BURNSIDE

Engineer's Report
Pollard Flood Control Project

Municipality of Central Huron
23 Albert Street
P.O. Box 400
Clinton, ON
N0M 1L0

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August 2025
300043248.0000

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0	Yes	Yes	Ontario Ministry of Agriculture, Food and Agribusiness

Record of Revisions

Revision	Date	Description
0	June 1, 2020	Draft Submission to the Municipality of Central Huron
1	November 13, 2020	Submission to the Municipality of Central Huron
2	August 5, 2025	Re submission to the Municipality of Central Huron

R.J. Burnside & Associates Limited

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Executive Summary

Authorization

This report is being prepared in response to an appointment by the Municipality of Central Huron (Municipality), dated July 19, 2018 to provide an improvement to the existing Pollard Municipal Drain in accordance with Section 78 of the Drainage Act, R.S.O. 1990. The drainage report was submitted to the Council of the Municipality of Central Huron on November 13th, 2020, but was not brought forward for consideration due to COVID-19 restrictions on in person meetings. The following has been revised ahead of resubmission to the Municipality:

- Cost estimate and associated assessments
- Assessment roll and ownership information
- Agency approvals

Objective & Recommendations

The objective of this report is to determine a drainage solution to help alleviate flooding and improve the flow of stormwater within the Pollard Municipal Drain around the Village of Londesborough.

This report recommends the improvement of the existing Pollard Municipal Drain beginning in Lot 24, Concession 10, proceeding to Lot 25, Concession 11, Municipality of Central Huron, Huron County.

Summary of Assessments

A summary of the assessments for this project are as follows:

Municipal Lands	$ 82,315.81
Privately Owned Non – Agricultural	$251,781.04
Privately Owned Agricultural – grantable	$178,323.15
Special Non – Proratable Assessments	$ 57,580.00
Total Estimated Assessments	**$570,000.00**

Acknowledgements

R.J. Burnside & Associates Limited (Burnside) would like to acknowledge the assistance and cooperation of the landowners directly involved with this project, as well as Geoff King, Drainage Superintendent for the Municipality, and representatives from the Maitland Valley Conservation Authority (MCVA).

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1.0 Project Authorization

This report is being prepared in response to an appointment by the Municipality, dated July 19, 2018 to provide an improvement to the existing Pollard Municipal Drain in accordance with Section 78 of the Drainage Act, R.S.O. 1990.

1.1 Engineer's Report

The proposed works and costs contained herein are intended to reflect the requirements of the stakeholders and are based on information gathered during field survey, as well as at the landowner meetings and follow up discussions. Details of the proposed work are described in this report, its appendices and on the plan and profile drawings.

1.2 Request for Improvement by Owners (Section 78)

The request for improvement dated June 19, 2018 was submitted by owners.

Barbara Bosmen, Part Lot 25, Concession 11, June Thomas, Part Lot 25, Concession 11, Keith Allen, Part Lot 24, Concession 11 and Christiaan Kreuger, Part Lot 22, Concession 11.

2.0 Background Information

2.1 Municipal Drain History

Burnside conducted a thorough review of all the historical documentation was available in the Municipality's office pertaining to the Pollard Municipal Drain, as well as for other abutting Municipal Drains.

Pollard Municipal Drain 1945

- Originally constructed under a report by Fred A. Edgar, dated March 31, 1945.
- Provided for the construction of an open drain beginning at Lot 17, Concession 14 and outletting at Lot 25, Concession 10. Tile Branch A and Branches B and C were also constructed as open drain.

Nesbit Drainage Works 1967

- Constructed under the Drainage Act pursuant to a Report dated August 18, 1967, prepared by E.H. Uderstadt, O.L.S.
- The work included the deepening and straightening of an existing open watercourse in Lots 20, 21 and 22, Concession 13. Filling part of the original channel and the replacement of an existing Road Culvert.

The Village of Londesborough Drainage Works 1969

- A report by K.G. Dunn, of B.M. Ross Associates dated September 11, 1969.
- provided storm sewer drainage on King, Elizabeth, Victoria and Sarah Streets within the Village of Londesborough.
- Provided basement drain connections.

Pollard Drainage Works 1970

- Provided a repair and improvement to the original drain pursuant to a Report by E.H. Uderstadt, O.L.S. dated January 9, 1970 and revised May 29, 1970.
- Provided a clean out of the main drain renamed A Drain Open as well as the B and C drains Open. The report added B Drain Closed, D Drain Open, E drain Open as well as Drains F, G, H, I, J, K, L, M, N, O, P and Q Closed.

Tamblyn Drainage Works 1976

- Constructed under Section 4 of the Drainage Act pursuant to a Report dated November 15, 1976 prepared by E.H. Uderstadt, O.L.S.
- The work consisted of tile drains A, B, C, D and E all in Lots 17, 18 and 19 Concessions 12 and 13.

Kelland Drainage Works 1977

- Constructed under the Drainage Act pursuant to a Report dated January 5, 1977 prepared by E.H. Uderstadt, O.L.S.
- The work included the replacement of the 1916 Holtzhauer Award Drain by John Roger, O.L.S. with the A Drain and Branches B, C and D all in Lot 25 Concessions 12 and 13.
- Overflow waters cannot follow the course of the tile drain into the Pollard Drainage works due to a natural topographical barrier. Surface waters must follow its natural course to the west by way of an 18 in dia. culvert under Highway #4 to the Waymouth Award Drain.

Plant Drain Works 1986

- Constructed under Section 4 of the Drainage Act pursuant to a Report dated February 28, 1986 prepared by H.B. Centen, P.Eng.
- The work included the deepening of the Pollard Drainage Works in Lot 22, Concession 13. The installation of the Branch A tile drain and incorporation of the Branch B tile branch drain in Lots 22, 23 and 24, Concession 13.

E Drain of the Pollard Municipal Drain 1988

- Provided a repair and improvement to the original E Branch Drain 1970 pursuant to a Report by W. J. Dietrich, P.Eng., of W.E. Kelley and Associates Limited dated June 7, 1988.

- The work included the deepening of the open section and replacement and extending the E drain tile section on Lots 22, 23 and 24, Concession 10.

The Londesborough Municipal Drain 1989-1990

- Report by W. J. Dietrich, P.Eng., of W.E. Kelley and Associates Limited dated January 30, 1989 provided storm sewer drainage on Trueman and Victoria within the Village of Londesborough designed to a 5-year storm event.
- The Londesborough Municipal Drain was then further reported on under Section 66 and 76 of the Drainage Act by W.J. Dietrich, P.Eng., on November 19, 1990. The report added Part of Lots 67, 72 and 73, Plan 284 to the Watershed of the Londesborough municipal Drain 1989.

2.2 Existing Conditions

The current Pollard Municipal Drain is comprised of approximately 10,870 m of open and approximately 7,025 m of closed drain serving approximately 1,625 ha of mixed farm and village residential lands. Seven individual Municipal Drains as noted above find their outlet into the Pollard Drainage Works.

The section of the Pollard Drainage Works described in this report starts at a point on the drain 2,200 m north of its outlet in the South Maitland River, runs north circling around the easterly residential area of the Village of Londesborough ending at the east side of Highway No. 4. The section can be described as an open channel with generally 1.5 to 1 side slopes and bottom widths ranging from 3.0 m to 3.75 m. The channel bottom is clear and flowing free throughout. Small trees and brush growth exist in places along the banks but is not impeding flow. Two low water crossings and three bridge structures are located within this section of the Pollard Drainage Works. Several private tile outlets and Branch Municipal Drains outlet into this section. All tile outlets have adequate free board above the existing channel bottom.

Drain maintenance was last performed on this section of the Pollard Drainage Works by the municipality in 1996. Rock rip-rap was placed in locations to repair bank erosion resulting from a high flow event. The rip-rap maintenance is still in place and has performed well since its installation.

Over bank flow has occurred in residential areas adjacent to the drain. Heavy rain events in June 2017 and February 2018 have resulted in basement flooding, damage to a bridge structure and personal item being washed off of private yards and carried downstream.

2.3 Watershed Area & Land Use

The total watershed area contributing to the Pollard Flood Control Project is 1,605.64 ha. The watershed area from the Pollard Drainage Works 1970 was assumed for this project. It is noted that the Kelland Drainage Works 1977 caused tile flows into the Pollard Drainage Works across a natural divide. As such the Kelland Drainage Works watershed has been assessed at a 50 percent rate for this Report. An Engineer's Report for the Weymouth Drain is currently underway. Recommendations arising from the Weymouth Report may affect the total Watershed Area of this Report. In that case a Report under Section 65 of the Drainage Act may be required to recognize the changes.

Land use within the watershed area is divided as follows (in hectares):

- 1,313.21 as agricultural land
- 20.7 as village residential
- 14.74 as commercial/institutional
- 159.24 as woodlot
- 62.7 as drained into watershed
- 34.23 as municipal road ROW

The proposed Pollard Flood Control Project shares a contiguous watershed boundary with the following drainage systems.

- McCall Drain Extension to the east
- Trick, Baker and South Maitland River Drains to the south and west
- Wilson and Garrett Shobrook Drains to the north

2.4 Soils

The soils survey for Huron County indicates that the predominant soil type within the watershed area is Harriston Silt Loam (Hl), with smaller areas of Listowel Loam (Ll) and ParkHill Loam (Pal) soils types.

- **(Harriston Silt Loam)** - A slightly stony soil with good drainage and strongly undulating topography.
- **(Listowel Loam)** - A slightly stony soil with imperfect drainage and undulating topography.
- **(Parkhill Loam)** - A slightly stony soil with poor drainage and moderately sloping topography.

Based on the characteristics of the soils and their potential for future agricultural use, the Canada Land Inventory (CLI) provides Soil Capability Classification of Agriculture for lands across the country. The soils within the Pollard Municipal Drain watershed area have an agricultural capability rating of Class 1 with no limitation in crop use.

3.0 Preliminary Investigations

3.1 On-Site Meeting

The on-site meeting for the drain was held on September 7, 2018 at the drains crossing on County Road 15. The following were present at the meeting:

- Allan & Barbra Bosman (Roll No. 1-02-903)
- Ann Adams (Roll No. 0-02-600)
- Don & Edna Reid (Roll No. 1-07-828)
- Fred Kreuger (Roll No. 1-02-900)
- Stacey Hordijk (Roll No. 1-03-100)
- John Radford (Roll No. 0-03-100)
- Bill Shaddick (Roll No. 0-03-100)
- Bob & June Thomas (Roll No. 1-07-856)
- Angela Horbanuik (Roll No. 0-02-800)
- Hugh Cox Avon Maitland School Board
- Imran Khaud Huron County Roads
- Geoff King Municipality
- Paul MacIntyre Burnside
- Michael Siemons Burnside

The stakeholders were provided with an explanation of the Drainage Act process and the reason for the On-Site meeting. All present were given the opportunity to express their interests and concerns.

Allan & Barbara Bosman – Rain event in June 2017 resulted in basement drains surcharging and school yard flooded. February 2018 event had the same results. Concerned with the speed of the water during these high flow events. Estimated that there was as much flooding upstream of County Road 15 as downstream. Wondered if berming along the drain would help. Wondered when the work could be done? The next meeting can be held at the Hall.

Ann Adams – Water in basement during the June 2017 rain event.

Don Reid – Washed the private bridges onto his property. Wondered what could be done to solve the flooding?

Bob & June Thomas – Basement flooded during last event. Believes flooding is caused by new farm tiling in the upper watershed. Drain is getting wider naturally. Concerned the drain was not designed for the amount of tile drainage. Concerned insurance companies will refuse to pay claims.

John Radford – Property is high and out of the floodway. Trees growing in ditch at Maitland River. Beaver dam in Maitland River.

Bill Shaddick – Has seen debris get caught at bridge damming up flow.

Fred Kreuger – Water backs up onto lawn but goes away fast. Is open to solving the flooding problem. Wondered if there was a concern with his low water crossing.

Angela Horbanuik – Flood waters were up 12 m from the ditch bank. Lawn furniture washed away. Basement flooded. Noted beaver dams downstream in the Radford farm.

Geoff King – Drain was last cleaned out in the 1980's. There was rip-rap installed in 1996. There appears to be more frequent flooding events. Beaver dams are present downstream.

Stacey Hordijk – Asked how the Grants applied.

As a result of the meeting, it was determined that the primary purpose of this report is to design and construct a channel that will contain flood waters within its banks and convey those flood waters around the residential built-up area of the Village of Londesborough.

4.0 Design Criteria & Engineering Considerations

The applicable Sections of the "A Guide for Engineers Working Under the Drainage Act in Ontario" (Publication 852), and the applicable Sections of the "Drainage Guide for Ontario" (Publication 29), both of which were published by the Ontario Ministry of Agriculture, Food and Rural Affairs (OMAFRA), were used to determine and supplement the design considerations for this drain.

4.1 Modelling

A hydrologic and hydraulic model was created for the Pollard Flood Control Project watershed using PCSWM software model to simulate effects of the 2- through 100-year return period design rainfall events on the drainage system. Input parameters were based on watershed land use and soil parameters gathered from aerial photography and from the Huron County Soils Report and mapping. The Ministry of Transportation (MTO) intensity duration frequency (IDF) curve tool was used to develop a local IDF curve for the watershed and to determine rainfall amounts and intensities as input to the design model.

An existing conditions model was used to estimate the capacity in the Pollard Municipal Drain and to determine the risk of flooding on the properties adjacent to the drain. It was found that the drain cannot convey the 2-year rainfall event within its banks. It was found that there is a significant risk of basement flooding and property damage during the 5-year event. The 5-year water level is at a greater elevation than the surveyed basement finished floor elevation of multiple properties adjacent to the drain. Based on the existing hydraulic model flooding is anticipated for all events larger than the 5-year

storm. From the existing modeling results the 5- and 10-year rainfall events were considered as design options for bankful capacity. However, only the 5-year design was carried through to draft design and assessment because of the high costs estimates. The post improvement hydraulic model demonstrates the ability to convey the 5-year return period storm within the channel banks and mitigate flooding risk for up until and including the 25-year return period storm. It is anticipated that flooding may occur during the 50- and 100-year return period storm post improvement.

4.2 Water Quality Considerations

The loss of sediment and nutrients from cropped land is a major concern to water quality in Ontario. Therefore, this design has incorporated several features to minimize these impacts including:

- Riffle and sediment basins to control channel gradient and retain water and sediment.
- Vegetated buffer strips to act as both a minimum setback distance for agricultural work, as well as a physical barrier for sediment laden runoff entering the channel.
- Rip-rap erosion protection along banks susceptible to erosion to reduce channel degradation.
- A permanent stilling basin and sediment control structure constructed with filter cloth and rock check dams to promote sediment deposition.

4.3 Utilities Investigation

The drain has been designed with input from the governing utilities to ensure adequate vertical and horizontal separation between the drain and the utilities of concern.

All public and private utilities shall be located by the contractor prior to the construction of the proposed drain.

5.0 Environmental and Fisheries Considerations

When a new engineer's report is prepared that could affect an existing Municipal Drain, natural watercourse, wetland, or other environmental features, a review of the work is required, and subsequent approvals and/or project requirements must be obtained from the applicable agency. These may include the local Conservation Authority (CA), The Ministry of Natural Resources and Forestry (MNRF) and Fisheries and Oceans Canada (DFO).

5.1 Maitland Valley Conservation Authority (MVCA)

The MVCA has been apprised of the project throughout its progression. An update was provided via email in July 2025. A permit application will be submitted with the final report and obtained prior to construction.

5.2 Ministry of Natural Resources and Forestry (MNRF)

A review of the Natural Heritage Information Centre mapping tool for Species at Risk in Ontario (SARO), under the Endangered Species Act (ESA) was conducted by Burnside.

No Provincial Species at Risk have been identified within this drainage area that would require special consideration by the MNRF under the ESA.

5.3 Fisheries and Oceans Canada (DFO)

A request for review of the proposed works was submitted to DFO for review (DFO File Number 19-HCAA-00939). DFO indicated in a Letter of Advice (LOA) that their main concerns pertained to:

1. Conduct bank excavation in dry conditions between June and September 30.

2. Conduct in-water activities (stilling basin, low water crossing, and bendway weirs) in low flow conditions.

3. Perform fish salvage and relocation prior to undertaking in-water works.

4. Develop and implement an Erosion and Sediment Control Plan to minimize sedimentation of the waterbody during all phases of the work, undertaking or activity.

