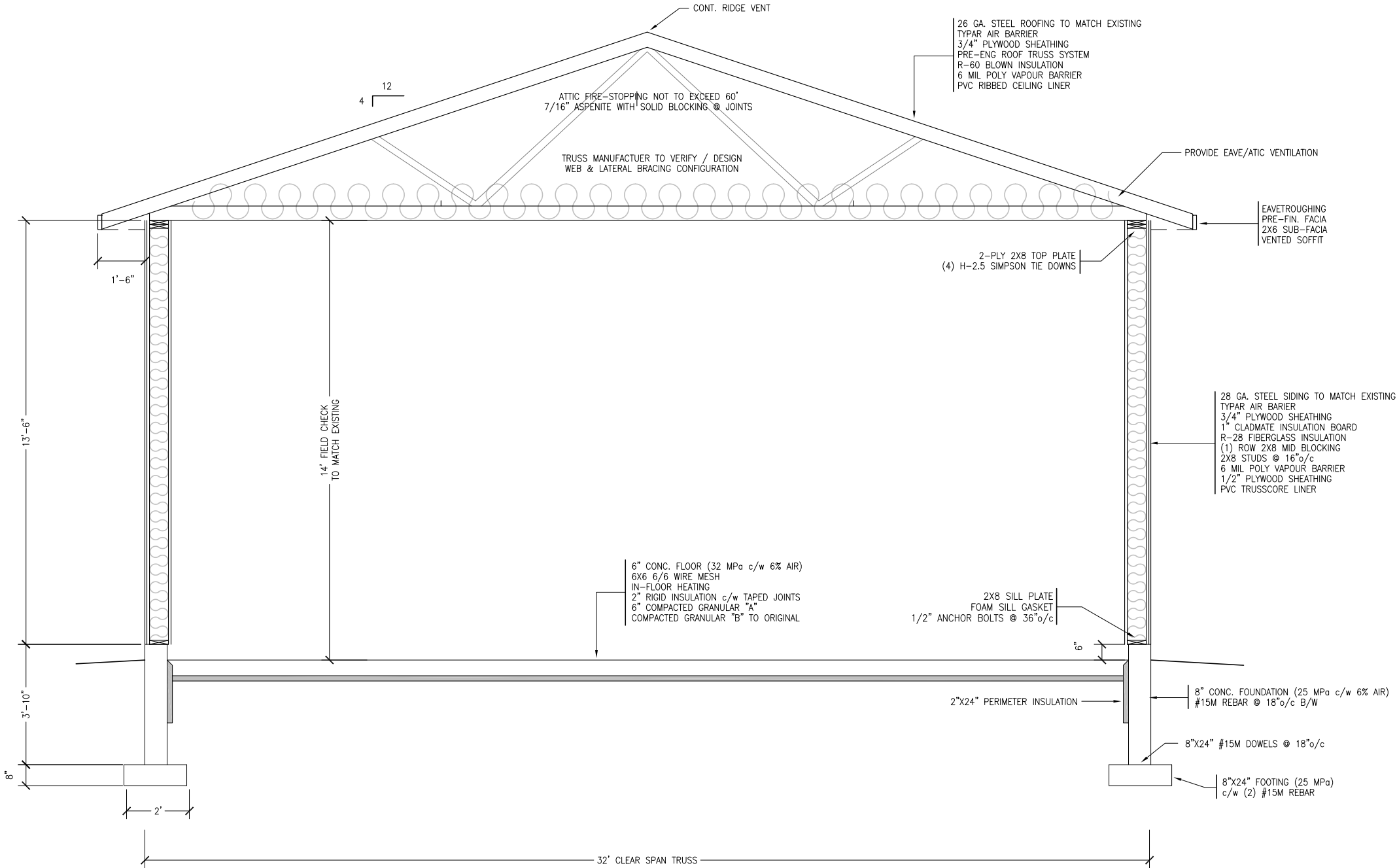
TRUSS MEMBER - MINIMUM 1 TRUSS IN 4

PLATE PLACEMENT TOLERANCE ON DESIGN NOT
TO BE LESS THAN 1/2". WHERE POSSIBLE, ALL
GUSSET PLATES TO BE SIZED FOR CENTERING ON THE JOINT.

NO TRUSS MEMBER TO HAVE A CSI GREATER THAN 0.98

TRUSSES TO BE MANUFACTURED IN CONFORMANCE TO
ONTARIO WOOD TRUSS FABRICATOR'S ASSOCIATION QUALITY MANUAL.

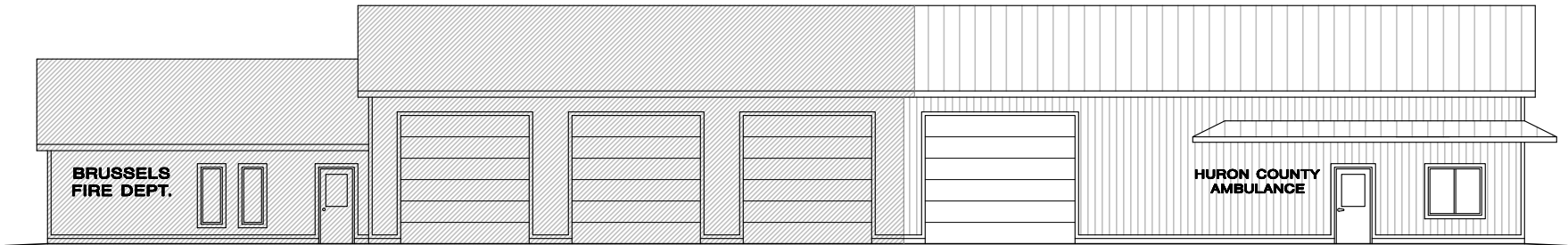
TRUSS MANUFACTURER AND TRUSS ENGINEER RESPONSIBLE TO
ENSURE QUALITY CONTROL.



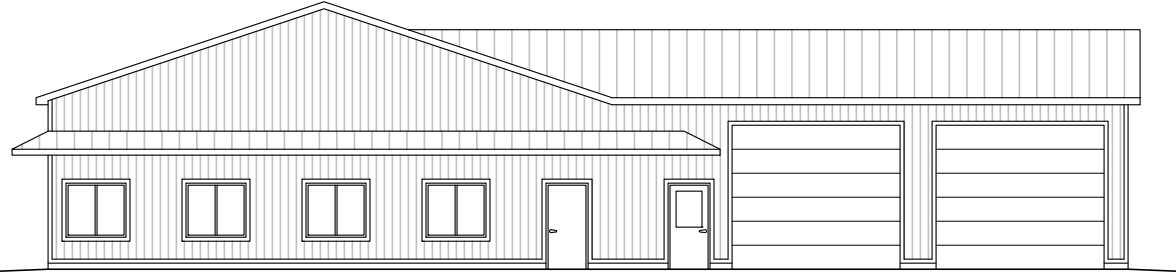
HURON EAST
JOINT OPERATIONS CENTRE
FIRE HALL / AMBULANCE

BRUSSELS ONTARIO

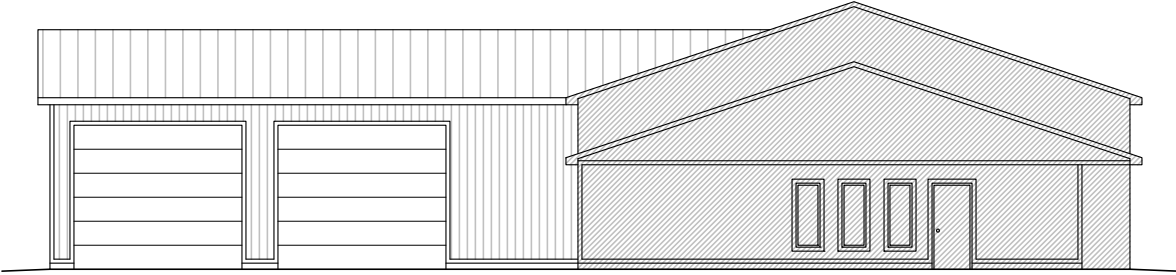
ISSUED FOR DISCUSSION		AMBULANCE SECTION	
SCALE	1/4" = 1'-0"	DWG.#	A-4
DATE	JAN 31, 2023		0



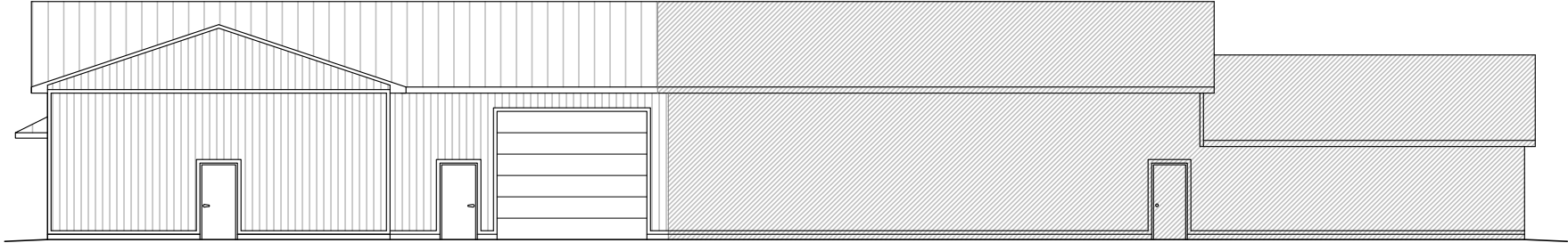
SOUTH ELEVATION



EAST ELEVATION



WEST ELEVATION



NORTH ELEVATION

***HURON EAST
JOINT OPERATIONS CENTRE
FIRE HALL / AMBULANCE***

ISSUED FOR DISCUSSION		ELEVATIONS	
SCALE	1/16" = 1'-0"	DWG.#	A-5
DATE	JAN 31, 2023		0

Huron East Administration

To: Mayor MacLellan and Members of Council

From: Brad McRoberts, MPA, P. Eng.

Date: April 4, 2023

Subject: BMGCC Renovation Update

Recommendation:

That the Council of the Municipality of Huron East receive for information purposes.

Background:

The Brussels, Morris & Grey Community Centre Renovation project has been underway since fall of 2022. The following provides a summary of the status of the project from both a construction standpoint and from a financial standpoint.

The project has been posed with unforeseen challenges due to either unknown and undocumented existing conditions or unknown and undocumented construction methods used in the existing structure.

Issues

The following provides a summary of the issues that have arisen during the process of construction:

1. Exterior storm drainage lines – early on in the project it was discovered that the roof drains were discharged to underground drain lines that ran along the east and south sides of the building ultimately discharging to the existing municipal drain on the south west corner of the property. As these drain lines ran under the entire area of the proposed expansion they need to be redirected and rerouted in new stormwater drains – Cost \$104,527;
2. Following removal of the exterior finishes at the east elevation for the proposed opening at the Warm Viewing Area, it was discovered that the existing exterior wall assembly is comprised of 4" hollow core unreinforced concrete block rather than 6" reinforced concrete block as specified in the original design drawings dated June 1977. It was also discovered that the existing 4" hollow concrete block was fastened to the existing metal siding for lateral support. In addition, the existing columns throughout the east elevation were found to be light gauge cold formed steel rather than structural steel columns. Unfortunately, the existing light gauge cold formed steel columns are not structurally sufficient for the proposed opening for the proposed Warm Viewing Area. Due to the existing conditions, the proposed opening for the Warm Viewing Area had to be reconfigured and redesigned incorporating web stiffener plates at the structural steel beams to

- support the existing exterior wall assembly, one (1) additional structural steel column, and light gauge steel stud framing to support the existing exterior wall assembly above the Warm Viewing Area opening. Cost - still pending;
3. Following removal of localized sections of the exterior finishes at the south elevation, it was discovered that the existing exterior wall assembly is comprised of 4" hollow core unreinforced concrete block rather than 6" reinforced concrete block as specified in the original design drawings dated June 1977. It was also discovered that the existing 4" hollow concrete block was fastened to the existing metal siding for lateral support. The existing 4" hollow core unreinforced concrete block was not tied into or connected to the existing structural steel girts, beams, or columns. This was a significant structural concern and lateral bracing was required to stabilize the upper portion of the south elevation before work at the South Addition could proceed. Light gauge steel stud framing to support the existing 4" hollow core unreinforced concrete block is to be provided at the interior face of the existing exterior wall assembly secured to the existing roof purlins, structural steel girts and columns, and horizontal light gauge steel z-girts. Cost - \$57,109
 4. Exterior fill under the proposed expansion was deemed unsuitable a structural fill to support the expansion structure and need to be removed, disposed and replaced with structural fill – Cost \$57,124
 5. Miscellaneous modifications – Cost \$21,685

Schedule

While the project has been delayed due to both weather and the unforeseen existing conditions noted above the contractor is now targeting late summer for the completion of work. Work on the kitchen and existing lobby area will be undertaken as per the original schedule as it fits into the reduced need for access to the dressing rooms and ice surface at this time of year.

Others Consulted: Elgin Contracting, Architect and engineering consultants, building sub-committees members, BMGCC Recreation Manager, CBO, and Building Inspector.

Financial Impacts: Based upon approved and pending Change Orders to date the \$280,000 contingency for the project has been or will be fully depleted. While the project is moving from a stage of integration with existing conditions to one of continuing the build out as designed, change orders resulting from unforeseen or unexpected issues are likely to diminish in number and cost, we still have fixtures, furnishings and equipment (FFE) to account for that are not included in the original tender. Items that would be included in this consist of seating for the warm viewing area, furniture, tables and seats for the lobby, equipment for the concession, etc. While generally minor these will need to be acquired on or before the project is operational.

Fortunately, the fundraising campaign was successful and portions of those funds will need to be used to offset any additional change orders and FFE purchases. The total raised through the fundraising campaign has exceeded \$2.5 M which is more than \$500,000 above than the original commitment of \$2,000,000 (less fundraising costs).

There had been consideration of an opportunity to reduce project cost by elimination of an interior masonry wall along the south side of the existing building, however, after consultation with the building sub-committee, the option was rejected due to concerns with lack of guarantee that the existing south exterior wall could be suitably repaired and refinished without deterioration of the surface over the long term - Potential savings (~\$23,000) - declined.

Signatures:

Brad McRoberts (Original signed)

Brad McRoberts, MPA, P. Eng.
CAO

Good News

FunTECH Brings Skilled Trades to Students at Home and Stratford Home Show

Communications Manager Chera Longston shared that grade 6 students were invited to participate in a program called FunTECH - March Break Edition. Students could choose between four types of kits - culinary (making pizzas with a cast iron pan); carpentry (learning careful measurement through the construction of a wooden whiteboard); transportation (building a propeller car to maximize distance travelled, testing tread depth and measuring tire pressure); and sewing (sewing a drawstring bag). Each kit contained the activity along with some tools required for the trade. Kits also provided information about the Ontario Youth Apprenticeship Program (OYAP) which allows secondary students enrolled in cooperative education the opportunity to start an apprenticeship while still in high school. These kits were a great way for parents and students to work together on an experiential learning project that helps students learn more about themselves and their interests. [This video](#) highlights a few of the participants!

In addition, Vice Chair Michael Bannerman reported that Pathways Coordinators Jodi Froud and Keith Edwards hosted an interactive booth at this past weekend's Stratford Home & Leisure Show using leftover materials from the FunTECH kits. They were joined by six student volunteers from Stratford District SS and they received a number of comments from parents and grandparents who were impressed with how the students interacted with their children. One parent said: "...the students (and staff) that helped my two children were wonderful. So patient, informative and kind. Both my children were so proud of what they made." (Andrew Mugford, parent of two Shakespeare PS students). A huge thank you to Jodi and Keith and the SDSS students: Annie Broughton, Janelle Smith-Tulloch, Kensington Ische, Sarah Bean, Caden Diehl, and Lev Crumback.



FE Madill SS Girls' Hockey Team Wins OFSAA Bronze

Superintendent Paul Langis was pleased to share that the FE Madill Girls' Hockey team finished with a bronze medal at the recent OFSAA tournament. They defeated Manotick's St. Mark High School with a score of 4-2. Amazing accomplishment, Mustangs!! He also highlighted that other school athletic accomplishments are covered in our "Our Schools in the News" feature which is posted every 6-8 weeks on the [Communications and Media Relations page](#) of the board's website.



Support for Student with Family Impacted by Earthquake

Superintendent Laura Marotta shared about a student who recently arrived in Canada who was personally affected by the earthquakes in Syria and Turkey, and who spoke to an AMDSB Mental Health counsellor. His biggest wish was to get his family to Canada but he didn't know where to start. The counsellor connected him with the Multicultural Association of Perth-Huron to begin the process. He later shared a [Stratford Beacon Herald article](#) highlighting his experience.

Grade 8 Student Wins Free Throw Competition



Trustee Deborah Logue was pleased to share that Austin Meade, a grade 8 student at Clinton PS won the Regional Free Throw Competition in London earlier this month. In order to qualify, Austin won first place at the Goderich competition, then first place at the District competition in Clinton before taking the top spot at the Regional finals in London. Way to go Austin!

Student Senator Chosen to Visit Ottawa through Rotary Club

Trustee Sheila Armstrong-Marshall was happy to share that Student Senator Nathan Bean (SDSS) was among 150 student chosen from across Canada to visit Ottawa as part of the [Adventure in Citizenship program](#). The group of grade 11 and 12 students will visit the Parliament buildings, speak to the House

Speaker, visit a university and museum and participate in a number of other opportunities.
Congratulations Nathan!

Staff Presentation

Update on the Director's Work Plan

Superintendents April Smith and Kathy Boyd presented information about the comprehensive literacy plan that involves work to address recommendations from the [Ontario Human Rights Commission's Right to Read Inquiry](#) and the Ministry of Education's [Effective Early Reading Instruction: A Teacher's Guide](#). The Program and Learning Services Departments are working together on these initiatives. This goal is connected to the I AM Prepared section of the [Director's Work Plan \(DWP\)](#).

Student Trustee Update

Student Trustee Abigail Peel reported that the Senate is planning a Student Senator orientation night to help transition new Senators into the role. They also continue to work on Truth and Reconciliation initiatives but will report further about that at the next meeting.

Future Board Meetings

Meetings that include Regular Sessions will be hosted in person at the Education Centre in Seaforth (62 Chalk St. N.) with the option for connecting online. Members of the public are welcome to attend the Regular Board Meeting sessions (in person or online). Meeting details (including online meeting links and agenda packages) are posted on the [Board Meeting page](#).

- Tuesday, April 4, 2023: Committee of the Whole, Open Session
- Tuesday, April 25, 2023: Committee of the Whole, Closed Session at 4:45 p.m. and Regular Board Meeting at 6:00 p.m.
- Tuesday, May 9, 2023: Committee of the Whole, Open Session
Tuesday, May 23, 2023: Committee of the Whole, Closed Session at 4:45 p.m. and Regular Board Meeting at 6:00 p.m.

Future Meetings/Events with Trustee Representation

- Trustee Awards and Recognition – Wednesday, March 29, 2023
- Joint Health and Safety – Thursday, March 30, 2023
- School Year Calendar – Tuesday, April 4, 2023
- Accessibility for Ontarians with Disabilities Act – Wednesday, April 5, 2023 at 3:00 p.m. (via MS Teams)
- Special Education Advisory Committee – Wednesday, April 5, 2023 at 4:00 p.m. (via MS Teams)
- Parent Involvement Committee – Wednesday, April 19, 2023 at 6:30 p.m. (via MS Teams)

SAUGEEN VALLEY CONSERVATION AUTHORITY

Minutes

Meeting: Authority Meeting
Date: Thursday, February 16, 2023, 1:00 p.m.
Location: Administration Office, Formosa, ON
Chair: Barbara Dobreen

Members present: Paul Allen, Larry Allison, Kevin Eccles, Bud Halpin, Tom Hutchinson, Steve McCabe, Dave Myette, Mike Niesen, Sue Paterson, Moiken Penner, Jennifer Prenger, Bill Stewart, Peter Whitten

Members absent: Greg McLean

Delegates present: Glen Sheppard, Marsh Canada Ltd., Sean-Michael Stephen, Watson and Associates, Carl Seider, Drinking Water Source Protection

Staff present: Jennifer Stephens, Erik Downing, Donna Lacey, Elise MacLeod, Laura Molson, Janice Hagan, Ashley Richards

Chair Barbara Dobreen called the meeting to order at 1:00 p.m.

1. Land Acknowledgement

The Land Acknowledgement was read by Paul Allen:

We begin our meeting today by respectfully acknowledging the Anishinaabeg Nation, the Haudensaunee, the Neutral, and the Petun peoples as the traditional keepers of this land. We are committed to moving forward in the spirit of reconciliation with First Nations, Métis, and Inuit peoples.

2. Adoption of Agenda

At the request of the Chair, Items 7 c-f were removed from the Consent Agenda and placed under Item 8, New Business to allow for discussion.

Motion #G23-17

Moved by Tom Hutchinson

Seconded by Kevin Eccles

THAT the SVCA Board of Directors adopt the agenda for the Authority meeting on February 16, 2023, as amended.

Carried

3. Declaration of Pecuniary Interest

No persons declared a pecuniary interest relative to any item on the agenda.

4. Adoption of Authority meeting minutes – January 19, 2023

Motion #G23-18

Moved by Bill Stewart

Seconded by Steve McCabe

THAT the SVCA Board of Directors adopt the minutes of the Authority meeting, January 19, 2023, as presented.

Carried

5. Presentations

a. Marsh Insurance

Glen Sheppard, Vice President of Marsh Canada Ltd, gave a presentation which summarized the current insurance coverage for SVCA directors and officers. He reviewed legal duties and obligations of the members, as well as risk management and prevention of incidents.

b. User Fee Review

Sean-Michael Stephen, Watson and Associates, submitted the completed User Fee review with the goal of assessing the Environmental Planning and Regulations full cost of plan review and permitting services. He submitted recommended fee changes for annual revenue and cost recovery. The Authority is advised to monitor regulatory changes to prepare for implementation of the recommended fees in 2024.

c. Corporate Services

Laura Molson presented an orientation session to the Directors regarding the Corporate Services department's functions and responsibilities.

d. Drinking Water Source Protection

Carl Seider presented an orientation session regarding the Drinking Water Source Protection Program and the obligations of municipalities and the SVCA Board of Directors under the *Clean Water Act, 2006*.

6. General Manager's Report

Jennifer Stephens provided an update to Board and noted that she has been meeting with municipal CAOs to discuss the Inventory of Programs and Services with a goal of having municipal agreements for nonmandatory services in place by July 2023. Jennifer also discussed Bill 23: *More Homes, More Choices Act* and noted that staff have been conducting meetings with the

municipalities to discuss their new roles and responsibilities in natural heritage commenting and to assist with transition planning.

7. Consent agenda

Motion #G23-19

Moved by Sue Paterson

Seconded by Bill Stewart

THAT the reports and information contained in the Consent Agenda, [Item7a-c], along with their respective recommended motions be accepted as presented.

Carried

8. New Business

a. Strategic Plan Update

Jennifer Stephens provided an update on the Strategic Plan initiative and reported that the overarching theme is organizational excellence. She presented the proposed mandate and vision statements.

Motion #G23-20

Moved by Paul Allen

Seconded by Steve McCabe

THAT the proposed new vision and mandate statement as outlined be endorsed.

Carried

b. 2023 Workplan

Jennifer Stephens presented the 2023 Operational Workplan outlining the overall goals and tasks for each department. The workplan also includes target dates for recommended strategic activities.

Motion #G23-21

Moved by Bill Stewart

Seconded by Moiken Penner

THAT the proposed 2023 SVCA Workplan be endorsed.

Carried

c. Standing Committees Terms of Reference

The Terms of Reference (ToR) for the Water Resources, Forestry, and Property and Parks Committees were presented to the Authority for approval. The members requested that the ToR be amended to include a review (Item 9) at the beginning of each new term for the Authority.

Motion #G23-22

Moved by Tom Hutchinson

Seconded by Kevin Eccles

THAT the proposed Terms of Reference for the Water Resources, Forestry, and Property and Parks Committees be endorsed as amended.

d. Provincial Offences Officer Designation

Erik Downing reported that Trent Francis, Regulations Officer, and Jilliana Wiersma, Lands Technician have both fulfilled the requirements for the Provincial Offences Officer (POO) designation. It was recommended that both staff members be designated as SVCA POO officers.

Motion #G23-23

Moved by Larry Allison

Seconded by Bud Halpin

THAT SVCA Regulations Officer Trent Francis be designated by the SVCA Board of Directors as a Provincial Offences Officer for the purpose of enforcing Section 28 of the *Conservation Authorities Act*; and

FURTHER THAT SVCA Lands Technician Jilliana Wiersma be designated by the SVCA Board of Directors as a Provincial Offences Officer for the purpose of enforcing Section 29 of the *Conservation Authorities Act*.

Carried

e. Request for Endorsement: Permits Issued

Motion #G23-24

Moved by Jennifer Prenger

Seconded by Bill Stewart

THAT the Development, Interference with Wetlands and Alterations to Shorelines and Watercourse applications (23-007-23-012), pursuant to Ontario Regulation 169/06, as approved by staff, be endorsed.

Carried

f. Policies

i. Accommodation Policy

Motion #G23-25

Moved by Larry Allison

Seconded by Bud Halpin

That the Saugeen Valley Conservation Authority approve the proposed Accommodation Policy.

Carried

ii. Work from Home Policy

Motion #G23-26

Moved by Peter Whitten

Seconded by Steve McCabe

That the Saugeen Valley Conservation Authority approve the Remote Work Program on a permanent basis.

Carried

9. Closed Session – To discuss a pending acquisition of land by the Authority.

Motion #G23-27

Moved by Bud Halpin

Seconded by Moiken Penner

THAT the Authority move to Closed Session, In Camera, to discuss a pending acquisition of land by the Authority; and further

THAT Jennifer Stephens, Donna Lacey, and Janice Hagan remain in the meeting.

Carried

Motion #G23-31

Moved by Kevin Eccles

Seconded by Mike Niesen

THAT the Authority adjourn from Closed Session, In Camera and rise and report.

Carried

Chair Dobreen reported that only the items pertaining to the acquisition of land by the Authority were discussed in the Closed Session and that staff were given direction.

Adjournment

There being no further business, the meeting adjourned at 3:38 p.m. on motion of Sue Paterson and Kevin Eccles.

Barbara Dobreen
Chair

Janice Hagan
Recording Secretary

January 25, 2023

Members Present: Alison Lobb, Alvin McLellan, Matt Duncan, Kevin Freiburger, Megan Gibson, Dave Turton, Evan Hickey, Myles Murdock, Ed McGugan, Anita van Hittersum, Andrew Fournier

Others Present: Ed Podniewicz, Cory Bilyea

Staff Present: Phil Beard, General Manager-Secretary-Treasurer
Danielle Livingston, Financial Services Coordinator
Jayne Thompson, Communications Coordinator

1. Call to Order:

Chair Duncan welcomed everyone and called the meeting to order at 7pm.

2. Declaration of Pecuniary Interest:

There were no pecuniary interests.

3. Minutes:

The minutes from the Maitland Valley Conservation Authority (MVCA) General Membership Meeting #11-2022 held on December 21, 2022 have been circulated for information and approval. The Members agreed with the minutes and the following motion was made.

Motion FA #1-23

Moved by: Alvin McLellan

Seconded by: Dave Turton

THAT the minutes from the General Membership meeting #11-2022 held on December 21, 2022 be approved.
(carried)

4. Business out of the Minutes:

- a) Implementing Regulations Bill 23 re: conservation authorities: Report #1-2023

Report #1-2023 was presented and the following motion was made:

Motion FA #2-23

Moved by: Dave Turton

Seconded by: Megan Gibson

THAT Report #1-23 be accepted for information purposes.
(carried)

5. Presentation: 2022 Work Plan Highlights:

Jayne Thompson made a presentation on the 2022 work plan highlights.

6. Business Requiring Direction and or Decision:

- a) Review of Members 2022 Work Plan: Report #2-2023

Report #2-2023 was presented and the following motion was made:

Motion FA #3-23

Moved by: Myles Murdock

Seconded by: Ed McGugan

THAT Report #2-2023 is accepted as presented.
(carried)

- b) Year End Revenue/Expenditure Review: Report #3-2023

Report #3-2023 was presented and the following motion was made:

Motion FA #4-23

Moved by: Dave Turton

Seconded by: Alvin McLellan

THAT the year-end surpluses and deficits outlined in Report #3-2023 be directed to the appropriate accumulated surplus categories;
AND THAT all deferred revenue be directed to the projects identified in the 2023 draft budget.
(carried)

c) Review of Members Manual: Report #4-2023

Report #4-2023 was presented and the following motion was made:

Motion FA #5-23

Moved by: Ed McGugan

Seconded by: Alison Lobb

THAT the Members Manual for 2023 be adopted.

AND THAT the term “closed” be inserted in the manual to replace “in camera”.
(carried)

d) Declarations for Chair & Vice Chairs: Report #5-2023

Report #5-2023 was presented for information purposes.

Ed McGugan indicated interested in running for first Vice-Chair and Matt Duncan expressed interest in running for the position of Chair.

e) Final Agenda for Annual Meeting: Report #6-2023

Report #6-2023 was presented and the following motion was made:

Motion FA #6-23

Moved by: Evan Hickey

Seconded by: Anita van Hittersum

THAT the agenda for the Annual Meeting be adopted with the addition of staff introductions;

AND THAT a presentation on forest health be included as well as a presentation on the Maitland Conservation Foundation’s fundraising campaign.
(carried)

7. Consent Agenda

The following items were circulated to the Members for their information:

- a) Agreements signed: Report #7-2023
- b) Revenue/Expenditure Report for December: Report #8-2023
- c) Correspondence for Information

The following motion was made:

Motion FA #7-23

Moved by: Dave Turton

Seconded by: Evan Hickey

THAT Report #7-2023 through Report #8-2023 along with their respective recommended motions as outlined in the Consent Agenda is approved.
(carried)

8. Chair and Members Reports

Dave Turton reported that he attended the ROMA convention in Toronto and noted that Conservation Ontario had a display at the convention. He also noted that the planning director for Huron County and Sid Van Der Veen from R.J. Burnside and Associates were on a panel that outlined stewardship projects undertaken through the Huron Clean Water Project that MVCA helps to deliver.

9. Adjournment - Next Meeting Date, Wednesday, February 15, 2023, at 2:00pm. Meeting to be held at the Wroxeter Hall.

The members meeting adjourned at 8:10 pm with the following motion:

Motion FA #8-23

Moved by: Alison Lobb

Seconded by: Dave Turton

THAT the members meeting be adjourned.
(carried)

Matt Duncan
Chair

Phil Beard
General Manager
Secretary-Treasurer

February 8, 2023

Members Present: Alison Lobb, Alvin McLellan, Matt Duncan, Kevin Freiburger, Dave Turton, Evan Hickey, Myles Murdock, Ed McGugan, Anita van Hittersum

Regrets: Andrew Fournier, Megan Gibson

Others Present: Ed Podniewicz, Cory Bilyea

Staff Present: Phil Beard, General Manager-Secretary-Treasurer
Jeff Winzenried, Flood Forecasting Coordinator

1. Call to Order:

Chair Duncan welcomed everyone and called the meeting to order at 7:02pm.

2. Declaration of Pecuniary Interest:

There were no pecuniary interests.

3. McGuffin Gully Erosion Control Engineering Assessment Project: Report #8-2023

Report #8-2023 was presented and the following motion was made:

Motion FA #9-23

Moved by: Myles Murdock

Seconded by: Evan Hickey

THAT the McGuffin Gully Erosion Control Structure Assessment Project be included in MVCA's 2023 budget;
AND THAT the Chair and Vice Chair be authorized to approve the engineering firm for this project and report back to the Members at the March 15th meeting.
(carried)

**4. Adjournment - Next Meeting Date, Wednesday, February 15, 2023, at 2:00pm.
Meeting to be held at the Wroxeter Hall.**

The members meeting adjourned at 7:15pm with the following motion:

Motion FA #10-23

Moved by: Ed McGugan

Seconded by: Anita Van Hittersum

THAT the members meeting be adjourned.
(carried)

Matt Duncan
Chair

Phil Beard
General Manager
Secretary-Treasurer

DRAFT Annual Meeting of the Membership #3-2023

Wroxeter Community Hall, Wroxeter, Ontario

February 15, 2023

Members Present:	Matt Duncan, Alison Lobb, Ed McGugan, Kevin Freiburger, Anita van Hittersum, Alvin McLellan, Myles Murdock, Evan Hickey, Sharen Zinn, Andrew Fournier
Members Absent:	Dave Turton, Megan Gibson, Ed Podniewicz
Staff Present:	Phil Beard, Jayne Thompson, Stewart Lockie, Cheryl Dobbyn, Dave Nuhn, Jason Moir, Barry Skinn, Anna Soleski, Erica Magee, Sarah Gunnewiek, Erin Gouthro, Patrick Huber-Kidby, Karlene Zurbrigg
Others in Attendance:	Kriss Snell – Chair, MCF; Larry Allison – Huron-Kinloss, John Thompson & Liz Petrie – Town of Goderich, Jennifer Stephens – SVCA, Roger Watt, Cheryl Matheson, , Deb Shewfelt, Jim Campbell, Vince Judge, , Glen McNeil, Warden – Huron County, Dave Burns, Robert McEachern, Dianne Dosman, Shirley Moore, Marg Beard, Jodi Snell, David Yates, Cory Bilyea, Matthew Rae, Evan Carey, Richard Keeso

1. Welcome and Remarks by the Chair, Matt Duncan

Chair Duncan called the meeting to order at 2:00pm and welcomed everyone to MVCA's 72nd Annual Meeting.

He reviewed the meeting objectives which were as follows:

Presentation of Staff Service Awards
Presentation to Retiring Members
Election of Officers
Presentation: Forest Health in the Watershed

2. Introduction of the Members of Maitland Conservation for 2023

Chair Duncan invited all the Members of the Maitland Valley Conservation Authority introduce themselves and the Municipalities that they represent.

3. Introduction of guests: Matt Duncan introduced the following guests:

He introduced Glen McNeil-Warden of the County of Huron; Jim Ginn, Mayor of Central Huron; Mathew Ray, MPP and Jennifer Stephens, GM SVCA.

4. Chairs Remarks:

I have had the honour of serving as MVCA's Chair for the past year. It has been a privilege and an honour to work with the members over that time. We have accomplished a lot and we have developed a strong plan for the future. Some of the highlights include:

- Developing a services and programs agreement with 14 out of 15 member municipalities; On behalf of the Members, I would like to thank our member municipalities for their support. The approval of this agreement allows MVCA to plan our work for the next four years.
- The completion of phase 2 of the restoration of the Gorrie Conservation area for watershed residents to enjoy. I would especially like to thank the Township of Howick for developing the trail along the north side of the conservation area.
- The completion of the Scott Municipal Drain Watershed Restoration project. This project started in 2005 and was completed in 2022. The municipal drain has now been restored as a brook trout stream and with the support of North Huron and Bruce Power these works have been incorporated into the municipal drain report.
- OMAFRA and MECP's continuing leadership and support for the Healthy Lake Huron collaborative. It is a model for how Federal, Provincial can work with conservation authorities, counties, and other community groups to improve the health and resiliency of the rivers and streams that flow into Lake Huron. This work also helps to improve the water quality along the nearshore of Lake Huron, so that we will have fewer beach closures due to poor water quality.

I would like to especially thank our MPP's Lisa Thompson and Matthew Rae for their willingness to meet and to help champion the work of rural conservation authorities. Your support and assistance is appreciated, especially as we navigate our way through the changes to the conservation authorities act.

To our member municipalities, I would like to thank you for your continued support of MVCA over the past year. We appreciate your willingness to support our work and to work in partnership with us. We can accomplish a lot when we work together.

These are challenging times for both municipalities and conservation authorities. I would like to thank the Maitland Conservation Foundation and the John Hindmarsh Environmental Trust Fund Board for their continuing efforts to raise money to help MVCA to upgrade the infrastructure in our conservation areas and to use for restoring natural areas across the watershed.

I would also like to thank the staff for their dedication, commitment, and perseverance as we navigate the changes to the conservation act. Your professionalism and work ethic are appreciated by me and all the members.

5. Introduction of New Staff:

Matt Duncan introduced Anna Soleski, Environmental Planner-Regulations Officer and Karleen Zurbrigg, Environmental Planner-Regulations Officer to the members.

6. Presentation of Staff Service Awards: Ed McGugan, Vice Chair

Ed McGugan made a presentation to the following staff and thanked them for their years of service with the authority.

- a) Patrick Huber-Kidby, Planning & Regulations Supervisor: 5 years
- b) Erin Gouthro, Watershed Ecologist: 10 years
- c) Cheryl Dobbryn, Clerk: 15 years
- d) Jayne Thompson, Communications-IT-GIS Coordinator: 30 years

7. Presentation to Retiring Members: Roger Watt, Kevin Freiburger, Cheryl Matheson, and Dave Turton

Chair Duncan made a presentation to Roger Watt, Kevin Freiburger, Cheryl Matheson and thanked them for their years of service with the MVCA Members. The Chair noted that Dave Turton was unable to attend the meeting and that a presentation would be made to him at a later date.

8. Election of Officers (Maitland Conservation and Maitland Source Protection Authority)

- a) Appointment of Presiding Officer and Scrutineers
- b) Election of Chair for 2023
- c) Election of Vice Chair for 2023
- d) Election of 2nd Vice Chair for 2023

Chair Duncan called for an appointment of a Presiding Officer for the election of Chair.

Motion FA #11-2023

Moved by: Alison Lobb

Seconded by: Myles Murdock

THAT Matthew Rae act as the Presiding Officer for the election of Chair, Vice and Second Vice for the Maitland Valley Conservation Authority (MVCA) and the Maitland Source Protection Authority (MSPA).
(carried)

- a) Appointment of Scrutineers by Presiding Officer

Presiding Officer Rae declared all offices vacant and called for a motion to appoint two Scrutineers.

Motion FA #12-2023

Moved by: Anita van Hittersum

Seconded by: Alison Lobb

THAT Deb Shewfelt and Jim Campbell be appointed as Scrutineers for the election of officers;
AND THAT the Scrutineers be responsible for destroying ballots after the election if needed.
(carried)

b) Election of Chair for 2022

Presiding Officer Rae called for nominations for the position of Chair for the Maitland Valley Conservation Authority and the Maitland Source Protection Authority for 2023.

Motion FA #13-2023

Moved by: Ed McGugan

THAT Matt Duncan be nominated for Chair of the MVCA and the MSPA for 2023.

Presiding Officer Rae called for nominations for the Chair position two more times. There were no further nominations and the Presiding Officer called for a motion to close nominations.

Motion FA #14-2023

Moved by: Andrew Fournier

Seconded by: Myles Murdock

THAT nominations for the position of Chair of the Maitland Valley Conservation Authority and Maitland Source Protection Authority for 2022 be closed.
(carried)

Matt Duncan agreed to stand for the position of Chair in 2023.

Presiding Officer, Rae declared Matt Duncan as the Chair of the MVCA and MSPA for 2023.

c) Election of Vice-Chair for 2023

Chair, Duncan called for nominations for the position of Vice-Chair of the Maitland Valley Conservation Authority and Maitland Source Protection Authority for 2023.

Motion FA #15-2023

Moved by: Alvin McLellan

THAT Ed McGugan be nominated for Vice-Chair of the Maitland Valley Conservation Authority and Maitland Source Protection Authority for 2023.

Presiding Officer, Duncan called for further nominations for Vice-Chair two more times and no others were made so then called for a motion to close nominations.

Motion FA #16-2023

Moved by: Alison Lobb

Seconded by: Evan Hickey

THAT nominations for the position of Vice-Chair of the Maitland Valley Conservation Authority and Maitland Source Protection Authority for 2023 be closed.
(carried)

Ed McGugan accepted the Vice-Chair position.

Chair, Duncan declared Ed McGugan as Vice-Chair of the Maitland Valley Conservation Authority and Maitland Source Protection Authority for 2023.

d) Election of 2nd Second Vice-Chair for 2023

Chair, Duncan called for nominations for the position of 2nd Vice-Chair of the Maitland Valley Conservation Authority and Maitland Source Protection Authority for 2023.

Motion FA #17-2023

Moved by: Alison Lobb

THAT Evan Hickey be nominated for 2nd Vice-Chair of the Maitland Valley Conservation Authority and Maitland Source Protection Authority for 2023.

Chair, Duncan called for further nominations for 2nd Vice-Chair and this motion was made.

Motion FA #18-2023

Moved by: Myles Murdock

Seconded by: Ed McGugan

THAT nominations for the position of 2nd Vice-Chair of the Maitland Valley Conservation Authority and Maitland Source Protection Authority for 2023 be closed.
(carried)

Presiding Officer, Duncan declared Evan Hickey as 2nd Vice-Chair of the Maitland Valley Conservation Authority and Maitland Source Protection Authority for 2022.

9. “We Are Inspired by Nature” Campaign Update: Kriss Snell, Chair, Maitland Conservation Foundation

Thank you for the invitation to address MVCA’s Members and guests this afternoon.

The Maitland Conservation Foundation (MCF) works in partnership with Maitland Valley Conservation Authority to raise funds to improve the health of forests, rivers across the watershed as well as to improve infrastructure located in MVCA's 28 conservation areas. The Foundation is a registered, charitable organization that is led by a volunteer Board of Directors.

The MCF has been raising funds for significant local projects since its incorporation in 1975. Citizens and businesses can contribute to projects that protect and restore the health and resiliency of forests and rivers.

The MCF has developed the "We are Inspired by Nature" Campaign to raise funds in two areas:

1. Restoring natural areas in flood plains, river valleys and along rivers and streams; as well as to restore the health of forests throughout the watershed. This work is needed to help natural areas develop the resiliency it needs to cope with the impacts of an increasingly unstable climate.

2. Improving Accessibility to Nature by developing and improving infrastructure, such as boardwalks, bridges, and trails in MVCA's conservation areas.

We have set a target of raising \$650,000 over the next five years through this campaign.

Some of the major projects that we are raising money for include:

- a) The construction on a picnic shelter at Wawanosh Valley Conservation Area
- b) The forest health assessment

The MCF raised a total of just over \$82,000 in 2022 that can be directed to supporting projects in 2023. We have set a target of raising another \$80,000 in 2023. I encourage all of you to support the "We are Inspired by Nature" campaign. Future generations will thank you for investing in nature! Remember: Where Nature Thrives – People thrive. Nature is vital to our health and well-being! I would be happy to meet with you and show you how your investment in this campaign helps to improve the health of rivers, forests and people. Information about our campaign is available at our display table located at the side of the hall. Thank you.

10. Presentation: Forest Health in the Watershed: Erin Gouthro, Watershed Ecologist

Erin Gouthro made a very informative presentation on Forest Health in the watershed to all of the members and guests.

11. Adoption of Meeting Schedule for 2023: Report #9-2023

Report #9-2023 was presented to the members and the following motion was made:

Motion FA #19-2023

Moved by: Sharen Zinn

Seconded by: Anita van Hittersum

THAT the meeting schedule for 2023 be approved as outlined in Report #9-2023
(carried)

12. Closing Remarks: Chair, MVCA

In closing I thank the members for their support over the last year and I look forward to working with the new members in 2023. Chair, Duncan then thanked everyone for attending the Maitland Valley Conservation annual meeting and asked everyone to stay for a social time after the meeting is adjourned.

13. Adjournment: Next meeting date: March 15, 2023, at 7:00 pm

The meeting adjourned at 3:34pm with the following motion:

Motion FA #20-2023

Moved by: Alvin McLellan

Seconded by: Ed McGugan

THAT the meeting be adjourned.
(carried)

Matt Duncan
Chair

Phil Beard
General Manager Secretary Treasurer



March 21, 2023.

Municipality of Morris-Turnberry
Attn: Trevor Hallum - CAO/Clerk
PO Box 310
41342 Morris Road, RR 4
Brussels, Ontario
N0G 1H0

Dear Mr. Hallum

Re: 2023 General Levy - Maitland Valley Conservation Authority

At the Maitland Valley Conservation Authority member's meeting held on March 15th, 2023, the 2023 general levy \$1,850,181.00 was passed.

In accordance with Section 27 of the Conservation Authorities Act, the levies for each municipality have been apportioned on the basis of the discounted equalized assessment figures supplied to us by the Province of Ontario. An invoice is enclosed for Morris-Turnberry's portion, \$97,207.00 as shown in the schedule of levies.

If further information concerning your apportionment is required, please advise your Conservation Authority representative and feel free to contact me with any questions.

Please find attached a copy of MVCA's Auditor's Report and Financial Statements for 2022.

Thank you for your continued support throughout 2022 and we look forward to working with you in 2023.

Sincerely,

Maitland Valley Conservation Authority

A handwritten signature in black ink, appearing to read "Danielle Livingston".

Danielle Livingston
Administrative and Financial Services Coordinator

Enclosures
cc. Sharen Zinn, MVCA Director
cc. Sean Brophy
/cd

MAITLAND VALLEY CONSERVATION AUTHORITY
FINANCIAL STATEMENTS
DECEMBER 31, 2022

SEEBACH & COMPANY
Chartered Professional Accountants

INDEPENDENT AUDITOR'S REPORT

To the Members of Maitland Valley Conservation Authority

Opinion

We have audited the accompanying financial statements of Maitland Valley Conservation Authority ("the Authority"), which are comprised of the statement of financial position as at December 31, 2022 and the statements of operations, changes in net financial assets and cash flows for the year then ended, and notes to the financial statements, including a summary of significant accounting policies.

In our opinion, the accompanying financial statements present fairly, in all material respects, the financial position of the Authority as at December 31, 2022, and its financial performance and its cash flows for the year then ended in accordance with Canadian public sector accounting standards (PSAB).

Basis for Opinion

We conducted our audit in accordance with Canadian generally accepted auditing standards. Our responsibilities under those standards are further described in the *Auditor's Responsibilities for the Audit of the Financial Statements* section of our report. We are independent of the Authority in accordance with the ethical requirements that are relevant to our audit of the financial statements in Canada, and we have fulfilled our other ethical responsibilities in accordance with these requirements. We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our opinion.

Responsibilities of Management and Those Charged with Governance for the Financial Statements

Management is responsible for the preparation and fair presentation of the financial statements in accordance with PSAB, and for such internal control as management determines is necessary to enable the preparation of financial statements that are free from material misstatement, whether due to fraud or error.

In preparing the financial statements, management is responsible for assessing the Authority's ability to continue as a going concern, disclosing, as applicable, matters related to going concern and using the going concern basis of accounting unless management either intends to liquidate the Authority or to cease operations, or has no realistic alternative but to do so.

Those charged with governance are responsible for overseeing the Authority's financial reporting process.

Auditor's Responsibilities for the Audit of the Financial Statements

Our objectives are to obtain reasonable assurance about whether the financial statements as a whole are free from material misstatement, whether due to fraud or error, and to issue an auditor's report that includes our opinion. Reasonable assurance is a high level of assurance, but is not a guarantee that an audit conducted in accordance with Canadian generally accepted auditing standards will always detect a material misstatement when it exists. Misstatements can arise from fraud or error and are considered material if, individually or in the aggregate, they could reasonably be expected to influence the economic decisions of users taken on the basis of these financial statements.

INDEPENDENT AUDITOR'S REPORT (continued)

As part of an audit in accordance with Canadian generally accepted auditing standards, we exercise professional judgment and maintain professional skepticism throughout the audit. We also:

- Identify and assess the risks of material misstatement of the financial statements, whether due to fraud or error, design and perform audit procedures responsive to those risks, and obtain audit evidence that is sufficient and appropriate to provide a basis for our opinion. The risk of not detecting a material misstatement resulting from fraud is higher than for one resulting from error, as fraud may involve collusion, forgery, intentional omissions, misrepresentations, or the override of internal control.
- Obtain an understanding of internal control relevant to the audit in order to design audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the Authority's internal control.
- Evaluate the appropriateness of accounting policies used and the reasonableness of accounting estimates and related disclosures made by management.
- Conclude on the appropriateness of management's use of the going concern basis of accounting and, based on the audit evidence obtained, whether a material uncertainty exists related to events or conditions that may cast significant doubt on the Authority's ability to continue as a going concern. If we conclude that a material uncertainty exists, we are required to draw attention in our auditor's report to the related disclosures in the financial statements or, if such disclosures are inadequate, to modify our opinion. Our conclusions are based on the audit evidence obtained up to the date of our auditor's report. However, future events or conditions may cause the Authority to cease to continue as a going concern.
- Evaluate the overall presentation, structure and content of the consolidated financial statements, including the disclosures, and whether the consolidated financial statements represent the underlying transactions and events in a manner that achieves fair presentation.

We communicate with those charged with governance regarding, among other matters, the planned scope and timing of the audit and significant audit findings, including any significant deficiencies in internal control that we identify during our audit.

Seebach & Company

Chartered Professional Accountants
Licensed Public Accountants

Clinton, Ontario
March 15, 2023

MAITLAND VALLEY CONSERVATION AUTHORITY
STATEMENT OF FINANCIAL POSITION

As at December 31	2022	2021
FINANCIAL ASSETS		
Cash	847,836	1,497,500
Short-term investments (note 3)	328,987	325,860
Accounts receivable	97,779	74,999
	<u>1,274,602</u>	<u>1,898,359</u>
LIABILITIES		
Accounts payable and accrued liabilities	57,093	44,943
Deferred revenue (note 4)	142,767	214,219
	<u>199,860</u>	<u>259,162</u>
NET FINANCIAL ASSETS	1,074,742	1,639,197
NON-FINANCIAL ASSETS		
Tangible capital assets, net (note 6)	2,764,737	1,792,451
Prepayments	18,091	14,534
	<u>2,782,828</u>	<u>1,806,985</u>
ACCUMULATED SURPLUS	<u>\$ 3,857,570</u>	<u>\$ 3,446,182</u>

On behalf of the Members:

The accompanying notes are an integral part of this financial statement

MAITLAND VALLEY CONSERVATION AUTHORITY
STATEMENT OF OPERATIONS

For the year ended December 31	2022 Budget	2022 Actual	2021 Actual
Revenue			
Municipal			
Municipal levies	1,925,404	1,925,404	1,646,682
Government Grants			
NDMNRF transfer payment	95,653	85,653	162,195
Other provincial	180,848	149,936	132,510
Federal	141,455	54,116	169,678
Partnership agreements	493,488	621,619	499,407
Authority Generated			
User fees, sales and admissions	1,293,225	1,039,498	1,098,120
Interest income	15,000	45,177	16,199
Donations and fundraising	61,407	104,487	179,937
Facility rentals	4,800	4,792	4,748
Deferred revenue - prior year	-	214,219	247,661
Deferred revenue - current year	-	(142,767)	(214,219)
	<u>4,211,280</u>	<u>4,102,134</u>	<u>3,942,918</u>
Expenditure			
Conservation land management	1,702,325	762,643	1,074,499
Flood safety services	795,583	774,648	590,868
Watershed stewardship	1,504,480	1,276,539	1,319,887
Corporate services	1,251,558	747,578	709,665
Amortization	-	129,338	92,818
	<u>5,253,946</u>	<u>3,690,746</u>	<u>3,787,737</u>
Annual surplus (deficit)	(1,042,666)	411,388	155,181
Opening balance	<u>3,446,182</u>	<u>3,446,182</u>	<u>3,291,001</u>
Closing balance	<u><u>\$ 2,403,516</u></u>	<u><u>\$ 3,857,570</u></u>	<u><u>\$ 3,446,182</u></u>

The accompanying notes are an integral part of this financial statement

MAITLAND VALLEY CONSERVATION AUTHORITY
STATEMENT OF CHANGE IN NET FINANCIAL ASSETS

For the year ended December 31	2022 Actual	2021 Actual
Annual surplus (deficit)	411,388	155,181
Amortization of tangible capital assets	129,338	92,818
Net acquisition of tangible capital assets	(1,101,624)	(84,998)
Decrease (increase) in inventory and prepaid expenses	(3,557)	(2,077)
Increase (decrease) in net financial assets	(564,455)	160,924
Opening balance	1,639,197	1,478,273
Closing balance	\$ 1,074,742	\$ 1,639,197

The accompanying notes are an integral part of this financial statement

MAITLAND VALLEY CONSERVATION AUTHORITY
STATEMENT OF CASH FLOWS

For the year ended December 31	2022	2021
Operating activities		
Annual surplus (deficit)	411,388	155,181
Amortization expense not requiring cash outlay	129,338	92,818
Decrease (increase) in accounts receivable	(22,780)	32,881
Increase (decrease) in accounts payable	12,150	(1,509)
Increase (decrease) in deferred revenue	(71,452)	(33,442)
Decrease (increase) in inventory and prepaid expenses	(3,557)	(2,077)
Cash provided by (used for) operating activities	<u>455,087</u>	<u>243,852</u>
Capital activities		
Net disposals (purchases) of tangible capital assets	<u>(1,101,624)</u>	<u>(84,998)</u>
Cash provided by (used for) capital activities	<u>(1,101,624)</u>	<u>(84,998)</u>
Investing activities		
Decrease (increase) in short-term investments	<u>(3,127)</u>	<u>(30,725)</u>
Cash provided by (used for) investing activities	<u>(3,127)</u>	<u>(30,725)</u>
Increase (decrease) in cash position	(649,664)	128,129
Cash (overdraft) beginning of year	<u>1,497,500</u>	<u>1,369,371</u>
Cash (overdraft) end of year	<u><u>\$ 847,836</u></u>	<u><u>\$ 1,497,500</u></u>

The accompanying notes are an integral part of this financial statement

MAITLAND VALLEY CONSERVATION AUTHORITY

NOTES TO FINANCIAL STATEMENTS

For the year ended December 31, 2022

The Maitland Valley Conservation Authority ("the Authority") is established under the Conservation Authorities Act of Ontario to further the conservation, restoration, development and management of natural resources, other than gas, oil, coal and minerals, for the watersheds within its area of jurisdictions. The watersheds include areas in the Municipalities of Central Huron, Huron East, Morris-Turnberry and South Bruce, the Townships of Ashfield-Colborne-Wawanosh, Howick, North Huron, Perth East, West Perth, Mapleton, Wellington North and Huron-Kinloss, and the Town of Goderich, North Perth and Minto.

The Authority is a registered charity and is exempt from income taxes.

1. Accounting policies

The financial statements have been prepared by the management of the Authority in accordance with generally accepted accounting principles for organizations operating in the local government sector as recommended by the Public Sector Accounting Board (PSAB) of the Chartered Professional Accountants of Canada.

Significant aspects of accounting policies adopted by the Authority are as follows:

a) **Accrual basis of accounting**

Revenues and expenses are reported on the accrual basis of accounting. The accrual basis of accounting recognizes revenues as they are earned and measurable, and recognizes expenditures as they are incurred and measurable as a result of receipt of goods or services and the creation of a legal obligation to pay.

b) **Portfolio investments**

Investments are recorded at cost less amounts written off to reflect a permanent decline in value.

c) **Vehicles and equipment**

The Authority operates a motor pool of vehicles and equipment. Internal charges for the use of vehicles and equipment are made to the various projects of the Authority based on an hourly or distance travelled rate, which is designed to recover all costs of operating the pool including replacement of vehicles and equipment.

These internal charges are included in the appropriate expense classifications. Expenditures incurred by the motor pool for the purchase of equipment and the operating cost and the recovery of expenses by internal charges are reported in the statement of operations and surplus.

1. Accounting policies (continued)

d) **Tangible capital assets**

Tangible capital assets are recorded at historical cost. Historical cost includes the costs directly related to the acquisition, design, construction, development, improvement or betterment of tangible capital assets. Cost includes overheads directly attributable to construction and development.

Tangible capital asset, except land, are amortized on a straight-line basis over the estimated useful lives as follows:

Category	Amortization Period
Land	not applicable
Land improvements	5 years
Buildings	5 - 75 years
Contents	5 - 50 years
Equipment	5 - 40 years
Furniture	45 - 50 years
Vehicles	5 - 10 years
Machinery	6 - 44 years
Information technology	5 - 9 years

Dams for the purposes of water control are not recorded as assets of the Conservation Authority.

e) **Contributed capital assets**

Contributed capital assets are recognized as assets and revenue at fair value at the time they are received.

f) **Deferred revenue**

Revenue restricted by legislation, regulation or agreement and not available for Authority purposes is reported as deferred revenue on the statement of financial position. The revenue is reported on the statement of financial activities in the year in which it is used for the specified purpose.

g) **Revenue recognition**

Restricted contributions are recognized as revenue in the year in which the related expenses are incurred. Unrestricted contributions are recognized in revenue when received or receivable if the amount can be reasonably estimated and collection is reasonably assured.

h) **Government transfers**

Government transfers are recognized in the financial statements as revenues in the period in which events giving rise to the transfer occur, providing the transfers are authorized, any eligibility criteria have been met, and reasonable estimates can be made.

i) **Classification of expenses**

Expenses are reported in four main categories based on the type of services provided. Within these categories, expenses are broken down into operations and projects.

j) **Accumulated surplus**

Appropriations are made from operations to accumulated surplus for future expenditures and contingencies for such amounts as are deemed appropriate, upon approval of the Membership.

1. Accounting policies (continued)

k) Use of estimates

The preparation of financial statements in conformity with Canadian public sector accounting standards requires management to make estimates and assumptions that affect the reported amounts of assets and liabilities and disclosure of contingent assets and liabilities at the date of the financial statements, the reported amounts of revenues and expenditures during the period, and the accompanying notes. Due to the inherent uncertainty in making estimates, actual results could differ from those estimates.

2. Cash

Interest is paid on the Authority's bank accounts at the bank's monthly average prime rate less 1.7%.

3. Short-term portfolio investments

The Authority has purchased fixed income investments that have a cost of \$328,987 (2021 : \$325,860) and have a market value of \$330,729 (2021 : \$325,646) at year end.

4. Deferred revenue

The balance of the long-term liabilities reported on the consolidated statement of financial position is made up of the following:

	2022	2021
Garvey/Glenn project	34,590	42,271
Stewardship short term projects	8,120	8,119
Middle Maitland Headwaters Restoration	95,222	130,427
Carbon Footprint Initiative	3,326	3,317
Healthy Lake Huron	7,009	15,000
Nature Based Climate Solutions	(21,073)	-
Forest Health	16,401	29,620
Stewardship ONFARM Project	(828)	(14,535)
	<u>\$ 142,767</u>	<u>\$ 214,219</u>

5. Pension plan

Some employees of Maitland Valley Conservation Authority are members of a defined benefit pension plan (OMERS). Contributions made during the year on behalf of the employees amounted to \$138,799 (2021 : \$127,656) and have been included as an expense on the statement of operations.

6. Tangible capital assets

For additional information, see the Schedule of Tangible Capital Assets information on the tangible capital assets of the Authority by major class, as well as for accumulated amortization of the assets controlled.

7. Expenditures by object

	2022	2021
Salaries and benefits	\$ 1,706,625	\$ 1,761,741
Operating goods and services	1,854,783	1,933,178
Amortization	129,338	92,818
	<u>\$ 3,690,746</u>	<u>\$ 3,787,737</u>

8. Financial instrument risk management

Credit risk

The Authority is exposed to credit risk through its cash, trade and other receivables, and short-term investments. There is the possibility of non-collection of its trade and other receivables. The majority of the Authority's receivables are from users and government entities. For trade and other receivables, the Authority measures impairment based on how long the amounts have been outstanding. For amounts outstanding considered doubtful or uncollectible, an impairment allowance is setup.

Liquidity risk

Liquidity risk is the risk that the Authority will not be able to meet its financial obligations as they fall due. The Authority has a planning and a budgeting process in place to help determine the funds required to support the Authority's normal operating requirements on an ongoing basis. The Authority ensures that there are sufficient funds to meet its short-term requirements, taking into account its anticipated cash flows from operations and its holdings of cash and cash equivalents. To achieve this aim, it seeks to maintain an available line of credit balance as approved by the Membership, at a minimum, expected requirements.

Market risk

Market risk is the risk that changes in market prices, such as foreign exchange rates or interest rates will affect the Authority's income or the value of its holdings of financial instruments. The objective of market risk management is to control market risk exposures within acceptable parameters while optimizing return on investments.

Interest rate risk

Interest rate risk is the risk that the fair value or future cash flows of a financial instrument will fluctuate because of changes in market interest rates. The Authority is exposed to interest rate risk arising from the possibility that changes in interest rates will affect the variable rate of temporary borrowings and long-term liabilities and the value of fixed rate long-term liabilities.

There has been no significant changes from the previous year in the exposure to risk or policies, procedures and methods used to measure risks.

9. Budget amounts

Under Canadian public sector accounting standards, budget amounts are to be reported on the statement of operations for comparative purposes. The 2022 budget amounts for the Maitland Valley Conservation Authority approved by the Membership are unaudited and have been restated to conform to the basis of presentation of the revenues and expenditures on the consolidated statement of activities.

10. Financial impact of COVID-19 pandemic

On March 11, 2020 the World Health Organization declared COVID-19 a global pandemic. Subsequently, the Province of Ontario issued a state of emergency limiting the number of people in a gathering and requiring rolling closures and lockdowns of non-essential business for an indeterminate period of time. The dynamic nature of the COVID-19 crisis makes it impossible to predict the impact this will have on the organization's operations, cash flows and financial position. The Membership and management will continue to monitor the situation and reflect the impact in the financial statements as appropriate.

MAITLAND VALLEY CONSERVATION AUTHORITY
Schedule of Continuity of Accumulated Surplus
For the Year Ended December 31, 2022

	Balance, beginning of year	From Operations	To Operations	Balance, end of year
Internally restricted surplus				
Vehicle and equipment purchases	119,642	4,561	(2,310)	121,893
Insurance deductible	25,000			25,000
Working capital	687,028	444,837	(448,711)	683,154
Short Term Disability	38,000			38,000
Forestry management	60,378	52,703	-	113,081
Falls Reserve Conservation Area	702,159		(616,539)	85,620
Wawanosh Park Conservation Area	21,524	4,561	-	26,085
	<u>1,653,731</u>	<u>506,662</u>	<u>(1,067,560)</u>	<u>1,092,833</u>
Tangible capital assets	<u>1,792,451</u>	<u>972,286</u>		<u>2,764,737</u>
	<u><u>\$ 3,446,182</u></u>	<u><u>1,478,948</u></u>	<u><u>(1,067,560)</u></u>	<u><u>\$ 3,857,570</u></u>

MAITLAND VALLEY CONSERVATION AUTHORITY
Schedule of Tangible Capital Assets
For the Year Ended December 31, 2022

	Land	Land Improvements	Buildings & Infrastructure	Contents	Furniture	Vehicles	Machinery	Equipment	Information Technology	TOTAL Net Book Value 2022	TOTAL Net Book Value 2021
Cost											
Balance, beginning of year	1,220,137	6,394	846,242	30,229	17,786	322,332	84,287	312,541	152,685	2,992,633	2,916,868
Add: Additions during the year			1,011,893			46,183		6,000	37,548	1,101,624	84,998
Less: Disposals during the year						(24,675)			(13,930)	(38,605)	(9,233)
Balance, end of year	<u>1,220,137</u>	<u>6,394</u>	<u>1,858,135</u>	<u>30,229</u>	<u>17,786</u>	<u>343,840</u>	<u>84,287</u>	<u>318,541</u>	<u>176,303</u>	<u>4,055,652</u>	<u>2,992,633</u>
Accumulated Amortization											
Balance, beginning of year		6,394	469,512	24,323	10,917	270,320	60,060	247,160	111,496	1,200,182	1,116,597
Add: Amortization during the year			63,084	336	368	25,848	7,121	16,460	16,121	129,338	92,818
Less: Accumulated amortization on disposals						(24,675)			(13,930)	(38,605)	(9,233)
Balance, end of year	<u>-</u>	<u>6,394</u>	<u>532,596</u>	<u>24,659</u>	<u>11,285</u>	<u>271,493</u>	<u>67,181</u>	<u>263,620</u>	<u>113,687</u>	<u>1,290,915</u>	<u>1,200,182</u>
Net Book Value											
of Tangible Capital Assets	<u>1,220,137</u>	<u>-</u>	<u>1,325,539</u>	<u>5,570</u>	<u>6,501</u>	<u>72,347</u>	<u>17,106</u>	<u>54,921</u>	<u>62,616</u>	<u>\$ 2,764,737</u>	<u>\$ 1,792,451</u>

MAITLAND VALLEY CONSERVATION AUTHORITY
SCHEDULE OF EXPENSES

For the year ended December 31	2022 Budget	2022 Actual	2021 Actual
Conservation Area Services			
Falls Reserve Conservation Area	494,543	444,633	445,817
Management, development and operations	250,665	228,159	186,567
Motor pool	15,000	14,883	14,232
Wawanosh Park Conservation Area	16,330	9,811	7,317
Conservation Area Projects			
Falls Reserve Conservation Area	806,887	17,029	24,220
Gorrie Conservation Area	35,400	30,323	360,332
Vehicle/equipment replacement	50,000	1,386	5,911
Forest management	4,000	3,501	24,602
Brussels Conservation Area	21,500	7,850	3,203
Carbon offset, footprints to forests, and naturalization	1,000	368	166
Wawanosh Valley Conservation	2,000	-	346
Naftel's Creek	5,000	4,700	1,786
Total Conservation Area	<u>1,702,325</u>	<u>762,643</u>	<u>1,074,499</u>
 Flood Protection Services			
Regulations	280,047	271,015	255,724
Flood and erosion control structures	7,714	5,719	7,204
Flood forecasting and warning	242,441	251,347	232,415
Ice management, hazard prevention and information	84,381	40,497	69,363
Flood Safety Projects			
Flood safety equipment	181,000	206,070	26,135
Listowel Conduit prevention and maintenance	-	-	27
Total Flood Safety Services	<u>795,583</u>	<u>774,648</u>	<u>590,868</u>

MAITLAND VALLEY CONSERVATION AUTHORITY
SCHEDULE OF EXPENSES

For the year ended December 31	2022 Budget	2022 Actual	2021 Actual
Watershed Stewardship Services			
Reforestation services	97,764	115,895	104,761
Watershed monitoring and reporting service	94,520	86,419	83,257
Extension services	217,986	133,947	151,401
Watershed Stewardship Projects			
Huron County clean water project	450,000	371,211	351,428
Garvey/Glen Watershed Co-ordination	117,271	29,087	69,145
Drinking water source protection - transition	-	19,737	22,920
Garvey/Glen Watershed demonstrations	43,000	59,908	49,399
Middle Maitland rejuvenation project	144,927	89,245	81,359
Stewardship ONfarm project	61,577	66,229	64,287
Stewardship short term projects	8,119	8,755	98,236
Cluster	-	-	53,676
OMAFRA - COA Healthy Lake Huron	30,000	26,991	90,000
Watershed Health	104,044	132,793	99,585
Maitland Watershed Resiliency / CFI	3,317	43	433
Nature Based Climate Solutions	131,955	136,279	-
Total Watershed Stewardship	<u>1,504,480</u>	<u>1,276,539</u>	<u>1,319,887</u>

MAITLAND VALLEY CONSERVATION AUTHORITY
SCHEDULE OF EXPENSES

For the year ended December 31	2022 Budget	2022 Actual	2021 Actual
Corporate Services			
Administration	339,497	328,881	312,291
Communications and IT/GIS	224,189	188,749	204,963
Financial management	100,660	100,917	91,295
Service area support costs	56,772	48,049	46,328
Governance	17,440	17,357	14,583
Motor pool	10,600	10,448	9,942
Corporate Services Projects			
Information technology upgrades	61,900	15,852	18,783
Corporate office renovation	440,500	37,325	11,480
Total Corporate Services	<u>1,251,558</u>	<u>747,578</u>	<u>709,665</u>

**SAUGEEN VALLEY
CONSERVATION AUTHORITY**

FINANCIAL REPORT

DECEMBER 31, 2022

SAUGEEN VALLEY CONSERVATION AUTHORITY

DECEMBER 31, 2022

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SAUGEEN VALLEY CONSERVATION AUTHORITY

MANAGEMENT'S RESPONSIBILITY FOR THE FINANCIAL REPORT

The accompanying financial statements of the Saugeen Valley Conservation Authority (the "Authority") are the responsibility of the Authority's management and have been prepared in accordance with Canadian public sector accounting standards established by the Public Sector Accounting Board of the Chartered Professional Accountants of Canada, as described in Note 1 to the financial statements.

The preparation of financial statements necessarily involves the use of estimates based on management's judgment, particularly when transactions affecting the current accounting period cannot be finalized with certainty until future periods.

The Authority's management maintains a system of internal controls designed to provide reasonable assurance that assets are safeguarded, transactions are properly authorized and recorded (in accordance with Canadian public sector accounting standards established by the Public Sector Accounting Board of the Chartered Professional Accountants of Canada), and reliable financial information is available on a timely basis for preparation of the financial statements. These systems are monitored and evaluated by management. The Board meets with management and the external auditor to review the financial statements and discuss any significant financial reporting or internal control matters prior to their approval of the financial statements.

The financial statements have been audited by Baker Tilly SGB LLP, independent external auditor appointed by the Authority. The accompanying Independent Auditor's Report outlines their responsibilities, the scope of their examination and their opinion on the Authority's financial statements.

[Original signed by Jennifer Stephens]

General Manager/Secretary-Treasurer

March 16, 2023

[Original signed by Laura Molson]

Corporate Services Manager

March 16, 2023

BAKER TILLY SGB LLP
CHARTERED PROFESSIONAL ACCOUNTANTS

INDEPENDENT AUDITOR'S REPORT

To the Members of **Saugeen Valley Conservation Authority**:

Opinion

We have audited the financial statements of Saugeen Valley Conservation Authority (the Authority), which comprise the statement of financial position as at December 31, 2022 and the statements of operations and changes in net assets and cash flow for the year then ended, and notes to the financial statements, including a summary of significant accounting policies.

In our opinion, the accompanying financial statements present fairly, in all material respects, the financial position of the Authority as at December 31, 2022, and results of its operations and its cash flows for the year then ended in accordance with Canadian public sector accounting standards.

Basis for Opinion

We conducted our audit in accordance with Canadian generally accepted auditing standards. Our responsibilities under those standards are further described in the Auditor's Responsibilities for the Audit of the Financial Statements section of our report. We are independent of the Authority in accordance with the ethical requirements that are relevant to our audit of the financial statements in Canada, and we have fulfilled our other ethical responsibilities in accordance with these requirements. We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our opinion.

Other Matter

Management is responsible for the other information. The other information comprises the schedules on pages 19 through 25 of the Saugeen Valley Conservation Authority financial statements.

Our opinion on the financial statements does not cover the other information and we do not express any form of assurance conclusion thereon.

Responsibilities of Management and Those Charged with Governance for the Financial Statements

Management is responsible for the preparation and fair presentation of the financial statements in accordance with Canadian public sector accounting standards, and for such internal control as management determines is necessary to enable the preparation of financial statements that are free from material misstatement, whether due to fraud or error.

In preparing the financial statements, management is responsible for assessing the Authority's ability to continue as a going concern, disclosing, as applicable, matters related to going concern and using the going concern basis of accounting unless management either intends to liquidate the Authority or to cease operations, or has no realistic alternative but to do so.

Those charged with governance are responsible for overseeing the Authority's financial reporting process.

AUDIT • TAX • ADVISORY

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BAKER TILLY SGB LLP
CHARTERED PROFESSIONAL ACCOUNTANTS

Auditor's Responsibilities for the Audit of the Financial Statements

Our objectives are to obtain reasonable assurance about whether the financial statements as a whole are free from material misstatement, whether due to fraud or error, and to issue an auditor's report that includes our opinion. Reasonable assurance is a high level of assurance, but is not a guarantee that an audit conducted in accordance with Canadian generally accepted auditing standards will always detect a material misstatement when it exists. Misstatements can arise from fraud or error and are considered material if, individually or in the aggregate, they could reasonably be expected to influence the economic decisions of users taken on the basis of these financial statements.

As part of an audit in accordance with Canadian generally accepted auditing standards, we exercise professional judgment and maintain professional skepticism throughout the audit. We also:

- Identify and assess the risks of material misstatement of the financial statements, whether due to fraud or error, design and perform audit procedures responsive to those risks, and obtain audit evidence that is sufficient and appropriate to provide a basis for our opinion. The risk of not detecting a material misstatement resulting from fraud is higher than for one resulting from error, as fraud may involve collusion, forgery, intentional omissions, misrepresentations, or the override of internal control.
- Obtain an understanding of internal control relevant to the audit in order to design audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the Authority's internal control.
- Evaluate the appropriateness of accounting policies used and the reasonableness of accounting estimates and related disclosures made by management.
- Conclude on the appropriateness of management's use of the going concern basis of accounting and, based on the audit evidence obtained, whether a material uncertainty exists related to events or conditions that may cast significant doubt on the Authority's ability to continue as a going concern. If we conclude that a material uncertainty exists, we are required to draw attention in our auditor's report to the related disclosures in the financial statements or, if such disclosures are inadequate, to modify our opinion. Our conclusions are based on the audit evidence obtained up to the date of our auditor's report. However, future events or conditions may cause the Authority to cease to continue as a going concern.
- Evaluate the overall presentation, structure and content of the financial statements, including the disclosures, and whether the financial statements represent the underlying transactions and events in a manner that achieves fair presentation.

We communicate with those charged with governance regarding, among other matters, the planned scope and timing of the audit and significant audit findings, including any significant deficiencies in internal control that we identify during our audit.