A fish salvage and relocation plan has been prepared and approved. A Sediment and Erosion Control Plan has been incorporated into the construction design. A copy of the LOA is contained in Appendix G. DFO was notified on June 9, 2025 that the project is anticipated to proceed to construction in 2026.

6.0 Stakeholder Meetings

One meeting was organized with the stakeholders involved with this project to get input and comments on the proposed drain and its associated costs.

6.1 Information Meeting No. 1

An information meeting for the proposed drain was held on July 17, 2019 at Lions Hall (Hall) in Londesborough. The following were present at the meeting:

- Jim Johnston (Roll No. 1-02-902)
- June Thomas (Roll No. 1-07-851)
- Allan & Barbra Bosman (Roll No. 1-02-903)
- Keith Allen (Roll No. 0-02-900)
- Dorothy Airdrie (Roll No. 1-07-500)
- Jacalynn Latinga (Roll No. 1-04-700)

- Ray Halliday
- John & Niki Bernie (Roll No. 1-07-854)
- Lora & Tom Baldwin (Roll No. 1-05-500)
- Bill & Bev Shaddick (Roll No. 2-400)
- Scott Martin
- Damon Kipp
- Raymond Wilts (Roll No. 3-03-300)
- Clarence Bosma (Roll No. 3-03-000)
- Rodney Marshall (Roll No. 3-02-300)
- Tom Jarrett (Roll No. 1-07-826)
- L. Greidannis (Roll No. 1-05-500)
- Marie Bergsma (Roll No. 1-08-100)
- Don & Kim Reid (Roll No. 1-07-824)
- John Radford (Roll No. 1-08-600)
- Peter Heinrich (Roll No. 3-03-100)
- Shalena Reid
- F Kreuger (Roll No. 1-02-800)
- John Reinike (Roll No. 2-03-900)
- Allan Hummel (Roll No. 4-03-705)
- Alan Peel (Roll No. 3-03-300)
- Imram Khalid Huron County Roads
- Paul MacIntyre Burnside
- Trevor Kuepfer Burnside
- Michael Siemon Burnside

A Power-Point presentation was provided for the owners. The presentation covered:

1. Project Background

2. Proposed Design

3. Construction Specifications

4. Estimated Costs and Assessments

5. Next Steps

The general discussion centered around options for a maintenance cleanout instead of capital construction, who should and should not be paying for the works, existing obstructions, bridges and dams and the proposed timing of construction.

Key points of the presentation were reviewed. The existing Pollard channel is clean of sediment and for the most part clear of vegetation and brush. By law a maintenance operation cannot be used to deepen or widen an existing Municipal Drain. Existing

obstructions, dams and bridges are minor and not the cause of flooding experienced on the drain. A Municipal Drain is like a community where all owners have a stake in, and an obligation to a successful outcome.

There was no consensus on moving the project forward to a final report.

A subsequent meeting was convened at the Municipal Office on September 17, 2019. Two local Councilors requested to meet and discuss the proposed drain report. The following were present at the meeting:

• Marg Anderson	Councilor	Municipality
• Alex Westerhout	Councilor	Municipality
• Brenda Mclaasac	Clerk	Municipality
• Geoff King	Drainage Superintendent	Municipality
• Tyler Sager	Deputy Clerk	Municipality
• Paul MacIntyre	Drainage Practitioner	Burnside

The condition of the existing drain was again questioned. It was felt that a simple maintenance cleanout should be performed. Discussions also led to the major cost item for construction, loading and hauling the fill away. A suggestion was made that the Municipality could accept the fill at their own local gravel pit. If this was acceptable to the Road Superintendent, the estimated costs to the drain could be lowered to reflect the shorter haul route and value of the fill materials.

Following the meeting, a telephone discussion was held with Tom Sinclair, Road Superintendent for the Municipality. Mr. Sinclair offered to supply dump trucks for the hauling of the excess materials from the channel widening project. He also offered to accept the fill material at the municipal gravel pit located on Lot 30, Concession 11, Hullett Ward, approximately 2.20 km from the construction site. An amount equal to the Municipality Assessment would be included in the Construction Tender Document to offset the trucking costs. The overall assessments could be lowered while also providing the roads department with fill materials to be used on capital road construction projects or for pit rehabilitation.

7.0 Proposed Work Summary

The Pollard Flood Control Project includes 1344 m of channel shelf widening, one Bendway Weir structure, one stilling basin, extension of two low water crossings and the removal and disposal of approximately 8,225 m^3 of excavated material. The final drain cross-section will include a 3 m buffer between the top of bank and the agricultural lands. This buffer will be planted with a native grass variety and shall be maintained by the municipality as a critical function of the drain.

7.1 Description of Proposed Work on Each Property

W. Sluys (Roll No. 0-03-100)

- Approximately 212 m of channel construction.
- Approximately 10 m of stilling basin construction.
- Extend one low water crossing.
- Relocate one existing bridge crossing.
- Approximately 1,257 m^3 of earth excavation and disposal.

M. Adams (Roll No. 0-02-700)

- Approximately 159 m of channel construction.
- Remove two private bridge structures.
- Approximately 862 m^3 of earth excavation and disposal.

J. & S. Grobbink (Roll No. 2-02-705)

- Approximately 69 m of channel construction.
- Approximately 374 m^3 of earth excavation and disposal.

Huron County (Road 15)

- Approximately 10 m of channel construction.
- Approximately 25 m^3 of earth excavation and disposal.

R. Bergsma (Roll No. 1-02-905)

- Approximately 22 m of channel construction.
- Approximately 108 m^3 of earth excavation and disposal.

C. Kreuger & H. Kreuger-Klijn & Maitland Creek Farms Ltd. (Roll No. 1-02-800)

- Approximately 76 m of channel construction.
- Approximately 362 m^3 of earth excavation and disposal.

C. Kreuger & H. Kreuger-Klijn (Roll No. 1-02-900)

- Approximately 558 m of channel construction.
- Approximately 3,637 m^3 of earth excavation and disposal.
- Extend one low-water crossing.

P & S Hordijk (Roll No. 1-03-100)

- Approximately 223 m of channel construction.
- Approximately 1,601 m^3 of earth excavation and disposal.

7.2 Working Space and Access Routes

The working space and access routes being provided to the contractor to undertake this work as described in Appendix F – Special Provisions on the chart entitled “Working Space”. The working space shall also be available for future maintenance of the drain. Access to the working space is to be confirmed by the contractor with landowners and the engineer prior to the commencement of construction. Allowances for the working space and access routes have been provided to the affected properties. Access to various parts of the drain shall be as shown in the accompanying drawings in Appendix H.

7.3 Damaged Private Tiles

The replacement of damaged or poorly functioning tile outlets encountered during the construction of the drain will be included as part of the construction costs and protected against erosion with rip-rap, as approved by the Contract Administrator.

7.4 Change Orders

If unforeseen circumstances are encountered following the adoption of this report, the Engineer may issue change orders, as required to have the work properly constructed.

8.0 Description of Appendices

8.1 Appendix A – Allowances

In accordance with Section 8(1)(d) of the Act, this Appendix provides a breakdown of the allowances provided under Sections 29, 30, and 32 of the Act. These sections are:

- Section 29 – Right-of-Way
- Section 30 – Damages
- Section 32 – Insufficient Outlet

Allowances will be deducted from total assessments in accordance with Section 62(3) of the Act. The land and crop values used for these calculations were determined based on a general understanding of the values within this geographic area and are described in the sections below. A summary of the allowances provided under each section of the Act is included in this Appendix. Details regarding working space can be found in the Special Provisions.

8.1.1 Section 29 – Right-of-Way

Section 29 the Act states:

> *The engineer in the report shall estimate and allow in money to the owner of any land that it is necessary to use,*
>
> *a) for the construction or improvement of a drainage works;*
>
> *b) for the disposal of material removed from drainage works;*
>
> *c) as a site for a pumping station to be used in connection with a drainage works;*
>
> *d) or as a means of access to any such pumping station, if, in the opinion of the engineer, such right of way is sufficient for the purposes of the drainage works,*
>
> *the value of any such land or the damages, if any, thereto, and shall include such sums in the estimates of the cost of the construction, improvement, repair or maintenance of the drainage works.*
> R.S.O. 1990, c. D.17, s.29.

The ROW is defined as the footprint of the drain including 3.0 m buffer, the working space for the contractor during construction, and the working space for the Municipality to perform future maintenance. ROW allowances are generally provided to the properties where a ROW is required for a new drain or should be updated for an existing drain.

In this report, a base land value of **$40,000** per hectare (i.e., **$16,200** per acre) for workable, agricultural land has been used to calculate the right-of-way allowances provided in this report. The allowances provided for ROW are varied based on a number of factors which are summarized in Table 1 below.

Table 1: ROW Allowance Factors

Drain Type	Drain Factor	Land Type	Land Use Factor	Net Factor	Allowance Width (m)	Allowance ($/ha)	Allowance ($/acre)
Open Drain: Drain Footprint	1.00	Agricultural	1.00	1.00	Average Top of Bank Width	$40,000	$16,800
Open Drain: Buffer	1.00	Agricultural	1.00	1.00	3	$40,000	$16,800

Drain Type	Drain Factor	Land Type	Land Use Factor	Net Factor	Allowance Width (m)	Allowance ($/ha)	Allowance ($/acre)
Access ROW	0.33	Agricultural	1.00	0.33	6	$13,333	$5,600

The drain factor in the above table is varied based on the assumed long-term effects to the land that the drain is proposed to be located on. The reduction in the drain factor for the access ROW, is on the basis that the land over these portions of the drain will still be useable by the landowners following construction.

The net factor in the above table is determined by multiplying the drain factor and land use factor. The net factor is then multiplied by base value and the total ROW area to calculate the Section 29 allowance.

No permanent buildings, structures or plantings should be allowed within the ROW, to allow for the future maintenance of this drain.

8.1.2 Section 30 – Damages

Section 30 of the Act states:

> *The engineer shall determine the amount to be paid to persons entitled thereto for damage, if any, to ornamental trees, lawns, fences, lands and crops occasioned by the disposal of material removed from a drainage works and shall include such sums in the estimates of the cost of construction, improvement, repair or maintenance of the drainage works.* R.S.O. 1990, c. D.17, s.30.

In this report, a base value of **$2,000** per hectare (**$800** per acre) for workable, agricultural land has been applied to the calculation of the damage allowances as crop damage may be necessary during the construction of this drain. The following was assumed for crop losses for the specified width of the working area.

- Complete crop loss in the year of construction.
- A 67% loss in crop productivity one year after construction.
- A 33% loss in crop productivity two years after construction.
- No loss in crop productivity thereafter.

A 20.0 m working corridor has been provided for the length of the channel to allow for the construction of the open drain and reinstatement of the channel and buffer areas.

8.1.3 Section 32 – Insufficient Outlet

Section 32 of the Act states:

> *Where, in the opinion of the engineer, the cost of continuing a drainage works to a sufficient outlet or the cost of constructing or improving a drainage works with sufficient capacity to carry off the water will exceed the amount of injury likely to be caused to the low-lying lands along the course of or below the termination of the drainage works, instead of continuing the works to such an outlet, or making it of such capacity, the engineer may include in the estimate of cost a sufficient sum to compensate the owners of such low-lying lands for any injuries they may sustain from the drainage works, and in the report the engineer shall determine the amount to be paid to the owners of such low-lying lands in respect of such injuries.* R.S.O. 1990, c. D.17, s.32.

In this report, a base value of **$40,000** per hectare (**$16,800** per acre) for workable agricultural land has been applied for the calculation of this allowance. This allowance was calculated on the basis that the lands receiving insufficient outlet will have a 25% loss in value of the lands over a 10 m width along drains route from Sta 0+780 to Sta. 1+200.

8.2 Appendix B – Project Cost Estimate

In accordance with Section 8(1)(b) of the Act, this appendix provides a breakdown of the total estimated cost of the proposed work, including all labour, materials, construction, engineering, administration and allowances.

8.3 Appendix C – Special Assessments

Section 26 of the Act states:

> *In addition to all other sums lawfully assessed against the property of a public utility or road authority under this Act, and despite the fact that the public utility or road authority is not otherwise assessible under this Act, the public utility or road authority shall be assessed for and shall pay all the increase of cost of such drainage works caused by the existence of the works of the public utility or road authority.* R.S.O. 1990, c. D.17, s.26.

In this report, a Section 26 assessment was applied to the Municipality for the supply of fill materials from the channel widening project. The excavated materials may be used by the Municipal Roads Department for road widening projects or for rehabilitation material at the Municipally licenced gravel pit. The increased cost for hauling the fill materials to the Municipal gravel pit has been assessed to the road authority.

The Municipal Road authority has the option to perform the hauling of the materials with their own forces. In either event the costs for hauling the fill material to the Municipal gravel pit will be the actual costs and will not form part of the project costs for the determination of final assessments.

8.4 Appendix D1 – Schedules of Assessment for Construction

In accordance with Section 8(1)(c) of the Act, these Appendices show the distribution of the total estimated cost over the lands and roads involved and are in accordance with Sections 21, 22, 23, 24 and 26 of the Act. A description and breakdown of the Section 26 - Special Assessments is shown in Appendix C. Affected private lands that are deemed to have an agricultural tax class may be eligible for any grants which may be available through the OMAFA. The engineering and administration costs have been assessed out over the entire drain.

The assessments have been calculated using the Modified Todgham Method to distribute the project costs throughout the watershed in a fair and equitable manner. Detailed calculations of these assessments are available to affected landowners upon request. More information on assessment and the Drainage Act can be found on the OMAFA website.

8.4.1 Sections 22 and 23 – Benefit and Outlet Assessment

Section 21 of the Act states:

> *The engineer in the report shall assess for benefit, outlet liability and injuring liability, and shall insert in an assessment schedule, in separate columns, the sums assessed for each opposite each parcel of land and road liable therefor.* R.S.O. 1990, c. D.17, s. 21.

Section 22 of the Act states:

> *Lands, roads, buildings, utilities or other structures that are increased in value or are more easily maintained as a result of the construction, improvement, maintenance or repair of a drainage works may be assessed for benefit.* R.S.O. 1990, c. D.17, s.22.

Section 23 of the Act states:

> *(1) Lands and roads that use a drainage works as an outlet, or for which, when the drainage works is constructed or improved, an improved outlet is provided either directly or indirectly through the medium of any other drainage works or of a swale, ravine, creek, or watercourse, may be assessed for outlet liability.*

> *(2) If, from any land or road, water is artificially caused by any means to flow upon and injure any other land or road, the land or road from which the water is caused to flow may be assessed for injuring liability with respect to a drainage works to relieve the injury so caused to such other land or road.*
>
> *(3) The assessment for outlet liability and injuring liability provided for in subsections (1) and (2) shall be based upon the volume and rate of flow of the water artificially caused to flow upon the injured land or road or into the drainage works from the lands and roads liable for such assessments.*
>
> *(4) The owners of the lands and roads made liable to assessment only under subsection (1) or (2) shall neither count for nor against the petition required by section 4 unless within the area therein described.*
> R.S.O. 1990, c. D.17, s.23.

Throughout the course of the drain, specific costs were assigned to various landowners. Parts of the costs of items such as catchbasins, junction boxes, berms, etc., were assessed to the lands directly upstream and downstream of the item and/or the entire upstream watershed.

8.5 Appendix D2 – Schedules of Assessment for Maintenance

In accordance with Section 38 of the Act, assessment schedules for future maintenance of the proposed drain have been completed. Affected lands located upstream of the maintenance shall be determined by the Drainage Superintendent and assessed according to these schedules.

8.6 Appendix E – Standard Drain Specifications

The Standard Drain Specifications have been provided in this appendix and govern the work described herein.

8.7 Appendix F – Special Provisions

Special Provisions are specific directions for this project. The Special Provisions detail requirements were not encompassed by Appendix E – Standard Drain Specifications. Special Provisions shall take precedence over Standard Drain Specifications where a conflict between the two documents may exist.

8.8 Appendix G – Agency Correspondence

Project recommendations and requirements from the CA, MNRF, and DFO are listed in this Appendix.

8.9 Appendix H – Drawings

Four drawings are included with this report, consisting of a plan, profiles and details pertinent to the construction of the proposed drain.