BAKER TILLY SGB LLP
CHARTERED PROFESSIONAL ACCOUNTANTS
LICENSED PUBLIC ACCOUNTANTS
Walkerton, Ontario
March 16, 2023

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SAUGEEN VALLEY CONSERVATION AUTHORITY

STATEMENT OF FINANCIAL POSITION AS AT DECEMBER 31

	2022	2021
	\$	\$
Financial assets		
Cash and cash equivalents (Note 2)	944,985	1,214,007
Accounts receivable (Note 4)	986,276	426,258
Temporary investments (Note 3)	2,814,288	2,752,458
	4,745,549	4,392,723
Liabilities		
Accounts payable and accrued liabilities	572,966	253,657
Deferred revenue (Note 5)	638,988	761,831
Post employment benefits (Note 6)	-	92,083
	1,211,954	1,107,571
Net financial assets	3,533,595	3,285,152
Non-financial assets		
Tangible capital assets (Note 7)	10,106,783	8,498,726
Prepaid expenses	37,006	53,867
	10,143,789	8,552,593
Accumulated surplus (Page 9)	13,677,384	11,837,745

Approved _____ Director

_____ Director

The accompanying notes are an integral part of
these financial statements

SAUGEEN VALLEY CONSERVATION AUTHORITY

STATEMENT OF OPERATIONS FOR THE YEAR ENDED DECEMBER 31

	Budget 2022	Actual 2022	Actual 2021
	\$	\$	\$
	(Note 10)		
Revenue (Page 7)			
Government transfers and special programs	81,400	136,015	164,747
Municipal levies	1,971,127	1,967,096	1,871,378
Authority generated	1,885,100	1,960,135	1,742,525
Other	320,400	2,910,493	544,332
	4,258,027	6,973,739	4,322,982
Expenses (Page 8)	4,493,675	5,134,100	4,227,228
Annual surplus (deficit)	(235,648)	1,839,639	95,754
Accumulated surplus, beginning of year		11,837,745	11,741,991
Accumulated surplus, end of the year (Page 9)		13,677,384	11,837,745

The accompanying notes are an integral part of
these financial statements

SAUGEEN VALLEY CONSERVATION AUTHORITY

STATEMENT OF CHANGE IN NET FINANCIAL ASSETS FOR THE YEAR ENDED DECEMBER 31

	Budget 2022	Actual 2022	Actual 2021
	\$	\$	\$
	(Note 10)		
Annual surplus (deficit)	(235,648)	1,839,639	95,754
Acquisition of tangible capital assets	-	(173,635)	(195,104)
Amortization of tangible capital assets	-	313,730	315,162
Loss/(Gain) on disposal of tangible capital assets	-	1,848	(6,973)
Proceeds on disposal of tangible capital assets	-	-	10,175
Contributed tangible capital assets (Note 7)	-	(1,750,000)	-
Change in prepaid expenses	-	16,861	(27,160)
Change in net financial assets	(235,648)	248,443	191,854
Net financial assets, beginning of year		3,285,152	3,093,298
Net financial assets, end of year		3,533,595	3,285,152

The accompanying notes are an integral part of
these financial statements

SAUGEEN VALLEY CONSERVATION AUTHORITY

SCHEDULE OF REVENUE FOR THE YEAR ENDED DECEMBER 31

	Budget 2022	Actual 2022	Actual 2021
	\$	\$	\$
	(Note 10)		
Revenues			
Government Transfers			
Program operations	81,400	81,396	81,396
Capital programs	-	1,468	29,929
Saugeen parks & land management (Schedule 4)	-	53,151	53,422
	81,400	136,015	164,747
Municipal Levies (Schedule 7)			
General levies	1,867,766	1,867,766	1,732,919
Special levies	103,361	99,330	138,459
	1,971,127	1,967,096	1,871,378
Authority Generated			
Agricultural lands	17,000	16,148	15,799
Education program fees	32,000	38,928	24,344
Saugeen forestry service	370,000	423,780	289,677
Planning and regulation fees	658,000	597,557	568,692
Saugeen parks & land management (Schedule 4)	808,100	883,722	842,428
Water quality monitoring	-	-	1,585
	1,885,100	1,960,135	1,742,525
Other			
Interest earned	50,000	105,422	67,312
Vehicle and equipment recoveries (Schedule 6)	167,000	157,587	121,553
Donation revenue	7,000	576	2,000
Miscellaneous operations	18,300	115,146	42,823
Gain/(Loss) on disposal of tangible capital assets (Schedule 6)	-	(1,848)	6,973
Administration overhead	77,700	112,317	81,818
Special programs (Schedule 5)	-	670,888	221,448
Stream gauge maintenance contracts	400	405	405
Contributed tangible capital assets (Note 7)	-	1,750,000	-
	320,400	2,910,493	544,332
Total Revenues	4,258,027	6,973,739	4,322,982

The accompanying notes are an integral part of
these financial statements

SAUGEEN VALLEY CONSERVATION AUTHORITY

SCHEDULE OF EXPENSES FOR THE YEAR ENDED DECEMBER 31

	Budget 2022	Actual 2022	Actual 2021
	\$	\$	\$
	(Note 10)		
Expenses			
Administration (Schedule 1)	690,000	737,098	634,883
Program operations (Schedule 2)	2,410,825	2,373,526	2,099,334
Repairs and maintenance (Schedule 3)	20,000	81,258	69,858
Saugeen parks & land management (Schedule 4)	1,194,950	1,080,402	926,334
Vehicles and equipment (Schedule 6)	167,500	129,946	92,630
Agricultural lands	10,400	3,958	4,288
Other expenses	-	8,006	5,769
	4,493,675	4,414,194	3,833,096
Amortization (Note 7)	-	313,730	315,162
	4,493,675	4,727,924	4,148,258
Total Special Program Expenses (Schedule 5)	-	406,176	78,970
Total Expenses	4,493,675	5,134,100	4,227,228

The accompanying notes are an integral part of
these financial statements

SAUGEEN VALLEY CONSERVATION AUTHORITY

SCHEDULE OF ACCUMULATED SURPLUS FOR THE YEAR ENDED DECEMBER 31, 2022

	Opening Balance	From Operations	To Operations	Closing Balance
	\$	\$	\$	\$
Reserves				
Agricultural Lands	41,368	13,556	-	54,924
Computer Upgrades	40,832	1,316	-	42,148
Environmental Planning	58,118	1,855	6,713	53,260
Forest Management	252,646	110,561	-	363,207
House Repairs	42,108	1,357	-	43,465
Kincardine Maintenance	142,234	4,398	823	145,809
Land Management	111,161	26,925	33,077	105,009
Legal Fees	51,174	1,614	13,195	39,593
LTD/OMERS/Benefits	21,548	695	-	22,243
Office Equipment	40,293	1,259	15,000	26,552
Ortho Imagery	20,142	4,719	-	24,861
Property Acquisition	168,010	5,189	34,124	139,075
Resource Centre	4,884	157	-	5,041
Retiree Benefits	30,343	930	2,845	28,428
Saugeen Parks	722,678	193,482	24,955	891,205
Self Insured Damaged	27,645	891	-	28,536
Short Term Disability	31,741	1,023	-	32,764
Stewardship	113,591	48,219	59,000	102,810
Vehicle Replacement	52,965	19,997	7,945	65,017
Water Management	130,361	267,332	-	397,693
Wetland Acquisition	58,322	1,881	-	60,203
Working Capital	1,176,856	84,553	362,651	898,758
	3,339,020	791,909	560,328	3,570,601
Tangible Capital Assets	8,498,725	1,962,528	354,470	10,106,783
	11,837,745	2,754,437	914,798	13,677,384

The accompanying notes are an integral part of
these financial statements

SAUGEE VALLEY CONSERVATION AUTHORITY

STATEMENT OF CASH FLOW FOR THE YEAR ENDED DECEMBER 31

	2022	2021
	\$	\$
Cash flows from (for):		
Operating activities		
Annual surplus	1,839,639	95,754
Non-cash items:		
Amortization of tangible capital assets	313,730	315,162
Loss/(Gain) on disposal of tangible capital assets	1,848	(6,973)
Contributed tangible capital assets (Note 7)	(1,750,000)	-
	405,217	403,943
Changes in non-cash working capital balances (Note 12)	(438,774)	(261,835)
Net change in cash from operations	(33,557)	142,108
Capital activities		
Acquisition of tangible capital assets	(173,635)	(195,104)
Proceeds on disposal of tangible capital assets	-	10,175
	(173,635)	(184,929)
Investing activities		
Acquisition of investments	(61,830)	(60,137)
Net change in cash position	(269,022)	(102,958)
Cash and cash equivalents, beginning of year	1,214,007	1,316,965
Cash and cash equivalents, end of year	944,985	1,214,007

The accompanying notes are an integral part of
these financial statements

SAUGEEN VALLEY CONSERVATION AUTHORITY

NOTES TO THE FINANCIAL STATEMENTS AS AT DECEMBER 31, 2022

Nature of Operations

The Saugeen Valley Conservation Authority (the Authority) is established under the Conservation Authorities Act of Ontario to further the conservation, restoration, development and management of natural resources, other than gas, oil, coal and minerals, for the watersheds within its area of jurisdiction. The watersheds include areas in the Municipalities of Arran-Elderslie, Brockton, Kincardine, South Bruce, Grey Highlands, Morris-Turnberry and West Grey, the Townships of Huron-Kinloss, Chatsworth, Southgate, Howick, and North Wellington, and the Towns of Saugeen Shores, Hanover, and Minto.

The Authority is a registered charity and is exempt from income taxes.

1. Summary of Significant Accounting Policies

The financial statements have been prepared by the management of the Authority in accordance with Canadian generally accepted accounting principles for organizations operating in the local government sector as recommended by the Public Sector Accounting Board of The Chartered Professional Accountants of Canada. Significant aspects of the accounting policies adopted by the Authority are as follows:

(a) Basis of Accounting

Sources of revenue and expenses are reported on the accrual basis of accounting. The accrual basis of accounting recognizes revenues as they become available and measurable. Expenses are recognized as they are incurred and measurable as a result of receipt of goods or services and the creation of a legal obligation to pay.

(b) Revenue Recognition

Government transfers are recognized in the financial statements in the period in which events giving rise to the transfer occur, providing the transfers are authorized, any eligibility criteria have been met and reasonable estimates of the amount can be made.

General and special municipal levies are recognized as revenue when the amounts are levied on the municipalities.

Authority generated revenue and special program revenue is recognized when the price is fixed or determinable, collectability is reasonably assured and services are provided to customers.

Other revenues are recognized on an accrual basis.

(c) Deferred Revenue

Revenue restricted by legislation, regulation, or agreement and not available for Authority purposes is reported as deferred revenue on the statement of financial position. The revenue is reported on the statement of operations in the year in which it is used for the specified purpose.

SAUGEEN VALLEY CONSERVATION AUTHORITY

NOTES TO THE FINANCIAL STATEMENTS AS AT DECEMBER 31, 2022

1. Summary of Significant Accounting Policies (continued)

(d) Internally Restricted Surplus

Appropriations are made from operations to reserves for future expenses and contingencies for such amounts as are deemed appropriate, and upon approval of the Authority members.

(e) Tangible Capital Assets

Tangible capital assets are recorded at cost, which includes all amounts that are directly attributable to acquisition, construction, development or betterment of the asset. Cost includes overheads directly attributable to construction and development.

Amortization is reflected on a declining balance basis over the estimated useful life of the assets at the following amortization rates:

Buildings	5%
Conservation Areas	5%
Erosion and Flood Control	5%
Equipment	15%
Floodwarning Equipment	5%
Vehicles	30%
Information Technology	3 year straight-line

Contributed tangible capital assets are recognized as assets and revenue at fair value at the time they are received.

(f) Classification of Expenses

To achieve consistency of reporting by the Conservation Authorities in Ontario, expenses are reported to follow the classifications set up by the Ministry of Natural Resources and Forestry. These are as follows:

General Administration expenses include those associated with head office functions other than technical staff and associated programs.

Program Operation expenses include technical and program operations support staff, operations and maintenance of water control structures, forest management and expenses at Saugeen Parks.

Other expenses include repairs and maintenance, vehicles and equipment, agricultural land expenses, property management, special employment projects, motor pool, etc.

(g) Vehicles and Equipment

The Authority operates a motor pool of vehicles and equipment. Internal charges for the use of vehicles and equipment are made to the various projects of the Authority based on an hourly or distance travelled rate, which is designed to recover all costs of operating the pool including replacement of equipment.

These internal charges are included in the appropriate expense classifications.

SAUGEEN VALLEY CONSERVATION AUTHORITY

NOTES TO THE FINANCIAL STATEMENTS AS AT DECEMBER 31, 2022

1. Summary of Significant Accounting Policies (continued)

(h) Use of Estimates

The preparation of financial statements in accordance with Canadian generally accepted accounting principles requires management to make estimates and assumptions that affect the reported amounts of assets and liabilities at the date of the financial statements, and the reported amounts of revenues and expenses during the reporting period. The principle estimates used in the preparation of these financial statements are the determination of the estimated useful life of tangible capital assets. Actual results could differ from management's best estimates as additional information becomes available in the future.

(i) Cash and Cash Equivalents

Cash and cash equivalents include cash on deposit, short-term deposits with a maturity of three months or less at acquisition and temporary bank overdrafts which form an integral part of the Authority's cash management.

(j) Pension Plan

The Authority offers a pension plan for its full-time employees through the Ontario Municipal Employee Retirement System ("OMERS"). OMERS is a multi-employer, contributory, public sector pension fund established for employees of municipalities, local boards and school boards in Ontario. Participating employers and employees are required to make plan contributions based on participating employees' contributory earnings. The Authority accounts for its participation in OMERS as a defined contribution plan and recognizes the expense related to this plan as contributions are made, even though OMERS is itself a defined benefit plan.

(k) Financial Instruments

Initial recognition and measurement

A financial asset or a financial liability is recognized when the Authority becomes a party to the contractual provisions of the financial instrument. Financial assets originated or acquired or financial liabilities issued or assumed in an arm's length transaction, are initially measured at their fair value.

Subsequent measurement

Changes in fair value of investments in equity instruments are recognized in annual surplus in the period incurred. All other financial assets and financial liabilities are measured at amortized cost.

Impairment

At the end of each reporting period, the Authority assesses whether there are any indications that financial assets measured at cost or amortized cost may be impaired.

SAUGEEN VALLEY CONSERVATION AUTHORITY

NOTES TO THE FINANCIAL STATEMENTS AS AT DECEMBER 31, 2022

2. Cash and Cash Equivalents

	2022	2021
	\$	\$
Cash - Operating Funds	944,985	1,214,007

Included in the Operating Funds is an interest account which earns interest at 4%.

3. Temporary Investments

	2022	2021
	\$	\$
Guaranteed Investment Certificate, interest at 4.25%, matures June 2, 2023	1,320,281	1,300,556
Guaranteed Investment Certificate, interest at 4.7%, matures November 14, 2023	1,494,007	1,451,902
	2,814,288	2,752,458

The GICs are carried at cost which approximates the fair market value.

4. Accounts Receivable

	2022	2021
	\$	\$
Municipal Levies	99,615	141,614
Trade Accounts Receivable	886,661	284,644
	986,276	426,258

5. Deferred Revenue

	2022	2021
	\$	\$
Individual Programs	135,181	143,541
Ministry of Natural Resources and Forestry, and Municipalities	119,030	106,498
Bruce Power Funding	237,512	265,174
Other Deferred Revenue	147,265	246,618
	638,988	761,831

SAUGEEN VALLEY CONSERVATION AUTHORITY

NOTES TO THE FINANCIAL STATEMENTS AS AT DECEMBER 31, 2022

6. Post Employment Benefits

The Authority has incurred \$NIL (2021 - \$NIL) expense to provide post employment benefits. Monthly payments continued until September 30, 2022. The post employment benefits were drawn down \$92,083 (2021 - \$173,193) during the year.

7. Tangible Capital Assets

	Balance 2021	Additions	Disposals	Balance 2022
Cost	\$	\$	\$	\$
Land	3,944,957	1,750,000	-	5,694,957
Buildings	1,686,540	-	-	1,686,540
Conservation Areas	1,047,620	24,955	-	1,072,575
Erosion and Flood Control	13,419,193	-	-	13,419,193
Equipment	419,919	49,944	-	469,863
Floodwarning Equipment	237,044	7,816	(5,154)	239,706
Vehicles	475,249	47,945	-	523,194
Information Technology	164,386	42,973	(35,586)	171,773
	21,394,908	1,923,633	(40,740)	23,277,801
Accumulated Amortization	\$	\$	\$	\$
Buildings	984,229	35,116	-	1,019,345
Conservation Areas	603,638	21,953	-	625,591
Erosion and Flood Control	10,406,404	150,637	-	10,557,041
Equipment	271,964	28,935	-	300,899
Floodwarning Equipment	145,950	4,783	(3,306)	147,427
Vehicles	332,938	48,334	-	381,272
Information Technology	151,059	23,970	(35,586)	139,443
	12,896,182	313,728	(38,892)	13,171,018
Net Book Value	\$			\$
Land	3,944,957			5,694,957
Buildings	702,311			667,195
Conservation Areas	443,982			446,984
Erosion and Flood Control	3,012,789			2,862,152
Equipment	147,955			168,964
Floodwarning Equipment	91,094			92,279
Vehicles	142,311			141,922
Information Technology	13,327			32,330
	8,498,726			10,106,783

The Authority received two parcels of land by donation. This land contribution was recorded and recognized at fair market value.

SAUGEEN VALLEY CONSERVATION AUTHORITY

NOTES TO THE FINANCIAL STATEMENTS AS AT DECEMBER 31, 2022

8. Revolving Credit Facility

The Authority has available a Royal Bank of Canada revolving credit facility with a maximum limit of \$200,000. The facility bears interest at bank prime plus 1.25% and is due on demand. As at December 31, 2022, the balance is \$NIL (2021 - \$NIL). The Authority also has a \$75,000 VISA credit limit facility available.

9. Pension Plan

The employees of the Authority participate in the Ontario Municipal Employees Retirement Saving Plan ("OMERS"). Although the plan has a defined retirement benefit for employees, the related obligation of the Authority cannot be identified. The Authority has applied defined contribution plan accounting as it has insufficient information to apply defined benefit plan accounting.

The amount contributed to OMERS for 2022 was \$184,030 (2021 - \$165,158) for current service costs and is included as an expense on the statement of operations.

10. Budget Amounts

The 2022 budget amounts for Saugeen Valley Conservation Authority were approved by the Authority members and have been restated to conform to the basis of presentation of the revenues and expenses on the statement of operations and change in net financial assets. The budget numbers have not been audited.

11. Commitments

The Authority has entered into an operating lease agreement for a Xerox C8055 copier requiring 16 quarterly payments of \$610 commencing December 2019. The lease expires December 2023.

The Authority has entered into an agreement for the operation of an online reservation system for the campgrounds requiring a yearly payment of \$16,100. The agreement is for the 2023 camping season, expiring October 2023.

The Authority has entered into an agreement for the operation of phone system requiring monthly payments of \$425 commencing September 2021. The agreement is for 3 years, expires September 2024.

The Authority has entered into an agreement for a fee review, which was started in 2022 and is to be completed in 2023, and \$4920 remains to be paid.

The minimum annual payments on commitments for the next two years are as follows:

2023	\$28,582
2024	\$3,825

SAUGEEN VALLEY CONSERVATION AUTHORITY

NOTES TO THE FINANCIAL STATEMENTS AS AT DECEMBER 31, 2022

12. Cash Flow Information

The net change in non-cash working capital balances consists of:

	2022	2021
	\$	\$
Accounts Receivable	(560,020)	(121,577)
Prepaid Expenses	16,861	(27,160)
Accounts Payable and Accrued Liabilities	319,311	23,053
Deferred Revenue	(122,843)	37,045
Post Employment Benefits	(92,083)	(173,196)
	(438,774)	(261,835)

13. Financial Instruments

The Authority's financial instruments consist of cash, accounts receivable, temporary investments and accounts payable. The significant financial risk the Authority is exposed to is Credit Risk. It is management's opinion that the organization is not exposed to significant currency risk, interest rate risk, liquidity risk or market risk.

Credit Risk is the risk that one party to a financial instrument will cause a loss for the other party by failing to pay for its obligation. The Authority is exposed to credit risk in connection with the collection of its accounts receivable. The Authority mitigates this risk by maintaining credit approval and payment policies and the Authority does not anticipate significant loss for non-collection. Much of the accounts receivable are from participating municipalities and HST, that should not be exposed to credit risk.

**SAUGEEN VALLEY
CONSERVATION AUTHORITY**

UNAUDITED SCHEDULES

DECEMBER 31, 2022

SAUGEEN VALLEY CONSERVATION AUTHORITY

SCHEDULE 1 SCHEDULE OF ADMINISTRATION EXPENSES FOR THE YEAR ENDED DECEMBER 31 (UNAUDITED)

	Budget 2022	Actual 2022	Actual 2021
	\$	\$	\$
General Administration			
Wages and benefits	450,000	470,692	427,157
Board of Directors' allowances	26,000	21,146	23,376
Staff mileage and expenses	10,500	6,456	2,388
Equipment, purchases and rentals	1,000	-	-
Materials and supplies	19,500	24,424	20,103
Insurance	26,000	43,935	27,651
Property taxes	8,000	8,048	7,745
Conservation Ontario levy	30,000	27,481	28,600
Other	1,000	6,031	3,087
Administrative centre operating expenses	76,000	81,019	45,212
Consultant fees	2,000	5,376	3,639
Legal, audit fees and bank charges	13,500	18,899	17,043
Health and safety expenses	20,000	16,143	24,876
Advertising and staff development	2,500	2,106	264
Resource Centre operating expenses	4,000	5,342	3,742
	690,000	737,098	634,883
Less amounts capitalized	-	-	-
	690,000	737,098	634,883

SAUGEE VALLEY CONSERVATION AUTHORITY

SCHEDULE 2 SCHEDULE OF PROGRAM OPERATION EXPENSES FOR THE YEAR ENDED DECEMBER 31 (UNAUDITED)

	Budget 2022	Actual 2022	Actual 2021
	\$	\$	\$
Flood Control			
Flood control structures	168,150	157,632	167,913
Flood warning, river forecasting and operation of dams	216,000	189,885	200,336
Land Management			
Taxes on provincially significant lands	35,000	43,184	41,697
Property and land management	-	-	-
Forest management	438,500	377,676	324,229
Geographical information systems / information technology	161,875	197,051	166,483
Water Management			
Plan input and review and regulation enforcement	1,059,800	1,092,820	908,175
Water quality	109,650	148,122	112,510
Community Relations			
Conservation information	116,300	109,601	102,480
Conservation education	105,550	108,343	95,093
	2,410,825	2,424,314	2,118,916
Less amounts capitalized	-	(50,788)	(19,582)
Total Program Operation Expenses	2,410,825	2,373,526	2,099,334
Capital Acquisitions			
Flood warning - Equipment		7,815	8,007
Land Management - IT infrastructure		42,973	-
Water Management - IT infrastructure		-	11,575
		50,788	19,582

SAUGEEN VALLEY CONSERVATION AUTHORITY

SCHEDULE 3 SCHEDULE OF REPAIRS AND MAINTENANCE FOR THE YEAR ENDED DECEMBER 31 (UNAUDITED)

	Budget 2022	Actual 2022	Actual 2021
	\$	\$	\$
Water Management Surveys, Studies and Capital Projects			
Durham Dam Safety & Repair	10,000	-	43,914
Water Infrastructure Inspections	-	34,197	-
Lake Huron Centre for Coastal Conservation	10,000	10,000	10,000
Meux Creek Repair	-	2,937	15,944
	20,000	47,134	69,858
Recreational Capital Projects			
Durham C.A. - Control gates	-	-	6,835
Durham C.A. - IT infrastructure	-	10,000	-
Saugeen Bluffs C.A. - Barrier Free Doors	-	-	5,840
Saugeen Bluffs C.A. - Playground	-	-	20,970
Saugeen Bluffs C.A - Control gates	-	14,955	-
	-	24,955	33,645
Other Capital Projects			
Land Management	-	-	15,371
Land transfer costs	-	34,124	-
	-	34,124	15,371
	20,000	106,213	118,874
Less amounts capitalized	-	(24,955)	(49,016)
	20,000	81,258	69,858
Capital Acquisitions			
Saugeen Bluffs, Control gates		14,955	-
Saugeen Bluffs, Playground		-	20,970
Saugeen Bluffs, Barrier Free Doors		-	5,840
Land Management, Shop Furnace & Ventilation		-	15,371
Durham, New Gate Reader		-	6,835
Durham, IT infrastructure		10,000	-
		24,955	49,016

SAUGEEN VALLEY CONSERVATION AUTHORITY

SCHEDULE 4 SCHEDULE OF REVENUES AND EXPENSES OF SAUGEEN PARKS & LAND MANAGEMENT FOR THE YEAR ENDED DECEMBER 31 (UNAUDITED)

	Budget 2022	Actual 2022	Actual 2021
	\$	\$	\$
Revenue from Revenue Producing Conservation Areas			
Brucedale C.A.	110,500	117,298	99,295
Durham C.A.	306,700	324,879	320,143
Saugeen Bluffs C.A.	370,900	408,811	399,078
	788,100	850,988	818,516
Government Grant	-	53,151	53,422
	788,100	904,139	871,938
Expenses from Revenue Producing Conservation Areas			
Brucedale C.A.	97,250	74,957	69,532
Durham C.A.	299,300	313,189	269,537
Saugeen Bluffs C.A.	389,900	326,867	327,044
	786,450	715,013	666,113
Excess of Revenue Over Expenses (Expenses over Revenue) for the Year for Revenue Producing Conservation Areas	1,650	189,126	205,825
Revenue from Non-Revenue Producing Conservation Areas			
Donations	-	1,591	3,472
Admission Tours	-	-	-
Miscellaneous revenues	20,000	31,143	20,440
	20,000	32,734	23,912
Expenses from Non-Revenue Producing Conservation Areas	408,500	365,389	260,221
Excess of Expenses Over Revenue for the Year for Non-Revenue Producing Conservation Areas	(388,500)	(332,655)	(236,309)

SAUGEEN VALLEY CONSERVATION AUTHORITY

SCHEDULE 5 SCHEDULE OF REVENUES AND EXPENSES OF SPECIAL PROGRAMS FOR THE YEAR ENDED DECEMBER 31 (UNAUDITED)

	Actual 2022	Actual 2021
	\$	\$
Revenue		
Bruce Power Program	-	18,659
CAP Stewardship	-	15,829
Healthy Lake Huron	23,751	-
Penetangore Watershed Group	16,761	4,932
NWMO Water Testing	499,651	162,239
Power Work Camp	12,000	12,000
RTO7 Bridge & Stairs	100,000	-
Saugeen Valley Children's Safety Village	3,621	3,213
Stewardship Project	7,748	-
Well Decommissioning Stewardship	7,356	4,576
	670,888	221,448
Expenses		
Bruce Power Program	-	18,659
CAP Stewardship	-	15,829
NWMO Water Testing	244,885	32,114
Penetangore Watershed Group	16,761	4,932
Post-Employment Benefits	4,096	-
RTO7 Bridge & Stairs	130,635	-
Saugeen Valley Children's Safety Village	2,280	2,265
Valard Maintenance	163	595
Well Decommissioning Stewardship	7,356	4,576
	406,176	78,970
Excess of Revenue Over Expenses (Expenses over Revenue) for the Year	264,712	142,478

SAUGEE VALLEY CONSERVATION AUTHORITY

SCHEDULE 6 SCHEDULE OF REVENUES AND EXPENSES OF VEHICLES AND EQUIPMENT FOR THE YEAR ENDED DECEMBER 31 (UNAUDITED)

	Budget 2022	Actual 2022	Actual 2021
	\$	\$	\$
Revenue			
Vehicles	135,000	129,063	96,986
Equipment	20,000	20,732	24,567
Office equipment	12,000	7,792	-
Gain on disposal of vehicles and equipment	-	(1,848)	6,973
	167,000	155,739	128,526
Expenses			
Vehicles			
Operating costs	68,500	87,595	55,947
Repairs and maintenance	12,500	12,374	10,090
Equipment			
Operating costs	28,500	8,658	3,306
Repairs and maintenance	10,000	13,917	15,200
Office equipment			
Operating costs	8,000	7,402	8,087
	127,500	129,946	92,630
Excess of Revenue Over Expenses for the Year, Before Leasing of Vehicles and Equipment	39,500	25,793	35,896
Purchasing and Leasing of Vehicles and Equipment	40,000	47,945	126,507
	(500)	(22,152)	(90,611)
Less amounts capitalized	(40,000)	(47,945)	(126,507)
Excess of (Deficiency in) Revenue Over Expenses for the Year	39,500	25,793	35,896
Capital Acquisitions			
John Deere Loader Tractor		-	53,526
Vehicles		47,945	72,981
		47,945	126,507
Capital Disposals			
Tractors		-	21,640
		-	21,640

SAUGEEN VALLEY CONSERVATION AUTHORITY

SCHEDULE 7 SCHEDULE OF MUNICIPAL LEVIES FOR THE YEAR ENDED DECEMBER 31 (UNAUDITED)

	Modified Current Market Value in Watershed	Apportionment	2022 General Levies	2022 Special Levies
	\$	%	\$	\$
Arran-Elderslie	372,248,900	2.5157	46,980	31,516
Brockton	1,274,775,507	8.6150	160,901	13,038
Chatsworth	443,568,531	2.9977	55,983	-
Grey Highlands	646,972,160	4.3723	81,655	-
Hanover	973,869,856	6.5815	122,920	-
Howick	40,931,707	0.2766	5,160	-
Huron-Kinloss	825,464,919	5.5785	104,187	1,500
Kincardine	2,601,952,902	17.5841	328,424	7,103
Minto	395,841,756	2.6751	49,958	-
Morris-Turnberry	28,336,892	0.1915	3,669	-
Saugeen Shores	3,099,401,113	20.9459	391,215	4,250
South Bruce	709,167,391	4.7926	89,508	-
Southgate	1,004,916,796	6.7913	126,839	-
Wellington North	586,287,364	3.9622	73,997	660
West Grey	1,793,423,612	12.1201	226,370	41,263
	14,797,159,406	100	1,867,766	99,330



NOTICE OF PUBLIC OPEN HOUSE North Huron Zoning By-law Review

Members of the North Huron community are invited to participate in Public Open House sessions to discuss draft changes to the North Huron Zoning By-law. The public will have an opportunity to review the draft text and zoning (mapping) amendment, ask questions and provide comments.

North Huron Council initiated the Zoning By-law Review process in February, following the review of the Township Official Plan in 2022. This review is taking into consideration updates to the Township Official Plan, County Official Plan, provincial legislation, as well as comments from Council, the public, and partner agencies.

To view the existing Zoning By-law, review the first draft amendment, and for information on how to participate in the process, please visit the North Huron website at:
<https://www.northhuron.ca/en/build-invest-grow/zoning.aspx>

Some of the proposed changes include:

- Applying a 'Housing Friendly' lens including updating additional dwelling unit direction, parking requirements, and general residential provisions, in urban areas
- Updating zoning (mapping) to conform to the updated Official Plan designations, including agriculture and natural environment zoning in the rural areas and updating flood hazard zoning in urban areas
- Direction for additional residential units, farm labour, and on-farm diversified uses in agriculture zones
- Updating source water protection direction to conform to local Source Protection Plans
- Evaluation of key residential future development properties
- 'Clean up' or removal of existing special zones that are now deemed inoperable or redundant, pending consultation with landowners
- Any other changes deemed to be desirable or a correction during the review process

Open House sessions are being held as follows:

- **Thursday, April 20, 2023** - 10:00am to 4:00pm - North Huron Westcast Community Complex (Hot Stove Lounge Meeting Room) at 99 Kerr Drive, Wingham
- **Friday, April 21, 2023** - 10:00am to 4:00pm - Blyth Community Centre (Arena Hall) at 377 Gypsy Lane, Blyth

Please send any comments or questions via email, mail, or telephone to Hanna Holman, Planner, at hholman@huroncounty.ca or 519-524-8394 ext. 3. Mail can be sent to the Township office with Attention to Hanna Holman.

Dated at the Township of North Huron
This 29th day of March, 2023
274 Josephine Street, Wingham ON
N0G 2W0
(519)-357-3550

P.O. Box 90, 274 Josephine Street, Wingham, Ontario N0G 2W0
Phone: 519-357-3550 Fax: 519-357-1110

Municipal Newsletter

March 2023

This is the March 2023 municipal update about the work we do, in partnership with you, to protect municipal drinking water sources in Maitland Valley and Ausable Bayfield source protection areas.

Contents:

1. Doug Hocking, John Thompson are newest members of committee working to protect drinking water sources
2. Local source protection authorities submit proposed updates to source protection plans to Province
3. Best practices for source water protection
4. Preparing Annual Progress Report for year 2022
5. Preparing video on municipal and other partners who are part of the water team

1. Doug Hocking, John Thompson are newest members of committee working to protect drinking water sources

Doug Hocking, John Thompson are newest members of committee working to protect drinking water sources

Our local committee, working to protect municipal drinking water sources, has two new members. Doug Hocking, of Exeter, and John Thompson, of Goderich, are the newest members of the Ausable Bayfield Maitland Valley Drinking Water Source Protection Committee (SPC). They took part in their first SPC meeting on March 1, 2023 in Holmesville.

The SPC creates policies to protect local sources of municipal drinking water from possible threats such as fuel, salt, chemicals, nutrients, pesticides, and hazardous waste in areas near the municipal wells.

About Us

Source Protection Committee

- 12 members plus a Chair
- Represents local municipalities, economic sectors and public

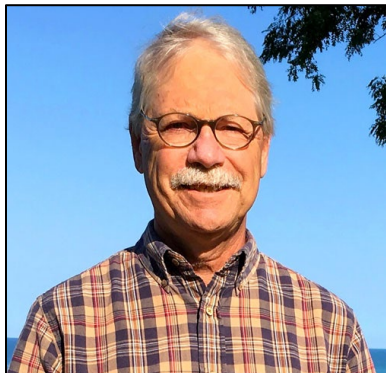
Source Protection Plans (SPP)

- Developed locally
- Approved by Province in 2015; Amended in 2023
- Policies to protect municipal sources of drinking water
- Area covered – Ausable Bayfield and Maitland Valley source protection areas

Goal: To protect region's municipal sources of drinking water – aquifers and lakes – from contamination and overuse

Doug Hocking is a Property Owner representative on the committee and John Thompson is a municipal representative for the North Group of municipalities (Ashfield-Colborne-Wawanosh; Goderich; Huron-Kinloss; and South Bruce).

SPC Chair Matt Pearson welcomed the two new members to the committee. “Both John and Doug have a great deal of interest in, and knowledge of, drinking water source protection,” he said. “With their strong backgrounds in environmental issues they will provide great insight and commitment as we continue to implement source protection planning policies.”



John Thompson was elected Councillor for the Town of Goderich in 2022. He has a lifelong interest in ecological concerns. He has a Master in Environmental Studies degree from York University in 1992 and a PhD in Human Development and Applied Psychology from the University of Toronto. He has been a volunteer in his community including work with environmental organizations. He has worked as a journalist and rural economic development researcher. He has also been a library planner and computer consultant.



Doug Hocking has Bachelor of Science in Agriculture (Honours Program) and Bachelor of Arts degrees from the University of Guelph. He is a long-time resident of Exeter who was raised on a farm in West Perth and who also lived in Listowel. Before retirement, Doug worked in close partnership with local urban and rural landowners for more than 30 years in water quality stewardship at Ausable Bayfield and Maitland Valley conservation authorities. In addition to stewardship work, he also analyzed thousands of surface water and sediment samples from drains, rivers and Lake Huron.

The source protection committee has 12 members plus a Chair and non-voting liaisons. The 2023 committee includes Chair Matt Pearson and the following members: Municipal: Allan Rothwell (East); Paul Heffer (Central); John Thompson (North); Dave Frayne (South West); Philip Keightley (Commerce); Rowland Howe (Industry); Bert Dykstra (Agriculture); Mary Ellen Foran (Agriculture); John Graham (Environment); Jennette Walker (Environment); Doug Hocking (Property Owner); and Alyssa Keller (Public-at-Large).

To find out more visit the Ausable Bayfield Maitland Valley Source Protection Region committee web page (<https://www.sourcewaterinfo.on.ca/the-committee/>) on the local source protection website at <https://www.sourcewaterinfo.on.ca>

2. Proposed updates to local source protection plans submitted to Province

The source protection committee has developed updates to the source protection plans to better protect sources of drinking water. These proposed changes are prepared per section 36 of the *Clean Water Act*. They were submitted to the Province in March for Minister's approval.

Thanks to all our local municipalities for their input on the proposed changes and thanks to the public who took part in consultation opportunities.

3. Best practices for source water protection

The Province of Ontario is working to help Ontarians to protect water sources and **non-municipal** drinking water systems that are not included in a source protection plan or aren't regulated by the Ontario *Clean Water Act, 2006*.

The Province of Ontario released some of the strategies that can be employed on the source water protection best practices web page (<https://www.ontario.ca/document/best-practices-source-water-protection>) The SPC, in conjunction with Conservation Ontario and with assistance from Huron Perth Public Health, are developing a plan to promote some of these resources on a local basis.

4. Preparing Annual Progress Report for year 2022

Last year (2022), our source protection region submitted its Fifth Annual Progress Report for drinking water source protection in the Ausable Bayfield and Maitland Valley areas. This was for the 2021 year and it is available on our local source protection website (<https://www.sourcewaterinfo.on.ca/portfolio/fifth-annual-progress-report-2021/>)

We are now working on completion of the 2022 Annual Progress Report which we will submit to the Province of Ontario shortly. When it is approved, we will post it to our website.

5. Preparing video on municipal and other partners who are part of the water team

Be Part of the Water Team will be the newest video in the SPC video series and it will detail the role municipal councils, water operators, public works and environmental managers, and many other partners play in keeping our municipal drinking water safe and clean.

The narrator for this video is Paul Heffer, SPC Municipal Rep. and Township of North Huron Reeve. The Ausable Bayfield Maitland Valley Source Protection Region thanks all the municipal partners, agencies and businesses who are helping us to add another video to our popular source water protection series, which has exceeded 20,000 views.

We will show a draft of the video at the March 29th SPC meeting and we expect to share it publicly in the coming weeks. When it's ready, we will post it to our source protection videos web page (<https://www.sourcewaterinfo.on.ca/news/videos/>) and share it with your municipal staff. Watch for it!

Next Source Protection Committee meeting

The next meeting of the Ausable Bayfield Maitland Valley Source Protection Committee is Wednesday, March 29, 2023 at 9:30 a.m. at Libro Community Hall, 239 Bill Fleming Drive, Clinton. The next SPC meeting after that is scheduled for Wednesday, May 31, 2023 at 9:30 a.m., location to be determined.



Shown, in March 2023, celebrating the Source Protection Committee completion of draft updates to the Ausable Bayfield and Maitland Valley source protection plans are, from left to right, Chair Matt Pearson; Doug Hocking (Property Owner); Allan Rothwell (Municipal East); Bert Dykstra (Agriculture); John Thompson (Municipal North); Mary Ellen Foran (Agriculture); Philip Keightley (Commerce); Jennette Walker (Environment); and Rowland Howe (Industry). Not in photo are Paul Heffer (Municipal Central); Dave Frayne (Municipal South-West); John Graham (Environment); and Alyssa Keller (Public-at-Large).

If you have new staff members who need training on drinking water source protection or would like a presentation to your council, please give us a call so we can assist you.

Ausable Bayfield Maitland Valley Source Protection Region
c/o Ausable Bayfield Conservation Authority
71108 Morrison Line, R.R. 3
Exeter, ON N0M 1S5

Tel 519-235-2610 ext. 247
Fax 519-235-1963
Toll-free 1-888-286-2610
www.sourcewaterinfo.on.ca

This project has received funding support from the Government of Ontario.
Such support does not indicate endorsement of the contents of this material.

**Ministry for Seniors
and Accessibility**

Minister

College Park
777 Bay Street
5th Floor
Toronto ON M7A 1S5

**Ministère des Services aux
aînés et de l'Accessibilité**

Ministre

College Park
777, rue Bay
5e étage
Toronto (Ontario) M7A 1S5



March 2023

Dear Mayor, Reeve and Members of Council:

I am writing to invite you to submit a nomination for the 2023 [Ontario Senior of the Year Award](#).

This award gives each municipality the opportunity to honour one of their outstanding local seniors for the contributions they've made to enrich the social, cultural, and civic life of their community.

The deadline for nominations is April 30, 2023.

For more information on how to submit a nomination online, please visit the [Senior of the Year](#) webpage. Once you submit a nomination, a personalized certificate with your nominee's name will be sent to you. I encourage you to present it to your nominee in June in conjunction with Seniors Month.

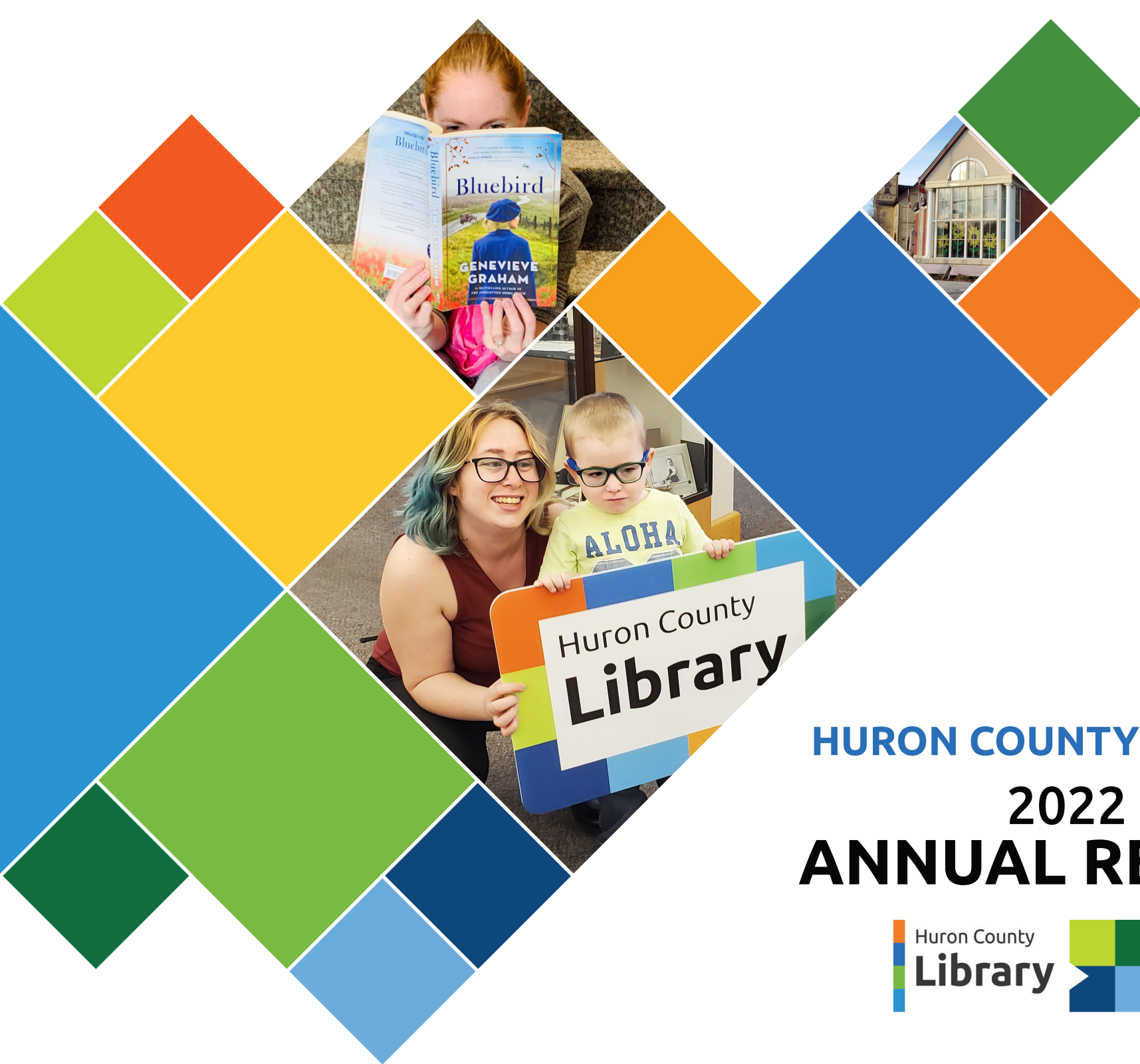
The Ontario government is always delighted to celebrate Seniors Month with municipalities across the province. Seniors have generously given their time, knowledge and expertise to help build this great province that we all enjoy today. It is important that we take the time to celebrate our older population and their valuable contributions.

If you have any questions about the upcoming 2023 Ontario Senior of the Year Award, please contact Ontario Honours and Awards at OntarioHonoursAndAwards@ontario.ca.

Thank you in advance for your support of local seniors and Seniors Month.

Sincerely,

Raymond Cho
Minister for Seniors and Accessibility

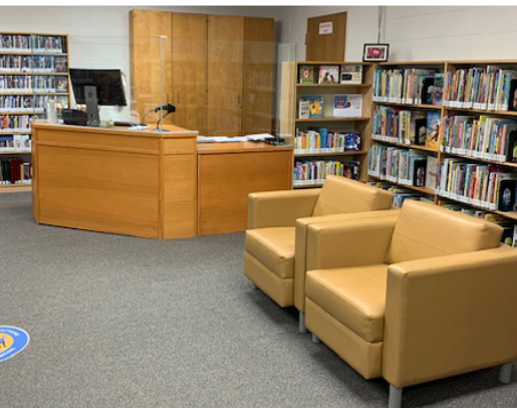


HURON COUNTY LIBRARY 2022 ANNUAL REPORT





“ It has been 2 years since I have set foot in a library and I am SO EXCITED to be here!”



2022 Annual Report

Huron County Library

The Huron County Library is a county-wide library system with 12 convenient locations serving residents throughout the County. The Library serves as an inclusive and vibrant community hub that offers the traditional library services with new and innovative offerings to meet the changing needs of our diverse communities.

The Library has adopted the following vision, mission and values statements as guiding principles to delivering Library services in Huron County.

Vision

Huron County Library is an inclusive and vibrant community hub. It builds community, enriches lives and fosters creativity by providing access to information, skills and ideas.

Mission

Huron County Library provides the community with inviting and accessible facilities, engaging virtual spaces, comprehensive collections and user-friendly technology. Welcoming and knowledgeable staff and volunteers provide innovative services and programs that contribute to community vitality.

Values

- Inclusive and equitable access for all
- Literacy and lifelong learning
- Intellectual freedom and protection of privacy
- Customer services
- Community focus
- Collaboration
- Creativity
- Accountability, integrity and teamwork
- Balancing tradition and innovation
- Embracing a changing world

2022 IN NUMBERS...

17,157

Library card
holders

250,742

Items
circulated

34,173

Catalogue
visits



Thanks for many years of being able to access such a wonderful building with caring & knowledgeable staff. I will miss this place greatly.



Beth Rumble
*County Librarian and
Director of Cultural
Services*

A Message from the Director

Huron County Library started 2022 off with a bang by joining the ranks of libraries around the world to permanently eliminate fines on overdue materials. There is almost no better way the library could live its value of equitable access to all than by eliminating this barrier to library usage. And we do want our community to use the library because, in 2022, we had so many reasons to engage with the library.

We were so very grateful to be able to engage with our patrons in a variety of ways. This year saw the continuation of popular virtual programs as well as the return of in-person programming. We were all blown away by the volume of activity in the branches and were reminded of the joy of noise and commotion. We saw our branches open more hours. Hours that were designed to better meet the needs of each individual community. We also launched a new, beautiful website that acts as our virtual branch.

Beyond the excitement of near normal daily activities, Huron County Library achieved multiple local and provincial awards of recognition. All of these are a result of the phenomenal staff that make up Huron County Library. Their passion and dedication to the work that is done each and every day is truly what makes this team such a pleasure to be a part of.

I am excited for you to take a look back at the wonderful year that we have had together.

A Message from the Board Chair

2022 was a year that the Huron County Library was able to get back to more normal branch activities, even though we all realize that it will be a new normal. As we look ahead to 2023, we know that our Branches are ready to adapt as they continue to welcome patrons back for in-person visits.

It is with great pleasure that all 12 branches received accreditation, demonstrating the exceptional library system we have available for the people of Huron County. Going ahead we know that with the leadership library staff give the board, we will be able to adapt and achieve the vision, mission and values of the Huron County Library. The Library Board is ready to work with staff and our County Librarian to deal with challenges ahead.



Doug Harding
*Huron County Library
Board Chair*

2022 IN NUMBERS...

59,698

Adult Fiction
checkouts

26,287

Adult Non-
fiction checkouts

31,533

Picture book
checkouts



Coming to the library is one of the things I love most about my retirement!

Huron County Library is now **FINE FREE!**



The Huron County Library values inclusive and equitable access to information and was very pleased to announce that it would no longer charge fines on overdue materials.

While the collection of overdue fines had been temporarily halted since the start of the COVID-19 pandemic, the Huron County Library Board voted unanimously to permanently end this practice, further removing barriers for Huron County residents to access valuable library services.

All outstanding overdue fines were forgiven effective Jan. 1, 2022 and since going fine free, more than 300 patrons have regained access to valuable library services.

2022 IN NUMBERS...

95,339

Audio & E-book
checkouts

14,503

Music streamed

6,198

Movies & TV
streamed

“It’s so great that you’ve gone fine free...Anything that can reduce barriers is the way to go.”

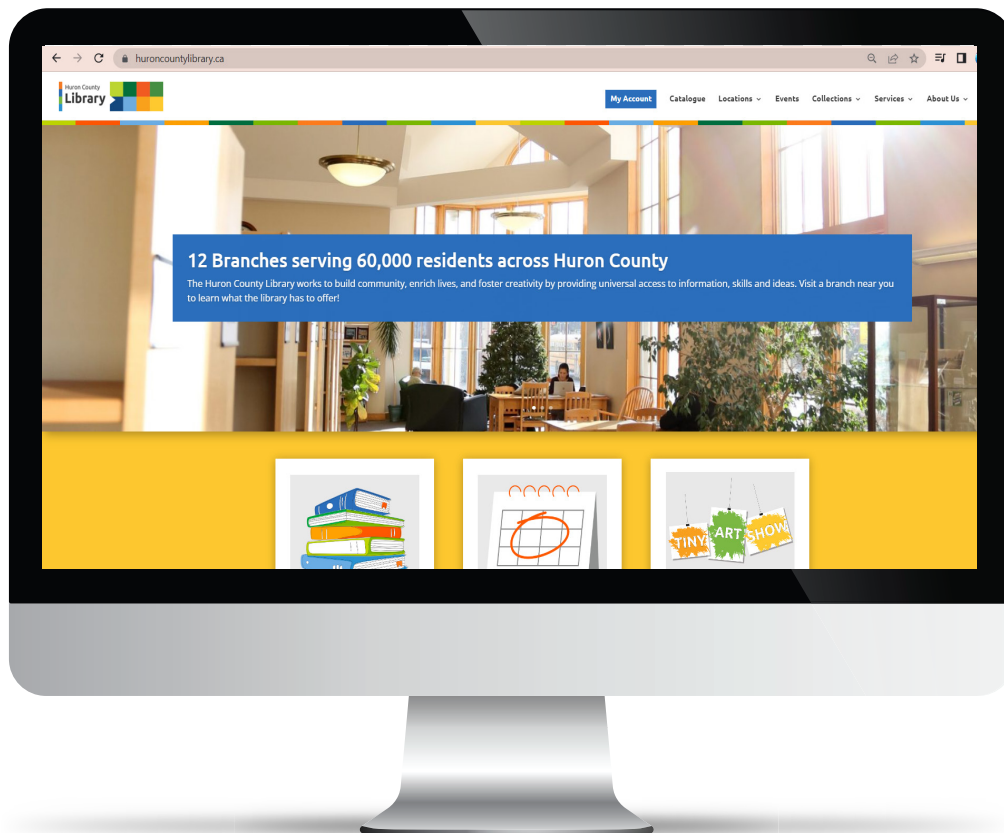
Improving our online presence

The Huron County Library announced the launch of a new and improved website in January, 2022.

Located at **HuronCountyLibrary.ca**, the new site features a fresh new look and feel that fully reflects the vibrant community spaces patrons find in our 12 branches located throughout Huron County.

Some key highlights of the new website include:

- A seamless online browsing experience between the website and the new online catalogue
- Improved navigation for easier access to the Library's branches, services and collections
- An online events calendar to quickly find upcoming programs and events
- A new blog written by Library staff on a variety of topics to keep patrons better informed
- A mobile-friendly interface that allows for easier site navigation from any device
- An accessible platform that is welcoming and inclusive for all site visitors



2022 IN NUMBERS...

3,751

Facebook
followers

1,016

Instagram
followers

195,574

Website
page views

“

Thank you for this online experience! ...I don't have to leave my fireplace, lounge chair & steaming coffee to complete library business.



Celebrating our successes

The Huron County Library received the Ontario Library Association's Archival and Preservation Achievement Award for the Huron County Digitized Newspaper project.

From the beginning in 2014, the digitization project has been a collaboration between the Library, Huron County Museum, the County of Huron, and the local community, resulting in the digitization of more than 545,000 local newspaper and magazine pages from microfilm and hard copies. This collection preserves more than a century's worth of local history from communities across the County.

In 2022, the library was also presented with:

- The Huron County Accessibility Award of Merit for its efforts throughout the pandemic to ensure library services and resources were made available while branches were closed to the public.
- Reaccreditation from the Ontario Public Library Guidelines Monitoring and Accreditation Council. Huron County Library achieved an overall score of 98.3 per cent, demonstrating that Huron County has an exceptional library system.

2022 IN NUMBERS...

18,234

Digitized
Newspaper page
views

1,222

Internet hub
checkouts

20,403

DVD
checkouts

“Huron is so fortunate to have such an amazing digital resource! Thank you!”



Returning to in-person programming

After two years of closures and restrictions on gatherings, in-person programming was able to make a big return in 2022. Staff recognized, though, that not everyone was comfortable with meeting in person and continued to offer a selection on virtual programs.

Some highlights of programming offered through the year:

- Patrons were invited to get their spice on in 2022 with the virtual Spice Club. Participants picked up a new spice and recipe each month from their local branch and met virtually to learn more about the spice and to share their experiences cooking with it.
- Exeter Branch hosted Seedy Saturday which featured a seed swap and promotion of the library's Seed Library, plant give-aways, activities for kids, and guest speakers.
- In partnership with Ontario's West Coast, the library hosted Bird Bingo and a Nature Photography contest to encourage outdoor winter activities for locals.
- Building on the success of Ontario's West Coast's In Your Backyard tourism program that ran through the pandemic, staff offered a virtual tour of the County by highlighting Huron's hidden gems. To further encourage locals to get out and explore what's in their backyard, a summer giveaway was developed in partnership with the County of Huron's Economic Development department.
- Branches began offering some old favourites for their patrons, including storytimes, book clubs, games, tech support, and more.

2022 IN NUMBERS...

1,026

Virtual
& in-person
programs

17,295

Program
participants

201

Tech tutoring
participants

“ Thank you so much for the computer help, I can't believe you help people for free!



Celebrating diversity

Each year, staff work hard to find unique ways to help make people feel welcomed and supported, and we were pleased to continue this work through 2022. To celebrate the diversity in our communities, staff frequently shared reading recommendations to help expand our understanding of one another. Highlights from our collection were shared to honour Black History Month, Pride Month, Asian History Month, Disability Pride Month, National Indigenous History Month, and more.

Some highlights of supporting our diverse communities:

- Through the Respectful Subject Headings Project, the Huron County Library took steps to update catalogue subject headings to be respectful and inclusive to all members of society. This project was spurred on by the social need for improved representation in library catalogues for Indigenous peoples.
- In the response to Russia's war against Ukraine, library branches became drop-off locations for locals to donate valuable medical supplies. Community information sessions were hosted in partnership with Huron Immigration Partnership to support Ukrainian refugees in Huron County.
- National Day for Truth and Reconciliation was honoured on Sept. 30. Staff commemorated the day by wearing orange shirts to honour the lost children and survivors of residential schools and distributing Every Child Matters buttons.
- Library staff supported the return of the Huron Multicultural Festival during Newcomer Welcoming Week in September. The event celebrates the customs and traditions of Canada's diverse populations.

2022 IN NUMBERS...

431

Newcomer
outreach
participants

19,055

Large print
checkouts

251

Accessible
resource
checkouts

“

Thank you so much for providing me with a Dutch language section. It is so nice to be able to read in my first language.



Improving our services

With the full reopening of our branches in 2022, we were able to update hours of operation to better serve our communities. Branch hours became more consistent and accessible for our patrons.

Service improvements also included:

- The implementation of an automatic renewal system. When life gets busy, we know renewing library items can easily get forgotten, so we implemented a system that would automatically renew eligible items for patrons.
- A refresh of the Goderich Branch to improve the space. Improvements included a fresh coat of paint, the relocation of the children's area to the main floor, and upgrades to the Young Adult Lounge, a dedicated space for youth ages 12-18.
- A new delivery van branded in the library's new colours. Watch for it to roll through your community as it travels across Huron County several times a week delivering library materials to each branch.

2022 IN NUMBERS...

59,280

Kilometres
driven by van

97,950

In-branch visits

18,952

Hours of service

“ I love the new
library hours!

12 Branches serving Huron County

Alice Munro Branch

Address: 281 Edward St., Wingham
Phone: 519-357-3312
Email:
WinghamLibrary@HuronCounty.ca

Bayfield Branch

Address: 18 Main St., Bayfield
Phone: 519-565-2886
Email:
BayfieldLibrary@HuronCounty.ca

Blyth Branch

Address: 392 Queen St., Blyth
Phone: 519-523-4400
Email:
BlythLibrary@HuronCounty.ca

Brussels Branch

Address: 402 Turnberry St.,
Brussels
Phone: 519-887-6448
Email:
BrusselsLibrary@HuronCounty.ca

Clinton Branch

Address: 27 Albert St. S., Clinton
Phone: 519-482-3673
Email:
ClintonLibrary@HuronCounty.ca

Exeter Branch

Address: 330 Main St. S., Exeter
Phone: 519-235-1890
Email:
ExeterLibrary@HuronCounty.ca

Goderich Branch

Address: 52 Montreal St., Goderich
Phone: 519-524-9261
Email:
GoderichLibrary@HuronCounty.ca

Hensall Branch

Address: 108 King St., Hensall
Phone: 519-262-2445
Email:
HensallLibrary@HuronCounty.ca

Howick Branch

Address: 45088 Harriston Rd., RR 1
Gorrie
Phone: 519-335-6899
Email:
HowickLibrary@HuronCounty.ca

Kirkton Branch

Address: 70497 Perth Road 164,
RR 1 Kirkton
Phone: 519-229-8854
Email:
KirktonLibrary@HuronCounty.ca

Seaforth Branch

Address: 108 Main St. S., Seaforth
Phone: 519-527-1430
Email:
SeaforthLibrary@HuronCounty.ca

Zurich Branch

Address: 10 Goshen St. N., Zurich
Phone: 519-236-4965
Email:
ZurichLibrary@HuronCounty.ca



www.HuronCountyLibrary.ca

77722B London Rd, RR5 Clinton, ON

Phone: 519-482-5457

Email: libraryadmin@huroncounty.ca



@HuronCountyLibrary



Huron Perth Public Health **COVID-19** **Vaccination Report**

December 2020 – March 2022

www.hpph.ca

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Vision, Mission & Values

Vision

Optimized health and well-being for all.

Mission

HPPH takes action to protect and promote population health and prevent disease, strengthening quality of life and well-being for all.

Values

Equity, Diversity and Inclusion

We value all community members. We are responsive to the communities we serve and commit to finding ways for people to feel safe and welcome.

Evidence-informed Practices

We will use the best available information and public health best practices in our work.

Partnership and Collaboration

We value our relationships and commit to authentic engagement in our work in order to meet the public health needs of our communities.



People

We acknowledge that HPPH staff are the greatest asset to achieving our vision and mission, and commit to creating a healthy workplace together.

Innovation

We embrace new ways to respond to the public health needs of our populations and will use bold and creative approaches as needed.

Accountability

We focus on our public health mandate and are committed to transparent accountability for the use of our resources.

Leadership

All staff are valued as HPPH ambassadors who continually show leadership by using public health knowledge, skills and expertise to improve population health.

Introduction

COVID-19 emerged globally in early 2020 as a novel (new) disease. This meant the virus was capable of infecting every single person on the planet. As a result, even if most people would experience mild disease, uncontrolled transmission could overwhelm healthcare systems and disrupt society through simultaneous, widespread illness and deaths.

The goal of pandemic response locally, provincially, and across Canada was to minimize serious illness and overall deaths and minimize the impact to the healthcare system, while also minimizing societal disruption as a result of the COVID-19 pandemic. Initially, the response was a containment strategy, i.e., trying to identify every case and break all chains of transmission. With time, because of higher levels of immunity due to vaccinations and infections, the risk of infection changed at both an individual and population level. The strategy changed to align with our typical response to respiratory illness (such as influenza) becoming targeted to higher risk populations and settings.

There is no easy path out of the pandemic. Without the collective efforts of everyone in our community to reduce COVID-19 transmission — by following public health measures, as well as building a strong wall of population immunity through vaccination — there would have been much more societal disruption, and an even higher number of



infections and deaths due to the virus. Your efforts made a difference and worked to save as many lives as possible.

This is the second of three reports describing Huron Perth Public Health's (HPPH) response to the COVID-19 pandemic. It provides an overview of the planning and implementation of the largest vaccine rollout in history in Huron Perth. The report spans from December 2020, when the first COVID-19 vaccines were administered, to March 2022, when HPPH began transitioning from acute pandemic response to recovery. The other two reports focus on HPPH's actions to prevent and control COVID-19 transmission, and on the non-COVID-19 programs and services HPPH delivered between March 2020 and March 2022.

Miriam Klassen
Medical Officer of Health and CEO
Huron Perth Public Health

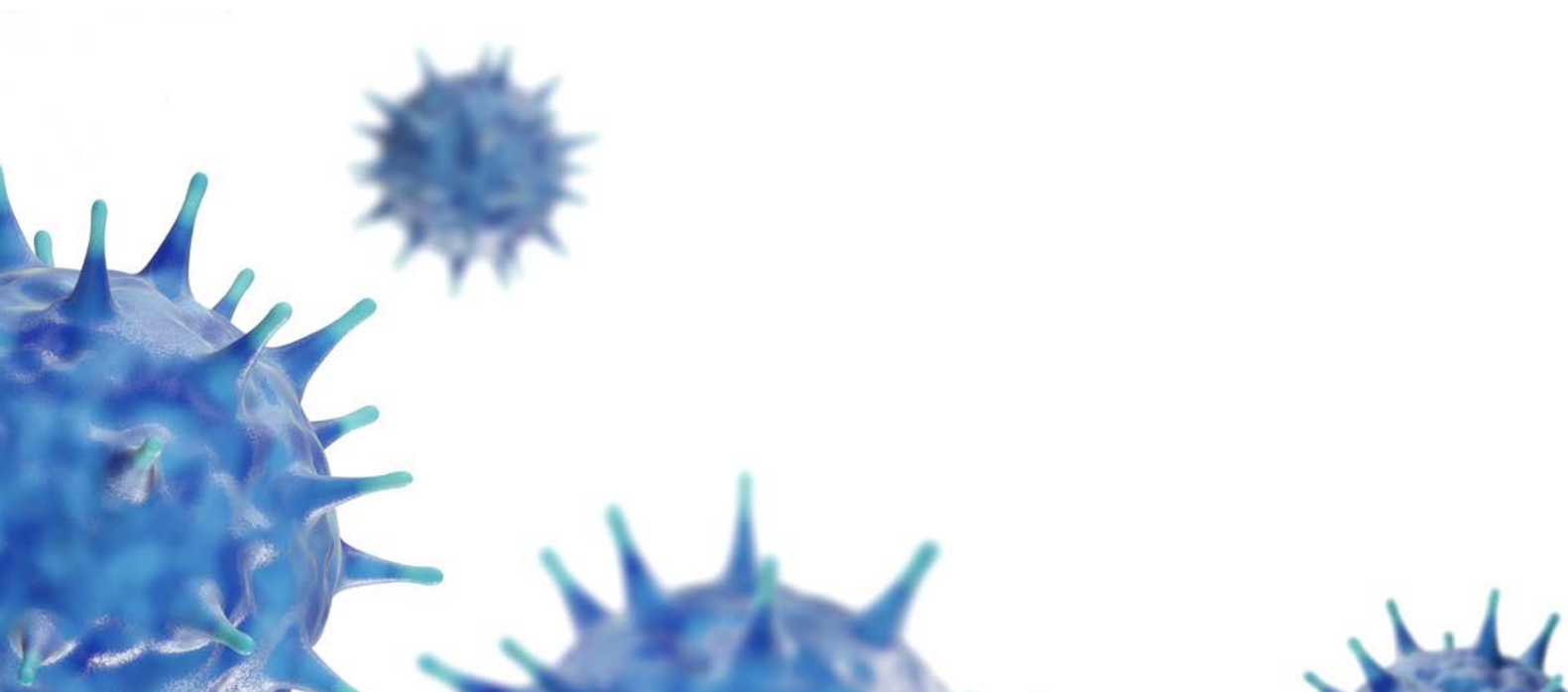
Why vaccination is a critical tool to get out of a pandemic

Vaccination is a safe, and effective way of protecting people against harmful diseases before they encounter them. Vaccines reduce the risk of getting a disease by working with your body's natural defences to build protection. This makes vaccination an important tool to increase population immunity during a pandemic.

Immunity is the body's ability to prevent pathogens from invading the body. **Pathogens** are external disease-causing organisms, such as bacteria and viruses. Immunity from an infectious disease means that the body's immune system has previously been exposed and responded to the virus or bacteria (i.e., pathogen) that causes the infection. Gaining immunity can happen from an infection or from a vaccine. If you were exposed to the same pathogen that causes the infection, you are less likely to get as sick again because of your previous exposure.

With some pathogens your immunity can be lifelong after infection or a vaccine series — this occurs with measles, hepatitis B and chicken pox. However, with other pathogens, your immunity can wane or become weaker with time, which is why booster doses are needed (such as for influenza). Common seasonal coronaviruses are an example of a virus that cause the 'common cold'. Immunity to these coronaviruses has been found to wane between six and 12 months after infection.

Research shows that immunity from both infection with COVID-19, and from COVID-19 vaccines, can wane over time. However, when you get a vaccination, you gain immunity with far less risk of severe illness and possible lower risk of having long-term effects of Long COVID. Also, although immunity against acquiring infection wanes with time, protection against severe illness persists.



Why vaccination is a critical tool to get out of a pandemic

Why were COVID vaccines developed so quickly?

Typically, the process for the creation and approval of a vaccine takes some time; researchers need to secure funding, carry out the specific vaccine research, when not working on their other research commitments, locate people to take part in clinical trials, and conduct trials and review the results. They must then submit their findings to a regulatory government body for an approval process; typically the approval process takes time as well since there is a queue of projects seeking government approval.

The massive global disruption caused by COVID-19 meant that the world's best scientists, governments, universities, and pharmaceutical companies immediately mobilized their funding and research resources in pursuit of protecting the world from COVID-19. Many participants volunteered to be in clinical trials, and these large trials ran more quickly than usual because they could rapidly recruit large samples worldwide.

COVID-19 vaccines received priority in the review process, whereas vaccines for less transmissible diseases are required to wait in a queue. Health Canada shortened the administrative and organizational processes, but the safety standards were just as strict as for any other vaccine¹. It is also important to note that there is a robust international and national system for monitoring vaccines and updating guidance for Ontarians.

All of the above factors meant that COVID-19 vaccines became available much more quickly than most vaccines.



About mRNA vaccines

The active ingredient in the two major COVID-19 vaccines from Pfizer and Moderna is messenger RNA (mRNA). mRNA is a molecule that provides cells with instructions for making proteins that will activate an immune response by making antibodies. These antibodies help you fight COVID-19 infection if you contract the real virus in the future. Other ingredients in the vaccines are fats, salts, and sugars. They help with storing, transporting and injecting the vaccine. Our cells break down mRNA and get rid of it within a few days after vaccination.

Although COVID-19 vaccines were some of the first broadly used vaccines to use mRNA, mRNA was discovered in the early 1960s and research into how mRNA could be delivered into cells was developed in the 1970s. Before COVID-19, mRNA vaccines had been developed to protect against Ebola^{2,3}. mRNA technology has also been used in cancer research.

Why did vaccination eligibility and recommendations change?

Who got vaccine first

When reviewing the initial COVID vaccination rollout, it is important to note that, as a novel disease, there was no vaccine available at the onset of the pandemic. As outlined on the previous page, there were several factors that contributed to the ability to get well-tested, safe and effective vaccines to the public quickly. Nonetheless, it is not possible to manufacture enough vaccine for the entire world all at once, and at first inventory was limited.

As COVID-19 vaccination rollout began in December 2020 and continued through 2021, vaccine eligibility and recommendations changed several times.



Ontario's COVID-19 vaccine program was led by the Ontario Ministry of Health, with the guidance of the provincial COVID-19 Vaccine Task Force. Because initial vaccine supply was limited, the province began with an [ethical framework](#)⁴.

One set of principles in the ethical framework was to **minimize harms and maximize benefits**.

The goals included:

- Reduce overall illness and death related to COVID-19
- Protect those at greatest risk of serious illness and death due to biological, social, geographical, and occupational factors
- Protect critical infrastructure
- Promote social and economic well-being

This meant that generally, COVID-19 vaccine was first made available to:

- the elderly
- healthcare workers
- people with compromised immune systems
- people living in group settings
- First Nations, Inuit and Metis individuals
- people who could not work from home

Why did vaccination eligibility and recommendations change?

Local leadership of vaccine rollout: Huron Perth Mass Vaccination Advisory Committee (HPMVAC)

The COVID-19 vaccination rollout was the largest vaccination effort in Ontario, including in Huron Perth. As lead agency, HPPH's main role was to coordinate the local delivery and administration of vaccine, ensuring that everyone who wanted to be vaccinated in Huron Perth could access and receive vaccine.

Drawing on the mass immunization plans from the former Huron County and Perth District Health Units, key areas of HPPH focus included:

- Vaccine supply and management
- Long-Term Care Home (LTCH)/ Retirement Home (RH) roll out
- Supporting training and education for immunizers
- Communication across community and stakeholders
- Logistics (facilities, transport, staffing, etc.), information technology and data support and management

The **Huron Perth Mass Vaccination Advisory Committee (HPMVAC)** formed in December 2020 to guide the local COVID-19 vaccine rollout. HPMVAC was a collaborative of numerous stakeholders including Huron Perth Public Health, the Huron Perth and Area Ontario Health Team (representing more than 60 organizations including, but not limited to, hospital, paramedics, primary care, community and home care, mental health and addictions services, long-term care), pharmacy sector representation and municipalities. Under the leadership of Huron Perth Public Health, the committee played a critical role in guiding the COVID-19 vaccination rollout, including strategic decisions, coordination, and communication of vaccination activities locally.

As mentioned, when vaccine first arrived, the Ministry of Health/ COVID-19 Vaccine Task Force directed who would receive COVID-19 vaccine first. In January 2021, HPPH, Middlesex-London Health Unit, and Southwestern Public Health formed the COVID-19 Vaccine Prioritization Advisory Committee. The group's role was to help further prioritize vaccine eligibility at a regional level when necessary.

“
I really appreciated...
EMS and their calm presence responding to needs in the building or in the parking lot.
”

This committee voluntarily disbanded on May 5, 2021, once the regional vaccine supply was well established. With the majority of Huron Perth residents vaccinated against COVID-19 by early 2022, the partners involved in HPMVAC decided to move into a longer-term sustainable vaccination model with support from community partners. As such, the committee voluntarily disbanded on February 10, 2022.

Why did vaccination eligibility and recommendations change?

Delayed second doses and “mixing” vaccine products

Limited vaccine supply at the beginning of vaccination efforts meant that Canada made some decisions based on general principles of immunology and previous experience with vaccines, such as the understanding that longer intervals between doses generally lead to more robust immune responses. For example, Canada chose a “first doses first” strategy during the spring of 2021. This meant that instead of providing a second dose three weeks after the first dose for fewer people, Canada chose to provide second doses up to 16 weeks later for populations who were at less risk. This freed up more vaccine to use as first doses for more people, providing broader population coverage.

Researchers also determined that the two different mRNA vaccines could be used safely in the same series. This meant that people could receive one mRNA vaccine, such as Pfizer, for their first dose and the other available mRNA vaccine, Moderna, as a second dose (or the other way around). People’s ability to “mix vaccine products” and take the first vaccine

“ ”

Kudos from the public...

- FYI... I took my husband to the vaccine clinic in Goderich yesterday. Just wanted to say how well the clinic was run. No waiting in line and everyone was very pleasant and helpful. Made the visit very pleasant for someone 80 years old. Keep up the good work.
- My wife and I received our first COVID shots last Friday. I just wanted to say kudos to all the health unit staff and volunteers. It was a smooth well-oiled machine. Everyone was polite, helpful and informative. Keep up the good work and thank you to all who are putting in the long hours.

”

available to them meant that any slow downs in the supply of Pfizer or Moderna wouldn’t keep people from being able to receive timely mRNA vaccine protection against COVID-19.

“ ”

Clinic staff were moved by...

- The clients that said ‘Thank you for doing this.’ Some had tears of joy knowing they would be safer from COVID.
- The genuine relief and appreciation for the clinics and public health efforts. You could see client’s stress and anxiety melt away and it was a truly joyous experience to be able to celebrate with them. I have enjoyed being part of such a positive and uplifting environment!

”

Why did vaccination eligibility and recommendations change?

Monitoring safety and adjusting recommendations

After a vaccine is studied and approved, it is still monitored through **post-market surveillance**. This means that all possible vaccine reactions are collected by health care providers, and then studied by doctors and scientists.

An adverse event following immunization (AEFI) is an unwanted or unexpected health effect that happens after someone receives a vaccine; this health effect may or may not be caused by the vaccine. However, public health agencies investigate and review all AEFI information to see if there are any safety concerns that did not appear in the original clinical trials.

Health care providers (physicians, nurses and pharmacists) are required by law to report AEFIs and some AEFIs can also be voluntarily self reported by vaccine recipients or their caregivers. Reports should be made using the Ontario AEFI Reporting Form and sent to the local public health unit. Submitting a report does not mean that the vaccine caused the event⁵.

Monitoring AEFIs for the original COVID-19 vaccines resulted in the following changes:

AstraZeneca

In spring of 2021, Ontario paused the rollout and administration of first doses of the AstraZeneca vaccine.

The province decided to stop AstraZeneca out of an abundance of caution due to an observed increase in the rare blood clotting condition, known as vaccine-induced immune thrombotic thrombocytopenia (VITT). The decision to pause the rollout was also based on the increased and reliable supply of the Pfizer and Moderna mRNA vaccines and the downward trend in cases in Ontario.

“
What kept me going was...
Every shift was different; I met so many wonderful community members and thoroughly enjoyed all the folks I worked with.
”

Pfizer recommended for people ages 18-24

In the fall of 2021, the province recommended that people ages 18-24 receive the Pfizer vaccine instead of the Moderna vaccine. This was because Ontario's AEFI system indicated an increase of a very rare heart condition called pericarditis/myocarditis following vaccination with Moderna compared to Pfizer in the 18 to 24 year old age group, particularly among males. The majority of reported cases were mild and the cases recovered quickly, usually with anti-inflammatory medication.

While the risk of pericarditis/myocarditis was higher with Moderna than with Pfizer, a person runs a greater risk of cardiac complications, including myocarditis, if they become infected with COVID-19^{6,7}.

Since December 2020, millions of people have received vaccinations worldwide. Evidence continues to show that vaccines are safe, effective and protect against severe illness and death from COVID-19. As with all other vaccines, post-market surveillance through AEFIs continues for COVID-19 vaccines.

Why did vaccination eligibility and recommendations change?

Huron Perth Adverse Events Following Immunization (AEFIs)

An adverse event following immunization (AEFI) may range from local redness lasting more than four days to more severe outcomes. Between December 2020 and the end of March 2022 HPPH investigated 389 reported COVID Vaccine AEFIs.