9.0 Maintenance and Future Considerations

While the Municipality will be responsible for the maintenance of the drain after construction is complete, the sections within the Act dealing with obstruction of, damage, and injury to a Municipal Drain, namely Sections 80 and 82, are brought to the attention of the landowners. Under these sections, both the landowners and the Municipality have responsibilities to ensure that a Municipal Drain is properly maintained and kept in good working condition.

The maintenance of this drain should include regular inspections by the Drainage Superintendent, and appropriate action should be taken by the Drainage Superintendent to ensure the function of the drain.

9.1 Maintenance Eligibility

Regarding future maintenance works, the Municipality shall be responsible for maintaining the Municipal Drain from Sta. 0+780 to Sta. 2+564. The existing private low water crossings at Sta. 1+232 and at Sta. 2+044 are incorporated into the Drainage Works for the purpose of future maintenance. All proposed works outlined by this report shall be maintained by the Municipality until altered by a future report. Works upstream of Station 2+564 shall be maintained in accordance with the 1970 Pollard Drainage Works Report.

9.1.1 Open Drain Maintenance

Any areas of washout, settlement, erosion, or other disrepair within the proposed Municipal Drain shall be maintained as needed by the Drainage Superintendent. The rip-rap erosion protection, stilling basin, etc., shall be inspected on a periodic basis by the Drainage Superintendent and cleaned out as required to maintain the efficiency of the structures and to prevent sedimentation or erosion of the channel. The 3.0 m buffer shall be maintained throughout. The Drainage Superintendent shall inspect the buffer area and maintain or replace the vegetation as required. Section 82 of the Drainage Act may apply to owners who interfere with the buffer.

Access for maintenance of the drainage works shall be along the agricultural side of the drain from points off Truman Street and Londesborough Road. Maintenance of the stilling basin is critical to the function of the drain and may require more frequent maintenance. Access to the stilling basin should be arranged by the Drainage Superintendent with owners J & B Radford (0-03-100), M. Adams (0-02-700) and L. Mayberry (0-02-705) at a mutually agreeable time.

9.2 Maintenance Costs

The Pollard Flood Control Project shall be maintained by the Municipality at the expense of the upstream lands and roads, as determined by the Drainage Superintendent in accordance with Section 74 of the Drainage Act.

Costs shall be distributed among the upstream landowners using Appendix D2 – Maintenance Assessment Schedule and in the same relative portions until such a time as they are varied in accordance with the Drainage Act.

9.2.1 Private Connections

After construction, new private tile drains may be installed and outlet directly into the proposed open drain, provided that each one is installed with a corrugated steel or dual-wall HDPE outlet pipe complete with a rodent grate, sufficient rip-rap erosion protection, and identified along the ditch bank of the drain with a proper outlet marker or sign to the satisfaction of the Drainage Superintendent. Backflow preventors are recommended on any private tile connection that serves as a building connection.

Any outlets not installed as described above and causing damage or erosion to the drain may be upgraded as described above or removed at the expense of the owner responsible for the connection.

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Appendix A

Allowances – Sections 29, 30 & 32

APPENDIX A - ALLOWANCES

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PROJECT: Pollard Flood Control Project | **MUNICIPALITY: Central Huron**
DATE : August 5 2025 | **PROJECT No.: 300043248**

Conc.	Lot	Owner	Roll No.	Right of Way (Sect.29)	Damages (Sect.30)	Insufficient Outlet (Sect. 32)	Totals
	Municipality of Central Huron						
10	25	W. Sluys	(0-03-100)	$25,082.00	$1,835.00	$4,518.00	$31,435.00
10	24	A. G. & L Adams	(0-02-700)	$11,021.00	$1,257.00	$4,226.00	$16,504.00
10	24	J. & S. Grobbink	(0-02-705)	$5,059.00	$546.00		$5,605.00
11	W Pt 24 Pt 25	R. Bergsma	(1-02-905)	$766.00	$174.00		$940.00
11	W Pt 24 Pt 25	C. Kreuger & H. Kreuger-Klijn	(1-02-900)	$27,206.00	$4,412.00		$31,618.00
11	E Pt 24	C. Kreuger & H. Kreuger-Klijn	(1-02-800)	$4,863.00	$601.00		$5,464.00
11	25	P. & S. Hordijk	(1-03-100)	$10,694.00	$1,777.00		$12,471.00
			TOTAL ALLOWANCES	**$ 84,691**	**$ 10,602**	**$ 8,744**	**$ 104,037**

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Appendix B

Project Cost Estimate

APPENDIX B - COST ESTIMATE

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PROJECT: Pollard Flood Control Project | **MUNICIPALITY: Central Huron**
DATE : August 5 2025 | **PROJECT No.: 300043248**

MATERIALS AND CONSTRUCTION

A.	MAIN DRAIN Description	Approximate Quantity	Unit	Cost Estimate
A1	Excavate Flood Channel	8226	m^3	**41,140**
A2	Haul and Dispose of Fill Materials	8226	m^3	**98,720**
A3	Minor Brushing	1316	m	**9,210**
A4	Stilling Basin & Rock Check dam	1	ea.	**7,000**
A5	Relocate Bridge Structure	1	ea.	**1,500**
A6	Remove Bridge Structure	2	ea.	**1,000**
A7	Extend Low-water Crossings	2	LS	**5,000**
A8	Remove and Relace Rip-Rap Protection	118	m^2	**5,900**
A9	Extend Tile Outlets	2	LS	**1,200**
A10	Sod Restoration	2632	m^2	**39,480**
A11	Topsoil Seed and Mulch	8554	m^2	**42,770**

TOTAL - MATERIALS AND CONSTRUCTION **$ 252,920**

C.	CONTINGENCY ITEMS			
C1	Additional Excavation	300	ea.	**1,500**
C2	Additional Haul and Dispose of Excavated Materi	300	ea.	**3,600**
C3	Extend Tile Outlets	20	ea.	**3,000**
C4	Supply & Place Rip-Rap	200	m^2	**15,000**

CONTINGENCY ITEMS **$ 23,100**

TOTAL ESTIMATED MATERIALS AND CONSTRUCTION **$ 276,020**

ENGINEERING

- Engineering for Final Report	**100,000**
- Agency Applications and Approvals	**500**
- Prepare for and attending various Stakeholder Meetings (3 in total)	**0**
- Reproduce and collate Report	**0**
- Attend Meeting to Consider the (Final) Report	**0**
- Tendering	**5,000**
- Contract Award	**0**
- Contract Administration	**25,000**

TOTAL ESTIMATED ENGINEERING **$ 130,500**

ADMINISTRATION

- Allowances	**104,037**
- Interest	**20,400**
- Harmonized Sales Tax (22% of the 8% PST)	**9,000**
- Contingency	**30,043**

TOTAL ESTIMATED ADMINISTRATION **$ 163,480**

TOTAL ESTIMATED ENGINEERING AND ADMINISTRATION **$ 293,980**

TOTAL ESTIMATED PROJECT COST **$ 570,000**

NOTE: The above summary contains estimates of cost only. It is emphasized that these estimates do ***NOT*** include costs to defend the drainage report should appeals be filed with the Court of Revision, the Drainage Tribunal and/or the Drainage Referee. Should additional costs be incurred, unless otherwise directed, the additional costs would be distributed in a prorata fashion over the assessments contained in the Schedule of Assessment and as may be varied under the *Act*.

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Appendix C

Special Assessments – Section 26

Appendix C - Special Assessments (Section 26)

Pollard Flood Control Project

Pursuant to Section 26 of the Drainage Act the following Special Assessments are made:

1. Pollard Flood Control Project – Streets in Londesborough (Central Huron)

The Special Assessment for this portion of the work is the perceived value of the excavated fill materials from the channel widening to the Municipal Public Works Department for road shouldering and pit rehabilitation and is calculated as follows:

Construction Costs	Special Assessment
Consisting of Items: *Loading, Hauling and Disposing of 8,226 m^3 excavated materials from the channel widening project*	
$57,580.00 (Estimated)	**$57,580.00**

Whether or not the Township of Central Huron elected to do the work or contracted it out, they shall be assessed the actual cost of the work incurred (estimated as $57,580.00) as a Special Assessment.

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Appendix D

Schedules of Assessment

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ASSESSMENTS for CONSTRUCTION SUMMARY

PROJECT: Pollard Flood Control Project | **MUNICIPALITY: Central Huron**

DATE : August 5 2025 | **PROJECT No.: 300043248**

Conc. or Plan	Lot or Part	Owner	Roll No.	Affected Area (ha.)	Benefit Assess't (Sect.22)	Outlet Assess't (Sect. 23)	Special Assess't (Sect. 26)	Total Assessment
		Lands						
10	Pt 20	1596141 Ontario Inc	(0-02-300)	4.75	$ -	$ 108.48		$ 108.48
10	N Pt 20	* M. Lavis & R. Potter	(0-02-301)	1.25	$ -	$ 28.55		$ 28.55
10	21	B. Shaddick	(0-02-400)	6.70	$ -	$ 153.01		$ 153.01
10	23	F. Adams	(0-02-600)	5.31	$ -	$ 47.69		$ 47.69
10	N Pt 23	* Municipality of Central Huron	(0-02-605)	1.62	$ -	$ 43.65		$ 43.65
10	23	* M. & D. Smith	(0-02-615)	1.10	$ -	$ 9.88		$ 9.88
10	24	A. G. & L Adams	(0-02-700)	7.70	$ 12,000.00	$ 69.15		$ 12,069.15
10	24	* J. & S. Grobbink	(0-02-705)	1.42	$ 12,000.00	$ 12.75		$ 12,012.75
10	24	* C. Baird & C. McGraw	(0-02-800)	0.27	$ 12,000.00	$ 4.85		$ 12,004.85
10	N Pt 24	* L. & S. Mayberry	(0-02-801)	0.20	$ 12,000.00	$ 3.59		$ 12,003.59
10	N Pt 24	* M. Allen & A. Reinink	(0-02-802)	0.20	$ 12,000.00	$ 3.59		$ 12,003.59
10	24	* M. Allen & A. Reinink	(0-02-803)	0.23	$ 12,000.00	$ 4.13		$ 12,004.13
10	24	* P. Beauchamp	(0-02-900)	0.17	$ 12,000.00	$ 3.05		$ 12,003.05
10	25	* Avon Maitland District School Board	(0-03-000)	6.71	$ 12,000.00	$ 90.39		$ 12,090.39
10	25	W. Sluys	(0-03-100)	1.30	$ 12,000.00	$ -		$ 12,000.00
10	25	* M. & M. Elson	(0-03-500)	0.12	$ -	$ 1.08		$ 1.08
10	25	* M. & T. Smith	(0-03-600)	0.12	$ -	$ 1.08		$ 1.08
10	25	* W. Biesinger	(0-03-700)	0.11	$ -	$ 0.99		$ 0.99
10	25	* T., J. & C. Elliott	(0-03-800)	0.05	$ 1,500.00	$ 0.67		$ 1,500.67
10	25	* T. & J. Elliott	(0-04-000)	0.12	$ 1,500.00	$ 1.08		$ 1,501.08
10	26	* J. & J. Dodds	(0-04-100)	0.26	$ -	$ 60.56		$ 60.56
10	26	* D. & K. Dolmage	(0-04-200)	0.15	$ -	$ 34.94		$ 34.94
10	26	* B. Pickard	(0-04-300)	0.10	$ -	$ 23.29		$ 23.29
10	26	* Wesleyan Methodist Church	(0-04-700)	0.14	$ -	$ 32.61		$ 32.61
10	26	* S. Zehr	(0-04-900)	0.10	$ -	$ 23.29		$ 23.29
10	26	* A. Thomson & C. Dick-Thomson	(0-05-000)	0.39	$ -	$ 90.84		$ 90.84
11	18	A. & M. Caldwell	(1-01-900)	18.21	$ -	$ 655.54		$ 655.54
11	19	A. & M. Caldwell	(1-02-000)	22.26	$ -	$ 508.34		$ 508.34
11	20	C. & P. Heinrich & Heinrich Farms Ltd.	(1-02-100)	37.00	$ -	$ 818.96		$ 818.96
11	20	* R. & S. Hummel	(1-02-105)	1.18	$ -	$ 26.95		$ 26.95
11	21	* Hensall District Co-operative Incorporated	(1-02-115)	1.87	$ -	$ 128.12		$ 128.12
11	21	* Hensall District Co-operative Incorporated	(1-02-117)	16.13	$ -	$ 368.37		$ 368.37
11	21	* MGM. Future Holdings Ltd.	(1-02-200)	2.32	$ -	$ 161.69		$ 161.69

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ASSESSMENTS for CONSTRUCTION SUMMARY

PROJECT: Pollard Flood Control Project **MUNICIPALITY: Central Huron**

DATE : August 5 2025 **PROJECT No.: 300043248**

Conc. or Plan	Lot or Part	Owner	Roll No.	Affected Area (ha.)	Benefit Assess't (Sect.22)	Outlet Assess't (Sect. 23)	Special Assess't (Sect. 26)	Total Assessment
11	N Pt 21	M. Allin	(1-02-300)	20.24	$ -	$ 462.12		$ 462.12
11	22	Cantelon Farms Limited	(1-02-400)	38.55	$ -	$ 841.91		$ 841.91
11	22	* R. Williams & J. O'Rourke	(1-02-405)	1.72	$ -	$ 39.28		$ 39.28
11	23	G. Adams	(1-02-500)	39.15	$ -	$ 949.98		$ 949.98
11	23	* M. McVittie & J. De Chavez	(1-02-600)	0.26	$ -	$ 11.88		$ 11.88
11	S Pt 23	* M. & D. Thompson	(1-02-601)	0.74	$ -	$ 33.80		$ 33.80
11	23	* W. Dougherty	(1-02-700)	0.11	$ -	$ 5.02		$ 5.02
11	E Pt 24	* C. Kreuger & H. Kreuger-Klijn	(1-02-800)	20.13	$ 12,000.00	$ 1,520.15		$ 13,520.15
11	W Pt 24 Pt 25	C. Kreuger & H. Kreuger-Klijn	(1-02-900)	32.25	$ 12,000.00	$ 3,062.99		$ 15,062.99
11	W Pt 24 Pt 25	* R. Bergsma	(1-02-905)	0.64	$ 12,000.00	$ 14.62		$ 12,014.62
11	Pt 24	* Fellowship Bible Chapel	(1-07-102)	0.96	$ -	$ 24.17		$ 24.17
11	25	* K. Campbell	(1-02-901)	0.17	$ 1,500.00	$ 27.73		$ 1,527.73
11	25	* W. & J. Smyth	(1-02-902)	0.28	$ 1,500.00	$ 45.67		$ 1,545.67
11	25	* B. Bosman	(1-02-903)	0.74	$ 12,000.00	$ 120.70		$ 12,120.70
11	25	* 2708788 Ontario Inc.	(1-03-000)	0.42	$ 1,500.00	$ 146.74		$ 1,646.74
11	25	* M. Bruner	(1-03-001)	2.20	$ 12,000.00	$ 256.21		$ 12,256.21
11	25	P. & S. Hordijk	(1-03-100)	9.71	$ 12,000.00	$ 1,130.82		$ 13,130.82
11	Pt 1 & 2	* A. Campbell & D. Hoggart	(1-03-200)	0.11	$ 1,500.00	$ 0.99		$ 1,500.99
11	2	* D. Mouck	(1-03-400)	0.08	$ 1,500.00	$ 0.72		$ 1,500.72
11	3	* W. & D. Riley	(1-03-500)	0.10	$ 1,500.00	$ 0.90		$ 1,500.90
11	Pt 4 & 12	* M. Shiell & H. Darling	(1-03-600)	0.11	$ 1,500.00	$ 0.99		$ 1,500.99
11	5	* A. Meloche	(1-03-700)	0.10	$ 1,500.00	$ 8.60		$ 1,508.60
11	6	* M. Riley	(1-03-800)	0.10	$ 1,500.00	$ 16.31		$ 1,516.31
11	7	* J. & N. Crawford	(1-03-900)	0.10	$ 1,500.00	$ 16.31		$ 1,516.31
11	8	* J. Scrimgeour & S. Kipp	(1-04-000)	0.10	$ 1,500.00	$ 16.31		$ 1,516.31
11	9 to 12	* Hensall District Co-operative Incorporated	(1-04-100)	0.34	$ 1,500.00	$ 4.58		$ 1,504.58
11	13	* G. & N. Mills	(1-04-300)	0.10	$ 1,500.00	$ 8.60		$ 1,508.60
11	14 & 15	* J. Unger & B. Niekoley-Unger	(1-04-400)	0.19	$ 1,500.00	$ 30.99		$ 1,530.99
11	16	* P. & S. Watson	(1-04-500)	0.10	$ 1,500.00	$ 16.31		$ 1,516.31
11	17 & 17A	* Hensall District Co-operative Incorporated	(1-04-600)	0.19	$ 1,500.00	$ 2.56		$ 1,502.56
11	18 & 18A	* J. Lantinga	(1-04-700)	0.13	$ 1,500.00	$ 1.17		$ 1,501.17
11	N 18 & 18A	* D. Dick & M. Maclean	(1-04-800)	0.06	$ 1,500.00	$ 0.54		$ 1,500.54
11	S Pt 19	* M. Govier	(1-04-900)	0.10	$ 1,500.00	$ 8.60		$ 1,508.60
11	S Pt 22	* P. Radford	(1-04-910)	0.19	$ 1,500.00	$ 1.71		$ 1,501.71
11	N Pt 22	* K. & R. Good	(1-05-000)	0.19	$ 1,500.00	$ 17.12		$ 1,517.12
11	Pt 19	* M. Govier	(1-05-100)	0.11	$ 1,500.00	$ 17.94		$ 1,517.94