Public health investigates reported AEFIs to determine whether they meet the confirmed case definition: An AEFI is any untoward medical occurrence which follows immunization and which does not necessarily have a causal relationship with the usage of the vaccine.

After Public Health Ontario (PHO) consultants analyzed and reviewed the COVID AEFIs reported by HPPH, 365 cases did meet the required classification. This equates to 0.12% of the 295,899 COVID-19 vaccine doses administered in Huron Perth between December 2020 and March 31, 2022, or a reporting rate of 120 AEFIs per 100,000 doses of vaccine administered. In Ontario to date (December 2020 to January 2023) 0.06% of all vaccine doses administered have resulted in an AEFI, a reporting rate of 60.5 per 100,000 doses administered⁸.



Above: Over the last two years HPPH along with community partners have provided many COVID-19 vaccinations.

“

It felt so good...

- At the end of every day to feel that I had contributed as a healthcare worker in a meaningful way.
- To be a part of the team helping to keep our families, friends and community members safe!

”

Vaccination clinics in Huron Perth

Early days and cold chains

When the COVID-19 vaccine rollout began in Ontario in December 2020, Canada's vaccine supply was extremely limited. The first vaccine available was Pfizer BioNTech.



In this early stage, there were many challenges to ensure appropriate storage and handling of the original Pfizer vaccine. The process of safely shipping and storing a vaccine product **while maintaining the required temperature** is called a **cold chain**. The cold chain for the Pfizer BioNTech vaccine required ultra cold freezers (-90 to -60°C). Thanks to the generous donation of Bruce Power, HPPH was able to obtain an ultra cold freezer to store the vaccine.

Health care workers had to follow very strict storage and handling rules for the Pfizer vaccine, including:

- Once thawed, the original formulation needed to be mixed and gently turned over, but could not be shaken.
- Mixed vaccine needed to be used within six hours.
- Transport time of thawed vaccine could not exceed 12 hours.
- Vaccine needed to be protected from light and stored upright.

When transporting vaccine it needed to be protected from shocks, drops and vibration. This was accomplished by wrapping the vaccine vials (containers) in foam.

With further development of the COVID vaccine, more stable vaccine formulations were produced. These more stable forms did not need such specialized storing tools and handling techniques.

“
On my very first shift, I felt...
Terrified to mishandle the vaccine: 4 nurses, 4 vials of Pfizer, only 24 long-term care home residents. It took us 4 hours to do the process ... Wow, how far we have come since then!
—PUBLIC HEALTH NURSE
”

“
I will not forget...
• My hands shaking while handling the vaccine in the first few weeks.
• Wonderful community members who were eager to volunteer their time to help make the mass clinics run smoothly!
”

Vaccination clinics in Huron Perth

HPPH Mass Vaccination clinics

HPPH, with the support of HPMVAC partners, operated Mass Immunizations Clinics (MICs) to provide COVID-19 vaccine in communities across Huron and Perth counties. At clinics, people could be vaccinated in a semi-private area, in their vehicle, or in other ways that accommodated their needs. Once youth vaccinations were available, HPPH clinics offered a family-friendly environment, including games and stickers at each vaccinator station.

Local Rotary Clubs (Rotary Club of Stratford, Festival City Rotary Club, Rotary Club of Mitchell and the Rotary Club of Goderich) took on the massive job of volunteer coordination.

Hundreds of volunteers, Rotarians and community-minded citizens stepped up to lend a hand to the health care professionals who administer vaccinations nearly every day.

“

I was at the first few clinics offered...

in Huron/Perth, and I remember the tears of joy the clients had. A few times I would share a little cry with a client as they shared their reasons for getting vaccinated.

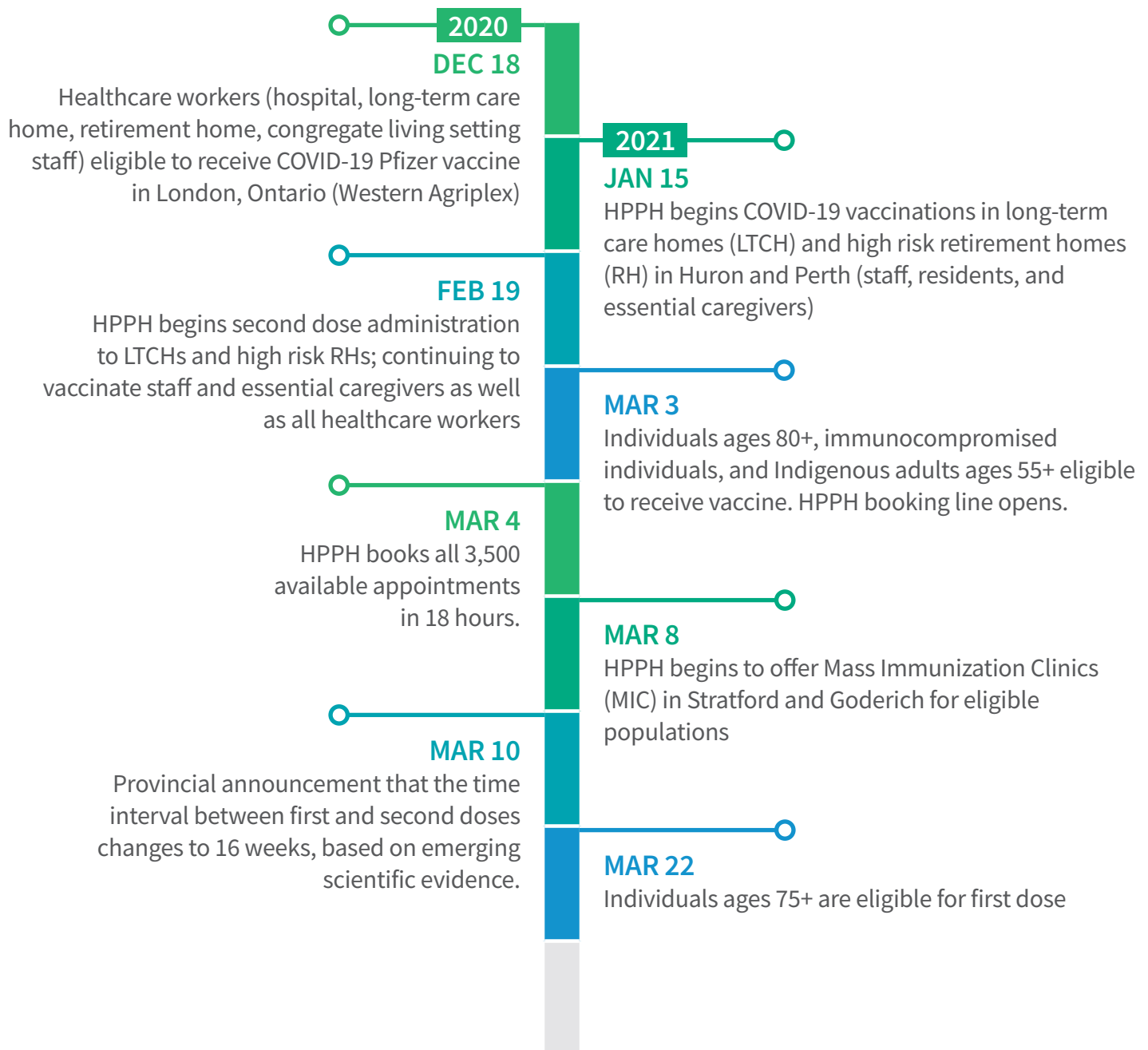
And then the days got long, really long and the number of clients in a day kept growing and growing!! The lugging of koolatrums and suitcases full of technology was tiring, and to top it off the eligibility changed frequently...sometimes mid-clinic!! Somehow, we managed to find a new stride and were able to make it fun! It was great to meet new HPPH staff, paramedics, community partners, physicians, etc. We all worked together to get it done!!

”

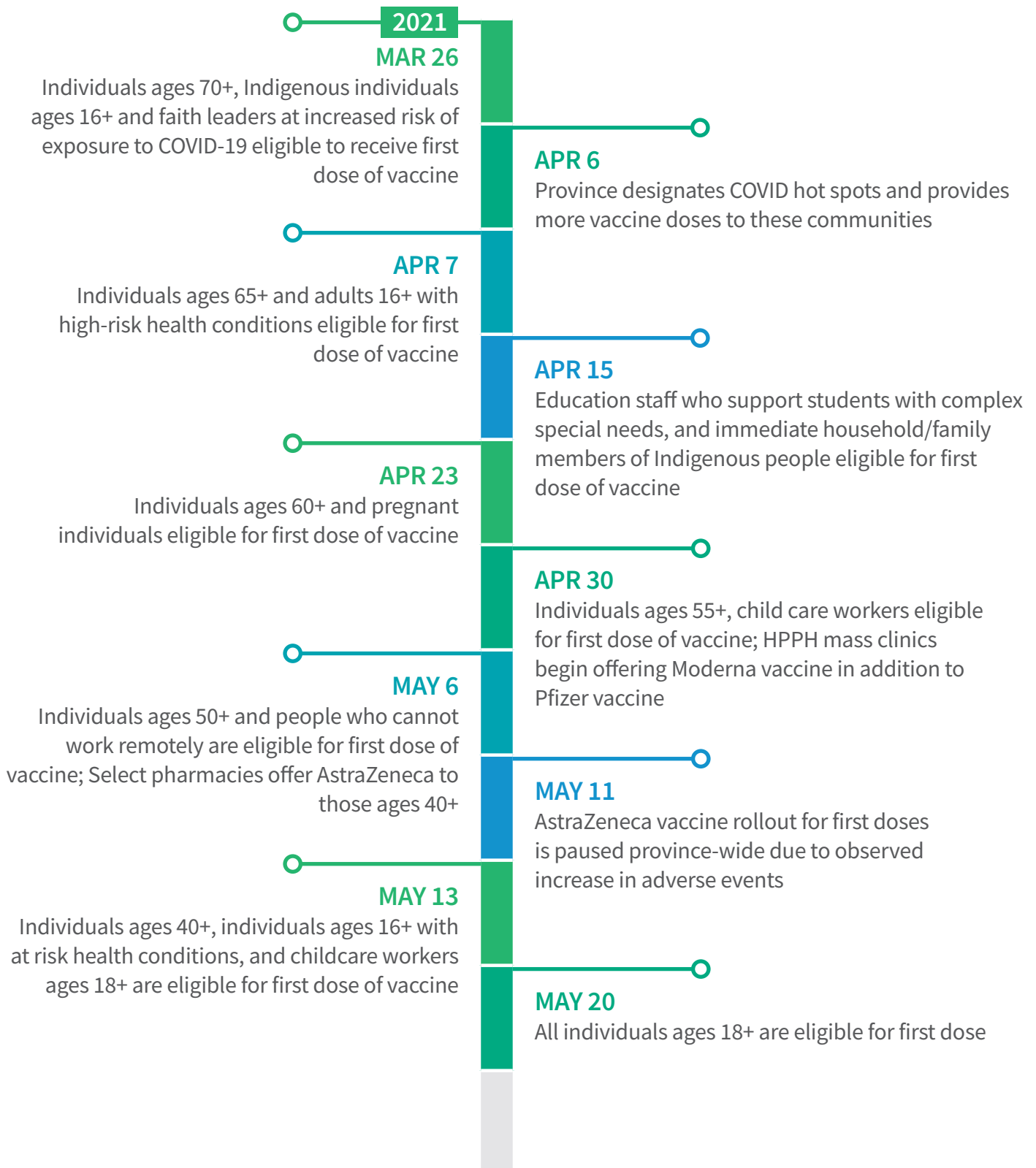
Timeline of vaccine eligibility and products

Huron Perth COVID-19 vaccine timeline:

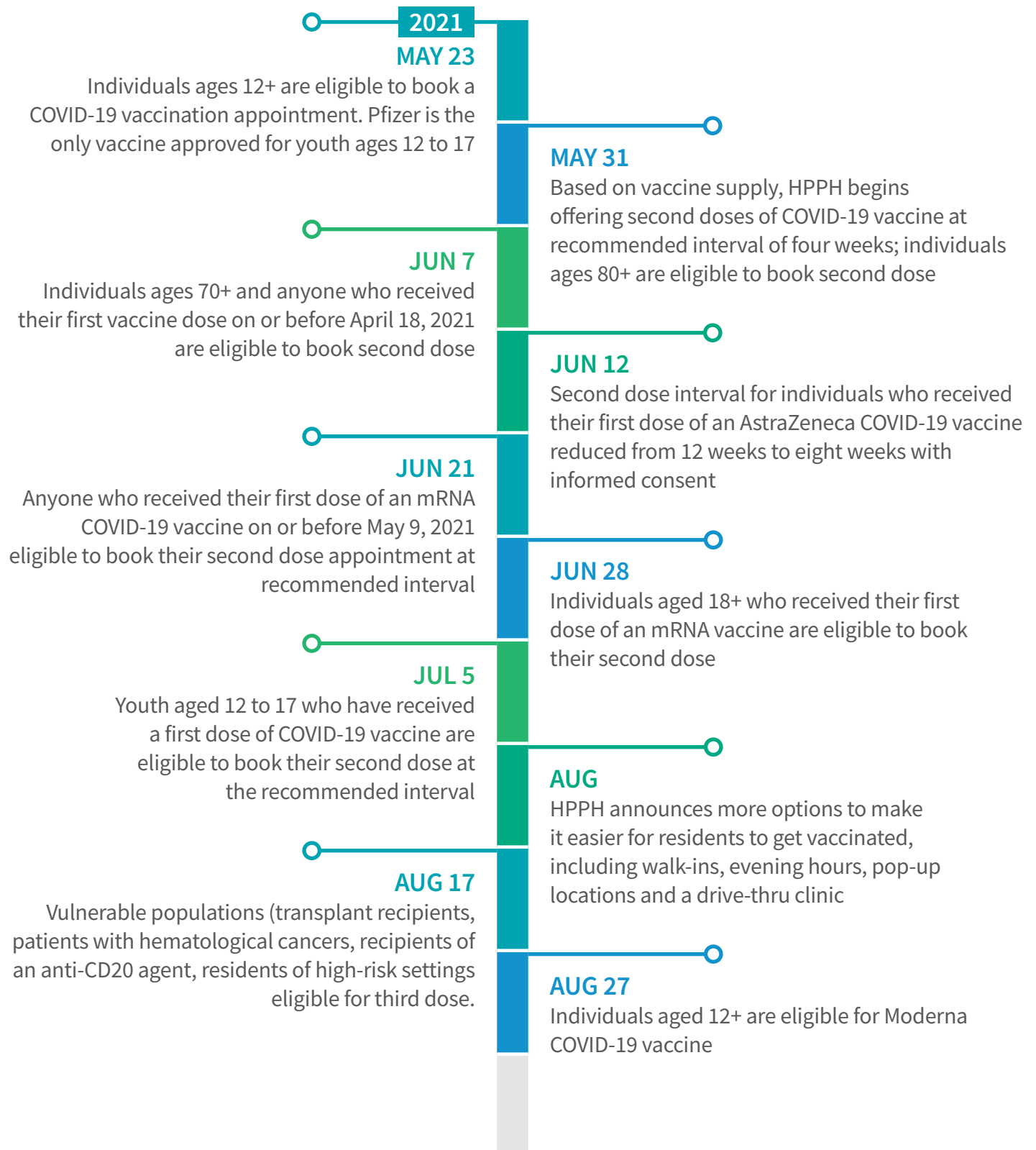
December 2020 to March 2022



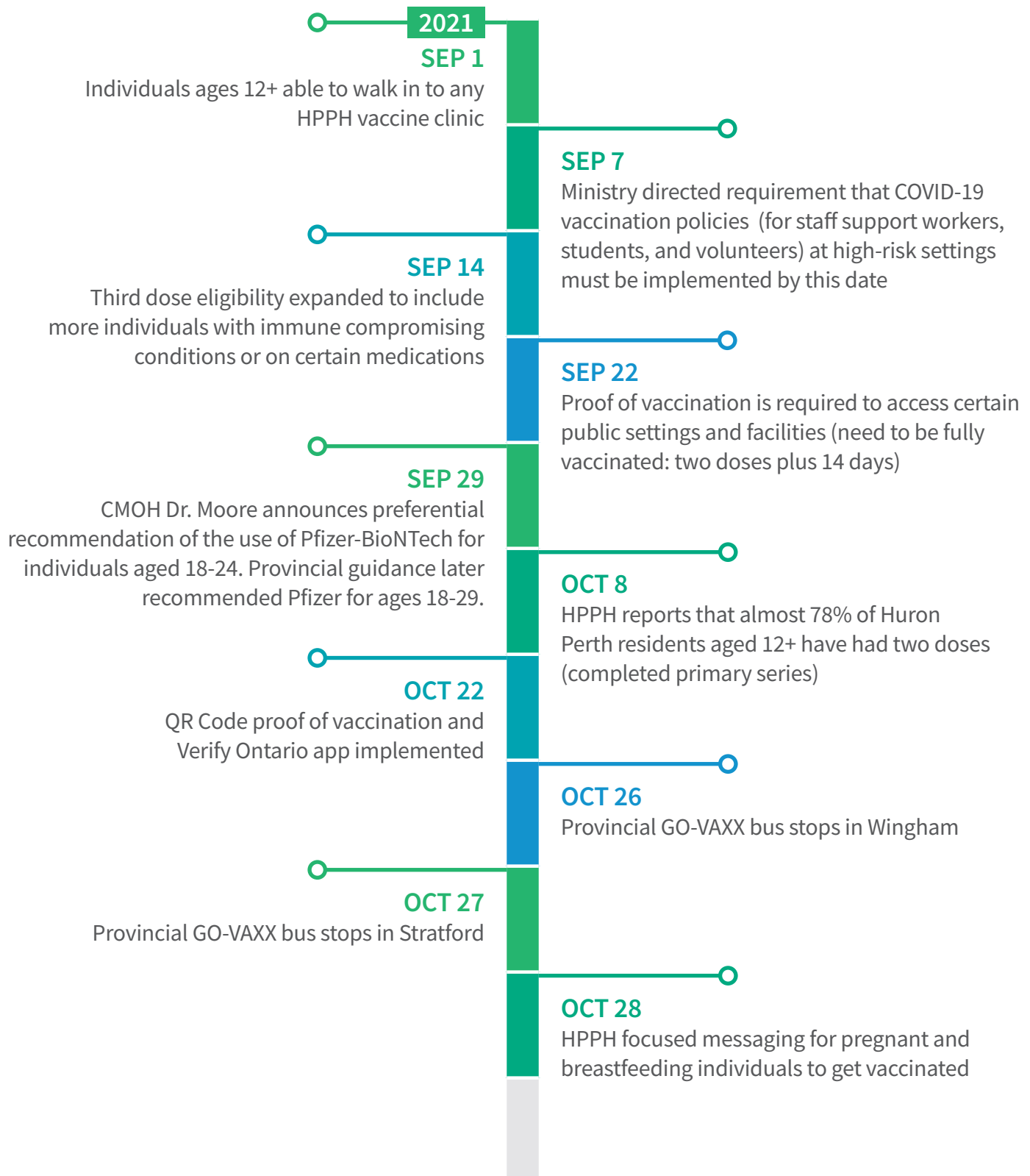
Huron Perth COVID-19 vaccine timeline: December 2020 to March 2022



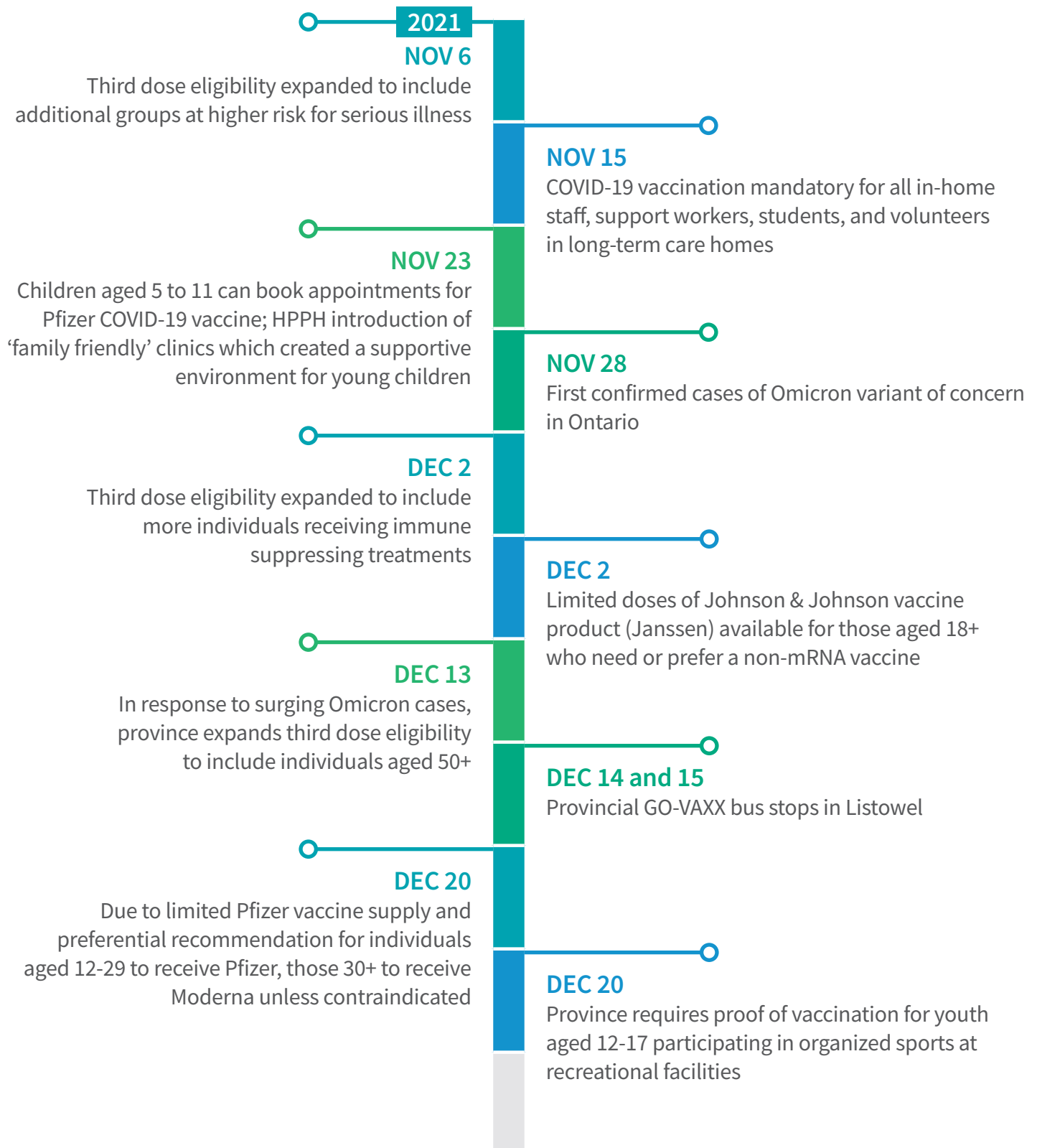
Huron Perth COVID-19 vaccine timeline: December 2020 to March 2022



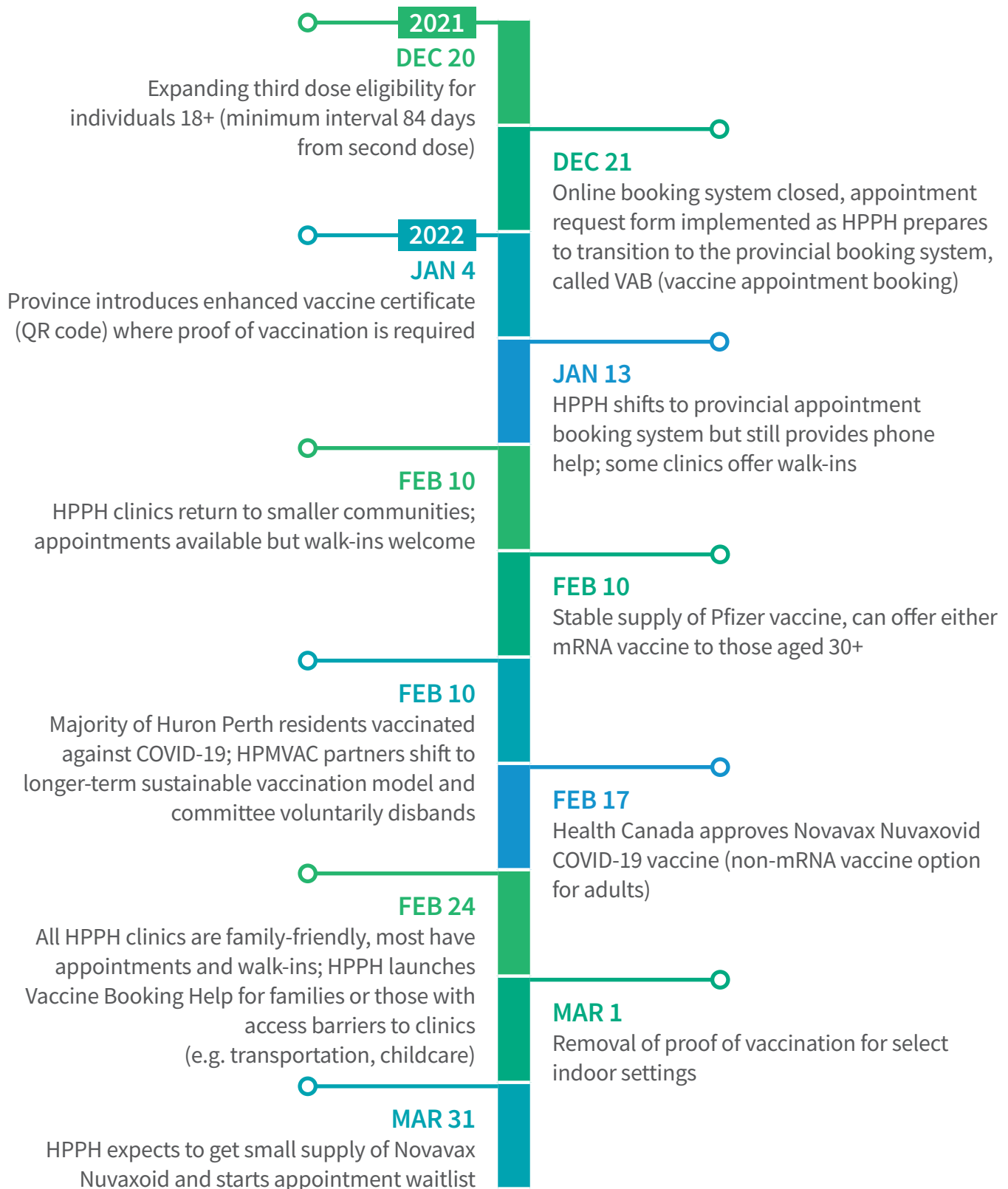
Huron Perth COVID-19 vaccine timeline: December 2020 to March 2022



Huron Perth COVID-19 vaccine timeline: December 2020 to March 2022



Huron Perth COVID-19 vaccine timeline: December 2020 to March 2022



Vaccine stats

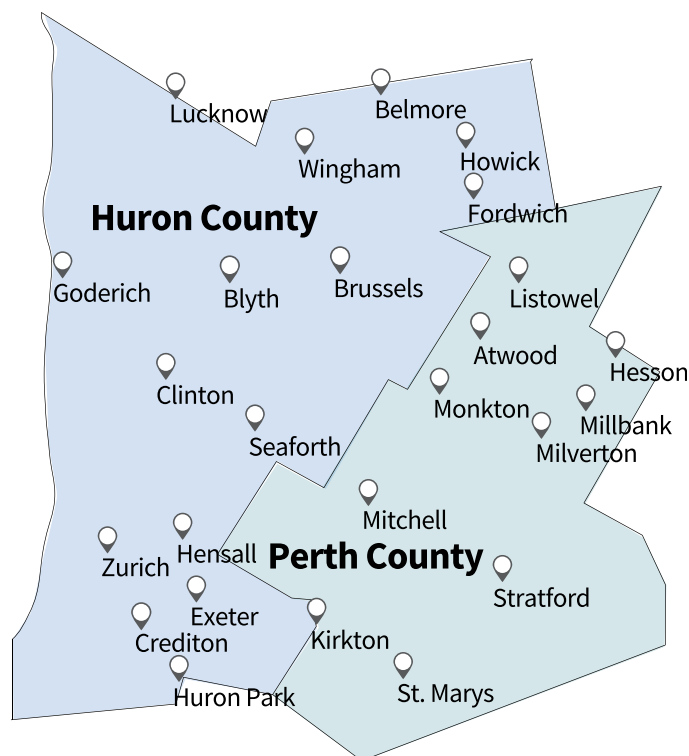
December 2020 to March 2022

295 899

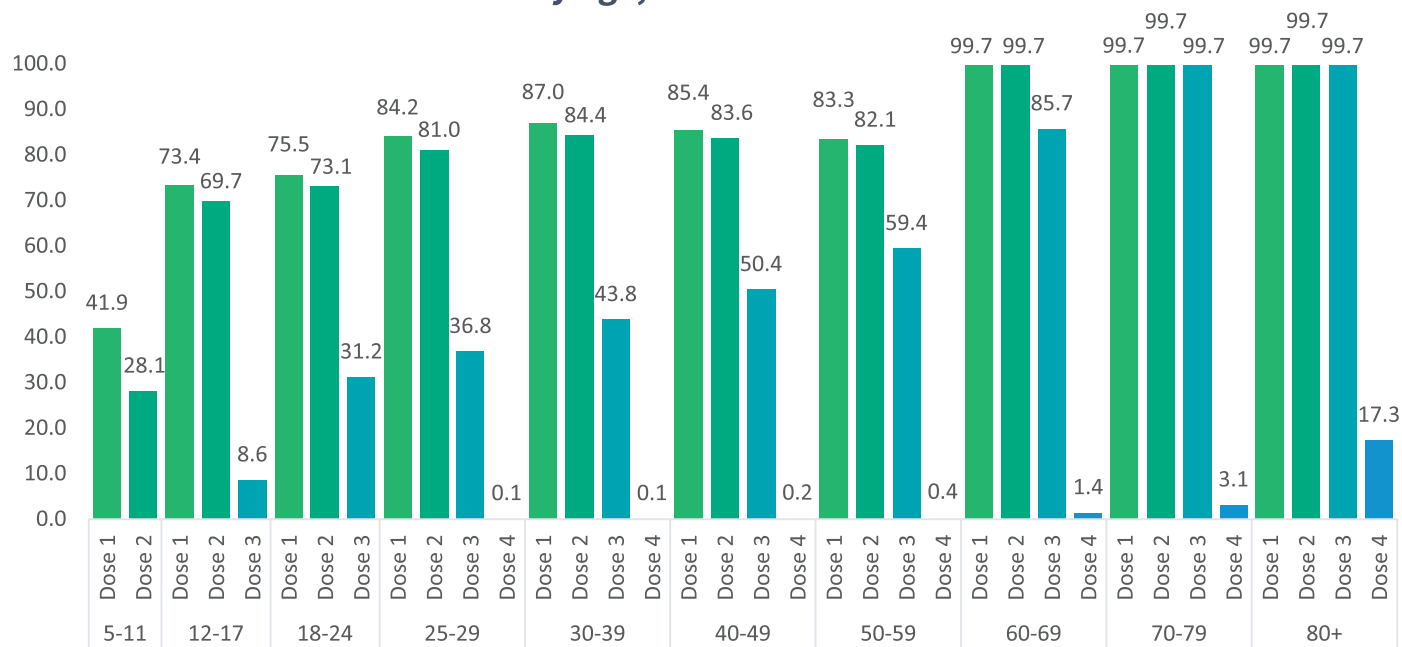
Vaccine doses administered in Huron Perth to residents and non-residents

COVID-19 mass vaccination clinics

HPPH held 330 mass vaccination clinics beginning in February 2021 – 155 in Huron and 175 in Perth. The map shows the communities where clinics were held.



Coverage of Huron Perth residents for COVID-19 vaccine doses by age, Dec 2020-Mar 2022



Note: Data for this graph are based on vaccine dose records assigned to HPPH. Age is calculated as the age at date of vaccination. Some age groups were not eligible for a third or fourth dose before March 31, 2022.

Making an appointment: Booking system behind the scenes

In order to start COVID-19 vaccination clinics as soon as supply was ready, HPPH built its own COVID vaccine appointment booking system in February 2021. When mass vaccination across the province began, having our own booking system allowed HPPH to quickly add clinics and increase the size of clinics based on changing eligibility.

This system included a separate phone line. When there were many calls and voice mail messages, staff working in office or from home with cell phones would also return calls.

When general eligibility expanded we had clinics filling within minutes of booking opening. It only took 18 hours for our first 3,500 appointments to be filled. Booking and clinic logistics staff worked closely together, often seven days a week, to add and fill new clinics as quickly as possible.

While trouble-shooting was ongoing, the HPPH internal booking system was used until August 2021. As the complexity of eligibilities increased, HPPH recognized the need for a new system. In the fall of 2021, HPPH switched to an appointment booking tool on our website. Despite some limitations, this new tool allowed smooth booking by the public.

During the Omicron surge of December 2021 into early January 2022, vaccine eligibility expanded and overall demand for COVID-19 boosters increased. This demand caused the booking system to become overloaded resulting in a system failure just before the end of December 2021. To resolve this issue we came up with a number of stop gap solutions such as filling clinics by phone and returning more than one thousand messages.

Booking and logistics staff worked over the 2021 winter holidays to book as many people as possible into clinics.

In January 2022, due to increased functionality of the provincial booking system, HPPH transitioned to the provincial vaccine appointment booking system (VAB). The province supported HPPH with training and implementation of the new system. It allowed clients to book via the provincial website, call centre, and through HPPH booking staff.

Across all booking platforms, 179,600 appointments were booked for COVID vaccine clinics in Huron Perth between February 2021 and March 2022.

Community partners also helped their clients and community members book appointments and sometimes supported transportation to clinics as well. Several local agencies under the Community Support Services Network were important to help local seniors book and get to their clinic appointments.

HPPH is grateful to the participating agencies of the Huron Perth and Area Ontario Health Team (HPA-OHT). The HPA-OHT is made up of more than 60 organizations including, but not limited to, hospitals, paramedics, primary care, community and home care, mental health and addictions services and long-term care. Among the many contributions of this group, HPPH is grateful for all the HPA-OHT members who shared information on vaccination opportunities and assisted clients with booking vaccine appointments.

Vaccine communications

Communicating with the public

Demand was high as COVID-19 vaccines started to arrive in Ontario. HPPH received many phone calls, emails and social media messages as people looked to get vaccinated.

As more people became eligible for vaccine, and different vaccine products became available, there was a large amount of information to communicate. It was important to provide timely and accurate information to address questions about vaccine safety and effectiveness, and to let people know when and where they could receive vaccine.

Early in the pandemic, HPPH created a team called COVID Intake and set up a dedicated phone line and email to respond to the high volume of inquiries from the public.

COVID Intake staff received over 27,000 phone and email inquiries from October 2020 to March 31, 2022. Over 2000 of those inquiries came in March, April and June of 2021. Vaccines generally were the most popular topic.

Web stats

COVID-19 Vaccine: Booking Appointments | **1 214 990 views** | 27.0% of website visits for 2021

Frequent updates to the HPPH website were needed. The "Get a vaccination" webpage was updated **1,196 times** between March 3, 2021 and March 31, 2022.

HPPH provided many avenues to connect with the public to discuss the COVID-19 vaccine effectiveness, HPPH vaccine clinics, and other questions or concerns about COVID-19 vaccination. We created videos with local physicians to answer common vaccine questions and posted them on the HPPH YouTube channel. We also created vaccine clinic videos to show adults and children what to expect when getting vaccinated at an HPPH clinic. We also hosted Facebook Live events with community partners such as schools and local physicians, as well as telephone town hall sessions, to provide information and answer questions about vaccines.

Vaccine communications

Vaccine hesitancy and communicating during an “infodemic”



Vaccination has been used for over 200 years to protect people against various diseases. By August 12, 2021, five months after COVID-19 vaccinations began in Huron Perth, about 70% of Huron Perth residents had received their complete primary COVID vaccination series. However, some residents were hesitant about receiving the vaccine; this made vaccine hesitancy a topic for HPPH and health care partners to focus on. The main reasons for hesitation included the apparent speed of vaccine creation and the use of mRNA technology.

COVID vaccinations, much like the rest of COVID response, was affected by an “infodemic”. Infodemic refers to a rapid and far-reaching spread of both accurate and inaccurate information. HPPH and other health sector agencies had to share information as well as respond to misinformation.

“
I was surprised...
 that asking a simple question to distract people during the injection brought such rich responses. The question was ‘How is your summer going?’
 Favourites include:
 • ‘I am a farmer and I vaccinate my cattle.’
 • ‘I’m a carpenter and that is why I signed my consent form with a carpenter’s pencil.’
 ”

This sharing was done by:

- answering thousands of individual phone calls, emails and social media messages;
- hosting several Facebook Live events, including with local physicians, and with school board representatives;
- creating question and answer videos; and
- sharing joint statements from groups like the Huron Perth Primary Care Providers.

Conclusion

When COVID-19 appeared, it was capable of infecting every single person on the planet since no one had immunity in 2020. The virus had the potential to seriously overwhelm healthcare systems across the globe and disrupt societies through simultaneous, widespread illness and deaths.

Immunization was a critical factor in helping humans get through the acute phase of the COVID-19 pandemic. Since the development of the first vaccine over 200 years ago, immunization has been widely recognized as one of the most effective public health interventions for reducing the impact of infectious diseases. Once Health Canada authorized safe and effective COVID-19 vaccines, and the province approved their administration, Huron Perth along with the rest of Ontario embarked on a historic vaccine rollout.

Huron Perth Public Health, and our partners in the Huron Perth Mass Vaccination Advisory Committee are immensely proud of the hard work and dedication from all partners. The success of local vaccination efforts was only possible because of dedicated community partners and an enthusiastic community.

HPMVAC members extend their gratitude and appreciation for everyone involved in local vaccination efforts, and everyone who has done their part to reduce the spread of COVID-19 in our community.

High vaccination rates and COVID-19 infection have led to good levels of population immunity; however, immunity typically wanes with coronaviruses and scientists have confirmed that COVID is no exception. Even though immunity against acquiring infection wanes over time, protection against severe disease persists. Some people (such as those with advanced age and pregnant women) remain at higher risk of severe outcomes.

New variants also continue to emerge. This means that our communities must maintain our strong wall of immunity with boosters, especially those at higher risk for severe illness from COVID-19 infection or whose loved ones or clients are at higher risk. While many people infected with COVID-19 experience only mild illness, others may get a severe illness or even die. There is no way to know how COVID-19 will affect an individual, even if they

are not at increased risk of severe complications. The higher the number of people with immunity, the less likely the virus will be to replicate, mutate, and possibly 'escape' the protection provided by vaccines.

Although we know a lot more about COVID-19 and have tools to control its spread, there is still much uncertainty about how the virus will behave over the longer term.

This means that COVID-19 vaccination will remain an important tool HPPH uses to protect community members from the severe outcomes of COVID-19 infection, and to protect healthcare system capacity.

We encourage you to stay up to date and consult your healthcare provider about COVID-19 and any other vaccinations for which you are eligible.

“
Clinic staff were moved by...
 • The seniors who cried with relief when they got their first vaccines. That sense of safety we provided them with still puts me to tears.
 ”

References

“

Clinic staff really enjoyed...

- Learning about the diverse communities throughout Huron Perth through the vaccination experience.
- There were town folks, farmers, migrant workers, Anabaptists, indigenous communities. As a newcomer to Stratford this has enriched my understanding and appreciation of Huron Perth.
- Recognizing people I went to high school with accompanying their parents to the clinic as soon as they became eligible.
- The camaraderie.
- All the community partners we got to know and develop closer bonds with during this time.
- The inspiring COVID t-shirts worn by some of our physician partners.

”

1. [Vaccines and treatments for COVID-19: Progress.](#) Government of Canada.
2. [The long history of mRNA vaccines.](#) Chris Beyrer. Johns Hopkins Bloomberg School of Public Health.
3. [Understanding how COVID-19 vaccines work.](#) Centers for Disease Control and Prevention.
4. [Ethical framework for COVID-19 vaccine distribution.](#) Ontario Ministry of Health.
5. [Vaccine safety.](#) Public Health Ontario.
6. [Ontario recommends the use of Pfizer-BioNTech COVID-19 vaccine for individuals aged 18-24 years old.](#) Government of Ontario.
7. [Statement from the Council of Chief Medical Officers of Health \(CCMOH\): Update on COVID-19 vaccines and the risk of myocarditis and pericarditis.](#) Government of Canada.
8. [Adverse events following immunization \(AEFIs\) for COVID-19 in Ontario: December 13, 2020 to January 29, 2023.](#) Public Health Ontario. Accessed 13 Feb. 2023.



www.hpph.ca



1-888-221-2133



hpph@hpph.ca



**Ministry of
Municipal Affairs
and Housing**

Office of the Minister

777 Bay Street, 17th Floor
Toronto ON M7A 2J3
Tel.: 416 585-7000

**Ministère des
Affaires municipales
et du Logement**

Bureau du ministre

777, rue Bay, 17^e étage
Toronto (Ontario) M7A 2J3
Tél. : 416 585-7000



234-2023-1754

April 6, 2023

Good afternoon,

Today, our government announced further action to tackle the housing supply crisis and reach our goal of 1.5 million homes by 2031. The *Helping Homebuyers, Protecting Tenants Act* is the latest in a series of steps our government is taking to increase housing supply and help more Ontarians find a home they can actually afford.

Despite external economic challenges that are slowing down new home construction, including inflation and soaring interest rates, Ontario's plan to build more homes faster is working – with the highest number of housing starts in more than 30 years in 2021 and 2022, and the highest number of rental housing starts on record last year.

Details about the range of measures in our plan can be found in the [news release here](#).

As part of the plan, our government is introducing a new province-wide planning policy document that would provide municipalities with more flexibility, reduce duplication, create more homes in urban and rural communities, support local economies and create jobs while continuing to protect the environment (including existing Greenbelt protections), and public safety. It would also require coordination between municipalities and school boards to consider school and childcare needs earlier in the planning process, so that families moving to new housing can expect that local schools will be available for their children.

Ontario is undertaking a 60-day consultation on the proposed new Provincial Planning Statement until June 6, 2023 <https://ero.ontario.ca/notice/019-6813>.

In addition, the plan contains numerous actions to further tackle Ontario's housing crisis, including:

- A \$6.5 million investment to appoint an additional 40 adjudicators and hire five staff to improve service standards and continue to reduce active applications and decision timeframes at the Landlord and Tenant Board. This increase more than doubles of the number of full-time adjudicators at the Landlord Tenant Board.

- Proposed changes to make life easier for renters, with changes that would, if passed, clarify and enhance tenants' rights to install air conditioners. We are proposing to further strengthen protections against evictions due to renovations, demolitions and conversions, as well as those for landlord's own use.
- Proposed changes to the *Planning Act*, *City of Toronto Act*, and *Ministry of Municipal Affairs and Housing Act* to support the proposed new Provincial Planning Statement as well as other housing supply priorities.
- Doing more to protect first-time home buyers and their savings by expanding deposit insurance for First Home Savings Accounts held at Ontario credit unions.
- We are exploring a cooling-off/cancellation period on purchases of new freehold homes, and a requirement that purchasers of all new homes receive legal advice on their purchase agreements when they make one of the biggest purchases of their lives – a new home.

These and other related consultations can be found through the [Environmental Registry of Ontario and the Ontario Regulatory Registry](#).

Our plan was informed by AMO's 2022 A Blueprint for Action and ROMA's 2022 Task Force Report on Attainable Housing and Purpose-Built Rentals. These changes build on our continued work to provide a solid foundation to address Ontario's housing supply crisis over the long term and will be supplemented by continued action in the future.

The housing supply action plan is the latest in a series of steps our government is taking to increase housing supply and help more Ontarians find a home they can afford. We look forward to continued collaboration with our municipal partners to create the homes that Ontarians need today, tomorrow and in the decades to come.

Sincerely,



Steve Clark
Minister

c. Chief Administrative Officer



Corporation of the Municipality of Calvin

Motion by: Councillor Moreton

Seconded by: Councillor Grant

WHEAREAS an announcement in the media was made that the English Public School Boards Association, the largest school association in the Province, is asking for the end of the moratorium on most pupil accommodation reviews;

AND WHEREAS this announcement potentially threatens the future closure of schools in many single school municipalities;

AND WHEREAS access to education and the presence of a school in a community is an essential service and has a direct link to the quality of life in a community;

AND WHEREAS schools play a key role in improving services and quality of life in a community and are viewed as activity centres where children have access to education, health services, recreation and culture;

AND WHEREAS schools are an important factor in the retention and attraction of residents in a community and is essential in order to resolve labour shortages and allow economic development and growth in small rural municipalities;

AND WHEREAS demographics in many areas are currently shifting and changing quickly as we work on meeting the needs of many Ontario residents during a housing crisis;

NOW THEREFORE BE IT RESOLVED that Council is requesting the provincial government through the Minister of Education to extend the moratorium on most pupil accommodation reviews in order to allow municipalities, townships, neighbourhoods and subdivisions the opportunity to prosper, develop and grow without being hindered by school closures due to low enrollments that could quickly change.

FURTHER BE IT RESOLVED that this resolution be forwarded to Premier Doug Ford, MPP Victor Fedeli and all Ontario Municipalities. **Resolution Number: 2023: 054 Carried**



Township of Lucan Biddulph

270 Main Street
P.O Box 190, Lucan, Ontario N0M 2J0
Phone (519) 227-4491; Fax (519) 227-4998

March 22, 2023

VIA EMAIL

Premier of Ontario
Legislative Building
Queen's Park
Toronto, ON M7A 1A4

Attention: Doug Ford, Premier

Dear Mr. Ford:

RE: Barriers for Women in Politics

Please be advised that the Council of the Corporation of the Township of Lucan Biddulph at its meeting held on March 21, 2023 passed the following resolution:

Resolution No. 2023-095
Moved by D. Regan
Seconded by A. Westman

WHEREAS, the Township of Lucan Biddulph values equality and inclusivity in all areas of life, including politics;

WHEREAS, women have historically been underrepresented in politics, and continue to face barriers and discrimination in their pursuit of elected office;

WHEREAS, misogyny and harassment have been identified as significant challenges for women in politics, both in Canada and around the world;

WHEREAS, the Township of Lucan Biddulph believes that all individuals have the right to participate in a political environment that is free from discrimination, harassment, and misogyny;

THEREFORE, BE IT RESOLVED, that the Township of Lucan Biddulph expresses its support for women in politics and their right to participate in a political environment that is free from misogyny and harassment, and where everyone feels equal.

BE IT FURTHER RESOLVED, that the Township of Lucan Biddulph commits to taking steps to ensure that our political environment is inclusive and welcoming to all individuals, regardless of gender, race, ethnicity, religion, sexual orientation, or other identity factors.

BE IT FURTHER RESOLVED, that the Township of Lucan Biddulph encourages other municipalities in Ontario and across Canada to join us in supporting women in politics and promoting gender equality in all areas of society.

BE IT FURTHER RESOLVED, that a copy of this resolution be sent to all Ontario Municipalities for endorsement, the Premier of Ontario, the Minister of Municipal Affairs and Housing, Middlesex County MP and MPP, and the Association of Municipalities of Ontario to express the Township of Lucan Biddulph's commitment to this issue and encourage action at the provincial level to create legislation to ensure equality, safety, and security.

CARRIED

If you require any additional information, please contact my office.

Sincerely,

A handwritten signature in black ink, appearing to read 'Ron Reymmer', with a stylized flourish at the end.

Ron Reymmer
CAO/Clerk

cc. All Ontario Municipalities
Steve Clark, Minister of Municipal Affairs and Housing
Lianne Rood, MP – Lambton, Kent, Middlesex
Monte McNaughton, MPP – Lambton, Kent, Middlesex
Association of Municipalities of Ontario

Outstanding Action Items
Open Session

April 11

Meeting Date	Action Item	Action By	Current Status	Last Action Date	Next Step
September 20, 2022	Development Guidelines	CAO	By-law presented April 11		None.
December 6, 2022	Review cap on Cost of Living Adjustments	CAO	Staff to draft report for Council consideration		Present report to Council with options.
February 21, 2023	McCallum Resolution	CAO	Background information being gathered		Draft resolution for presentation to Council.



CORPORATION OF THE MUNICIPALITY OF MORRIS-TURNBERRY

BY-LAW NO. 23-2023

Being a by-law to establish Municipal Development and Servicing Guidelines for the Corporation of the Municipality of Morris-Turnberry.

WHEREAS Section 11 of the *Municipal Act*, 2001. S.O. 2001, c. 25 provides that a municipality may pass by-laws respecting matters within the spheres of jurisdiction; and

WHEREAS the Council of the Municipality of Morris-Turnberry deems it desirable to establish Municipal Development and Servicing Guidelines;

NOW THEREFORE, the Council of the Corporation of the Municipality of Morris-Turnberry enacts as follows:

1. That the Corporation of the Municipality of Morris-Turnberry hereby adopts as policy the Municipal Development and Servicing Guidelines as attached hereto as Schedule A; and
2. That this by-law and its Schedules shall supersede all previous by-laws, resolutions and policies inconsistent with the provisions of this by-law;
3. That this by-law shall come into force immediately upon its passing.

Read a FIRST and SECOND time this 11th day of April 2023.

Read a THIRD time and FINALLY PASSED this 11th day of April 2023.

Mayor, Jamie Heffer

Clerk, Trevor Hallam



MUNICIPALITY OF MORRIS-TURNBERRY

**MUNICIPAL DEVELOPMENT AND
SERVICING GUIDELINES**

DRAFT

MUNICIPALITY OF MORRIS-TURNBERRY

MUNICIPAL DEVELOPMENT AND SERVICING GUIDELINES

DRAFT

March 20, 2023

B. M. ROSS AND ASSOCIATES LIMITED
Engineers and Planners
62 North Street
Goderich, ON N7A 2T4
Phone: 519-524-2641
www.bmross.net

File No. 22237

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MUNICIPALITY OF MORRIS-TURNBERRY

MUNICIPAL DEVELOPMENT AND SERVICING GUIDELINES

1.0 GENERAL

1.1 Definitions

In these guidelines the following definitions shall apply:

“Municipality” shall mean Municipality of Morris-Turnberry.

“Developer” shall mean the Owner or party specifically named in a Development Agreement or in a Subdivision Agreement.

“Developer’s Engineer” shall mean professional engineer(s) licensed to practice in Ontario and shall be responsible for the preparation of drawings, specifications, reports and to act on behalf of the Developer in all technical aspects of the Development.

“Planner” shall mean the County and/or the Municipality’s Planner or their designate.

“Contractor” shall mean the firm of Contractors, the company of individuals acting as the Contractor and having entered into a contract with the Developer to construct the Development.

“Municipal Engineer” shall mean the municipal Director of Public Works and/or the engineer or engineering firm appointed as Municipal Engineer by the Municipality.

1.2 Introduction

The design of all municipal services in the Municipality is to be based upon the specifications and guidelines in effect at the time of acceptance. All plans are to be accepted before they are to be used for the construction of services. Such acceptance shall in no way relieve the Developer’s Engineer from providing an adequate and safe design.

1.3 Purpose

The purpose of this document is to aid in the standardization for the design of municipal servicing infrastructure for development in the Municipality of Morris-Turnberry. While these guidelines are primarily aimed at the expansion of residential development within the Municipality, developers, builders, and the general public can use this document as a guide for developments created by consent, for individual site developments, or commercial and industrial areas.

The following two sections have been provided as a general overview of the procedures and steps involved in the completion of the planning and engineering processes related to development in the Municipality of Morris-Turnberry. These procedures are not written as a detailed, step by step list, but rather as a general approach to the subdivision application, or site development process.

1.4 Planning Process

In the Municipality of Morris-Turnberry, land development (i.e., Subdivision and Condominiums) applications are to be submitted to the County of Huron. Application packages and associated guides are available through the County which will provide an overview of the steps to make an application and obtain a decision on a specific proposal. Site Plan applications are to be submitted to the Municipality.

The County of Huron Planning Department should be contacted to arrange for a Preconsultation meeting prior to initiating the planning process for any development. The Preconsultation will assist to identify key planning issues as well as any major technical items including studies (i.e., traffic, noise, servicing, etc.) that may be required as part of the formal submission. The applicant may wish to have their consultant (planners, engineers, etc.) present at this initial meeting. It is anticipated that the following items would be discussed or reviewed:

- County will confirm the Official Plan designation and Zoning, identifying any Official Plan and Zoning amendments which may be required in addition to draft plan approval.
- The necessary application requirements including fees, supporting documents (contour plan, general plan of services, drainage plan, preliminary stormwater management plan, etc.), draft plan drawing requirements, and possible agreements that may be required.
- Timelines and potential scheduling for public meetings and Council meetings.

Following submission of a complete application, it will be processed by County of Huron staff, who will circulate it to the Municipality, community organizations, and required public bodies for comments, as well as to all property owners in the vicinity of the subject site. A Public Meeting must be held, usually in the community, to allow the public an opportunity to provide comments on the proposed plan of subdivision. The County will work with the applicant to address any agency and/or public concerns. A comprehensive report will be prepared by the County, along with draft plan conditions (based on input from agencies and the public) and presented to Council for review and decision. If Council accepts the application and the required appeal period lapses, the draft plan is approved.

As noted, there will be a number of conditions that must be satisfied before final approval of the development can be given. Among the conditions for subdivisions, site plans, and condominiums, there is usually a requirement that the owner enter into a development agreement with the Municipality regarding matters such as the construction of roads and servicing which will require the completion of engineered drawings to the standards contained herein.

1.5 Engineering Process

Following acceptance and approval of the draft plan, the developer shall proceed to the engineering phase of the development process which will include a number of submissions including preliminary and follow-up submissions as required. Prior to the commencement of the Engineering Design, the Developer's Engineer shall obtain copies of the Municipality's Development and Servicing Guidelines to familiarize themselves with the requirements of the development design in the Municipality.

The initial submission of engineering drawings shall be delivered to the Municipality and should include copies of the preliminary drawings and servicing (functional design) report(s). The initial submission of engineering drawings shall also contain a declaration from the Developer's Engineer showing that they have been retained to design and supervise the construction of the development according to the terms of the Development Agreement. The purpose of the initial submission is to review the general design concept prior to the Developer proceeding to detailed engineering. In some cases, this information may have been provided in conjunction with the Draft Plan process. The preliminary drawing and report should consider items such as existing conditions, road alignments, cross section details, railway crossings, parkland dedication, trunk sewers, storm water management and drainage, water distribution, lot grading, sewage conveyance, etc. This document becomes particularly important when servicing is to be phased in conjunction with the development plan. When a development is being phased the servicing report is to include details of how the phasing will occur and how infrastructure may be impacted by such phasing. The servicing report shall confirm that the servicing design does not limit future developments areas. Comments may be provided related to any issues that are evident and the Developer will be asked to update the Engineering Drawings accordingly.

The Developer may be required to submit hydrogeological, hydrology, traffic, acoustical, geotechnical, archaeological, biological or other studies. Appropriate engineering or other consultants shall be retained to complete these reports as part of the applications and submissions required. The Developer's Planner and/or Engineer shall consider future adjacent land uses, and all design and layout of services shall incorporate considerations with respect to future servicing, grading and drainage issues on the adjacent lands. Upon completion of designs and submissions, sufficient copies of preliminary design briefs, agency approval submissions and all final drawings and reports shall be submitted to the Municipality for review by the Municipality and their Engineer.

If the proposed development requires a new water treatment and/or wastewater treatment system(s) to proceed, the Developer and the Developer's Engineer shall start early discussions with the Municipality and the Municipality's Engineer, before the preliminary drawings and servicing (functional design) reports are submitted to determine design criteria and requirements.

Submissions are to be made until the Engineering Drawings, design and reports, are acceptable to the Municipality of Morris-Turnberry and the Municipal Engineer.

Additional details related to drawing requirements and approvals are provided in later sections of this document.

1.6 Development Approvals

Depending on the nature and location of the development proposal within the Municipality the developer may be required to obtain additional approvals from a number of agencies including, but not limited to the following:

- a) The Municipality of Morris-Turnberry and the Municipality's Engineer
- b) The Ministry of the Environment, Conservation and Parks (MECP)
- c) The Ministry of Transportation (MTO)
- d) The Ministry of Natural Resources and Forestry (MNRF)

- e) Fisheries and Oceans Canada (DFO)
- f) The County of Huron
- g) The Huron Perth Public Health
- h) The Maitland Valley Conservation Authority (MVCA) or the Saugeen Valley Conservation Authority (SVCA)

It is the responsibility of the Developer to provide the Municipality with written documentation detailing its application to the various authorities and copies of approval documents from these regulatory agencies.

1.7 Agreements

As noted, the developer shall be required to enter into a Subdivision or Development Agreement with the Municipality. A standard form of that agreement is available from the Municipality for a developer's review. Certain fees, deposits, and charges will apply and are outlined within that document. Information regarding the preparation of the Development Agreement is provided in Section 2.10 of this document.

1.8 Developer's Engineer

The developer shall employ Engineers registered with Professional Engineers' Ontario to design all of the services, prepare plans and specifications, and provide construction review and inspection of all works.

The services shall include the following:

- Preparation of functional reports as may be required through the draft plan approval process.
- Preparation of designs.
- Preparation of drawings for approval purposes and construction.
- Preparation of necessary contracts and specification documents.
- Preparation of necessary approval documents in conjunction with the regulatory agencies.
- Provision of contract administration, and full time construction review of all Municipality facilities.
- Maintenance of records of construction and upon completion, the provision of As Recorded drawings in suitable digital format to the Municipality.
- Provision of certification to the Municipality the works have been constructed in general conformance with the approved plans and specifications.
- To act as a representative of the developer in all matters pertaining to the construction.
- To provide coordination of the scheduling to comply with timing provisions for inspections and testing of the works.
- To provide certification of the installation of services was in conformance to said plans and specifications, such certification should be in a form acceptable to the Municipality's solicitor and the Municipality's Engineer.

The Developer's Engineer shall provide evidence of professional liability insurance from their insurer in the amount of not less than five million dollars per occurrence prior to the review of any reports or briefs by the Municipality of Morris-Turnberry. Insurance requirements shall be as detailed in the Municipality's standard Development Agreement.

1.9 Utilities

The Developer shall coordinate the design and installation of all utilities including electrical, telecommunications (telephone, internet, TV) and gas. These utilities shall be installed within the road allowance in accordance with the typical cross section attached as Appendix "A" to this document. The Developer shall provide documentation to the Municipality that he has contacted all telecommunications providers and advised them they will have access to servicing in the Development. The Developer will be asked at times in the development process to provide confirmation from the utility companies that the appropriate arrangements have been made for installation and upon completion of said installation of the utilities, provide to the Municipality a notice of completion by said companies.

1.10 Design Guidelines

The guidelines that follow should be adhered to wherever possible. It is acknowledged that on occasion unique and special circumstances occur and minor deviations may be required from the guidelines. These deviations shall only be made through consultation with the Public Works staff and the Municipal Engineer. Further, the Municipality reserves the right to require compliance to a higher standard on occasions where warranted (dependent upon the specific details of any development). Further, the Municipality may require higher standards in areas of higher density developments, arterial or collector roads, or heavy industrial traffic.

These guidelines should be read in conjunction with the standard engineering practice as established by the MECP and MTO together with regulations, the current drinking water license, current municipal sewage collection ECA, current municipal stormwater management system ECA, design manuals and guidelines of the Municipal Engineers' Association. Unless superseded by the Municipality's Development and Servicing Guidelines specific standard drawings and specifications from the Ontario Provincial Standards Specifications and Ontario Provincial Standard Drawings shall be used as reference for individual details (OPSS, OPSD).

2.0 SUBMISSION OF PLANS, REPORTS, AND STUDIES

2.1 Submission Procedure

All submissions for approval shall be forwarded to the Municipality of Morris-Turnberry to the attention of the Clerk of the Municipality in sufficient quantities as may be required for distribution. The Clerk will distribute said plans to public works, planner, Municipality's Engineer, fire department, etc.

Drawing submissions shall include but not be limited to:

- a) Plan and profile.
- b) General Servicing Plan
- c) Typical cross section(s).
- d) Typical lot grading sections.
- e) Lot grading drawings.
- f) Typical swale details.
- g) Geotechnical report information.
- h) Specific structure and erosion protection and control details.
- i) Details with respect to stormwater management and associated facilities.
- j) Details of water pumping and storage facilities, sewage pumping facilities and any other special facility required for the type of development proposed.
- k) Details of all installations not covered and noted by standard OPSD drawings.
- l) Such other environmental reports as may have been prepared as part of the application process.

2.2 Plans and Drawing Requirements

Drawings must be prepared in a digital format, which is compatible with the current version of AutoCAD, for all new development within the Municipality. The digital files and drawings, including those digital plans showing details of special structures, details, etc., shall be prepared by the Developer's Engineer and provided to the Municipality as a permanent record prior to the Final Acceptance of services required to be provided by the Developer. All digital files are to be geographically referenced in a format suitable for insertion into a geographic information system.

The following standards shall be adhered to in preparation of these drawings:

- a) Existing services shall be shown as dotted or dashed lines while proposed services shall be shown as solid lines.
- b) All elevations shown on the drawings are to be of geodetic origin.
- c) Drawings shall be of a consistent size – 594 mm x 841 mm.

- d) Scales shall be as follows for drawings:
- | | | |
|------------------------|-------------|----------|
| General Servicing Plan | Scale Ratio | - 1:1000 |
| Plan-Profile Drawings | Horizontal | - 1:250 |
| | Vertical | - 1:50 |
- Ratios shall be shown on all drawings.
- e) A standard title block placed in the lower right corner of all drawings shall be used in which revisions are clearly dated and displayed, and in which the Municipality is named. A title sheet containing a drawing index shall be provided for each drawing set. A key plan at a suitable scale shall be displayed on all plan and profile drawings as well as the General Servicing Plan. The area covered by each specific drawing shall be identified in the key plan.
- f) All engineering drawings shall be stamped and dated by the Developer's Engineer prior to issuance for tender.
- g) Upon completion of the works, As Recorded drawings, as outlined elsewhere in these specifications, shall be submitted prior to acceptance of the services. These drawings shall be comprised of the original drawings that were issued for construction, amended to incorporate any changes implemented during construction.

2.3 Plan-Profile Drawings

Plan-Profile drawings are required for all roads, blocks and easements where services are proposed, for all outfalls, and for all boundary roadways abutting the development. The following standards shall be adhered to in the preparation of Plan-Profile drawings:

- a) All profiles must be drawn with reference to the geodetic datum (NAD83) noted on each drawing. All drawings must contain a complete legend.
- b) Drawings are to be prepared so that each street can be filed separately. The street names must be identified on the plan portion of the drawings.
- c) In general, east-west streets shall have zero chainage at their westerly limits and north-south streets shall have zero chainage at their southerly limits. Chainages shall increase from left to right. On the plan portion of each drawing the centerline of construction shall be noted with chainage in 20 metre increments. Chainage for the centerline of construction as well as the chainages for vertical curves (i.e. beginning, end, and apex points) shall be noted on the profile portion of each drawing.
- d) When the plan must be broken because of curvature, etc., the profile shall be broken as well, so that, insofar as possible, chainage points in plan and profile will coincide vertically. When a street must be displayed on more than one drawing due to its length, match lines shall be used with no overlapping of information.
- e) The beginnings and ends of curves must be shown on the plan and profile with the radius of curvature shown on the plan. Chainages of points of curvature shall be calculated.
- f) The chainage and names of intersecting streets shall be shown in plan and profile, and the reference drawing numbers for these streets and for any match lines shall be shown on all applicable drawings. The drawings shall show clearly the proposed profiles, road widths and cross-sections, ditches, ditch gradients, curb gradients if different from the proposed services, north arrow and limits of the proposed work. The plan shall show any required off-street drainage and separate profiles shall be prepared for drainage easements. All

detail for intersecting streets including grades must be shown for a distance of 50 metres from the intersection of the intersecting street. All street lines, for drainage or services, shall be shown and all easements.

- g) Plan-Profile drawings shall identify road allowances, lot and block frontages, easements, and reserves. Curb, gutter, and sidewalk are to be shown and dimensioned on the plan portion of the drawings.
- h) Storm and sanitary sewers shall be drawn in both plan and profile. In profile, the diameter of the sewer shall be drawn to scale. On the plan portion, sewers shall be described by size, type, and direction of flow. On the profile portion, the length, grade, pipe material and class, usage (storm or sanitary) and bedding type shall be identified.
- i) Structures associated with sewers (i.e. maintenance holes, catch basins) shall be numbered and drawn on both the plan and profile portions. On the profile portion, the number, offset, size, invert elevations, and applicable OPSD shall be identified for each structure. Safety platforms or drop connections shall be noted on the profile portion where applicable. Top of grate elevations shall be specified for rear lot catch basins.
- j) Ditch profiles and grades shall be shown.
- k) Watermains, hydrants, and valves shall be drawn on the plan portion of the drawing. On the profile portion, the diameter of the watermain shall be drawn to scale.
- l) Water and sanitary service connections shall be shown in the plan portion of each drawing.
- m) The original and proposed ground profiles shall be plotted. Proposed vertical curves shall be defined by all relevant data (K value, grade, etc.). Proposed roadway profiles shall be displayed sufficiently beyond the limits of construction to confirm the feasibility of future extensions.
- n) Details of gutter grades for cul-de-sacs and crescents shall be provided on the plan portion as a separate detail at a scale of 1:100.
- o) Existing utilities and services shall be shown in plan.
- p) The following additional information shall be shown in plan:
 - Curb radii at all intersections;
 - Location of luminaire poles and transformers;
 - Location and type for all street name and traffic control signs
 - Any special notes related to construction procedures or requirements.

2.4 General Servicing Plan

A copy of the General Servicing Plan shall be submitted to the Municipality identifying the proposed locations of telecommunications, electrical servicing, and gas mains, as well as watermains, storm sewers and sanitary sewers. All locations must be established and resolved by the Developer's Engineer in conjunction with the utility companies and following the locations shown on the Municipality's Typical Cross-Section. The drawing should also display lot and street boundaries and dimensions in accordance with the Registered Plan for the area. Geodetic (with reference to the NAD83 vertical datum) and site benchmarks should also be identified. If applicable, flood lines specified by the local Conservation Authority should be displayed.

2.5 Ministry of Environment, Conservation and Parks (MECP) Applications

After the engineering design and drawings are accepted by the Municipality, one complete set of engineering drawings and three copies of the Ministry of Environment, Conservation and Parks Environmental Compliance Approval (ECA) forms for storm sewer, stormwater management, and sanitary sewer approvals (where required) shall be submitted to the Municipality. These copies will be signed by the Municipality and then returned to the Developer's Engineer who will then make application to the Ministry of the Environment, Conservation and Parks for acceptance under the Ontario Water Resources Act. When required, air, noise, and water related applications are also be provided for signing.

For most additions and alterations to the municipal water distribution system, where an ECA is not required, the Developer's Engineer shall provide a complete MECP Form 1 – Record of Watermains, and all supporting information and calculations.

For most additions and alterations to the municipal sewage collection system, where an ECA is not required, the Developer's Engineer shall provide a complete MECP Form SS1 - Record of Future Alteration Authorized for Separate Sewers/Nominally Separate Sewers/Forcemains and where needed, a complete Form SS2 - Record of Future Alteration Authorized for Components of the Municipal Sewage Collection System, with all supporting information and calculations.

For most additions and alterations to the municipal stormwater management system, where an ECA is not required, the Developer's Engineer shall provide a complete MECP Form SW1 - Record of Future Alteration Authorized for Storm Sewers/Ditches/Culverts and where needed, a complete Form SW2 - Record of Future Alteration Authorized for Stormwater Management Facilities, with all supporting information and calculations.

2.6 Other Acceptances

The Developer's Engineer is required to make all submissions and representations necessary to obtain acceptances from all other authorities affected (Ministry of Natural Resources and Forestry, Ministry of Transportation, Conservation Authorities, Source Water Protection Authority, Canada Post Corporation, Fire Marshall, Medical Officer of Health, etc.). The Municipality shall be kept informed of the progress of these submissions by way of copies of all correspondence.

2.7 Final Approval of Submission

After the Municipality is satisfied that they have completed their review of submission of drawings and have documentation from the Developer or their Engineer that all other regulatory agencies have been satisfied with their approval submissions, the Developer shall submit to the Municipality final copies of drawings and specifications in quantities the Municipality may determine sufficient which shall include all details required by the Municipality and the approval agencies. Any changes subsequent to this submission which may be proposed by the Developer or their engineer must be resubmitted to the Municipality for review and for their approval prior to such changes being made in the installation of services. If one year has passed since the date of the acceptance of the drawings by the Municipality and the Developer has not yet entered into

a Development Agreement with the Municipality, the Municipal Engineer reserves the right to revoke any or all acceptances related to the engineering drawings.

2.8 Services for Individual Residential Lots

Services for individual residential lots or units shall generally be as follows:

- a) Sanitary service shall be installed 1.5 m to the left of centre of each lot
- b) Water services shall be installed at the centre of each lot
- c) Telecommunications (Telephone, cable TV and internet) and electrical services shall be installed in a common trench
- d) Driveways shall be located on the opposite side of the lot from pad mount transformers, hydrants, street lights, or perpendicular intersecting roads

2.9 Easements

Where buried services, utilities, channels, overland flow routes, etc., are placed outside the road allowance, permanent easements will be required. The widths of the easements shall be determined through consultation with the Municipality. In general, the buried infrastructure shall be placed in the centre of the easement.

2.10 Preparation of Development Agreement

The draft of the Development Agreement will be prepared by the Municipality. The Developer's Engineer shall prepare a servicing cost estimate for review and inclusion in the agreement related to securities. The Municipality's Clerk must be in a position to clear all conditions of the Draft Plan Acceptance prior to the preparation of the draft Development Agreement Schedules. The following information must be provided by the Developer's Engineer to the Municipality prior to the preparation of the draft Development Agreement Schedules:

- a) MECP certificates of acceptance for all the services to be constructed if available. If necessary, the Developer's Engineer shall provide a completed MECP Form 1 for watermains.
- b) The name of the person and/or company with whom the Development Agreement will be executed.
- c) The name, address and telephone number of the developer's lawyer.
- d) Four copies of the Reference Plan.
- e) Four copies of the Legal Description based on the Reference Plan, including but not limited to, easements, reserves and daylighting.
- f) Four copies of the proposed final plan for future registration complete with all the pertinent information as required by the registry office. The plan shall show all required lots, blocks, and easements.
- g) Three copies of the accepted engineering drawings.
- h) A detailed cost estimate of all services to be constructed. This estimate will form the basis for calculation of security to be posted for this development. It shall include:
 - 1. Detailed cost of services;

2. Cost of underground electrical distribution and street lighting (where not part of a separate agreement with the utility);
 3. All miscellaneous expenditures;
 4. Allowances for contingencies, engineering, and HST.
- i) Proposed timetable for construction of services reflecting phasing.
 - j) Proposed landscaping plans where necessary or required.

2.11 Requirements Prior to Commencement of Construction

Following signing of the agreement, receipt of the insurance certificate, receipt of security deposit (i.e., Letter of Credit), and at least two weeks prior to the commencement of construction, the Developer's Engineer shall submit the following information to the Municipality for acceptance:

- Two sets of construction specifications;
- A list containing the Contractor, subcontractors and the Contractor's material suppliers;
- A copy of the signed contract tender complete with prices;
- Proposed disposal sites;
- Insurance documents;
- Project schedules;
- Spills Action plan;
- Any other information as required by the Municipal Engineer or as specified in the Development Agreement.

In addition to the above items, the Developer's Engineer must provide confirmation that all recommendations of the Erosion Control plan are implemented. The Developer's Engineer must schedule a pre-construction meeting and provide sufficient notice of this meeting to the Municipality.

2.12 As Recorded Drawings and Record Field Survey

The Developer's Engineer shall retain a record of all revisions to the design that were implemented during construction. These "record revisions" shall be based on a final survey of the development. The final survey shall include a check of the following items:

- Location and invert elevations of all sewer maintenance holes
- Distances between all sewer maintenance holes
- Location of all roadway catch basins
- Location, rim and invert elevations for all year yard and lot catch basins
- Location and ties to all valve boxes, chambers, hydrants and other watermain appurtenances
- Road centreline elevations
- Site benchmarks

The original drawings shall be revised to incorporate all changes and variances found during the final survey and to provide ties and additional information to readily locate all underground services. These new amended drawings shall constitute the As Recorded drawing set.

The As-Recorded drawings shall display all sewer and road grades recalculated to two decimal places. All street names, lot numbering and block identification shall be checked against the Registered Plan and corrected if necessary. An As Recorded revision note shall be placed on all drawings in the revision block.

At any time up to two years after Final Acceptance of the development, the Municipal Engineer may return the As Recorded drawings to the Developer's Engineer for rechecking and further revision if discrepancies are found. The Developer's Engineer shall be required to explain in writing any major difference between the design and the As Recorded data to provide verification that the alteration does not adversely affect the function of the development services.

A paper and electronic copy of the As Recorded drawings must be submitted to the Municipality for review before "Final Acceptance" of the development will be given.

The Development Agreement shall be referred to for the definition of "Final Acceptance".

3.0 ROADS

3.1 General

All local roadways for residential development shall be designed and constructed to the urban standard and the typical cross section shown in Appendix "A" to this document. Road allowances shall be a minimum of 20 metres wide. The edge of the roadway paved surface shall have a minimum radius of 9 metres at intersections. Access roads not owned by the Municipality, leading to the area of the development, shall be constructed and maintained to a standard equal to the standards for roadways within the development. On all streets, horizontal and vertical sight distances and vertical curves shall meet Ministry of Transportation (M.T.O.) Geometric Design Guidelines.

Road allowances on cul-de-sacs are to have a minimum radius of 20 metres. Edge of pavement radius on cul-de-sacs are to be a minimum of 15 metres.

For urban cross sections, the minimum road asphalt width shall be 8.5 metres. The finished roadways shall have a crossfall of 2% from the centerline to each curb line.

Should the development require the construction of arterial or collector roads, the Municipality will establish design widths for that section of road if required.

All roadways for new industrial development shall be designed and constructed to the suburban standard as shown in Appendix "A" to this document. Road allowances for industrial development shall be a minimum of 26 metres wide.

Where a semi-urban or rural road cross section is allowed, design standards are attached as Appendix “B”

A qualified geotechnical firm shall be engaged by the Developer’s Engineer to confirm the suitability of the minimum pavement designs contained in these guidelines for use in the Development, or to recommend a higher standard if required. The same geotechnical firm shall be retained by the Developer’s Engineer to carry out field testing during construction to verify the design.