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ASSESSMENTS for CONSTRUCTION SUMMARY

PROJECT: Pollard Flood Control Project | **MUNICIPALITY: Central Huron**

DATE : August 5 2025 | **PROJECT No.: 300043248**

Conc. or Plan	Lot or Part	Owner	Roll No.	Affected Area (ha.)	Benefit Assess't (Sect.22)	Outlet Assess't (Sect. 23)	Special Assess't (Sect. 26)	Total Assessment
11	Pt 19	* E. Peterson	(1-05-200)	0.19	$ 1,500.00	$ 30.99		$ 1,530.99
11	S Pt 21 & 21A	* L. & N. Greidanus	(1-05-300)	0.10	$ 1,500.00	$ 0.90		$ 1,500.90
11	N Pt 21 & 21A	* R. Glanville	(1-05-400)	0.10	$ 1,500.00	$ 0.90		$ 1,500.90
11	Pt 23 & 23A	* K. & K. Machan & W. Mackenzie	(1-05-500)	0.19	$ 1,500.00	$ 1.71		$ 1,501.71
11	Pt 24 & 24A	* B. Kiss & R. Edwards	(1-05-600)	0.19	$ 1,500.00	$ 1.71		$ 1,501.71
11	N Pt 25	* C. Weber	(1-05-700)	0.04	$ 1,500.00	$ 6.52		$ 1,506.52
11	W Pt 25	* W. & R. Hulley	(1-05-800)	0.15	$ 1,500.00	$ 24.47		$ 1,524.47
11	Pt 25 & 28	* W. Hulley & C. Hulley-Craig	(1-05-805)	0.14	$ 1,500.00	$ 22.83		$ 1,522.83
11	E Pt 28	* S. Garrity, S. & P. Reed & D. Mills	(1-05-900)	0.14	$ 1,500.00	$ 22.83		$ 1,522.83
11	E Pt 28	* K. Hulley	(1-05-901)	0.14	$ 1,500.00	$ 22.83		$ 1,522.83
11	Pt 25 & 28	* D. & W. Hulley & K. Fisher	(1-06-000)	0.14	$ 1,500.00	$ 22.83		$ 1,522.83
11	Pt 26, 26A, 27, 27A	* M. & L. Blazevic	(1-06-100)	0.21	$ 1,500.00	$ 1.89		$ 1,501.89
11	Pt 27 & 27A	* B. & D. Smith	(1-06-200)	0.18	$ 1,500.00	$ 1.62		$ 1,501.62
11	Pt 29 & 29A	* J. Pearson-Boyd & T. Sinnamon	(1-06-300)	0.11	$ 1,500.00	$ 0.99		$ 1,500.99
11	Pt 29A	* A. McKinley & C. Stone	(1-06-400)	0.08	$ 1,500.00	$ 0.72		$ 1,500.72
11	Pt 20 & 20A	* Municipality of Central Huron	(1-06-500)	0.19	$ 1,500.00	$ 1.71		$ 1,501.71
11	Pt 30	* C. Jefferson	(1-06-600)	0.10	$ 1,500.00	$ 0.90		$ 1,500.90
11	Pt 30A	* B. Spencer	(1-06-700)	0.10	$ 1,500.00	$ 0.90		$ 1,500.90
11	W Pt 31	* J. Lee & T. Simms	(1-06-800)	0.11	$ 1,500.00	$ 17.94		$ 1,517.94
11	S Pt 34, S Pt 31	* S. & S. Gardiner	(1-06-805)	0.28	$ 1,500.00	$ 45.67		$ 1,545.67
11	N Pt 31	* S. & J. Mallett	(1-06-815)	0.20	$ 1,500.00	$ 32.62		$ 1,532.62
11	N Pt 34	* M. Fraser	(1-06-820)	0.20	$ 1,500.00	$ 32.62		$ 1,532.62
11	Pt 32	* S. Reinink	(1-06-900)	0.10	$ 1,500.00	$ 0.90		$ 1,500.90
11	Pt 33, Pt 33A	* N. & J. Hubbard	(1-07-000)	0.19	$ 1,500.00	$ 1.71		$ 1,501.71
11	Pt 32A, Pt 25	* M. & C. Wheeler	(1-07-100)	0.11	$ 1,500.00	$ 0.99		$ 1,500.99
11	Pt 65	* K. Fothergill	(1-07-200)	0.09	$ 1,500.00	$ 14.68		$ 1,514.68
11	Pt 66	* T. Pavao & M. Glousher	(1-07-300)	0.09	$ 1,500.00	$ 14.68		$ 1,514.68
11	Pt 67, 68, 69	* M. Bakelaar	(1-07-400)	0.23	$ 1,500.00	$ 45.89		$ 1,545.89
11	72	* D. Airdrie	(1-07-500)	0.10	$ 1,500.00	$ 18.40		$ 1,518.40
11	70, PT 68 & 69	* J. & R. Airdrie	(1-07-502)	0.13	$ 1,500.00	$ 30.28		$ 1,530.28
11	Pt 73, 25	* L. Allen	(1-07-600)	0.14	$ 1,500.00	$ 28.42		$ 1,528.42
11	Pt 74	* P. & S. Watson	(1-07-700)	0.07	$ 1,500.00	$ 11.42		$ 1,511.42
11	Pt 25	* S. Radford & J. Geddes	(1-07-801)	0.14	$ 1,500.00	$ 25.63		$ 1,525.63
11	Pt 25	* C. Jeong & U. Kim	(1-07-802)	0.14	$ 1,500.00	$ 22.83		$ 1,522.83
11	Pt 25	* S. & T. Taylor	(1-07-804)	0.14	$ 1,500.00	$ 22.83		$ 1,522.83
11	Pt 25	* R. Millian	(1-07-806)	0.15	$ 1,500.00	$ 25.86		$ 1,525.86
11	Pt 25	* A. & G. Allen	(1-07-808)	0.15	$ 1,500.00	$ 34.94		$ 1,534.94
11	Pt 71, 25	* A. & G. Allen	(1-07-812)	0.13	$ 1,500.00	$ 30.28		$ 1,530.28

BURNSIDE

ASSESSMENTS for CONSTRUCTION SUMMARY

PROJECT: Pollard Flood Control Project **MUNICIPALITY: Central Huron**

DATE : August 5 2025 **PROJECT No.: 300043248**

Conc. or Plan	Lot or Part	Owner	Roll No.	Affected Area (ha.)	Benefit Assess't (Sect.22)	Outlet Assess't (Sect. 23)	Special Assess't (Sect. 26)	Total Assessment
11	Pt 25	* D. & K. Reid	(1-07-824)	0.15	$ 1,500.00	$ 34.94		$ 1,534.94
11	Pt 25	* T. & B. Jarrett	(1-07-826)	0.15	$ 1,500.00	$ 34.94		$ 1,534.94
11	Pt 25	* D. Allen	(1-07-828)	0.15	$ 1,500.00	$ 24.47		$ 1,524.47
11	Pt 25	* J. & N. Bernier	(1-07-854)	0.15	$ 1,500.00	$ 24.47		$ 1,524.47
11	Pt 25	* J. Thomas	(1-07-856)	0.61	$ 12,000.00	$ 99.49		$ 12,099.49
11	Pt 25	* K. Laporte & C. Walmsley	(1-07-862)	0.14	$ 1,500.00	$ 22.83		$ 1,522.83
11	Pt A & B	* R. Williams & B. Toth	(1-07-900)	0.14	$ -	$ 32.61		$ 32.61
11	Pt A	* 2422329 Ontario Ltd	(1-08-000)	0.06	$ -	$ 13.98		$ 13.98
11	Pt C	* M. Bergsma	(1-08-100)	0.10	$ -	$ 23.29		$ 23.29
11	Pt L, M, N, A	* United Church of Canada	(1-08-200)	0.43	$ -	$ 150.23		$ 150.23
11	S Pt D & M	* T. & L. Mack	(1-08-300)	0.10	$ -	$ 23.29		$ 23.29
11	Pt O & F & E, P, G, N, M, D	* N. Nguyen	(1-08-400)	0.49	$ -	$ 171.19		$ 171.19
11	Pt H	* H. Lyons	(1-08-500)	0.08	$ -	$ 18.63		$ 18.63
11	Pt Q, G, H, P	* N. Nguyen	(1-08-600)	0.26	$ -	$ 90.84		$ 90.84
11	Pt I & R	* E. Moon	(1-08-700)	0.14	$ -	$ 32.61		$ 32.61
11	Pt K & S	* T. Lowey	(1-08-800)	0.18	$ -	$ 41.93		$ 41.93
11	Pt 26	* N. Stryker	(1-08-900)	0.10	$ -	$ 23.29		$ 23.29
11	Pt B	* N. Nguyen	(1-09-001)	0.21	$ -	$ 48.91		$ 48.91
11	Pt C	* N. Nguyen	(1-09-300)	0.57	$ -	$ 132.76		$ 132.76
11	Pt 26	A. & M. Dykstra	(1-09-400)	28.99	$ -	$ 3,149.06		$ 3,149.06
11	Pt 26	* R. & P. McDonald	(1-09-401)	2.38	$ -	$ 510.67		$ 510.67
11	Pt 26	* K. & D. Fraser	(1-09-500)	0.17	$ -	$ 39.60		$ 39.60
11	Pt 26	* J. & J. Klasen	(1-09-700)	0.06	$ -	$ 6.99		$ 6.99
11	Pt 1 to 3 to 7 to 9	* R. Kassies & I. Pawlik	(1-09-718)	0.34	$ -	$ 39.60		$ 39.60
11	Pt 27	D. & K. Greidanus	(1-09-800)	20.24	$ -	$ 2,139.94		$ 2,139.94
11	28 & E 1/2 LOT 29	S. Trick	(1-09-900)	14.17	$ -	$ 1,412.07		$ 1,412.07
12	Pt 17	Bylsma Farms Limited	(2-02-500)	27.78	$ -	$ 2,931.86		$ 2,931.86
12	Pt 17	T. Elliott	(2-02-600)	0.46	$ -	$ 53.57		$ 53.57
12	Pt 18 S/T ROW	Heinrich Farms Ltd	(2-02-700)	31.88	$ -	$ 3,439.48		$ 3,439.48
12	Pt 19	P. & C. Heinrich & Heinrich Farms Ltd	(2-02-750)	38.79	$ -	$ 3,362.06		$ 3,362.06
12	Pt 19	* E. & D. Baxter	(2-02-755)	1.68	$ -	$ 391.30		$ 391.30
12	Pt 20	P. & C. Heinrich & Heinrich Farms Ltd	(2-02-800)	40.47	$ -	$ 2,670.28		$ 2,670.28
12	N Pt 21	M. Allin	(2-02-900)	36.50	$ -	$ 1,174.01		$ 1,174.01
12	N Pt 21	D., D. & M. Allin	(2-02-905)	3.97	$ -	$ 315.36		$ 315.36
12	Pt 22	Cantelon Farms Limited	(2-03-000)	37.96	$ -	$ 2,168.26		$ 2,168.26
12	Pt 22	I. & J. Croft	(2-03-005)	2.51	$ -	$ 267.97		$ 267.97
12	E Pt 23	Heinrich Farms Ltd	(2-03-100)	20.24	$ -	$ 1,293.59		$ 1,293.59
12	Pt 24 W Pt 23	G. Andrews	(2-03-300)	60.71	$ -	$ 6,008.04		$ 6,008.04

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ASSESSMENTS for CONSTRUCTION SUMMARY

PROJECT: Pollard Flood Control Project **MUNICIPALITY: Central Huron**

DATE : August 5 2025 **PROJECT No.: 300043248**

Conc. or Plan	Lot or Part	Owner	Roll No.	Affected Area (ha.)	Benefit Assess't (Sect.22)	Outlet Assess't (Sect. 23)	Special Assess't (Sect. 26)	Total Assessment
12	S Pt 25	P. & S. Hordijk	(2-03-400)	19.97	$ -	$ 2,325.69		$ 2,325.69
12	N Pt 25	Sustainable Ag Limited	(2-03-500)	20.38	$ -	$ 1,618.78		$ 1,618.78
12	Pt 26	P., K., P. & C. Wong	(2-03-600)	2.79	$ -	$ 324.92		$ 324.92
12	Pt 26	Reinink Poultry Ltd	(2-03-700)	23.11	$ -	$ 2,691.49		$ 2,691.49
12	E Pt 27	Triple Birch Farms Inc	(2-03-900)	13.36	$ -	$ 1,321.81		$ 1,321.81
12	W Pt 27	Wiltsway Farms Inc	(2-04-000)	14.17	$ -	$ 1,455.16		$ 1,455.16
12	E Pt 28	R. & K. Wilts	(2-04-100)	14.17	$ -	$ 1,364.90		$ 1,364.90
13	Pt 14	A. Bylsma	(3-01-700)	6.07	$ -	$ 428.69		$ 428.69
13	Pt 15	T. Brenner	(3-01-821)	15.62	$ -	$ 1,819.09		$ 1,819.09
13	Pt 15	J. & U. Hundt	(3-01-812)	0.57	$ -	$ 66.38		$ 66.38
13	N Pt 16	B. Howatt	(3-02-000)	10.12	$ -	$ 1,178.33		$ 1,178.33
13	Pt 16, 17	Bylsma Farms Limited	(3-02-100)	41.28	$ -	$ 4,506.39		$ 4,506.39
13	W Pt 17	J. & L. Bylsma	(3-02-200)	29.54	$ -	$ 2,890.87		$ 2,890.87
13	Pt 18	* T. Bullock & M. Ross	(3-02-300)	1.30	$ -	$ 151.40		$ 151.40
13	Pt 18	Flynn Farms (Clinton) Ltd	(3-02-305)	39.17	$ -	$ 3,893.23		$ 3,893.23
13	W Pt 18	J. & L. Bylsma & Bylsma Farms Limited	(3-02-400)	20.24	$ -	$ 2,357.13		$ 2,357.13
13	E Pt 19	J. & L. Bylsma	(3-02-500)	30.35	$ -	$ 3,278.68		$ 3,278.68
13	W Pt 19	B. Shaddick	(3-02-600)	30.35	$ -	$ 2,910.08		$ 2,910.08
13	Pt 20	A., C., A. & H. Bylsma	(3-02-700)	38.45	$ -	$ 4,161.67		$ 4,161.67
13	N Pt 20	* G. & G. Neeb	(3-02-701)	1.42	$ -	$ 165.37		$ 165.37
13	Pt 20	* K. Pollard & A. Upshall	(3-02-710)	0.60	$ -	$ 139.75		$ 139.75
13	S Pt 20	A. & C. Bylsma	(3-02-800)	20.24	$ -	$ 2,356.55		$ 2,356.55
13	Pt 21	P. & H. Van Dorp	(3-02-900)	60.71	$ -	$ 6,768.61		$ 6,768.61
13	Pt 22	Bosma Farms Ltd	(3-03-000)	60.71	$ -	$ 6,737.75		$ 6,737.75
13	Pt 23 to Pt 25	Heinrich Farms Ltd	(3-03-100)	109.59	$ -	$ 10,344.49		$ 10,344.49
13	Pt 23 Pt 24	Sunny D Farms Limited	(3-03-200)	6.72	$ -	$ 782.61		$ 782.61
13	Pt 25	M. Peel	(3-03-300)	20.48	$ -	$ 1,230.39		$ 1,230.39
14	Pt 14, Pt 15	B. Howatt	(4-02-600)	27.12	$ -	$ 3,109.46		$ 3,109.46
14	N Pt 16	G., L. & A. Adams	(4-02-701)	0.41	$ -	$ 47.17		$ 47.17
14	S Pt 16, S Pt 17	B.& I. Howatt	(4-02-800)	59.09	$ -	$ 6,582.97		$ 6,582.97
14	N Pt 17 W ROW	A. De Boer	(4-03-000)	6.48	$ -	$ 754.07		$ 754.07
14	Pt 18	H. & E. Van Schaik	(4-03-100)	31.97	$ -	$ 3,467.69		$ 3,467.69
14	Pt 19	1025085 Ontario Limited	(4-03-200)	9.31	$ -	$ 1,084.00		$ 1,084.00
14	Pt 20	G. Snell	(4-03-600)	1.21	$ -	$ 141.38		$ 141.38
14	Pt 19, Pt 20	G. Snell	(4-03-700)	38.86	$ -	$ 4,286.28		$ 4,286.28
14	Pt 20	* H. Hummel	(4-03-705)	1.21	$ -	$ 140.92		$ 140.92
14	Pt 21 to S Pt 23 S/T ROW	G. Snell	(4-03-800)	46.95	$ -	$ 4,841.91		$ 4,841.91
14	S Pt 24	* R. & G. Snell	(4-05-200)	7.69	$ -	$ 447.73		$ 447.73