Copies of all test results and proposed road designs shall be submitted with the engineering drawings. Testing and acceptance of all granular materials at the designated pits prior to placement and subsequent in-situ verification tests shall also be performed by the Developer’s geotechnical firm.

Prior to the placement of asphalt pavement, the Developer’s Engineer must submit to the Municipal Engineer for acceptance, the asphalt pavement mix designs.

3.2 Clearing and Grubbing

Trees shall be removed so that the specifications for sight distances, grading, ditching, etc., may be met. All stumps, logs, brush, boulders, debris, etc. shall be removed from the street allowance. Unless noted otherwise, all healthy trees not obstructing visibility or installation of services shall be preserved. The Municipal Engineer may give permission to leave trees on the street allowance.

3.3 Grading

A 2 metre boulevard area behind the curbs and/or sidewalk (as applicable) shall be graded at a minimum of 2% and maximum of 5% towards the curbs. Where the proposed road extends through areas of cut and fill, the area from the edge of the road boulevard to the street line shall be graded with a side slope not exceeding a slope of 3 metres horizontal to 1 metre vertical to meet the original ground. All side sloped ditches and boulevards to the street line shall be protected with nursery sod over a minimum depth of 100 mm of topsoil.

In all cases, topsoil shall be stripped for the complete width of the road allowance and stockpiled at locations accepted by the Municipal Engineer. Rough grading shall be done to bring the travelled portion of the road to the necessary grade and in conformity with the cross-section shown on the drawings. All subgrade material shall be compacted to 95 percent Standard Proctor Density prior to any application of granular base course materials.

Rough grading of all lots and easements must be properly shaped to ensure suitable drainage.

3.4 Road Construction

All road construction shall conform to applicable standards of the Ontario Provincial Standard Specifications (OPSS) and the Ontario Provincial Standard Drawings (OPSD). The granular road base shall consist of a bottom course of 450 mm minimum depth consolidated Granular “B”

full width across the roadway and a top course of 150 mm of Granular “A” full width between concrete curbs. The granular materials shall be spread in layers of 150 mm maximum compacted depths, and each layer shall be thoroughly compacted. During and between construction seasons, the granular base shall be maintained suitable for vehicle and pedestrian traffic, including dust control by calcium chloride and renewed if required to the satisfaction of the Municipal Engineer.

Road subdrains shall be provided as required in accordance with OPSS 405.05 and amended to accept only polyethylene Big “O” Boss 2000 or equivalent. The subdrain shall include filter wrap (non-woven type) in accordance with OPSS 1860. The Municipality reserves the right to require video inspection of subdrains prior to acceptance.

3.5 Roadway Surface Asphalt

As soon as the granular base has been completed, it shall be thoroughly compacted and shaped and the base course of asphalt placed (if practical and if with approval from the Municipality). The base course shall consist of 50 mm minimum thickness of HL-4 Base Course Asphalt. Following at least one year from the date of placement of the base asphalt, the Developer shall arrange an inspection with the Municipality to discuss any remedial work that may be required prior to placing the surface coat of asphalt. Not sooner than one year following the completion of any remedial works and as dictated by the Development Agreement shall the surface coat of asphalt be placed consisting of 40 mm minimum thickness of HL-3 Surface Course Asphalt. Asphalt work shall conform in all respects to OPSS 310.

3.6 Curbs

Concrete curb and gutter, of cross-section approved by the Municipal Engineer, shall be provided along all edges of paved roadway surface. Terminations at the limits of the subdivision shall be either joined to existing concrete curbs or rounded to reduce hazard to traffic. Construction shall conform to OPSS 353.

Driveway depressions shall be formed in the curb according to OPSD 351.010. The maximum width shall be 10.0 m. If a driveway location cannot be determined at the time of pouring, a full section of curb and gutter shall be poured continuously. When the driveway location is determined, a driveway depression can be cut with a curb cutting machine providing the section to be cut is free from cracks and other defects. The Municipality reserves the right to request semi-mountable curb and gutter where they deem it appropriate. All curb and gutter is to be protected from damage by heavy equipment and vehicles. Two stage curb is not permitted.

3.7 Sidewalks

A 1.5 metre sidewalk shall be constructed on one side (minimum) of each street within the development. Sidewalks shall have a minimum depth of 125 mm and shall be bedded in granular in accordance with the current OPS standard details. On arterial or collector roads, sidewalk shall be placed on both sides of the road. The sidewalks shall be increased in thickness from 125mm to 150mm at all driveway locations, and 200mm for commercial or industrial

driveways. Granular depth shall be 150mm minimum or increased to the same depth as the sidewalk or drive where installed thicker.

Sidewalks shall be placed prior to construction of asphalt, concrete or brick driveways.

3.8 Accessibility

As part of construction of any concrete curb and gutter, sidewalks or other surface structures, the Developer will be responsible for construction of all Works in accordance with the Municipality's and the Province of Ontario's current accessibility standards and regulations to provide full access where possible, to all individuals in the community.

3.9 Turning Circles

Where construction is phased, the Municipality may require the installation of temporary turning circles. These turning circles will be constructed in accordance with the requirements for cul-de-sacs in Section 3.1 of this Schedule. Temporary cul-de-sacs shall be paved and curb and gutter shall be provided when needed to contain surface water and direct it to the storm sewers.

3.10 Adjacent Roads

Whenever a development abuts adjacent roads, improvements to those roads and the installation of all municipal services shall extend to the limit of the property owned by the Developer.

3.11 Daylighting Requirements at Intersections

Where deemed necessary by the Municipality, daylighting at intersection quadrants shall be included in the road allowances to provide for uniform boulevard widths. When required, daylighting details (location, and size) shall be included on the proposed plan for Registration and on all engineering drawings.

3.12 Location of Utilities

The location of utilities within the road allowance shall be as detailed on the Municipality's standard drawings. Utility drawings shall be submitted to the Municipal Engineer for acceptance of the proposed utility locations. All utility wiring is to be housed underground or direct buried. Hydro transformers are to be housed in suitable enclosures and mounted on transformer pads installed at the final elevation of the adjacent ground. The location of transformer pads shall be as detailed on the Municipality's standard drawing and are typically to be located in the opposite boulevard of the sidewalk. Telecommunications and cable T.V. junction boxes may be mounted at the surface in accepted standard enclosures.

3.13 Community Mail Box Requirements

Community mail centres and/or site individual super mail boxes shall be placed in locations accepted by the Municipality. Community mail centres shall be constructed centrally and

suitably located in consultation with the Canada Post Corporation. The design of the community mail centre must incorporate such criteria as pedestrian safety, traffic flow and aesthetics. The Municipality may require the developer to furnish the following amenities within the community mail centre:

- Park benches
- Fencing
- Litter containers
- Landscaping
- Pedestrian lighting
- Concrete pad or interlocking stone surface
- Architectural controlled kiosks
- Adjacent car bays parallel to the travelled portion of the roadway.

All details associated with the community mail centres or super mail boxes shall be identified on the Engineering Drawings and will be subject to review by the Municipality. The Developer shall be responsible for constructing community mail centres within residential developments, prior to the issuance of the first building permit.

The acceptance of Canada Post Corporation with respect to location of community mail centres and/or site individual super mail boxes will be required prior to the acceptance of the Engineering Drawings by the Municipal Engineer.

3.14 Snow Clearing

Snow clearing operations prior to “Final Acceptance” may be carried out by the Municipality if so requested in writing by the Developer; the associated costs will be charged back to the Developer.

3.15 Driveway Entrances

Driveway entrances shall be constructed to the property or to the edge of sidewalk. Entrances shall have a consolidated base constructed of 300 mm minimum depth of Granular “B” and 150 mm minimum depth of Granular “A”. All entrances shall be hard surface (asphalt, concrete, or similar material). All entrances shall be completed in accordance with the current OPS standard details.

3.16 Other Requirements

Whenever it is necessary to cut through an existing municipal road, the Contractor will be responsible to obtain a permit from the Municipality. The placement and compaction of the backfill material and the restoration of the surface pavement shall be done in accordance with the standard and specifications in effect at that time.

Before making detours, permission is required from the Municipality's Public Works Department. Where the road is not part of the municipal road system, acceptance from the appropriate road authority will also be necessary. In all cases, the fire, police departments, school bus companies and ambulance service must be notified by the Developer or their Contractor.

All work will be done in accordance with ordinances and By-laws of the Municipality.

4.0 STORM DRAINAGE/STORMWATER MANAGEMENT

4.1 Approval of Design and Plans

Storm sewers shall be provided to serve the whole of the development. Drawings shall consist of an overall plan, a plan and profile of each storm sewer, drawn to the same scale as the roads, pipe bedding, Maintenance holes, and other appurtenances. Design (including all drawings and calculations) of the proposed works must be submitted to the Municipal Engineer and applicable government agencies for approval. For most additions and alterations to the municipal stormwater management system, where an ECA is not required, the Developer's Engineer shall provide a complete MECP Form SW1 - Record of Future Alteration Authorized for Storm Sewers/Ditches/Culverts and where needed, a complete Form SW2 - Record of Future Alteration Authorized for Stormwater Management Facilities, with all supporting information and calculations.

If required, plans of the entire system shall be submitted to the Ministry of the Environment for approval. Approval for construction will not be given until all Environmental Compliance Certificates have been received from the Ministry of the Environment, Conservation and Parks and all other applicable government agency approvals have been received.

4.2 Stormwater Management Report

A Stormwater Management Report setting out the existing and proposed drainage pattern shall be submitted to and approved by the Municipal Engineer, the Maitland Valley Conservation Authority or Saugeen Valley Conservation Authority and the Ministry of the Environment, Conservation and Parks. Should the development be of a size or location that the Conservation Authority has no requirement to regulate the stormwater management criteria, or in the event that specific design details are not provided by the Conservation Authority, the guidelines in Appendix "C" shall apply.

The stormwater management requirements within the Municipality shall be those of the local Conservation Authority or as listed below in the general requirements:

- Quality and quantity control – as dictated by the local Conservation Authority and/or the MECP. Quantity control shall restrict post-development runoff flows to pre-development flows between the 5 and 100 year / Regional storm events

- The design storm for the minor systems shall be the 5 year storm for local storm sewers and the 10 year storm for trunk facilities. The major system shall be designed to convey the Regional storm.
- Sediment and erosion control measures associated with the stormwater management requirements shall be identified on the drawings for works to be included during the construction and for permanent measures.

4.3 Connection to Municipal System

The storm sewers shall be connected to the municipal storm sewer system (where feasible) or discharged to a natural watercourse as approved by the Municipality, Conservation Authority, and the Ministry of the Environment, Conservation and Parks.

4.4 Design Criteria

The stormwater management system shall be designed by using MIDUSS (current version) or an alternate approved hydrologic model. The Developer's Engineer shall consult the Conservation Authority as to the appropriate storm distribution and duration to be used. The Developer's Engineer shall advise the Municipal Engineer in writing as to the Authority's requirements. The Developer shall ensure that the Municipality is aware of any requirements that the Conservation Authority may have so that they can be reviewed, discussed, and revised should the Municipality deem it necessary. The design of the stormwater management system shall be in accordance with the following:

- Appendix "C", Section A – Storm Drainage and Stormwater Management;
- Latest version of the "Stormwater Management Practices, Planning and Design Manual" and "Design Criteria for Sanitary Sewers, Storm Sewers and Forcemains for Alternations Authorized under Environmental Compliance Approval", as prepared by the Ministry of the Environment, Conservation and Parks.

4.5 Location

The storm sewer shall be located under the gutter line, with lateral connections to catch basins located within the curbing.

4.6 Sewer Pipe Material

Sewer pipe material shall be:

- a) Concrete Sewer Pipe (Rigid)
 - 250 mm non-reinforced Class 3 – CSA certified to A257.1
 - 300 mm or greater reinforced as specified in the tender form – CSA certified to A257.2
- b) Polyvinyl Chloride (PVC) Pipe (Flexible)
 - Class SDR 35 or Class V (320 kPa)
 - Annular ribbed profile for ripped pipe
- c) Polyethylene Sewer Pipe (Flexible) – CSA certified Sewer Class to B 182.6

- 300 mm to 750 mm
- smooth inner wall, annular corrugated profile (320 kPa), 15 PSI bell and spigot joints shall have elastomeric gaskets (CSA certified to B 182.6)

The minimum size, including catch basin leads, shall be 300 mm. The Municipality may require a larger storm sewer size on parts of the subdivision than required for the subdivision alone.

4.7 Storm Sewer Construction

Storm sewer construction and pipe bedding shall conform to the requirements of the Ontario Provincial Standard Specifications for sewer construction. Pipes shall be bedded in approved granular materials.

Catch basin leads shall be connected to the main sewer with a maintenance hole except where the main sewer size exceeds 450 mm diameter, in which case the lead can be connected directly to the main sewer using a factory manufactured “Tee”.

4.8 Maintenance Holes and Catch Basins

Concrete maintenance holes shall be provided at all changes in direction of the sewer and at all street intersections, with maximum spacing on straight runs as noted:

Sewer Diameter (mm)	Maximum Spacing (m)
300 to 975	110
1050 to 1350	130
1500 to 1650	160
1800 and above	305

Maintenance holes shall be 1200 mm diameter or larger, conforming to OPSD Series 700. Benching shall be provided in all maintenance holes. Catch basin maintenance holes shall contain a sump or minimum depth of 300 mm below lowest invert on sewers up to and including 600 mm diameter.

Frames and covers shall be OPSD 401.01 Type A, or approved equal, set on not less than three (3) layers nor more than six (6) layers modoloc pre-cast units, which shall be parged on the outside face. Adjustment units shall conform to OPSD 701.010.

Catch basins shall be provided on both sides of the street at all low areas with the maximum spacing as noted:

Road Gradient (%)	Maximum Spacing (m)
0 to 3	110
3.1 to 4.5	90
Over 4.5	75

Catch basins for depth up to 2 m from ground level to invert shall be 600 mm square concrete conforming to OPSD 705.01. For greater depths, catch basins-maintenance holes shall be used conforming to OPSD 701.03. Frame and grates shall be OPSD 400.110.

5.0 SANITARY SEWERS

5.1 Approval of Plans

Plans of the entire system shall be submitted to the Ministry of the Environment, Conservation and Parks for approval following acceptance of the plan by the Municipal Engineer. This submission shall consist of an overall plan, a plan and profile of each main sewer drawn to the same scale as the roads, together with typical details of house service connections, pipe bedding, Maintenance hole covers, all special bends and connections and other appurtenances. Approval for construction will not be given until the Environment Compliance Approval for all infrastructure and facilities has been received from the Ministry of the Environment, Conservation and Parks.

For most additions and alterations to the municipal sewage collection system, where an ECA is not required, the Developer's Engineer shall provide a complete MECF Form SS1 - Record of Future Alteration Authorized for Separate Sewers/Nominally Separate Sewers/Forcemains and where needed, a complete Form SS2 - Record of Future Alteration Authorized for Components of the Municipal Sewage Collection System, with all supporting information and calculations.

5.2 Location

The main sewers shall be located along the centre of the street allowance. House connections shall terminate at the property line for each lot.

5.3 Material

Main sewers shall be P.V.C. (SDR35) or approved alternate. House connections shall be P.V.C. (SDR28) or approved alternate. All joints shall be of the rubber gasket type as approved by the Municipal Engineer. Approved caps shall be provided for service lateral terminations.

5.4 Design Standards

Sanitary service shall be designed in accordance with current MECF design guidelines.

The minimum size for main sewers shall be 200 mm diameter. House connections shall be a minimum of 125 mm in diameter. For multiple dwelling, industrial or commercial buildings, the service connections shall be sized to accommodate the flow.

Unless otherwise specified, the average daily per capita flow for sanitary sewer design shall be 450 L/cap/day.

5.5 Sanitary Sewer Construction

Sewer construction and pipe bedding shall conform to the requirements of OPSS 410 for sewer construction. A minimum 2.5 metre depth of cover shall be provided over all sanitary sewers and service laterals.

5.6 House Connections

Plan locations and invert elevations, for all house connections at the street line, shall be shown on the drawings. Minimum fall on house connections shall be 2%; maximum 8%. Where the depth of sewer is excessive, a riser may be used over the main sewers. Shop manufactured “Tee” connections shall be used for house connections to the main sewer. Each service lateral shall be complete with a manufactured “Wye” connection and 100 mm diameter cleanout that shall extend to the ground surface level. The top of the cleanout shall be installed flush with the ground surface 300 mm outside the lot line complete with a bolted cap (Malcolm or approved equal), clearly marked “Sewer”, attached using a PVC fitting. Flexible couplings should not be used to connect the bolted cap to the cleanout. A P.V.C. gasketed cap shall be installed on each service lateral termination at the street line and made watertight. The ends of all services shall be marked by a 50 mm x 100 mm wood post extending from the service to 300 mm above the surface of the ground and the top section painted fluorescent green. Connections to maintenance holes shall enter the structure no higher than 0.5 m above the lowest invert, except as otherwise approved by the Municipal Engineer.

All sanitary service pipe material shall be coloured green to avoid cross connection. This includes pipe colour, wrapping, demarcation tape or stenciling.

5.7 Grinder Pumps

Should the development require the use of Grinder Pumps, they shall be E-One sewer systems curb stop c/w integral stainless steel check valve equivalent. Service box to have stainless steel stem. Isolation valves to be located at the property line of each service. Valve box covers to be stamped “SEWER”.

Service pipe to be 32 mm (minimum), Polyethylene (PE) DR-11 tubing, compression joint connections for PE service pipe requires a stainless steel tube liner with a fluted end as supplied by the corporation stop manufacturer.

Should grinder pumps be required, more detailed design, material and installation specifications will be provided by the Municipality.

Grinder pumps shall remain in the ownership of the private property owner. The property owner shall be responsible for all operating, maintenance, repair and replacement costs.

5.8 Maintenance Holes

Concrete maintenance holes shall be provided at all changes in direction of the sewer and at all street intersections, but no further apart than note:

Sewer Diameter (mm)	Maximum Spacing (m)
Up to 400	120
450 to 750	150

Maintenance holes shall be 1200 mm dia. conforming to OPSD 701.010 or as required for larger trunk sewer sizes. Benching shall be provided in all structures. Joints shall be watertight.

5.9 Testing and Flushing of Sewers

The complete sewer system, including house connections, shall be tested (infiltration / exfiltration / deflection), and flushed in accordance with OPSS 410, including video inspection. The Developer shall arrange the tests for sections of sewer between maintenance holes and shall inform the Municipal Engineer when a section is on test and ready for inspection. Sewers shall be video inspected at least twice by the developer, once immediately prior to base asphalt and once immediately prior to surface asphalt placement. Any sections of sewer which fail to meet the requirements of this section shall be repaired and retested until results are satisfactory to the Municipality. All repairs and retest will be at the Developer's expense.

Testing and flushing also applied to the storm sewer pipe installed as part of the development. A sanitary sewer, storm sewer and forcemain commissioning plan will be submitted to the Operating Authority for review and comment, at least 2 weeks in advance of the proposed start date of the flushing and testing. Notice of testing start date shall be received at least 5 days prior to the start day. Upon completion of the sanitary and storm construction, a commissioning report from the Developer's Engineer will be submitted to the Operating Authority and Municipal Engineer.

5.10 Completion and Acceptance

The complete sewage collection system installation must be approved by the Municipal Engineer prior to the issuance of building permits for the subdivision.

6.0 WATERMAINS

6.1 Approval of Plans

Plans of the entire system shall be submitted to the Municipal Engineer for approval and prepared in accordance with the Ministry of Environment, Conservation and Parks Guidelines and the Municipal Drinking Water Licensing Program (as applicable). The developer shall provide a complete MECP Form 1 – Record of Watermains (and any supporting information) for any addition to, or alteration of Morris-Turnberry owned water distribution systems.

The submission shall consist of an overall plan, a plan and profile of each watermain drawn to the same scale as the roads, together with typical details of house service connections, pipe bedding and other appurtenances. Approval for construction will not be given until all the

requirements of the Ministry of the Environment, Conservation and Parks and the Municipal Drinking Water Licensing Program are fulfilled and the necessary approvals received.

6.2 Locations

- Watermain:** The watermain shall typically be installed within the road allowance, in accordance with the Municipality's Typical Cross-Section.
- Service Lines:** In general, house services shall not be installed in driveways. Where the driveway location is unknown at the time of watermain construction, service connections shall terminate at the property line at the centre of each lot.
- Main Valves:** To be located at the extension of property line, where the valve is being installed at intersections.
- Curb Stops:** To be provided for each service connection and to be located at the lot line.
- Hydrants:** Fire hydrants shall be installed at the end of cul-de-sacs and other permanent dead-end watermains. They are preferred to be located at street intersections, same side as the watermain, consistent side of road, property lines, high points, low points, and should have 2.0 metres of clearance on either side from obstructions and clear to the curb line at the front.
- Blow-offs:** To be provided at all watermain dead-ends, where hydrants are not warranted.

6.3 Design

Watermains shall be designed in accordance with current MECP design guidelines. Minimum distribution pipe size shall be 150 mm diameter. Watermains shall be looped to existing municipal systems.

6.4 Material and Size

All materials for watermains, valves, valve boxes, etc. shall be supplied by the Contractor. All materials supplied under this contract shall comply with the latest edition of the applicable AWWA standard. Oils and lubricants used in assembly shall be 'Food Grade' and shall comply with the latest edition of NSF/ANSI Standard 61. **No substitutions shall be considered without the Municipality's approval.**

Watermain:

Watermain material shall be Polyvinyl Chloride PVC DR18 – AWWA C900 or C905. Pipe joints shall be bell and spigot with rubber gaskets.

Minimum size – 150 mm. Minimum depth of cover – 1.8 m.

Fittings:

All fittings shall be ductile iron cement mortar lined mechanical joint (MJ) type with adaptors to suit other materials, where necessary. All fittings shall be in accordance with AWWA C110 and the rubber-gasket joints for ductile iron fittings shall be in accordance with AWWA C111.

All fittings including hydrants must be suitably restrained with approved mechanical restraints.

Gate Valves:

Bibby, McAvity or Mueller mainline valves and in mechanical joint with standard operating nut, hydrant valves to MJ to MJ gate valves with standard operating nut.

All valves to be supplied with “O” ring packing for water use and open counterclockwise. Valve boxes shall be “D” slide type with No. 6 base, Bibby VB4000.

Tapping valves and sleeves must meet with the approval of the Operating Authority.

Hydrants:

To conform to AWWA C502 and be Mueller Canada Valve, Century type, or McAvity M67 Brigadier or Bibby Sentinel, complete with M.J. boot. Hydrant specifications as follows:

- 2-64 mm hose connections (Ontario standard thread)
- 1 – 100 mm “Storz” type pumper connection
- Hydrants shall open counterclockwise.
- Colour shall be yellow.
- Hydrant length shall be such that the bottom of the upper barrel shall be 150 mm above finished grade.
- Minimum cover on hydrant lead shall similar to the watermain
- Operating nut shall be 31 mm.

Dry barrel hydrants shall be in accordance with AWWA C502.

All hydrant leads shall be 150mm diameter and shall be supplied from the watermain of not less than 150mm diameter.

Services:

25 mm dia., Max. 50 mm Type “K” copper tubing (ASTM B88) or Cross-linked polyethylene (PEX) conforming to AWWA C904. If PEX tubing is used, the unit price shall include the cost of the supply and installation of tracer wire as well a stainless steel inserts for all fittings.

Corporation stops to be Model No. H15008 by Mueller, Model No. F-1000 by Ford, or Cambridge Brass Successor. C.C. thread inlet/compression joint outlet.

Curb stops shall be Model No H-15209 “E.Z. Turn” by Mueller, Model No. B-44-333 P.J. ball valve by Ford or Cambridge Brass Successor complete with No. 8 service box and road.

Service saddles – Model No. 2616 by Robar Industries Inc., stainless steel, double bolted, wide band

The service tubing shall be installed to a minimum depth of cover to the watermain.
Underground service line valves shall be in accordance with AWWA C800.

Cathodic Protection:

In accordance with OPSD 1109.011 and as noted below:

<u>Appurtenance</u>		<u>Method of Protection</u>
i)	Piping	Not required
ii)	Hydrants	One anode per each
iii)	Services <ul style="list-style-type: none">• Each copper service• Each non-metallic service	One anode per each service One anode installed per each curb stop and main stop
iv)	Valves	Sacrificial zinc nuts
v)	Fittings	One anode per each and sacrificial zinc nuts
vi)	Mechanical Restraints	Sacrificial zinc nuts

- Anode sizes shall be 5.5 kg for watermain appurtenances up to and including 300 mm diameter and 11.0 kg for watermain appurtenances greater than 300 mm.
- Anodes for steel pipe encasement shall be 11.0 kg for all sizes.
- Sacrificial zinc nuts shall be of the protecto-cap type and installed on each bolt.

Anode Installation:

For all mechanical joint fittings and couplings used with either ductile iron or PVC pipe, a sacrificial zinc nut shall be installed on each bolt.

For buried anodes, connect anode copper lead wire to pipe, valve, fitting, hydrant, etc., with “double nut” type connection. Connect to main stops or curb stops with the electrical ground connections supplied. Place anode in trench a minimum of 500 mm from pipe, valve, fitting, etc. Complete installation shall conform to anode manufacturer’s recommendations.

Saddles:

Model No. 2616 by Robar Industries Inc., Ford model # FS313, or Cambridge Brass 8403 Teck series stainless steel, double bolted, wide band. Band width to be equal to or greater than the diameter of the watermain.

Tracer Wire:

All PVC watermain to be provided with a No. 12/7 strand copper cable having TWH insulation rated for underground use and strapped to the top of the pipe every 5.0 metres with a brass or galvanized clamp.

Thrust Restraints:

OPSS 441.07.23 is amended to the following insert:

All thrust restraint shall be designed to adequately provide the minimum amount of pipe/joint restraint required by mechanical joint restraint device alone. Concrete thrust blocks are not an accepted method of thrust restraint in the Municipality of Morris-Turnberry except for connections to an existing main as directed by the Operating Authority or their designate.

Design of the pipe joint restraining systems shall consider the pressures that the system will be subjected to as well as any expansion and contraction due to temperature changes during and following construction of the various pipe materials selected.

Restrain lengths for watermain 100 mm to 300 mm shall be in accordance with the requirements outlined below. Restrained length calculations for watermain 400 mm and greater shall be supplied by the pipe manufacturer using the design criteria set out below.

Thrust restraint shall be provided at all fittings, bends, tees, valves, hydrants, crosses, reducers, and plugged or capped dead ends.

For DI pipe refer to AWWA C600 – Section 3.8. For PVC pipe refer to UNI-BELL and AWWA M-23.

Hydrants shall be restrained with mechanical thrust restraints.

Design Criteria (Thrust Restraint):

All inline valves up to 300 mm in size shall be mechanically restrained and as well one (1) full pipe length (6m) on each side of the restrained valve must be mechanically restrained with a minimum of two (2) steel rods to be used on the restraints.

All bends up to 200 mm in size must be mechanically restrained and as well one (1) full pipe length (6m) on each side of the restrained bend must be mechanically restrained with a minimum of two (2) steel rods to be used on the restraint.

All bends from 250 mm to 300 mm in size shall be mechanically restrained and as well two (2) full pipe lengths (12m) on each side of the restrained bend must be mechanically restrained with a minimum of four (4) steel rods to be used on the restraints.

All dead ended watermain up to 200 mm in size cap and or plug shall be mechanically restrained and three (3) full pipe lengths (18m) must be restrained prior to the end of that watermain with a minimum of two (2) steel rods to be used on the restraints.

All dead ended watermain 250 and 300 mm in size cap and or plug shall be mechanically restrained and as well five (5) full pipe lengths (30m) must be restrained

prior to the end of that watermain with a minimum of four (4) steel rods to be used on the restraints.

All fitting which would include tees, fire hydrants, reducers and crosses up to 300 mm in size shall be restrained and as well two (2) full pipe length (12m) on each side of the fitting and must be mechanically restrained with a minimum of two (2) steel rods to be used on the restraints.

All branch valves shall be treated as dead end watermain and shall be restrained according to the above mentioned dead end watermain criteria.

NOTE: If any joint is encountered in the above restrained lengths it must also be restrained.

6.5 Watermain Construction

All watermain and appurtenances are to be installed, bedded and backfilled in accordance with current Ontario Provincial Standard Specifications, Safe Drinking Water Act, Drinking Water Works Permit, The Municipal Drinking Water License, and the most current recent version of ANSI/AWWA C651, the MECP “Watermain Disinfection Procedure”, and to the satisfaction of the Municipality. Minimum 1.8 metre depth of cover over all mains and services. Main valves and hydrant sets shall, generally, be located at a maximum spacing of 200 metres and 120 metres, respectively. Hydrant spacing for commercial areas may require reduced spacing. At main intersections, a main valve shall be provided at each direction from the intersection.

6.6 Flushing, Testing and Disinfection

All watermain shall be tested, flushed, swabbed and disinfected. Such procedures shall be in accordance with OPSS 441 for pressure testing and the most recent version of AWWA C651 and the MECP “Watermain Disinfection Procedure” for disinfection and connection to the waterworks system. The Developer shall inform the Municipal Engineer when the watermain is to be tested and disinfected.

The pressure testing shall be in accordance with OPSS 441.07.24 Hydrostatic Testing and under the supervision of the municipal operating authority.

All hydrant leads, services, stubs, blow-offs etc. shall be subject to the hydrostatic pressure testing. Hydrant valves shall be in the open position to subject the hydrant to the test as well. Bacteriological testing will be completed by the municipal operating authority.

The Developer will be billed for any testing or retesting required. Any failure of the testing and disinfecting shall require the Developer to re-flush, retest and/or re-disinfect the watermain until the watermain has met the requirements of the Ontario Provincial Standard Specifications and the MECP, to the satisfaction of the Municipality. Minimum requirements for bacteriological testing are:

- Escherichia coli – not detectable
- Total coliforms – not detectable

All chemicals and materials used in the disinfecting of the drinking water system shall conform to the following standards:

- AWWA B300 for Hypochlorites
- AWWA B301 for Liquid Chlorine
- NSF/ANSI 60, Drinking Water Treatment Chemicals – Health Effects
- NSF/ANSI 61, Drinking Water System Components – Health Effects.

A watermain commissioning plan will be submitted to the Operating Authority for review and comment, 2 weeks in advance of the proposed start date of the flushing, testing and disinfection. Upon completion of the watermain construction, a watermain commissioning report from the Developer's Engineer will be submitted to the Operating Authority and Municipal Engineer

6.7 Completion and Acceptance

The complete water distribution system installation must be approved by the Municipality prior to the issuance of building permits for the subdivision.

7.0 UTILITIES AND STREET LIGHTING

7.1 Telecommunications

Telecommunication services, which include telephone, internet, and television, shall be provided and installed in a corridor at the location provided in the typical cross section. The Developer must bear the cost of any surcharges for underground installation made by the provider(s) and must grant them any easements for their services. Where requested by the Municipality, spare conduit(s) for future services will be provided as part of the telecommunication installation.

7.2 Telecommunication Companies

There are a number of telecommunication companies that may have interest in providing installations. The developer shall insure that all have the opportunity to be installed and shall provide service. The developer shall provide to the Municipality documentation, satisfactory to the Municipality that all such companies have been contacted and offered the opportunity for installation.

7.3 Electrical

Underground electrical installation shall be completed to the satisfaction of the local power supplier based on their most current specification.

7.4 Gas Servicing

Developers shall insure that a corridor is provided for the future installation of gas distribution mains and services throughout the subdivision. Should, within the time that the development is being serviced, gas supply is available, then the developer shall arrange for its installation.

7.5 Street Lighting

All developments shall be provided with adequate street lighting in accordance with current utility or Municipality of Morris-Turnberry standards. The materials and suppliers will be reviewed with the Municipality prior to design, approval of materials, installation, and where appropriate, shall be sourced from suppliers for which the Municipality currently has luminaires in service. For decorative lights and poles, an arrangement shall be made with the Municipality to provide for stocking of spare poles, lights and accessories to the satisfaction of the Municipality for the initial operation and repair of the street lighting system.

The minimum street lighting requirements are as follows:

- Fixtures will be LED. All fixtures shall have individual photocell control, and photocells shall have proven 25 year life expectancy and a warranty satisfactory to the Municipality (20 year unless agreed to otherwise).
- Poles shall be one piece concrete or aluminum. Concrete poles shall be direct burial. Aluminum poles shall be installed on an adjustable frangible base. Poles shall be of sufficient height to ensure a minimum vertical separation from the road surface to the luminaire, of 6 metres.
- The tenon size on pole and fixture must match. Power feed shall be completely underground. The lights shall generally be placed to the outside of curved roads.
- The maximum allowable spacing along the street, between the lights, shall be 35 metres. Increased pole spacing may be considered if photometric modelling is performed and the RP-8 standards are achieved. In all cases, the lighting design shall meet IESNA RP-8 standards for a Type III distribution. The poles must be installed at the location as shown on the Municipality's Typical Cross-Section. Particular care shall be taken to adequately illuminate the intersections and cul-de-sacs. Preference to have poles located along lot lines if possible.

Amendments to this standard are at the Municipality's discretion/direction and the developer and their engineer are to review the materials specifications with the Municipality in advance of proceeding to the design stage for the lighting.

Street lighting requirements for collector and arterial roads shall be reviewed with the Municipality prior to design.

8.0 LOT GRADING

As part of a submission with the servicing drawings, an overall lot grading plan shall be provided to the Municipality. Existing ground elevation contours shall be shown with not greater than 1 m intervals and spot elevations shall be located along lot lines adjacent to the development. Further, spot elevations shall be shown a minimum of 30 m beyond the limit of the development to provide an indication of the adjacent grading.

Section B of Appendix “C” should be referred to for specific standards related to lot grading, however, the general requirements are as follows:

The lot grading plan to be provided shall include proposed finish grade elevations and details as follows:

- All lot corners.
- All changes in grades.
- Along the centreline of the road at 20 m intervals.
- On all building sites, elevations adjacent to foundations, retaining walls or changes in elevation.
- Ditch or swale bottoms.
- All intersecting lot lines.
- Any location where the grade changes in slope.

Lot grading drawings shall include directions of both minor and major overland flow routes with arrows on drawings.

These drawings shall be provided together with stormwater management reports and stormwater management facility drawings to provide information suitable for the Building Official to review individual site specific grading plans.

Any regional flood, fill lines or erosion control lines shall be shown on the lot grading plans to the satisfaction of the Conservation Authority.

The Developer shall note that the review and approval of a lot grading plan by the Municipality does not provide assurance that a specific style of house will suit an individual lot and applications for building permits must provide for a dwelling unit that suits the style of grading proposed by the Developer.

General lot grading standards are as follows:

- Lot grading is 2% minimum, 6% maximum.
- Driveways – 2% minimum, 6% maximum.
- Drainage Swale – 2% minimum, invert slope – 0.3 m minimum depth, 4:1 maximum side slopes.
- Terraces or Changes of Grades shall be at a slope no more than 3:1. Where there are terraces or retaining walls proposed, a horizontal area a minimum of 2 m in width, shall be provided at the extent of each change in grade before terrace slopes are proposed.

9.0 PARKLAND AND LANDSCAPING

9.1 Parkland

Where park areas are dedicated to the Municipality as part of the development, the Developer shall grade and seed the parklands so that they are suitable for recreational use. Grading shall be to a minimum slope of 2% and appropriate drainage swales and outlets shall be provided to the municipal sewer system or to an appropriate outlet. The requirement for fencing or further landscaping of a park area will be reviewed with the Developer at the time of Draft Plan submission along with the location and geometry of a proposed park. Stormwater management facilities and environmentally sensitive areas are not to be considered appropriate for parkland dedication.

9.2 Landscaping

Boulevards shall be finished with a minimum of 100 mm of topsail and shall be sodded or seeded.

At least one tree shall be planted in the boulevard in front of each lot (single family or semi-detached) generally within one year of the completion of the curb and gutter and paving in that section of subdivision. On corner lots, a second tree will be required on the flankage. Trees are to be planted so as not to interfere with other street functions or services when the tree matures. Trees shall be planted in the boulevard, generally opposite the driveway on any lot and not interfering with municipal services.

Trees shall a minimum 60-70 mm dia. measured 300 mm above the ground and shall be No. 1 nursery stock. The Municipality maintains a list of current species of trees acceptable for use in new development and the Director of Public Works shall be consulted to designate species at the time of planting.

Tree planting and care procedure shall include the following:

- Check for underground services of: hydro, water, phone and cable by obtaining locates.
- Dig holes with appropriate equipment. Holes shall be 250 mm wider in circumference and the same depth as the root ball.
- Loosen, untie and fold down burlap and rope from tree trunk and place in hole. Place root ball in the centre of hole and ensure that the top of the root ball is flush with surrounding terrain.
- Backfill with native soil. Adjust if necessary and pack the root ball firmly.
- Add a Mulch ring at a depth of 10 cm (4") at the base of the tree keeping the Mulch from touching the trunk directly. Termite resistant mulch shall be used in the Termite Zone.
- Stake tree for two years using rubber garden hose to protect tree from being cut by support wires
- To protect the trunk from line trimmers where mulch is not used - use a 20 cm (8") section of solid drainage tile.

- Water newly-planted trees regularly during the first year
- Remove stakes from trees after 2 years or if tree is in a windy location postpone stake removal for 2 more years adjusting the wire and hose accordingly
- Top up mulch ring as required on yearly basis.
- Use care when grass cutting or when using a line trimmer at the base of the tree ensuring the trunk is not struck.

All trees that die or fail to grow (as per the discretion of the Municipality) prior to “Final Acceptance” shall be replaced by the Developer.