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ASSESSMENTS for CONSTRUCTION SUMMARY

PROJECT: Pollard Flood Control Project | **MUNICIPALITY: Central Huron**

DATE : August 5 2025 | **PROJECT No.: 300043248**

Conc. or Plan	Lot or Part	Owner	Roll No.	Affected Area (ha.)	Benefit Assess't (Sect.22)	Outlet Assess't (Sect. 23)	Special Assess't (Sect. 26)	Total Assessment
		TOTAL LANDS		**$ 1,570.94**	**$ 292,500.00**	**$ 137,604.19**		**$ 430,104.19**
		Roads						
Londesborough Side Streets		* Municipality of Central Huron		3.96	$ 44,140.00	$ 1,003.11	$ 57,580.00	$ 102,723.11
Allboro Line		* Municipality of Central Huron		8.37	$ -	$ 1,800.83		$ 1,800.83
Bandon Line		* Municipality of Central Huron		2.50	$ -	$ 873.44		$ 873.44
Hullet-McKillop Road		* Municipality of Central Huron		6.87	$ -	$ 2,920.80		$ 2,920.80
County Road 15		* County of Huron		5.84	$ 15,000.00	$ 443.33		$ 15,443.33
Highway No. 4		* County of Huron		7.10	$ 12,000.00	$ 4,134.30		$ 16,134.30
		TOTAL ROADS		**$ 34.64**	**$ 71,140.00**	**$ 11,175.81**	**$ 57,580.00**	**$ 139,895.81**
		ALL LANDS AND ROADS		**$ 1,605.58**	**$ 363,640.00**	**$ 148,780.00**	**$ 57,580.00**	**$ 570,000.00**

ASSESSMENTS for MAINTENANCE SUMMARY

BURNSIDE

PROJECT: Pollard Flood Control Project **MUNICIPALITY: Central Huron**

DATE : August 5 2025 **PROJECT No.: 300043248**

Conc. or Plan	Lot or Part	Owner	Roll No.	Affected Area (ha.)	Benefit Assess't (Sect.22)	Outlet Assess't (Sect. 23)	Total Assessment	Assessment for Maintenance
		Lands						
10	Pt 20	1596141 Ontario Inc	(0-02-300)	4.75	$ -	$ 108.48	$ 108.48	$2.12
10	N Pt 20	* M. Lavis & R. Potter	(0-02-301)	1.25	$ -	$ 28.55	$ 28.55	$0.56
10	21	B. Shaddick	(0-02-400)	6.70	$ -	$ 153.01	$ 153.01	$2.99
10	23	F. Adams	(0-02-600)	5.31	$ -	$ 47.69	$ 47.69	$0.93
10	N Pt 23	* Municipality of Central Huron	(0-02-605)	1.62	$ -	$ 43.65	$ 43.65	$0.85
10	23	* M. & D. Smith	(0-02-615)	1.10	$ -	$ 9.88	$ 9.88	$0.19
10	24	A. G. & L Adams	(0-02-700)	7.70	$ 12,000.00	$ 69.15	$ 12,069.15	$235.53
10	24	* J. & S. Grobbink	(0-02-705)	1.42	$ 12,000.00	$ 12.75	$ 12,012.75	$234.43
10	24	* C. Baird & C. McGraw	(0-02-800)	0.27	$ 12,000.00	$ 4.85	$ 12,004.85	$234.28
10	N Pt 24	* L. & S. Mayberry	(0-02-801)	0.20	$ 12,000.00	$ 3.59	$ 12,003.59	$234.25
10	N Pt 24	* M. Allen & A. Reinink	(0-02-802)	0.20	$ 12,000.00	$ 3.59	$ 12,003.59	$234.25
10	24	* M. Allen & A. Reinink	(0-02-803)	0.23	$ 12,000.00	$ 4.13	$ 12,004.13	$234.26
10	24	* P. Beauchamp	(0-02-900)	0.17	$ 12,000.00	$ 3.05	$ 12,003.05	$234.24
10	25	* Avon Maitland District School Board	(0-03-000)	6.71	$ 12,000.00	$ 90.39	$ 12,090.39	$235.95
10	25	W. Sluys	(0-03-100)	1.30	$ 12,000.00	$ -	$ 12,000.00	$234.18
10	25	* M. & M. Elson	(0-03-500)	0.12	$ -	$ 1.08	$ 1.08	$0.02
10	25	* M. & T. Smith	(0-03-600)	0.12	$ -	$ 1.08	$ 1.08	$0.02
10	25	* W. Biesinger	(0-03-700)	0.11	$ -	$ 0.99	$ 0.99	$0.02
10	25	* T., J. & C. Elliott	(0-03-800)	0.05	$ 1,500.00	$ 0.67	$ 1,500.67	$29.29
10	25	* T. & J. Elliott	(0-04-000)	0.12	$ 1,500.00	$ 1.08	$ 1,501.08	$29.29
10	26	* J. & J. Dodds	(0-04-100)	0.26	$ -	$ 60.56	$ 60.56	$1.18
10	26	* D. & K. Dolmage	(0-04-200)	0.15	$ -	$ 34.94	$ 34.94	$0.68
10	26	* B. Pickard	(0-04-300)	0.10	$ -	$ 23.29	$ 23.29	$0.45
10	26	* Wesleyan Methodist Church	(0-04-700)	0.14	$ -	$ 32.61	$ 32.61	$0.64
10	26	* S. Zehr	(0-04-900)	0.10	$ -	$ 23.29	$ 23.29	$0.45
10	26	* A. Thomson & C. Dick-Thomson	(0-05-000)	0.39	$ -	$ 90.84	$ 90.84	$1.77
11	18	A. & M. Caldwell	(1-01-900)	18.21	$ -	$ 655.54	$ 655.54	$12.79
11	19	A. & M. Caldwell	(1-02-000)	22.26	$ -	$ 508.34	$ 508.34	$9.92
11	20	C. & P. Heinrich & Heinrich Farms Ltd.	(1-02-100)	37.00	$ -	$ 818.96	$ 818.96	$15.98
11	20	* R. & S. Hummel	(1-02-105)	1.18	$ -	$ 26.95	$ 26.95	$0.53

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ASSESSMENTS for MAINTENANCE SUMMARY

PROJECT: Pollard Flood Control Project **MUNICIPALITY: Central Huron**

DATE : August 5 2025 **PROJECT No.: 300043248**

Conc. or Plan	Lot or Part	Owner	Roll No.	Affected Area (ha.)	Benefit Assess't (Sect.22)	Outlet Assess't (Sect. 23)	Total Assessment	Assessment for Maintenance
11	21	* Hensall District Co-operative Incorporated	(1-02-115)	1.87	$ -	$ 128.12	$ 128.12	$2.50
11	21	* Hensall District Co-operative Incorporated	(1-02-117)	16.13	$ -	$ 368.37	$ 368.37	$7.19
11	21	* MGM. Future Holdings Ltd.	(1-02-200)	2.32	$ -	$ 161.69	$ 161.69	$3.16
11	N Pt 21	M. Allin	(1-02-300)	20.24	$ -	$ 462.12	$ 462.12	$9.02
11	22	Cantelon Farms Limited	(1-02-400)	38.55	$ -	$ 841.91	$ 841.91	$16.43
11	22	* R. Williams & J. O'Rourke	(1-02-405)	1.72	$ -	$ 39.28	$ 39.28	$0.77
11	23	G. Adams	(1-02-500)	39.15	$ -	$ 949.98	$ 949.98	$18.54
11	23	* M. McVittie & J. De Chavez	(1-02-600)	0.26	$ -	$ 11.88	$ 11.88	$0.23
11	S Pt 23	* M. & D. Thompson	(1-02-601)	0.74	$ -	$ 33.80	$ 33.80	$0.66
11	23	* W. Dougherty	(1-02-700)	0.11	$ -	$ 5.02	$ 5.02	$0.10
11	E Pt 24	* C. Kreuger & H. Kreuger-Klijn	(1-02-800)	20.13	$ 12,000.00	$ 1,520.15	$ 13,520.15	$263.85
11	W Pt 24 Pt 25	C. Kreuger & H. Kreuger-Klijn	(1-02-900)	32.25	$ 12,000.00	$ 3,062.99	$ 15,062.99	$293.96
11	W Pt 24 Pt 25	* R. Bergsma	(1-02-905)	0.64	$ 12,000.00	$ 14.62	$ 12,014.62	$234.47
11	Pt 24	* Fellowship Bible Chapel	(1-07-102)	0.96	$ -	$ 24.17	$ 24.17	$0.47
11	25	* K. Campbell	(1-02-901)	0.17	$ 1,500.00	$ 27.73	$ 1,527.73	$29.81
11	25	* W. & J. Smyth	(1-02-902)	0.28	$ 1,500.00	$ 45.67	$ 1,545.67	$30.16
11	25	* B. Bosman	(1-02-903)	0.74	$ 12,000.00	$ 120.70	$ 12,120.70	$236.54
11	25	* 2708788 Ontario Inc.	(1-03-000)	0.42	$ 1,500.00	$ 146.74	$ 1,646.74	$32.14
11	25	* M. Bruner	(1-03-001)	2.20	$ 12,000.00	$ 256.21	$ 12,256.21	$239.18
11	25	P. & S. Hordijk	(1-03-100)	9.71	$ 12,000.00	$ 1,130.82	$ 13,130.82	$256.25
11	Pt 1 & 2	* A. Campbell & D. Hoggart	(1-03-200)	0.11	$ 1,500.00	$ 0.99	$ 1,500.99	$29.29
11	2	* D. Mouck	(1-03-400)	0.08	$ 1,500.00	$ 0.72	$ 1,500.72	$29.29
11	3	* W. & D. Riley	(1-03-500)	0.10	$ 1,500.00	$ 0.90	$ 1,500.90	$29.29
11	Pt 4 & 12	* M. Shiell & H. Darling	(1-03-600)	0.11	$ 1,500.00	$ 0.99	$ 1,500.99	$29.29
11	5	* A. Meloche	(1-03-700)	0.10	$ 1,500.00	$ 8.60	$ 1,508.60	$29.44
11	6	* M. Riley	(1-03-800)	0.10	$ 1,500.00	$ 16.31	$ 1,516.31	$29.59
11	7	* J. & N. Crawford	(1-03-900)	0.10	$ 1,500.00	$ 16.31	$ 1,516.31	$29.59
11	8	* J. Scrimgeour & S. Kipp	(1-04-000)	0.10	$ 1,500.00	$ 16.31	$ 1,516.31	$29.59
11	9 to 12	* Hensall District Co-operative Incorporated	(1-04-100)	0.34	$ 1,500.00	$ 4.58	$ 1,504.58	$29.36
11	13	* G. & N. Mills	(1-04-300)	0.10	$ 1,500.00	$ 8.60	$ 1,508.60	$29.44
11	14 & 15	* J. Unger & B. Niekoley-Unger	(1-04-400)	0.19	$ 1,500.00	$ 30.99	$ 1,530.99	$29.88

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ASSESSMENTS for MAINTENANCE SUMMARY

PROJECT: Pollard Flood Control Project **MUNICIPALITY: Central Huron**

DATE : August 5 2025 **PROJECT No.: 300043248**

Conc. or Plan	Lot or Part	Owner	Roll No.	Affected Area (ha.)	Benefit Assess't (Sect.22)	Outlet Assess't (Sect. 23)	Total Assessment	Assessment for Maintenance
11	16	* P. & S. Watson	(1-04-500)	0.10	$ 1,500.00	$ 16.31	$ 1,516.31	$29.59
11	17 & 17A	* Hensall District Co-operative Incorporated	(1-04-600)	0.19	$ 1,500.00	$ 2.56	$ 1,502.56	$29.32
11	18 & 18A	* J. Lantinga	(1-04-700)	0.13	$ 1,500.00	$ 1.17	$ 1,501.17	$29.30
11	N 18 & 18A	* D. Dick & M. Maclean	(1-04-800)	0.06	$ 1,500.00	$ 0.54	$ 1,500.54	$29.28
11	S Pt 19	* M. Govier	(1-04-900)	0.10	$ 1,500.00	$ 8.60	$ 1,508.60	$29.44
11	S Pt 22	* P. Radford	(1-04-910)	0.19	$ 1,500.00	$ 1.71	$ 1,501.71	$29.31
11	N Pt 22	* K. & R. Good	(1-05-000)	0.19	$ 1,500.00	$ 17.12	$ 1,517.12	$29.61
11	Pt 19	* M. Govier	(1-05-100)	0.11	$ 1,500.00	$ 17.94	$ 1,517.94	$29.62
11	Pt 19	* E. Peterson	(1-05-200)	0.19	$ 1,500.00	$ 30.99	$ 1,530.99	$29.88
11	S Pt 21 & 21A	* L. & N. Greidanus	(1-05-300)	0.10	$ 1,500.00	$ 0.90	$ 1,500.90	$29.29
11	N Pt 21 & 21A	* R. Glanville	(1-05-400)	0.10	$ 1,500.00	$ 0.90	$ 1,500.90	$29.29
11	Pt 23 & 23A	* K. & K. Machan & W. Mackenzie	(1-05-500)	0.19	$ 1,500.00	$ 1.71	$ 1,501.71	$29.31
11	Pt 24 & 24A	* B. Kiss & R. Edwards	(1-05-600)	0.19	$ 1,500.00	$ 1.71	$ 1,501.71	$29.31
11	N Pt 25	* C. Weber	(1-05-700)	0.04	$ 1,500.00	$ 6.52	$ 1,506.52	$29.40
11	W Pt 25	* W. & R. Hulley	(1-05-800)	0.15	$ 1,500.00	$ 24.47	$ 1,524.47	$29.75
11	Pt 25 & 28	* W. Hulley & C. Hulley-Craig	(1-05-805)	0.14	$ 1,500.00	$ 22.83	$ 1,522.83	$29.72
11	E Pt 28	* S. Garrity, S. & P. Reed & D. Mills	(1-05-900)	0.14	$ 1,500.00	$ 22.83	$ 1,522.83	$29.72
11	E Pt 28	* K. Hulley	(1-05-901)	0.14	$ 1,500.00	$ 22.83	$ 1,522.83	$29.72
11	Pt 25 & 28	* D. & W. Hulley & K. Fisher	(1-06-000)	0.14	$ 1,500.00	$ 22.83	$ 1,522.83	$29.72
11	Pt 26, 26A, 27, 27A	* M. & L. Blazevic	(1-06-100)	0.21	$ 1,500.00	$ 1.89	$ 1,501.89	$29.31
11	Pt 27 & 27A	* B. & D. Smith	(1-06-200)	0.18	$ 1,500.00	$ 1.62	$ 1,501.62	$29.30
11	Pt 29 & 29A	* J. Pearson-Boyd & T. Sinnamon	(1-06-300)	0.11	$ 1,500.00	$ 0.99	$ 1,500.99	$29.29
11	Pt 29A	* A. McKinley & C. Stone	(1-06-400)	0.08	$ 1,500.00	$ 0.72	$ 1,500.72	$29.29
11	Pt 20 & 20A	* Municipality of Central Huron	(1-06-500)	0.19	$ 1,500.00	$ 1.71	$ 1,501.71	$29.31
11	Pt 30	* C. Jefferson	(1-06-600)	0.10	$ 1,500.00	$ 0.90	$ 1,500.90	$29.29
11	Pt 30A	* B. Spencer	(1-06-700)	0.10	$ 1,500.00	$ 0.90	$ 1,500.90	$29.29
11	W Pt 31	* J. Lee & T. Simms	(1-06-800)	0.11	$ 1,500.00	$ 17.94	$ 1,517.94	$29.62
11	S Pt 34, S Pt 31	* S. & S. Gardiner	(1-06-805)	0.28	$ 1,500.00	$ 45.67	$ 1,545.67	$30.16
11	N Pt 31	* S. & J. Mallett	(1-06-815)	0.20	$ 1,500.00	$ 32.62	$ 1,532.62	$29.91
11	N Pt 34	* M. Fraser	(1-06-820)	0.20	$ 1,500.00	$ 32.62	$ 1,532.62	$29.91
11	Pt 32	* S. Reinink	(1-06-900)	0.10	$ 1,500.00	$ 0.90	$ 1,500.90	$29.29
11	Pt 33, Pt 33A	* N. & J. Hubbard	(1-07-000)	0.19	$ 1,500.00	$ 1.71	$ 1,501.71	$29.31
11	Pt 32A, Pt 25	* M. & C. Wheeler	(1-07-100)	0.11	$ 1,500.00	$ 0.99	$ 1,500.99	$29.29