9.3 Walkways

Walkways shown on the Plan of Subdivision shall be constructed between parkland and adjacent streets or from street to street. They shall consist of a concrete sidewalk of minimum width of 1.5 m. The walkway boulevard shall be landscaped, topsoiled and seeded. A standard 1.5 m high chain link fence shall be placed along both sides of the walkway right-of-way with bollards placed at each end of prevent vehicular traffic from using the walkway.

10.0 TRAFFIC AND STREET SIGNS

The Developer shall be responsible for erecting all traffic and street name signs within the development. These signs may be provided by the Municipality at the Developer’s expense. The Developer shall further be responsible for providing lot identification signs on each lot outlining the appropriate municipal address (911 address) for said lot.

11.0 ASSET MANAGEMENT

Prior to Final Acceptance of the services as defined in the Subdivision or Development agreement, the developer shall engage their Engineer to provide to the Municipality a detailed list of the cost of all of the assets for the purpose of the Municipality’s asset management system.

12.0 PAYMENT TO DEVELOPERS

The Municipality shall not be liable for any costs arising out of the construction of services except the oversizing of the works are required for future development. The Municipality will pay the marginal cost of any requested oversizing of sanitary collection, water distribution, stormwater collection works and appurtenances beyond an increase in one nominal pipe size above that which might be needed for the development.

For example, where a sanitary sewer (or a watermain) designed solely for the development might require the developer to install a 250 mm dia. pipe, a request for oversizing beyond one pipe size or 300 mm would result in the Municipality paying the marginal cost.

Where a storm sewer is requested that is larger than that required for the development and any offsite flows (based on their current developed state), the Municipality will pay the marginal difference in cost for supplying the larger size pipe and appurtenances beyond one incremental pipe size of that needed.

13.0 REVISIONS TO SERVICING GUIDELINES

The Municipality reserves the right to amend these guidelines at any time and/or to further clarify the requirements found herein.

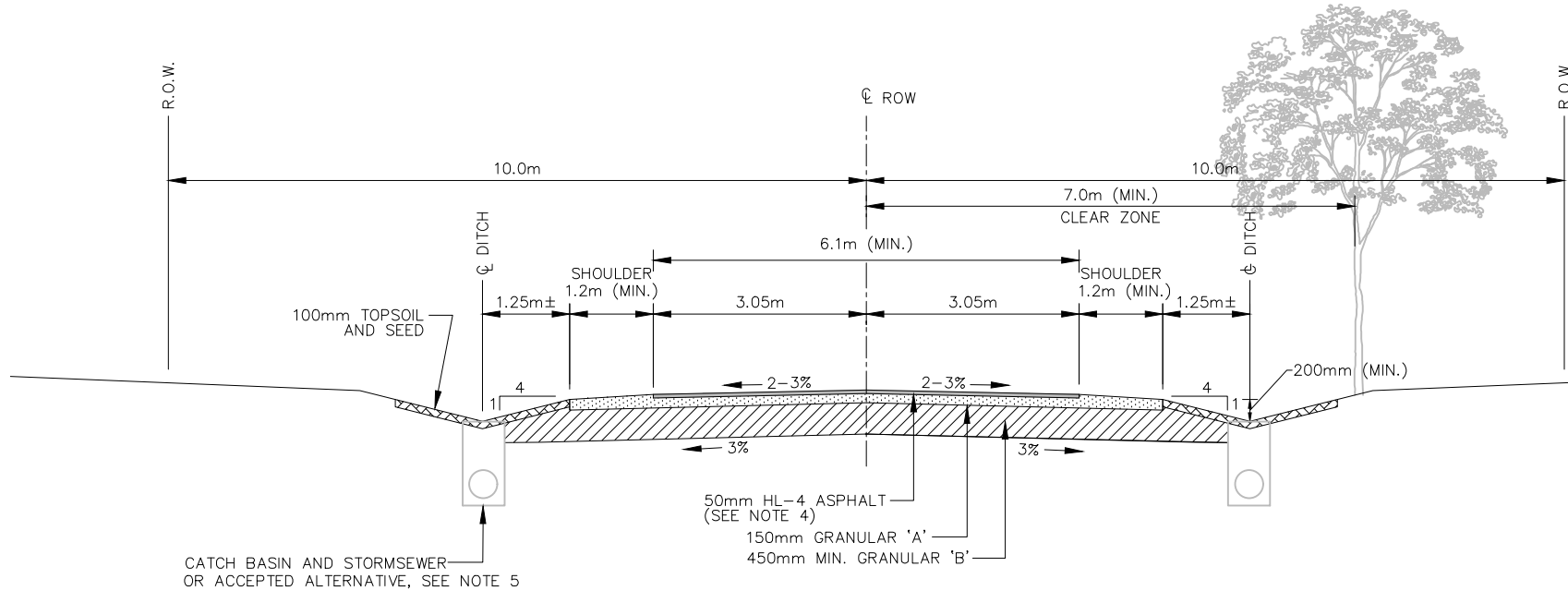
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APPENDIX “A”
TYPICAL URBAN CROSS SECTION

APPENDIX “B”

RURAL ROAD CROSS SECTION

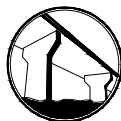
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NOTES:

1. TOPSOIL TO BE REMOVED TO ITS FULL DEPTH ALONG ENTIRE WIDTH OF ROAD BETWEEN TOPS OF DITCH BACKSLOPES AND BOULEVARD TO BE FULLY SEEDED AS SPECIFIED.
2. ROAD RECONSTRUCTION DESIGN TO BE CONFIRMED BY GEOTECHNICAL DESIGN.
3. THIS CROSS SECTION IS TO BE USED AS A TYPICAL STANDARD FOR UP TO 50 km/hr VELOCITY ROADS.
4. A DECISION TO PAVE THE ROAD WILL BE DETERMINED AS PER MUNICIPAL POLICY OR AS OTHERWISE DIRECTED BY THE TOWNSHIP/MUNICIPALITY.
5. DRAINAGE SYSTEM SHALL BE DESIGNED TO ACCOMMODATE A 5 YEAR STORM EVENT, UNLESS APPROVED OTHERWISE BY THE TOWNSHIP/MUNICIPALITY.
6. THIS SECTION IS INTENDED FOR USE THROUGHOUT VILLAGES AND HAMLETS.

No.	DATE	REVISION
1.	Sept 13, 2016	Issued for Discussion with Staff
2.	Oct 14, 2022	Revised for Development Guidelines



BMROSS
engineering better communities

Municipality of Morris-Turnberry

**Typical Road Section
Semi-Urban Road**

**PROJECT No.
22237**

**SCALE
1:100**

**Drawing No.
2**

APPENDIX “C”

STORMWATER MANAGEMENT GUIDELINES FOR SITE PLANS OR SMALL DEVELOPMENTS

SECTION A – STORM DRAINAGE AND STORMWATER MANAGEMENT

1.0 DRAINAGE POLICIES

1.1 Application

These drainage policies will apply to all development or redevelopment requiring site plans or other planning approvals. Where the local Conservation Authority determines the development is in their regulated area or they have an interest in the development, their guidelines and policies shall apply.

1.2 Drainage Objectives

The Municipality of Morris-Turnberry has set the following objectives for the management of storm drainage within its boundaries:

- Reduce to acceptable levels, the potential risk of health hazards, loss of life and property damage from flooding.
- Reduce to acceptable levels, the incidence of inconvenience caused by surface ponding and flooding.
- Ensure that any development or redevelopment minimizes the impact of change to the groundwater regime; increased pollution; increased erosion or increased sediment transport, especially during construction; and impact to surrounding lands and areas of existing development.
- Maintain, where applicable, any natural stream channel geometry insofar as it is feasible while achieving the above objectives.

2.0 ATTAINMENT OF DRAINAGE OBJECTIVES

2.1 Major and Minor Systems

In general, the Municipality of Morris-Turnberry supports the concept of drainage having two separate and distinct components – the minor drainage system and the major drainage system. The minor system comprises swales, street gutters, ditches, catch basins and storm sewers. The major system comprises the natural streams and valleys and man-made channels, roads, or other overland conveyance systems.

2.2 Run-off Quality Control

The Municipality requires developers, contractors and builders to plan and execute their operations so as to minimize sediment and debris pickup and transport to water bodies. The degree of control and methods used must meet the regulations and guidelines of the MECP, MNRF, MTO, and local conservation authorities. The Municipality will expect all erosion control works to be properly maintained throughout the duration of the project.

2.3 Master Drainage Plans

The Municipality requires a Master Drainage Plan for all proposed urban developments. The primary purpose of the Master Drainage Plan is to define the effects of urban development and to determine the solution that is compatible with the objectives for the watershed.

2.4 Conservation Authority Criteria

In the design of new drainage systems within areas regulated by the local Conservation Authority, the Developer's Engineer will be required to follow the most recent edition of the Authority's Stormwater Management Policies and Technical Guidelines.

3.0 MAJOR SYSTEM

3.1 Hazard Lands and Floodlines

The Municipality of Morris-Turnberry requires that Hazard Lands be clearly defined on all watersheds and that no development other than necessary access or services be located herein. The Municipality also requires that the floodplains that would result from the 1:100 and Regional storms be defined for predevelopment and post development conditions. Consultation with the local Conservation Authority will be necessary when dealing with Hazard Lands.

3.2 Detention Ponds

Detention Ponds shall be design so as to minimize any adverse effects to the environment as well as ensuring the safety of local residents. Unless noted otherwise, detention ponds are to be designed in accordance with the Ministry of the Environment, Conservation and Parks Stormwater Management Planning and Design Manual (March 2003), or the latest edition.

4.0 MINOR SYSTEM

4.1 Watershed Area

The watershed area shall be determined from the contour plans and shall include all areas that naturally drain into the system. Fringe areas not accommodated in adjacent drainage systems, and any areas which may become tributary by reason of regrading.

4.2 Storm Drainage Plans

External Areas

A plan shall be prepared to a scale dependent on the size of the watershed area, to show the nature of the drainage of the lands surrounding the development site. The area to be developed and all existing contours used to justify the design shall be clearly shown. This plan shall be prepared and submitted to the Municipality's Engineer at the functional report stage.

Internal Drainage Plan

All internal drainage plans shall be prepared and shall include all streets, blocks, lots and easements. The proposed storm sewer system shall be shown on this plan with all maintenance holes and the area contributing to each structure shall be clearly outlined on the plan. The area in hectares and the run-off coefficient shall be shown within the contributing area.

In determining the contributing area to each storm sewer structure, the proposed lot grading must be considered to maintain consistency in the design.

The length, size, and grade of each section of the minor system shall also be shown on the storm drainage plan. Arrows should depict the overland flow route and the extent of flooding from the major storm.

Rain water leaders shall not be connected directly to the storm sewer system. Leaders on all single family and semi-detached residential units shall be constructed in a manner so as to not interfere with adjacent properties. Sump pump discharge should discharge to the side yard swale.

5.0 HYDRAULIC DESIGN

5.1 Design Levels

The system of street gutters, catch basins, storm sewers or open ditches, where permitted, shall be designed for the 1:5 year storm. Culverts or sewers crossing major County roads or Provincial highways shall be designed and approved in accordance with the requirements of the County of Huron Highways Department or the Ministry of Transportation, respectively.

5.2 Rational Method

In general, the Rational Method shall be used for the sizing of the minor sewer system at the final design stage. Calculations based on a hydrologic simulation model are required for systems serving large areas or involving treatment and/or storage systems.

5.3 Stormwater Management Report

Hydrologic studies should describe the model parameters and criteria for their selection as well as input and output data. The Consulting Engineer has the responsibility for the computations, and the Municipality's Engineer shall check the main assumptions and the input data. All information required for this verification shall be submitted with the hydrologic computations. Copies of the report, where required, shall be provided to the local Conservation Authority and the MECP for approval purposes.

Each report shall include a section outlining the following:

- Run-off Quantity Control
 - Address the impact of the minor and major storm as required in these guidelines for both predevelopment and post development regimes.
- Run-off Quality Control
 - Address best management practices proposed to achieve desired treatment.
 - Make reference to MECP Stormwater Management Planning and Design manual and Design Criteria for Sanitary Sewers, Storm Sewers and Forcemains.
- Erosion and Sediment Control Plan
 - Provide comments and detail on a Site Plan or a separate plan as part of the submission.
- Major System/Overland Flow Routes
 - Provide extent of flood for the Major Storm or Site Plan
 - Show major storm route
 - Comment on a right to access of major storm routes based on land ownership on adjacent lands
- Maintenance Considerations
 - Address ownership and obligation for maintenance
 - A maintenance manual outlining maintenance tasks and frequency of maintenance activities shall be provided as part of the Stormwater Management Report process.
- Facility Access
 - Access to all areas of any proposed facility needs to be detailed and commented on in the report.

6.0 STORM SEWER DESIGN

The requirements for storm sewer design shall be in accordance with the latest edition of the Ministry of the Environment, Conservation and Parks Design Guidelines, as summarized below.

6.1 Rainfall Intensity Data

Rainfall intensity data to be used in storm sewer design shall be the most current data provided by Environment Canada for the Goderich area.

6.2 Design Storm Events

a) Rational Method

Stormwater run-off rates to be computed using the Goderich area I.D.F. curve information.

b) Hydrologic Simulation Models

Stormwater run-off rates to be computed using the Chicago distribution for the 6 hour storm unless otherwise required by external review agencies (Conservation Authority or MTO, etc.)

6.3 Run-off or Imperviousness Coefficients

Run-off coefficients to be used in storm sewer design with the Rational Method shall be based upon soil types, slope, and initial moisture conditions within the following ranges:

Asphalt, concrete, roof areas	0.90 – 1.00
Grassed areas, parkland, agricultural	0.15 – 0.35
Brick Road	0.70 – 0.85
Sandy Soil	0.05 - 0.25
Playgrounds	0.20 – 0.35
Gravel	0.60 – 0.70
Forest and dense wooded areas	0.10 – 0.25
Permeable pavements	0.15 – 0.25
Commercial	0.75 – 0.85
Industrial	0.65 – 0.75
Residential:	
– Single Family	0.40 – 0.45
– Semi-detached	0.45 – 0.60
– Row housing, Town housing	0.50 – 0.70
– Apartments	0.60 – 0.75
– Institutional	0.40 – 0.75

A ten minute entry time at the head of the system must be utilized unless large external drainage areas exist. (In this case, separate time of concentration calculations should be provided).

6.4 Pipe Capacities

Manning's Formula shall be used in determining the capacity of all storm sewers. The capacity of the sewer shall be determined on the basis of the pipe flowing full.

The value of the roughness coefficient 'n' used in the Manning's Formula shall be as follows:

a)	Concrete/Plastic pipe all sizes	0.013
b)	Corrugated Steel (culverts only)	0.024 (plain pipe) 0.020 (paved invert)

6.5 Flow Velocities

Minimum → 0.80 m/s
Maximum → 6.00 m/s

6.6 Minimum Sizes

Minimum pipe size for storm sewers and catch basin leads shall be 300 mm with a minimum of 1% slope.

6.7 Minimum Grades

Regardless of flow velocities obtained, the minimum design grades for pipe storm sewer shall be as follows:

Sewer Size (mm)	Minimum Slope in Metres Per 100 Metres
300 - 375	0.40
450 - 525	0.30
600 - 900	0.20
> 975	T.B.D.

6.8 Minimum Cover

The minimum cover to the top outside pipe barrel of a shallow storm sewer system shall in no case be less than 1.3 metres from the centerline of the roadway.

6.9 Location

Any storm sewers within road allowances shall be located as shown on the standard Municipality of Morris-Turnberry road cross section drawings (Appendix 'A').

6.10 Limits

All sewers shall be terminated at the development limits when external drainage areas are considered in the design. Suitable provision shall be provided to allow for the future extension of the sewer (i.e., maintenance hole knock-outs, sewer stubs, etc.).

6.11 Sewer Alignment

All storm sewers shall be laid in a straight line between maintenance holes.

6.12 Pipe Crossings

A minimum clearance of 0.20 metres shall be provided between the outside of all pipe barrels at all points of crossing. In the event of watermain crossing, Ministry of the Environment, Conservation and Parks separation distances shall apply.

In cases where the storm sewer crosses a recent utility trench at an elevation higher than the elevation of the utility, a support system shall be designed to prevent settlements of the storm sewer, or alternatively the utility trench is to be excavated and backfilled with compacted

crushed stone or concrete to adequately support the storm sewer. When the storm sewer passes under an existing utility, adequate support shall construction to prevent damage to that utility. In either case, the support system shall meet the minimum requirements provided by the utility company.

6.13 Changes in Pipe Size

No decrease of pipe size from a larger upstream pipe to a smaller downstream size will be allowed regardless of the increase in grade.

6.14 Sewer Pipe Materials

- a) Concrete Sewer Pipe (Rigid)
 - 150 mm to 375 mm Class 3
 - 375 mm or greater as specified in the tender form
- b) Polyvinyl Chloride (PVC) Pipe (Flexible)
 - Class SDR35 or Class V (320 kPa)
 - Annular ribbed profile for ribbed pipe
- c) Polyethylene Sewer Pipe (Flexible) – CSA certified Sewer Class to B 182.6
 - 150 mm to 600 mm
 - Smooth inner wall, annular corrugated profile (320 kPa), 15 PSI bell and spigot joints shall have elastomeric gaskets (CSA certified to B 182.6)

The Municipality shall be consulted for the material of any storm sewer > 900 mm or deeper than 5 metres.

6.15 Pipe Bedding

The class of pipe and the type of bedding shall be selected to suit loading and proposed construction conditions. Details and types of bedding are illustrated in OPS Drawing 802.03.

6.16 Backfill for Sewers

Backfill for sewers shall be in accordance with OPSD 803.04.

7.0 MAINTENANCE HOLES

7.1 Location

Maintenance holes shall be located at each change in alignment, grade or pipe material, at all pipe junctions and at intervals along the pipe to permit entry for maintenance to the sewer.

7.2 Maximum Spacing of Maintenance Holes

Maintenance hole spacing shall be as per MECP Design Guidelines as follows:

Sewer Diameter (mm)	Maximum Spacing (m)
300 to 975	110
1050 to 1350	130
1500 to 1650	160
1800 and above	305

7.3 Maintenance Hole Types

Maintenance holes may be constructed of precast or poured concrete. The standard maintenance hole details as shown on the OPS Drawings shall be used for maintenance holes. In cases where the standard drawings are not applicable, the maintenance holes shall be individually designed and detailed.

Precast maintenance holes shall conform to ASTM specifications C-478 M latest revision.

A reference shall be made on all profile drawings to the type and size of all storm maintenance holes.

7.4 Maintenance Hole Design

- Safety gratings shall be provided in all maintenance holes when the depth of the structure exceeds 5.0 m.
- When the difference in elevation between the obvert of the inlet and outlet pipes exceeds 0.9 m, a drop structure shall be placed on the inlet pipe.
- All storm sewer maintenance holes shall be benched in accordance with the OPS Drawings.

7.5 Grades for Maintenance Hole Frames and Covers

All maintenance holes located within the traveled portion of a roadway shall have the rim elevation set flush to the base course of asphalt. Prior to the placement of the surface course asphalt the maintenance hole frame shall be adjusted to the finished grade of asphalt. Steel adjusting rings will not be permitted. The concreting and setting of the frame and cover shall be in accordance with the details on the OPS Drawings. A maximum of 300 mm of modular rings shall be permitted on maintenance hole in new subdivisions.

7.6 Head Losses Through Maintenance Holes

Suitable drops shall be provided across all maintenance holes to compensate for the loss of energy due to the change in flow velocity and for the difference in the depth of flow in the sewers.

The minimum drops across maintenance holes shall be as follows:

Change of Direction	Minimum Drop (mm)
1 to 45 degrees	30 mm
46 to 90 degrees	60 mm

8.0 CATCH BASINS

8.1 Location and Spacing

Catch basins shall be generally located upstream of sidewalk crossings at intersections.

Catch basins spacing will vary with street width, grade and cross fall, the location shall be provided on both sides of the street at all low areas with the maximum spacing as noted:

Road Gradient (%)	Maximum Spacing (m)
0 to 3	110
3.1 to 4.5	90
Over 4.5	75

Double catch basins shall normally be required when the catch basin intercepts flow from more than one direction. Single catch basins may be used in the case where the total length of drainage to the catch basin subject to the analysis of the major – minor system.

Rear lot catch basins and connections shall be located as outlined in the lot grading criteria and in all cases shall discharge/connect to a structure.

8.2 Catch Basin Types

Catch basins must be of the precast type with full depth sumps, as shown on the OPS Drawing 705.010.

Special catch basins and inlet structures shall be fully designed and detailed by the Consulting Engineer.

8.3 Catch Basin Connections

Type	Minimum Size of Connection	Minimum Grade of Connection
Single and Double Catch Basins	300 mm	1.0%
Rear Lot Catch Basin	250 mm	1.0%

8.4 Catch Basins Frame and Covers

The frame and cover for catch basins shall be as detailed in the OPS Drawing 400.110.

9.0 INLETS, OUTFALLS AND SPECIAL STRUCTURES

9.1 Inlets

Inlet structures must be fully designed and detailed on the Engineering Drawings. Gabions, rip rap or concrete shall be provided at all inlets to protect against erosion and to channelize flow to the inlet structure.

9.2 Outlets

The OPSD 804.030 standard headwall shall be used for all storm sewers up to 900 mm in diameter. For sewers over 900 mm in diameter, the OPSD 804.040 headwall shall be used. All headwalls shall be equipped with a grating over the outlet as per OPSD 804.050.

Suitable erosion protection, which may include gabions, rip rap, concrete or other erosion protection shall be provided to the satisfaction of the regulatory agencies at all outlets to prevent erosion of the watercourse and the area adjacent to the headwall.

9.3 Open Channels

The proposed criteria for an open channel shall be submitted to the Municipal Engineer for their approval. The Consulting Engineer shall be responsible for obtaining the approval from the MNRF, MECP, and the local Conservation Authority, if the open channel concept is favourably considered.

The Conservation Authority shall be consulted during initial project planning in regard to any potential watercourse alterations associated with the development proposal.

Watercourse alterations are subject to permitting requirements under the Authority's Development, Interference with Wetlands and Alterations to Shorelines and Watercourses Regulation (Ontario Regulation 147/06). Planned watercourse alterations may, in addition, be subject to other Agency requirements (DFO, MNRF, Navigable Waters (Transport Canada), Drainage Act, etc.).

10.0 MAINTENANCE MANUAL

Prior to completion of the works a maintenance manual shall be provided. This manual shall address the obligations for maintenance, outline the appropriate tasks, and shall provide the frequency of maintenance measures required.

SECTION B – LOT GRADING

1.0 GENERAL

The lot grading of all lots and blocks in new subdivisions must be carefully monitored by the Consulting Engineer in order to provide sites that are suitable for the erection of buildings and to provide satisfactory drainage from all lands within the development.

2.0 LOT GRADING PLANS

All Lot Grading Plans for new development in the Municipality of Morris-Turnberry shall be prepared in accordance with the criteria contained in this section and shall contain the following information and detail:

- Scale 1:500 (unless otherwise approved).
- All existing and proposed lot numbers and blocks.
- All proposed rear lot catch basins, leads, top elevations and inverts.
- Location of service connections.
- Existing contours at maximum 0.5 m intervals.
- Existing and proposed elevations at lot corners.
- Specified house grades.
- Proposed road grades, length and elevations on all streets.
- Proposed elevations along the boundary of all blocks abutting single family and semi-detached lots in the subdivision.
- Direction of the surface run-off by means of arrows.
- All proposed easements required for registration.

3.0 LOT GRADING DESIGN

- 3.1 Generally, the front yards of all lots shall be graded to drain towards the street.
- 3.2 All boulevards are to be graded with a constant slope from the curb to the street limit. (Minimum slope to be 2.0 percent and the maximum slope to be 8.0 percent).
- 3.3 All rear yard drainage is to be directed away from the houses in defined swales which outlet at the curb or a catch basin.
- 3.4 All lot surfaces shall be constructed to a minimum grade of 2.0 percent and a maximum grade of 12.0 percent.
- 3.5 The maximum slope on all embankments and terraces shall be 3:1 (4:1 preferred).
- 3.6 The maximum flow allowable to any side yard swale shall be that from two lots plus that from two adjacent lots.
- 3.7 The maximum number of rear lots contributing to a rear yard swale shall be that of four rear yards.
- 3.8 The maximum length of a rear yard swale between outlets shall be 90 metres. Where rear yard swales provide drainage for more than one lot, the swale must be located within a 4.0 metre drainage easement over the total length. Rear yard swales shall have a minimum slope of 1.5 percent.
- 3.9 Swales providing internal drainage from each lot shall have a minimum slope of 2.0 percent.

- 3.10 Minimum depth of any swale to be 150 mm.
- 3.11 Maximum depth of rear yard swales to be 500 mm.
- 3.12 Maximum depth of side yard swales to be 300 mm.
- 3.13 Maximum side slopes on any swale to be 3:1.
- 3.14 All drainage swales shall be located on the common lot line between adjacent lots.
- 3.15 Rear yard catch basins and outlet pipes are to be located entirely on the same lot and shall be located 1.0 metres from the lot line.
- 3.16 The minimum driveway grade shall be 1.0 percent and the maximum grade permissible shall be 8.0 percent.

4.0 INDIVIDUAL LOT GRADING PLAN

Prior to application for a building permit, individual lot grading plans for each lot shall be prepared and shall be submitted to the Municipality's Building Department for approval. These lot grading plans shall include the following:

- Lot description including Registered Plan Number.
- Dimensioned property limits and house location.
- House type; normal, side split, back split, etc.
- Finished floor elevation.
- Finished garage floor elevation.
- Finished and original grades over septic tile beds.
- Finished basement floor elevation.
- Top of foundation wall elevations (all locations).
- Existing and proposed lot elevations.
- Existing trees to be maintained.
- Driveway location, width and proposed grades.
- All sidewalk locations, width and proposed grades.
- Arrows indicating the direction of all surface drainage and swales.
- Location and elevation of swales.
- Location of decks, porches and patios.
- Location of terraces and retaining walls.
- Location and type of any private sewage disposal systems, reserve areas and private wells.
- Location of engineered fill (where required).
- Lot grading certificate by Developer's Engineer in accordance with the subdivision agreement requirements.
- In the case where the lot falls within the Conservation Authority's regulatory limit, the Conservation Authority shall be consulted in regard to any additional information provided on the plan.

4.1 Certification

Prior to the release of any lot from the subdivision agreement, the Developer's Engineer shall provide certification to the Municipality of Morris-Turnberry that the grading and drainage of the lot is in accordance with the approved lot grading and drainage plans.

SCHEDULE 'A'

PRECIPITATION DATA

DRAFT

Environment and Climate Change Canada
Environnement et Changement climatique Canada

Short Duration Rainfall Intensity-Duration-Frequency Data
Données sur l'intensité, la durée et la fréquence des chutes
de pluie de courte durée

Gumbel - Method of moments/Méthode des moments

2022/10/31

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GODERICH ON 6122847

Latitude: 43 46'N Longitude: 81 43'W Elevation/Altitude: 213 m

Years/Années : 1970 - 2021 # Years/Années : 36

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Table 1 : Annual Maximum (mm)/Maximum annuel (mm)

Year Année	5 min	10 min	15 min	30 min	1 h	2 h	6 h	12 h	24 h
1970	6.6	8.6	12.4	16.0	16.0	16.5	23.1	25.7	36.8
1971	6.6	12.7	14.7	27.4	38.1	42.2	47.2	47.2	47.2
1972	7.4	11.9	15.2	23.9	35.1	63.0	77.5	77.5	77.5
1973	8.4	16.0	20.6	33.8	38.9	44.7	58.4	62.0	62.0
1974	8.9	17.3	18.0	19.0	20.6	22.6	33.5	45.0	47.5
1975	8.1	11.2	16.0	24.1	33.0	36.8	36.8	40.6	41.7
1976	10.7	14.5	20.8	34.8	41.7	41.7	41.7	44.2	57.4
1977	13.2	18.5	22.6	35.1	47.2	71.9	89.9	92.2	93.0
1978	7.0	11.8	14.8	17.1	19.8	23.2	28.8	32.6	45.6
1979	9.5	11.8	11.8	11.8	16.4	20.0	23.4	32.9	33.8
1980	7.0	13.0	15.8	17.1	17.8	18.0	26.2	30.7	32.0
1997	12.6	15.6	18.0	19.8	23.0	26.6	27.0	27.0	33.0
1998	15.0	23.0	30.8	39.2	39.4	39.4	39.4	39.6	39.6
1999	11.2	12.8	13.4	15.4	16.8	18.8	26.6	27.2	33.0
2000	19.8	36.8	44.2	56.0	75.2	79.8	80.2	80.4	80.8
2001	8.6	15.2	17.0	23.0	33.4	40.6	56.2	69.8	71.0
2002	11.8	15.4	21.4	26.2	28.4	28.6	29.6	30.0	35.8
2003	12.8	21.0	28.6	41.0	42.4	42.4	42.4	44.0	44.0
2004	11.8	18.6	22.0	29.8	31.0	31.4	44.2	44.6	44.6
2005	8.0	12.4	16.4	25.6	41.6	47.4	58.0	64.4	64.4
2006	5.2	8.6	11.8	14.8	15.2	15.4	25.8	36.8	37.6

2007	8.2	9.8	11.4	13.8	21.6	24.4	26.2	30.2	30.2
2008	11.0	13.2	15.0	24.8	26.6	36.2	51.0	56.2	105.8
2009	6.8	12.2	14.4	21.0	23.6	31.0	31.0	33.4	41.8
2010	9.4	16.0	21.0	26.2	38.6	41.4	51.2	51.2	51.4
2011	8.8	15.6	20.4	31.6	37.2	37.2	37.2	37.4	40.0
2012	6.4	9.2	11.6	15.0	16.6	19.6	24.6	36.6	37.4
2013	7.2	11.6	15.2	18.8	19.6	27.0	33.6	35.8	36.6
2014	6.4	10.4	13.0	17.8	20.8	21.6	27.4	29.6	33.2
2015	5.6	7.2	9.2	11.8	19.8	28.4	38.4	38.4	38.6
2016	6.6	9.8	13.6	24.6	41.2	59.4	61.0	68.0	72.8
2017	13.6	24.4	29.4	36.4	43.4	47.0	72.2	74.4	88.0
2018	11.0	12.6	15.4	19.4	24.4	32.2	49.8	60.8	61.2
2019	8.0	12.2	12.4	15.8	17.6	30.0	31.0	38.0	38.0
2020	11.6	17.2	21.2	21.8	23.8	30.0	36.2	42.2	50.0
2021	8.6	14.0	15.8	29.8	32.6	32.8	33.0	45.6	64.0

# Yrs. Années	36	36	36	36	36	36	36	36	36
Mean Moyenne	9.4	14.5	17.9	24.4	30.0	35.3	42.2	46.5	51.3
Std. Dev. Écart-type	3.1	5.5	6.8	9.5	12.5	15.1	17.4	17.2	19.4
Skew. Dissymétrie	1.26	2.17	1.98	1.19	1.34	1.20	1.15	1.01	1.19
Kurtosis	5.35	10.03	8.39	5.10	6.35	4.64	3.86	3.37	3.83

*-99.9 Indicates Missing Data/Données manquantes

Warning: annual maximum amount greater than 100-yr return period amount

Avertissement : la quantité maximale annuelle excède la quantité
pour une période de retour de 100 ans

Year/Année	Duration/Durée	Data/Données	100-yr/ans
2000	5 min	19.8	19.1
2000	10 min	36.8	31.7
2000	15 min	44.2	39.3
2000	30 min	56.0	54.4
2000	1 h	75.2	69.2

Table 2a : Return Period Rainfall Amounts (mm)

Quantité de pluie (mm) par période de retour

Duration/Durée	2	5	10	25	50	100	#Years Années
	yr/ans	yr/ans	yr/ans	yr/ans	yr/ans	yr/ans	
5 min	8.9	11.6	13.4	15.7	17.4	19.1	36
10 min	13.6	18.4	21.6	25.7	28.7	31.7	36
15 min	16.8	22.8	26.8	31.9	35.6	39.3	36

30 min	22.9	31.3	36.9	43.9	49.2	54.4	36
1 h	27.9	39.0	46.3	55.5	62.4	69.2	36
2 h	32.8	46.2	55.0	66.2	74.5	82.8	36
6 h	39.4	54.7	64.9	77.8	87.3	96.8	36
12 h	43.6	58.8	68.8	81.5	91.0	100.3	36
24 h	48.1	65.3	76.6	91.0	101.6	112.1	36

Table 2b :

Return Period Rainfall Rates (mm/h) - 95% Confidence limits

Intensité de la pluie (mm/h) par période de retour - Limites de confiance de 95%

Duration/Durée	2	5	10	25	50	100	#Years Années
	yr/ans	yr/ans	yr/ans	yr/ans	yr/ans	yr/ans	
5 min	107.1	139.7	161.2	188.5	208.7	228.8	36
	+/- 11.1	+/- 18.6	+/- 25.1	+/- 33.9	+/- 40.6	+/- 47.3	36
10 min	81.6	110.6	129.8	154.1	172.1	190.0	36
	+/- 9.8	+/- 16.6	+/- 22.4	+/- 30.2	+/- 36.1	+/- 42.1	36
15 min	67.2	91.3	107.3	127.5	142.5	157.3	36
	+/- 8.2	+/- 13.8	+/- 18.6	+/- 25.1	+/- 30.0	+/- 35.0	36
30 min	45.7	62.6	73.8	87.9	98.3	108.7	36
	+/- 5.7	+/- 9.6	+/- 13.0	+/- 17.6	+/- 21.0	+/- 24.5	36
1 h	27.9	39.0	46.3	55.5	62.4	69.2	36
	+/- 3.7	+/- 6.3	+/- 8.5	+/- 11.5	+/- 13.8	+/- 16.0	36
2 h	16.4	23.1	27.5	33.1	37.3	41.4	36
	+/- 2.3	+/- 3.8	+/- 5.2	+/- 7.0	+/- 8.3	+/- 9.7	36
6 h	6.6	9.1	10.8	13.0	14.6	16.1	36
	+/- 0.9	+/- 1.5	+/- 2.0	+/- 2.7	+/- 3.2	+/- 3.7	36
12 h	3.6	4.9	5.7	6.8	7.6	8.4	36
	+/- 0.4	+/- 0.7	+/- 1.0	+/- 1.3	+/- 1.6	+/- 1.8	36
24 h	2.0	2.7	3.2	3.8	4.2	4.7	36
	+/- 0.2	+/- 0.4	+/- 0.6	+/- 0.7	+/- 0.9	+/- 1.0	36

Table 3 : Interpolation Equation / Équation d'interpolation: $R = A \cdot T^B$

R = Interpolated Rainfall rate (mm/h)/Intensité interpolée de la pluie (mm/h)

RR = Rainfall rate (mm/h) / Intensité de la pluie (mm/h)

T = Rainfall duration (h) / Durée de la pluie (h)

Statistics/Statistiques	2	5	10	25	50	100
	yr/ans	yr/ans	yr/ans	yr/ans	yr/ans	yr/ans
Mean of RR/Moyenne de RR	39.8	53.7	62.9	74.5	83.1	91.6

Std. Dev. /Écart-type (RR)	38.1	50.3	58.4	68.7	76.3	83.9
Std. Error/Erreur-type	13.3	19.8	24.1	29.5	33.5	37.5
Coefficient (A)	23.4	32.0	37.6	44.7	50.0	55.3
Exponent/Exposant (B)	-0.721	-0.717	-0.715	-0.714	-0.713	-0.712
Mean % Error/% erreur moyenne	12.6	14.3	15.0	15.7	16.0	16.3



CORPORATION OF THE MUNICIPALITY OF MORRIS-TURNBERRY

BY-LAW NO. 24-2023

Being a by-law to confirm the proceedings of the Council of the Corporation of the Municipality of Morris-Turnberry, for its meeting held on April 11, 2023.

WHEREAS Section 9 of the *Municipal Act 2001, S.O. 2001, c. 25* provides that a municipality has the capacity, rights, powers and privileges of a natural person for the purpose of exercising its authority under this or any other Act;

AND WHEREAS Section 5 (3) of the *Municipal Act 2001, S.O. 2001, c. 25* provides that a municipal power, including a municipality's capacity, rights, powers and privileges under Section 9, shall be exercised by by-law unless the municipality is specifically authorized to do otherwise;

AND WHEREAS it is deemed expedient that the proceedings of the Council of the Corporation of the Municipality of Morris-Turnberry for the April 11, 2023, meeting be confirmed and adopted by By-law;

NOW THEREFORE, the Council of the Corporation of the Municipality of Morris-Turnberry enacts as follows:

1. The action of the Council of the Corporation of the Municipality of Morris-Turnberry at its meeting held the 11th day of April 2023, in respect of each recommendation contained in the Minutes and each motion and resolution passed and other action taken by the Council of the Corporation of the Municipality of Morris-Turnberry at the meeting, is hereby adopted and confirmed as if all such proceedings were expressly embodied in this By-Law; and
2. The Mayor and proper officials of the Corporation of the Municipality of Morris-Turnberry hereby authorize and direct all things necessary to give effect to the action of the Council to the Corporation of the Municipality of Morris-Turnberry referred to in the preceding section thereof;
3. The Mayor and CAO/Clerk are authorized and directed to execute all documents necessary in that behalf and to affix thereto the Seal of the Corporation.

Read a FIRST and SECOND time this 11th day of April 2023

Read a THIRD time and FINALLY PASSED this 11th day of April 2023

Mayor, Jamie Heffer

Clerk, Trevor Hallam