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ASSESSMENTS for MAINTENANCE SUMMARY

PROJECT: Pollard Flood Control Project **MUNICIPALITY: Central Huron**

DATE : August 5 2025 **PROJECT No.: 300043248**

Conc. or Plan	Lot or Part	Owner	Roll No.	Affected Area (ha.)	Benefit Assess't (Sect.22)	Outlet Assess't (Sect. 23)	Total Assessment	Assessment for Maintenance
11	Pt 65	* K. Fothergill	(1-07-200)	0.09	$ 1,500.00	$ 14.68	$ 1,514.68	$29.56
11	Pt 66	* T. Pavao & M. Glousher	(1-07-300)	0.09	$ 1,500.00	$ 14.68	$ 1,514.68	$29.56
11	Pt 67, 68, 69	* M. Bakelaar	(1-07-400)	0.23	$ 1,500.00	$ 45.89	$ 1,545.89	$30.17
11	72	* D. Airdrie	(1-07-500)	0.10	$ 1,500.00	$ 18.40	$ 1,518.40	$29.63
11	70, PT 68 & 69	* J. & R. Airdrie	(1-07-502)	0.13	$ 1,500.00	$ 30.28	$ 1,530.28	$29.86
11	Pt 73, 25	* L. Allen	(1-07-600)	0.14	$ 1,500.00	$ 28.42	$ 1,528.42	$29.83
11	Pt 74	* P. & S. Watson	(1-07-700)	0.07	$ 1,500.00	$ 11.42	$ 1,511.42	$29.50
11	Pt 25	* S. Radford & J. Geddes	(1-07-801)	0.14	$ 1,500.00	$ 25.63	$ 1,525.63	$29.77
11	Pt 25	* C. Jeong & U. Kim	(1-07-802)	0.14	$ 1,500.00	$ 22.83	$ 1,522.83	$29.72
11	Pt 25	* S. & T. Taylor	(1-07-804)	0.14	$ 1,500.00	$ 22.83	$ 1,522.83	$29.72
11	Pt 25	* R. Millian	(1-07-806)	0.15	$ 1,500.00	$ 25.86	$ 1,525.86	$29.78
11	Pt 25	* A. & G. Allen	(1-07-808)	0.15	$ 1,500.00	$ 34.94	$ 1,534.94	$29.95
11	Pt 71, 25	* A. & G. Allen	(1-07-812)	0.13	$ 1,500.00	$ 30.28	$ 1,530.28	$29.86
11	Pt 25	* D. & K. Reid	(1-07-824)	0.15	$ 1,500.00	$ 34.94	$ 1,534.94	$29.95
11	Pt 25	* T. & B. Jarrett	(1-07-826)	0.15	$ 1,500.00	$ 34.94	$ 1,534.94	$29.95
11	Pt 25	* D. Allen	(1-07-828)	0.15	$ 1,500.00	$ 24.47	$ 1,524.47	$29.75
11	Pt 25	* J. & N. Bernier	(1-07-854)	0.15	$ 1,500.00	$ 24.47	$ 1,524.47	$29.75
11	Pt 25	* J. Thomas	(1-07-856)	0.61	$ 12,000.00	$ 99.49	$ 12,099.49	$236.12
11	Pt 25	* K. Laporte & C. Walmsley	(1-07-862)	0.14	$ 1,500.00	$ 22.83	$ 1,522.83	$29.72
11	Pt A & B	* R. Williams & B. Toth	(1-07-900)	0.14	$ -	$ 32.61	$ 32.61	$0.64
11	Pt A	* 2422329 Ontario Ltd	(1-08-000)	0.06	$ -	$ 13.98	$ 13.98	$0.27
11	Pt C	* M. Bergsma	(1-08-100)	0.10	$ -	$ 23.29	$ 23.29	$0.45
11	Pt L, M, N, A	* United Church of Canada	(1-08-200)	0.43	$ -	$ 150.23	$ 150.23	$2.93
11	S Pt D & M	* T. & L. Mack	(1-08-300)	0.10	$ -	$ 23.29	$ 23.29	$0.45
11	Pt O & F & E, P, G, N, M, D	* N. Nguyen	(1-08-400)	0.49	$ -	$ 171.19	$ 171.19	$3.34
11	Pt H	* H. Lyons	(1-08-500)	0.08	$ -	$ 18.63	$ 18.63	$0.36
11	Pt Q, G, H, P	* N. Nguyen	(1-08-600)	0.26	$ -	$ 90.84	$ 90.84	$1.77
11	Pt I & R	* E. Moon	(1-08-700)	0.14	$ -	$ 32.61	$ 32.61	$0.64
11	Pt K & S	* T. Lowey	(1-08-800)	0.18	$ -	$ 41.93	$ 41.93	$0.82
11	Pt 26	* N. Stryker	(1-08-900)	0.10	$ -	$ 23.29	$ 23.29	$0.45
11	Pt B	* N. Nguyen	(1-09-001)	0.21	$ -	$ 48.91	$ 48.91	$0.95
11	Pt C	* N. Nguyen	(1-09-300)	0.57	$ -	$ 132.76	$ 132.76	$2.59
11	Pt 26	A. & M. Dykstra	(1-09-400)	28.99	$ -	$ 3,149.06	$ 3,149.06	$61.45
11	Pt 26	* R. & P. McDonald	(1-09-401)	2.38	$ -	$ 510.67	$ 510.67	$9.97

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DATE : August 5 2025 **PROJECT No.: 300043248**

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11	Pt 26	* K. & D. Fraser	(1-09-500)	0.17	$ -	$ 39.60	$ 39.60	$0.77
11	Pt 26	* J. & J. Klasen	(1-09-700)	0.06	$ -	$ 6.99	$ 6.99	$0.14
11	Pt 1 to 3 to 7 to 9	* R. Kassies & I. Pawlik	(1-09-718)	0.34	$ -	$ 39.60	$ 39.60	$0.77
11	Pt 27	D. & K. Greidanus	(1-09-800)	20.24	$ -	$ 2,139.94	$ 2,139.94	$41.76
11	28 & E 1/2 LOT 29	S. Trick	(1-09-900)	14.17	$ -	$ 1,412.07	$ 1,412.07	$27.56
12	Pt 17	Bylsma Farms Limited	(2-02-500)	27.78	$ -	$ 2,931.86	$ 2,931.86	$57.22
12	Pt 17	T. Elliott	(2-02-600)	0.46	$ -	$ 53.57	$ 53.57	$1.05
12	Pt 18 S/T ROW	Heinrich Farms Ltd	(2-02-700)	31.88	$ -	$ 3,439.48	$ 3,439.48	$67.12
12	Pt 19	P. & C. Heinrich & Heinrich Farms Ltd	(2-02-750)	38.79	$ -	$ 3,362.06	$ 3,362.06	$65.61
12	Pt 19	* E. & D. Baxter	(2-02-755)	1.68	$ -	$ 391.30	$ 391.30	$7.64
12	Pt 20	P. & C. Heinrich & Heinrich Farms Ltd	(2-02-800)	40.47	$ -	$ 2,670.28	$ 2,670.28	$52.11
12	N Pt 21	M. Allin	(2-02-900)	36.50	$ -	$ 1,174.01	$ 1,174.01	$22.91
12	N Pt 21	D., D. & M. Allin	(2-02-905)	3.97	$ -	$ 315.36	$ 315.36	$6.15
12	Pt 22	Cantelon Farms Limited	(2-03-000)	37.96	$ -	$ 2,168.26	$ 2,168.26	$42.31
12	Pt 22	I. & J. Croft	(2-03-005)	2.51	$ -	$ 267.97	$ 267.97	$5.23
12	E Pt 23	Heinrich Farms Ltd	(2-03-100)	20.24	$ -	$ 1,293.59	$ 1,293.59	$25.24
12	Pt 24 W Pt 23	G. Andrews	(2-03-300)	60.71	$ -	$ 6,008.04	$ 6,008.04	$117.25
12	S Pt 25	P. & S. Hordijk	(2-03-400)	19.97	$ -	$ 2,325.69	$ 2,325.69	$45.39
12	N Pt 25	Sustainable Ag Limited	(2-03-500)	20.38	$ -	$ 1,618.78	$ 1,618.78	$31.59
12	Pt 26	P., K., P. & C. Wong	(2-03-600)	2.79	$ -	$ 324.92	$ 324.92	$6.34
12	Pt 26	Reinink Poultry Ltd	(2-03-700)	23.11	$ -	$ 2,691.49	$ 2,691.49	$52.53
12	E Pt 27	Triple Birch Farms Inc	(2-03-900)	13.36	$ -	$ 1,321.81	$ 1,321.81	$25.80
12	W Pt 27	Wiltsway Farms Inc	(2-04-000)	14.17	$ -	$ 1,455.16	$ 1,455.16	$28.40
12	E Pt 28	R. & K. Wilts	(2-04-100)	14.17	$ -	$ 1,364.90	$ 1,364.90	$26.64
13	Pt 14	A. Bylsma	(3-01-700)	6.07	$ -	$ 428.69	$ 428.69	$8.37
13	Pt 15	T. Brenner	(3-01-821)	15.62	$ -	$ 1,819.09	$ 1,819.09	$35.50
13	Pt 15	J. & U. Hundt	(3-01-812)	0.57	$ -	$ 66.38	$ 66.38	$1.30
13	N Pt 16	B. Howatt	(3-02-000)	10.12	$ -	$ 1,178.33	$ 1,178.33	$23.00
13	Pt 16, 17	Bylsma Farms Limited	(3-02-100)	41.28	$ -	$ 4,506.39	$ 4,506.39	$87.94
13	W Pt 17	J. & L. Bylsma	(3-02-200)	29.54	$ -	$ 2,890.87	$ 2,890.87	$56.42
13	Pt 18	* T. Bullock & M. Ross	(3-02-300)	1.30	$ -	$ 151.40	$ 151.40	$2.95
13	Pt 18	Flynn Farms (Clinton) Ltd	(3-02-305)	39.17	$ -	$ 3,893.23	$ 3,893.23	$75.98
13	W Pt 18	J. & L. Bylsma & Bylsma Farms Limited	(3-02-400)	20.24	$ -	$ 2,357.13	$ 2,357.13	$46.00

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13	E Pt 19	J. & L. Bylsma	(3-02-500)	30.35	$ -	$ 3,278.68	$ 3,278.68	$63.98
13	W Pt 19	B. Shaddick	(3-02-600)	30.35	$ -	$ 2,910.08	$ 2,910.08	$56.79
13	Pt 20	A., C., A. & H. Bylsma	(3-02-700)	38.45	$ -	$ 4,161.67	$ 4,161.67	$81.22
13	N Pt 20	* G. & G. Neeb	(3-02-701)	1.42	$ -	$ 165.37	$ 165.37	$3.23
13	Pt 20	* K. Pollard & A. Upshall	(3-02-710)	0.60	$ -	$ 139.75	$ 139.75	$2.73
13	S Pt 20	A. & C. Bylsma	(3-02-800)	20.24	$ -	$ 2,356.55	$ 2,356.55	$45.99
13	Pt 21	P. & H. Van Dorp	(3-02-900)	60.71	$ -	$ 6,768.61	$ 6,768.61	$132.09
13	Pt 22	Bosma Farms Ltd	(3-03-000)	60.71	$ -	$ 6,737.75	$ 6,737.75	$131.49
13	Pt 23 to Pt 25	Heinrich Farms Ltd	(3-03-100)	109.59	$ -	$ 10,344.49	$ 10,344.49	$201.88
13	Pt 23 Pt 24	Sunny D Farms Limited	(3-03-200)	6.72	$ -	$ 782.61	$ 782.61	$15.27
13	Pt 25	M. Peel	(3-03-300)	20.48	$ -	$ 1,230.39	$ 1,230.39	$24.01
14	Pt 14, Pt 15	B. Howatt	(4-02-600)	27.12	$ -	$ 3,109.46	$ 3,109.46	$60.68
14	N Pt 16	G., L. & A. Adams	(4-02-701)	0.41	$ -	$ 47.17	$ 47.17	$0.92
14	S Pt 16, S Pt 17	B.& I. Howatt	(4-02-800)	59.09	$ -	$ 6,582.97	$ 6,582.97	$128.47
14	N Pt 17 W ROW	A. De Boer	(4-03-000)	6.48	$ -	$ 754.07	$ 754.07	$14.72
14	Pt 18	H. & E. Van Schaik	(4-03-100)	31.97	$ -	$ 3,467.69	$ 3,467.69	$67.67
14	Pt 19	1025085 Ontario Limited	(4-03-200)	9.31	$ -	$ 1,084.00	$ 1,084.00	$21.15
14	Pt 20	G. Snell	(4-03-600)	1.21	$ -	$ 141.38	$ 141.38	$2.76
14	Pt 19, Pt 20	G. Snell	(4-03-700)	38.86	$ -	$ 4,286.28	$ 4,286.28	$83.65
14	Pt 20	* H. Hummel	(4-03-705)	1.21	$ -	$ 140.92	$ 140.92	$2.75
14	Pt 21 to S Pt 23 S/T ROW	G. Snell	(4-03-800)	46.95	$ -	$ 4,841.91	$ 4,841.91	$94.49
14	S Pt 24	* R. & G. Snell	(4-05-200)	7.69	$ -	$ 447.73	$ 447.73	$8.74
			TOTAL LANDS	**$ 1,570.94**	**$ 292,500.00**	**$ 137,604.19**	**$ 430,104.19**	**$ 8,393.59**

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Conc. or Plan	Lot or Part	Owner	Roll No.	Affected Area (ha.)	Benefit Assess't (Sect.22)	Outlet Assess't (Sect. 23)	Total Assessment	Assessment for Maintenance
		Roads						
Londesborough Side Streets		* Municipality of Central Huron		3.96	$ 44,140.00	$ 1,003.11	$ 45,143.11	$880.98
Allboro Line		* Municipality of Central Huron		8.37	$ -	$ 1,800.83	$ 1,800.83	$35.14
Bandon Line		* Municipality of Central Huron		2.50	$ -	$ 873.44	$ 873.44	$17.05
Hullet-McKillop Road		* Municipality of Central Huron		6.87	$ -	$ 2,920.80	$ 2,920.80	$57.00
County Road 15		* County of Huron		5.84	$ 15,000.00	$ 443.33	$ 15,443.33	$301.38
Highway No. 4		* County of Huron		7.10	$ 12,000.00	$ 4,134.30	$ 16,134.30	$314.86
			TOTAL ROADS	**$ 34.64**	**$ 71,140.00**	**$ 11,175.81**	**$ 82,315.81**	**$ 1,606.41**
			ALL LANDS AND ROADS	**$ 1,605.58**	**$ 363,640.00**	**$ 148,780.00**	**$ 512,420.00**	**$ 10,000.00**

BURNSIDE
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Appendix E

Standard Drain Specifications

E.2.1 GENERAL DRAIN SPECIFICATIONS

E.2.1.1 SCOPE OF SPECIFICATIONS

This specification covers the general conditions governing the construction of a Municipal Drain under the most recent revision of The Drainage Act and amendments. All work shall be done in accordance with current and applicable Ontario Provincial Standard Specifications and Drawings (OPSS and OPSD).

E.2.1.2 BENCHMARKS

Benchmarks shall be set at intervals along the course of the work at locations shown on the accompanying plan and/or profile. The Contractor or landowner shall be held liable for the cost of re-establishing benchmarks destroyed. Attention is drawn to Section 13 of The Drainage Act.

E.2.1.3 STAKES/FLAGS/MARKERS

Stakes, flags or markers are typically set at intervals throughout the course of the work, at all fences and property lines. The Contractor or landowner shall be held liable for the cost of replacing any stakes removed or destroyed.

E.2.1.4 PROFILE

The drain is to be excavated or installed to regular gradient lines as shown on the profile(s). These gradients show the bottom of the finished drain (open or closed) and are governed entirely by the benchmarks. In the case of closed drains, the gradient is that of the invert of the tile. The profile(s) shows the approximate depth from the surface of the ground to the invert of the tile or drain bottom at the point where the stations are set and from the average bottom of the open drain as taken at the time of survey. Open drains shall be brought to an even gradient in the bottom to prevent standing water. For closed drains, a variation of 25 mm (unless specified otherwise) from the gradient may be deemed sufficient reason for the work to be rejected and required to be rebuilt.

E.2.1.5 CLEARING

Clearing means the cutting of all standing trees, brush, bushes and other vegetation to a maximum height of 300 mm above original ground level as well as the removal of felled materials and windfalls. Trees measuring 150 mm or more in diameter shall be felled, delimbed, cut into lengths no longer than 4 m and stacked to the designated side of the working space. The work shall not damage or disturb the area outside the areas specified in the Contract Documents.

The work shall consist of clearing all areas of earth excavation, earth surfaces to be covered by embankments up to and including 1.2 m in height, and any other areas specified in the Contract Documents.

No trees, brush or bushes are to be left inside the slopes of the drain, whether they are located within the limits of the excavation or not. Brush cleared in accordance with the above shall be piled in a location and in a manner satisfactory to the Engineer for burning by the Owner. Unless otherwise specified or directed, these piles shall be a minimum of 100 m apart and shall contain only cleared material. All work shall be done in accordance with OPSS 201.

E.2.1.6 CLOSE CUT CLEARING

Close Cut Clearing means the cutting of all standing trees, stumps, brush, bushes and other vegetation at original ground level and the removal of felled materials and windfalls. Grubbing means the removal of all stumps, roots, embedded logs, debris and secondary growth. Trees measuring 150 mm or more in diameter shall be felled, delimbed, cut into lengths no longer than 4 m and stacked to the designated side of the working space. The work shall not damage or disturb the area outside the areas specified in the Contract Documents.

The work shall consist of close cut clearing all earth surfaces to be covered by embankments greater than 1.2 m in height, and any other areas specified in the Contract Documents.

No trees, stumps, brush or bushes are to be left inside the slopes of the drain whether they are located within the limits of the excavation or not. Brush cleared in accordance with the above shall be piled in a location and in a manner satisfactory to the Engineer for burning by the Owner. Unless otherwise specified or directed, these piles shall be a minimum of 100 m apart and shall contain only cleared material. All work shall be done in accordance with OPSS 201.

E.2.1.7 BRUSHING

Brushing means the grinding or chipping to ground level of vegetation in the working space under 150 mm in diameter by means of a hydraulic brushing attachment used with an excavator or approved equivalent. This includes grinding or chipping all standing trees, stumps, brush, bushes and other vegetation to original ground level.

Trees measuring 150 mm or more in diameter shall be felled, delimbed, cut into lengths no longer than 4 m and stacked to the designated side of the working space. The work shall not damage or disturb the area outside the areas specified in the Contract Documents. All work shall be done in accordance with OPSS 201.

E.2.1.8 GRUBBING

Grubbing means the removal of all stumps, roots, embedded logs, debris and secondary growth.

The work shall consist of grubbing all areas of earth excavation, earth surfaces to be covered by embankments up to and including 1.2 m in height and any other areas specified in the Contract Documents.

Grubbing is not required in swamps. Mechanical stump cutters are permitted, provided the entire root structure is removed. Depressions remaining after grubbing shall be backfilled with suitable earth material and compacted to avoid settlement. When clearing has been previously completed by others, all secondary growth, brush and debris shall be removed.

Piled boulders and surface boulders that are not specified in the Contract Documents for removal and lie within areas to be grubbed shall be removed. The work shall not damage or disturb the area outside the areas specified in the Contract Documents. All work shall be done in accordance with OPSS 201.

E.2.1.9 REMOVAL OF SURFACE BOULDERS & REMOVAL OF PILED BOULDERS

Piled Boulders means any cobbles, boulders or rock fragments that have been placed in fence rows or piles.

Rock means rock as defined in OPSS 206.

Surface Boulder means any boulder or rock fragment that measures 200 mm or greater in any one dimension, extends a minimum of 200 mm above original ground and can be removed without excavation.

The work shall consist of the removal of surface boulders and removal of piled boulders within the areas specified in the Contract Documents. Depressions remaining after removal shall be backfilled with suitable earth material and compacted to avoid settlement. The work shall not damage or disturb the area outside the areas specified in the Contract Documents. All work shall be done in accordance with OPSS 201.

E.2.1.10 FENCES

The Contractor will be permitted to remove fences to the extent necessary to allow the construction of the drain and to dispose of any excess material according to the specifications. Any such fences shall be carefully handled so as to cause no unnecessary damage. Unless allowance has been provided, such fences shall be replaced by the Contractor in as good a condition as found. The Contractor shall supply all material necessary to properly reconstruct any fences. The Contractor shall not leave any fence open when he is not at work in the immediate area and shall replace the fence in a timely manner, all to the satisfaction of the Engineer.

E.2.1.11 STANDING CROPS AND LIVESTOCK

Should a property owner wish to harvest any crop along an access route or within the construction working space as set out in the Engineer's Report, then it shall be the responsibility of the property owner to do so prior to construction. Provisions for the loss of, or damage to, crops along the access route or in the construction area ("Working Space") have been made in the Report and such loss or damage shall not be the liability of the Contractor.

The Contractor shall contain construction operations to the working space and width specified. As long as the construction operations are contained within the specified working space, the Contractor shall not be responsible for damages to crops along the course of the drain.

It shall be the responsibility of the property owners to keep their livestock clear of the construction area upon receiving 24 hours advance notice by the Contractor. After receiving proper notice, the Owner of the property upon which a drain is being constructed shall be liable for any loss or damage to livestock, the drain, drain materials or the Contractor's equipment caused by their livestock.

E.2.1.12 NOTIFICATION OF AGENCIES

The Contractor shall notify the appropriate agency before performing any work affecting the land or property of the MTO, railway, telephone, pipeline or public utility or regulatory agency. The Contractor shall further agree to perform the work affecting such lands or property in accordance with the specifications and approval/permit of the applicable agency.

E.2.1.13 FINAL INSPECTIONS

After substantial completion of the work, but prior to demobilization and final removal of all equipment and materials from the site, the Contractor MUST arrange an on-site FINAL Inspection of the work with the engineer to ensure all aspects of the work have been satisfactorily completed and/or that arrangements have been made to expedite the completion of any outstanding "minor" items or deficiencies. All the work included in the contract, at the time of the Final Inspection, must have the full dimensions and cross-sections called for in the plans and specifications. Notification to the Engineer of this Final Inspection shall be provided at least 5 days prior and it shall be completed as soon as possible or as soon thereafter as weather conditions permit.

E.2.2 SPECIFICATIONS FOR OPEN DRAINS

E.2.2.1 GEOMETRY

The drain shall have the full bottom width, at the gradient, specified or shown on the accompanying plan(s), profile(s) and detail sheet(s).

E.2.2.2 ALIGNMENT

The drain shall run in straight lines throughout each course except at intersections, where it shall run on a minimum curve of 15 m radius unless otherwise specified. If the work consists of the improvement of an existing open drain, then the centre line of the existing drain may be the centre line of the finished work unless otherwise specified.

E.2.2.3 EXCAVATED MATERIAL

A clear buffer of at least 3 m shall be left between the top edge of the open drain and the excavated material. Excavated material shall be placed on the side specified or, if not specified, on the lower side of the drain or on the side opposite trees or fences. No excavated material is to be left in any low runs intended to conduct water into the open drain. It shall be deposited, spread and leveled to a maximum depth of 150 mm, unless specified otherwise and left in a manner such that the lands on which it is spread may be cultivated with adjacent lands by use of ordinary farm machinery. Material excavated in land that is timbered, may be spread to the depth specified or to a maximum depth of 300 mm, which ever is greater. In cultivated areas, the Contractor shall remove stones and boulders on the surface greater than 100 mm diameter from the excavated material and dispose of in an approved location. Treatment of excavated material shall be to the satisfaction of the Engineer. After the excavated material has been spread and leveled, it shall be seeded as specified.

E.2.2.4 SURFACE WATER INLETS

Surface water inlets to the drain shall be provided through the leveled spoil on each property at obvious natural low runs or at other locations as specified by the Engineer on site at the time of construction. No excavated material shall be left in, or any damage done to a ditch, furrow, pipe, tile or depression that is intended to conduct water into an open drain. The drain bank at all such inlets shall be riprapped as directed by the Engineer and reimbursed under the appropriate contract item.

E.2.2.5 OUTLETS

During the construction of an open drain, the Contractor shall guard against damaging the outlet of any tributary drain or pipes encountered. The Contactor will be reimbursed for damage to unmarked outlet pipes under the appropriate contract item.

E.2.2.6 ACCESS CULVERTS

All culverts shall be installed with the invert a minimum of 10% of its diameter or as specified below the gradient and the firm bottom of the drain.

All pipes installed under these specifications shall be carefully bedded so as to ensure uniform bearing throughout its entire length.

Except where requiring concrete cradle or encasement, all pipes shall be bedded on granular fill as specified or as shown on the contract drawings. Bedding shall be hand placed, tamped and consolidated throughout. Granular fill and bedding shall be gravel or crushed stone having no particles over 20 mm in size, except where otherwise specified.

Concrete cradle and concrete encasement shall be placed as shown on the drawings, and the concrete shall be minimum 25 MPa.

From the top of the bedding material to a point 150 mm below the existing grade of the laneway, backfill material shall be clean pit run gravel meeting O.P.S.S. Granular "B" or approved equivalent. The material shall be placed in lifts not to exceed 300 mm in depth and all granular materials shall be compacted to 100 % SPMDD and all subsoil or previously excavated material to 95 % SPMDD.

The final 150 mm of the excavation shall be filled with clean crushed gravel conforming to O.P.S.S. Granular "A" specifications. The material shall be placed in lifts not exceeding 150 mm in depth and shall be thoroughly compacted to 100 % SPMDD.

E.2.2.7 EXCAVATION AT BRIDGE SITES

The excavation at bridge sites shall be to the full depth of the drain and as nearly as possible the full width of the drain as specified for the bridge location. The excavation at a bridge site shall be made in a manner to protect the structural integrity of any permanent bridge. A temporary bridge may be carefully removed to allow excavation. The removal of a bridge is to be done in such a manner so as to cause no damage to the bridge components. Temporary bridges removed to allow excavation shall be replaced in as good a condition as found, so far as material allows. Replacing of such bridges shall be to the satisfaction of the Engineer. The Contractor shall immediately notify the Engineer if it becomes apparent that excavating to a specified gradient will endanger or underpin any culvert or bridge. The Contractor shall cease excavation at the bridge or culvert site until the Engineer instructs the Contractor to proceed.

E.2.2.8 SEEDING

Unless indicated otherwise in the Special Provisions, the Contractor shall seed all disturbed areas which includes newly excavated drain banks and leveled spoil (where

specified) with the OPSS (MTO) Standard Roadside Seed Mix, consisting of 55% Creeping Red Fescue, 27% Kentucky Bluegrass, 15% Perennial Ryegrass and 3% White Clover, at an application rate of 100 kg/10,000 m^2, plus a nurse crop of Fall Rye Grain or Winter Wheat Grain at an application rate of 60 kg/10,000 m^2, at the end of each working day.

E.2.2.9 TEMPORARY SEDIMENT CONTROLS

Unless indicated otherwise in the Special Provisions, the Contractor shall install an approved sediment control measure at the downstream end of the open drain excavation and at any other locations specified. The Contractor shall remove any accumulated sediment at regular intervals or as directed by the Engineer. The Contractor shall then remove these temporary measures, and any accumulated sediment therein, after the new open drain has stabilized and only after authorized by the Engineer or the Drainage Superintendent.

E.2.2.10 PERMANENT SEDIMENT/STILLING BASINS

The Contractor shall construct and maintain sediment control or stilling basins as specified in the Special Provisions.

E.2.2.11 RIP RAP & NON-WOVEN GEOTEXTILE

Rip Rap – The Contractor shall supply and install a 450 mm thickness of 150 mm to 300 mm (R-50) diameter quarry stone rip rap with filter cloth underlayment for culvert and pipe outlets. This will include areas of the existing bank where erosion or bank slumping has occurred, as directed on-site by the Engineer. For the area surrounding catchbasins, unless noted otherwise, the contractor shall supply and install a 300 mm thickness of 100 to 150 mm (R-10) diameter quarry stone rip rap with filter cloth underlayment.

Non-Woven Geotextile - All geotextile used for tile wrapping under these specifications shall be non-woven Terrafix 200R (or equivalent). All geotextile used under these specifications for heavy duty applications such as under rip-rap surrounding catchbasins, and at tile outlets into drains shall be non-woven Terrafix 270R (or equivalent).

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Appendix F

Special Provisions

Appendix F – Special Provisions

Pollard Flood Control Project

These ***Special Provisions*** are specific directions for this project in particular, and detail requirements not encompassed by ***Appendix E - Standard Drain Specifications***.

Special Provisions shall take precedence over the ***Standard Drain Specifications*** where a conflict between them may exist.

Standard Drain Specifications

All work for this project shall also be governed by **Appendix E - Standard Drain Specifications**. The Contractor is fully responsible for a reasonable and prudent review of these Standards to have a complete and clear understanding of the scope and character of the work.

Description & Location

The proposed drain is located within Lots 23, 24 and 25, Concessions 10 and 11, in the Municipality of Central Huron (formerly Hullet).

The proposed works include construction of a new flood channel along the course of the existing open Pollard Drainage Works opposite the Village of Londesborough. The proposed works are approximately 1,364 m in length. The location of the work is shown on the enclosed Plan.

General

The following general conditions and requirements apply to this project:

- Install, maintain and remove any temporary sediment control measures as specified and/or directed by the Engineer, Drainage Superintendent or the Conservation Authority.
- Construct Stilling Basin and Rock Check Dam.
- Extend two low water crossings.
- Remove two private pedestrian bridges.
- Relocate one snowmobile bridge.
- Remove and replace rock rip-rap protection.
- Install Bendway Weirs.
- Extend existing tile outlets.
- Excavate, load, haul and dispose of excess fill materials.
- Reinstate ditch banks with topsoil, sod and seed & mulch.
- Restore and rehabilitate the entire site and each access route to its pre-construction condition(s).

Unless specified otherwise, prior to excavation the flood channel, the Contractor shall strip the existing topsoil from the area of the proposed work for the entire width as specified. The topsoil shall be stockpiled separately from any and all native soil and subsequently replaced over the new ditch slopes, as part of the work under the appropriate item. An extra payment will **not** be made for this stripping, stockpiling and replacing of topsoil.

Subsoil Conditions

Subsoil investigations have **not** been undertaken on this project.

Private Systematic Drainage Systems

The Contractor is advised that at the time of submission of this Report, systematic drainage systems outlets and Municipal tile drain outlets were known by the Engineer. The location of existing private drainage systems shall again be discussed at the Pre-Construction meeting and existing systems affected by the construction shall be located by the Contractor and reviewed with the Engineer and affected landowners prior to construction.

Pre-Construction Meeting

The Contractor MUST arrange an on-site Pre-Construction Meeting with the Engineer, Drainage Superintendent and affected landowners before any equipment or materials are moved onto the Site and before any work is commenced on this project.

Conservation Authority Project Requirements

An MVCA permit must be obtained prior to the commencement of work. A permit from MVCA will be appended when available.

Working Space

The area being provided to the Contractor to undertake the work is described herein and the maximum widths are specified on the table entitled *'Working Space'*. The Contractor shall contain their construction operations to as narrow a width as possible, so as to prevent damage to lands, crops, wooded lands, etc.; however, in no case shall they exceed the maximum widths indicated. The Contractor shall be entirely responsible for any damage to lands, crops, etc., beyond the widths and locations of both the working spaces and the access routes specified, caused by them, their subcontractors, or their employees while undertaking the work.

WORKING SPACE		
Station	**Max. Width (m)**	**Comments**
1+200 to 1+660	20 m working space	Access to the Pollard Flood Control Project will be from County Road 15 onto the J. & S. Grobbink property to the Drains working space along the drain on Lot 24, Concession 10, as shown on the enclosed Plan.
1+685 to 2+564	20 m working space	Access to the Pollard Flood Control Project will be from Trueman Street onto the C. Kreuger & H. Kreuger-Klijn property to the Drains working space along the drain on Lot 24, Concession 11, as shown on the enclosed Plan.

NOTES:

1. The Contractor shall contain their construction operations to as narrow a width as possible, so as to prevent damage to lands, crops, bush, etc., and shall not exceed the widths indicated.
2. The Contractor shall be entirely responsible for any damage to lands, crops, etc., beyond the widths and locations of both the access routes and the working spaces specified, caused by the Contractor, their Subcontractors or their employees while undertaking the work.
3. The Engineer's approval MUST BE OBTAINED BEFORE exceeding the maximum widths indicated.
4. Access to the working space shall be public roads or as specified. All routes must be approved by the Engineer and Drainage Superintendent prior to construction.

Access Routes

The access routes for construction shall be from specified location on County Road 15 and from Trueman Street to the drains access route as specified in the Table 'Working Space' and on the enclosed Plan. The Contractor shall confirm these access routes with the Engineer, Drainage Superintendent and affected landowners prior to commencing any work.

Final Inspection

After substantial completion of the work and prior to demobilization and removal of equipment and materials from the site, the Contractor MUST arrange an on-site FINAL inspection of the work with the Engineer. This is to ensure all aspects of the work have been satisfactorily completed and/or that arrangements have been made to expedite the

completion of any outstanding minor items or deficiencies. Notification to the Engineer of this Final Inspection shall be provided at least two days prior.

Description of Work - General Construction

The following general construction conditions and requirements apply to this project:

- The drain construction shall be located as directed by the Engineer prior to the commencement of construction and reviewed with the Engineer along its entire length to confirm the construction location.
- The Pollard Flood Control Project shall be constructed to avoid disruption of the existing substrate and deposition of sediment within the existing channel. Post-construction restoration of the working area shall be to the satisfaction of the Engineer.

The specific items listed here are in addition to those described in the *Estimate of the Cost of Work* (Appendix B) and the *Standard Drain Specifications* (Appendix E). The numbering of each item references the corresponding items in the *Schedule of Unit Prices* to be issued in the *Form of Tender.*

For the Lump sum bid, the Contractor shall undertake the following work:

SECTION A–Channel Excavation

W. Sluys (Roll 0-03-100)

SP1. Relocate Existing Private Bridge – Sta. 1+218

Relocate the existing private bridge structure approximately 20 m downstream. The contractor will carefully support the bridge throughout the relocation process and set it on level solid ground.

SP2. Stilling Basin & Rock Check dam – Sta. 1+200 to 1+230

Construct a 10 m stilling basin, rock check dam and transition section complete with geotextile, rip-rap side slopes and riverstone bedding as per detailed drawing.

SP3. Low Water Crossing – Sta. 1+230 to 1+234

Extend existing low water crossing on side of widening. Supply and install rip-rap with geotextile material protection along the extended ramp section and along new transitional banks as per detail.

SP4. Excavate Flood Channel – Sta. 1+234 to 1+432

Strip and stockpile topsoil from working area. Salvage sod for reinstatement. Excavate and load excess fill material from new flood channel. Reinstate channel bank with topsoil and sod as per detail. Apply seed and mulch to all disturbed areas.

SP5. Haul and Dispose of Excavated Material – Sta. 1+234 to 1+432

Supply sufficient trucks to haul excess excavated materials to the Municipality Gravel Pit located on Lot 30**,** Concession 11. Approximately 1,257 m^3.

M. Adams (Roll 0-02-700)

SP6. Excavate Flood Channel – Sta. 1+432 to 1+591

Strip and stockpile topsoil from working area. Salvage sod for reinstatement. Clear and grub trees. Excavate and load excess fill material from new flood channel. Reinstate channel bank with topsoil and sod as per detail. Apply seed and mulch to all disturbed areas. Supply and Place marker posts for existing tile outlets two each.

SP7. Haul and Dispose of Excavated Material – Sta. 1+432 to 1+591

Supply sufficient trucks to haul excess excavated materials to the Municipality Gravel Pit located on Lot 30**,** Concession 11**.** Approximately 862 m^3.

SP8. Remove Private Bridge – Sta. 1+522

Carefully remove existing private bridge structure and block foundation on the working side. Set bridge structure aside for property owner.

J. & S. Grobbink (Roll 0-02-705)

SP6. Excavate Flood Channel – Sta. 1+591 to 1+660

Strip and stockpile topsoil from working area. Salvage sod for reinstatement. Excavate and load fill material from new flood channel. Reinstate channel bank with topsoil and sod as per detail. Apply seed and mulch to all disturbed areas. Supply and Place marker post for existing tile outlets one each.

SP9. Haul and Dispose of Excavated Material – Sta. 1+591 to 1+660

Supply sufficient trucks to haul excess excavated materials to the Municipality Gravel Pit located on Lot 30**,** Concession 11. Approximately 374 m^3.

SP10. Remove Private Bridge – Sta. 1+595

Carefully remove existing private bridge structure and block foundation on the working side. Set bridge structure aside for property owner.

SP11. Remove and Replace Rip-Rap Protection – Sta. 1+600 to 1+620

Remove and salvage existing rip-rap bank protection. Replace existing rip-rap on filter material along new back section.

SP12. Supply and Install Bendway Weirs – Sta. 1+595 to 1+625

Supply and install rock rip-rap material for the Bendway Weir structures along the new self and bank areas. Refer to bendway Weir detail. Approx 125 m^3 Field stone R50 and greater.

Huron County Road 15

SP13. Excavate Flood Channel – Sta. 1+625 to 1+685

Strip and stockpile topsoil from working area. Salvage sod for reinstatement. Excavate and load fill material from new flood channel. Reinstate channel bank with topsoil and sod as per detail. Apply seed and mulch to all disturbed areas.

SP14. Haul and Dispose of Excavated Material – Sta. 1+625 to 1+685

Supply sufficient trucks to haul excess excavated materials to the Municipality Gravel Pit located on Lot 30**,** Concession 11. Approximately 25 m^3

R. Bergsma (Roll 1-02-905)

SP15. Excavate Flood Channel – Sta. 1+685 to 1+707

Strip and stockpile topsoil from working area. Salvage sod for reinstatement. Excavate and load fill material from new flood channel. Reinstate channel bank with topsoil and sod as per detail. Apply seed and mulch to all disturbed areas.

SP16. Haul and Dispose of Excavated Material – Sta. 1+685 to 1+707

Supply sufficient trucks to haul excess excavated materials to the Municipality Gravel Pit located on Lot 30**,** Concession 11. Approximately 108 m^3

C. Kreuger & H. Kreuger-Klijn & Maitland Creek Farms Ltd (Roll 1-02-800)

SP17. Excavate Flood Channel – Sta. 1+707 to 1+783

Strip and stockpile topsoil from working area. Salvage sod for reinstatement. Excavate and load fill material from new flood channel. Reinstate channel bank with topsoil and sod as per detail. Apply seed and mulch to all disturbed areas. Supply and Place marker post for existing tile outlets one each.

SP18. Haul and Dispose of Excavated Material – Sta. 1+707 to 1+783

Supply sufficient trucks to haul excess excavated materials to the Municipality Gravel Pit located on Lot 30**,** Concession 11. Approximately 362 m^3.

C. Kreuger & H. Kreuger-Klijn (Roll 1-02-900)

SP19. Excavate Flood Channel – Sta. 1+783 to 2+341

Strip and stockpile topsoil from working area. Salvage sod for reinstatement. Clear and grub trees. Excavate and load fill material from new flood channel. Reinstate channel bank with topsoil and sod as per detail. Apply seed and mulch to all disturbed areas. Supply and Place marker posts for existing tile outlets eight each.

SP20. Haul and Dispose of Excavated Material – Sta. 1+783 to 2+341

Supply sufficient trucks to haul excess excavated materials to the Municipality Gravel Pit located on Lot 30**,** Concession 11. Approximately 3,637 m^3.

SP21. Low Water Crossing – Sta. 2+047

Extend existing low water crossing on side of widening. Supply and install rip-rap with geotextile material protection along the extended ramp section and along new transitional banks as per detail.

SP22. Extend Existing Branch P Outlet – Sta. 2+003

Remove and dispose of existing Municipal tile outlet for Branch P. Supply and place a 6 m length of 200 mm HDP outlet pipe complete with rodent gate and rip-rap protection.

P. & S Hordijk (Roll 1-03-100)

SP23. Excavate Flood Channel – Sta. 2+341 to 2+564

Strip and stockpile topsoil from working area. Salvage sod for reinstatement. Clear and grub trees. Excavate and load fill material from new flood channel. Reinstate channel bank with topsoil and sod as per detail. Apply seed and mulch to all disturbed areas. Supply and Place marker posts for existing tile outlets two each.

SP24. Haul and Dispose of Excavated Material – Sta. 2+341 to 2+564

Supply sufficient trucks to haul excess excavated materials to the Municipality Gravel Pit located on Lot 30**,** Concession 11. Approximately 1,601 m^3.

SP25. Extend Existing Branch P Outlet – Sta. 2+411

Remove and dispose of existing Municipal tile outlet for Branch N. Supply and place a 6 m length of 300 mm HDP outlet pipe complete with rodent gate and rip-rap protection.

SECTION C – Contingency Items

This section covers work that may be required for this project. These items shall apply only as and when approved by the Engineer.

SP26. Extend/Replace Existing Outlets

For the unit price bid the Contractor shall remove and replace existing private tile drains encountered during construction. Included in this price shall be all labour equipment and material required to remove and dispose of the existing outlet pipe and tile and install new rigid HDPE outlet pipe (or approved equal) at the new bank location complete with rip-rap protection.

The unit price bid for this item shall include all labour equipment and material required to connect existing private tile drains encountered during construction.

Missed tile outlets during construction shall be completed by the Contractor during the warranty period and paid at the Contract price.

Please refer to the Standard Specifications in Appendix E and the accompanying drawings for additional details.

SP27. Additional Excavation

For the additional unit price bid per cubic metre, the Contractor shall excavate and load excess fill materials off site.

The Contractor shall note that this unit price is in addition to the price bid for the applicable items in other sections. This item shall only be used only when the soil conditions encountered are such that extra excavation is required, in the opinion of the Engineer, to stabilize banks or extend works as required.

The Contractor must receive written approval from the Engineer prior to performing the extra excavation works.

SP28. Additional Haul and Dispose of Excavated Material

For the additional unit price bid per cubic metre the Contractor shall haul the excavated fill materials from the construction site to the disposal site located on Lot 30, Concession 11. The unit price bid shall include the levelling of materials at the disposal site as required by the Municipality.

The Contractor shall note that this unit price is in addition to the price bid for the applicable items in other sections.

SP29. Rip-Rap

For the unit price bid per square metre, the Contractor shall supply and install a 450 mm thickness of 150 mm to 300 mm (R50) diameter quarry stone rip-rap with geotextile underlay. These unit prices shall be used for payment for any rip-rap installed in addition to those quantities already specified in other items and for credit for any quantities of rip-rap deleted from other items. Additionally, this will include areas of existing channel bank where erosion or bank slumping has occurred, as directed on-site by the Engineer.

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Appendix G

Agency Correspondence

Fisheries and Oceans Canada | Pêches et Océans Canada

Central & Arctic Region
Fish and Fish Habitat
Protection Program
867 Lakeshore Road
Burlington, ON L7S 1A1

Région du Centre et de l'Arctique
Programme de la protection
du poisson et de son habitat
867 Lakeshore Road
Burlington, ON L7S 1A1

February 7, 2020

Our file *Notre référence*
19-HCAA-00939

Municipality of Central Huron
ATTENTION: Geoff King
23 Albert St
P.O. Box 400
Clinton, ON N0M 1L0

Subject: Channel Widening, Pollard Municipal Drain, Class E, Londesborough, ON – Implementation of Measures to Avoid and Mitigate the Potential for Prohibited Effects to Fish and Fish Habitat

Dear Mr. King:

The Fish and Fish Habitat Protection Program (the Program) of Fisheries and Oceans Canada (DFO) received your proposal on July 24, 2019. We understand that you propose the following:

- excavate banks over approximately 1760 metres to create a 6m wide shelf (which will result in a two-stage channel);
- install bendway weir structures (approximately 140m^2);
- install riprap erosion control on banks at two locations (low flow crossings #1 and #3 and on banks of stilling basin, 290m^2);
- construct a stilling basin (with rounded riverstone substrate, 225m^2) and temporary rock check dam at the downstream end of the basin;

Our review considered the following information:

- Request for review submitted on July 24, 2019;
- Site visit conducted by Georgina Braoudakis (DFO) and Philip Curtis (DFO) on Oct. 29, 2019, with Paul MacIntyre (R.J. Burnside & Associates Ltd) and Chris Pfohl (R.J. Burnside & Associates Ltd).
- email and telephone correspondence between Georgina Braoudakis (DFO) and Paul MacIntyre (R.J. Burnside & Associates Ltd).

Your proposal has been reviewed to determine whether it is likely to result in:

- the death of fish by means other than fishing and the harmful alteration, disruption or destruction of fish habitat which are prohibited under subsections 34.4(1) and 35(1) of the Fisheries Act;
- effects to listed aquatic species at risk, any part of their critical habitat or the residences of their individuals in a manner which is prohibited under sections 32, 33 and subsection 58(1) of the Species at Risk Act.

.../2

The aforementioned impacts are prohibited unless authorized under their respective legislation and regulations.

To avoid and mitigate the potential for prohibited effects to fish and fish habitat (as listed above), we recommend implementing the measures outlined in your plan, in addition to the following listed below:

- conduct bank excavation in dry conditions between June and September 30;
- conduct in-water activities (stilling basin, low-water crossings, and bendway weirs) in low-flow conditions;
- perform fish salvage and relocation prior to undertaking in-water works;
- develop and implement an Erosion and Sediment Control Plan to minimize sedimentation of the waterbody during all phases of the work, undertaking or activity.

Provided that you incorporate these measures into your plans, the Program is of the view that your proposal will not require an authorization under the *Fisheries Act* or the *Species at Risk Act*.

Should your plans change or if you have omitted some information in your proposal, further review by the Program may be required. Consult our website (http://www.dfo-mpo.gc.ca/pnw-ppe/index-eng.html) or consult with a qualified environmental consultant to determine if further review may be necessary. It remains your responsibility to remain in compliance with the *Fisheries Act*, and to avoid prohibited effects on listed aquatic species at risk, any part of their critical habitat or the residences of their individuals.

It is also your *Duty to Notify* DFO if you have caused, or are about to cause, the death of fish by means other than fishing and/or the harmful alteration, disruption or destruction of fish habitat. Such notifications should be directed to (http://www.dfo-mpo.gc.ca/pnw-ppe/CONTACT-eng.html).

Please notify this office at least 10 days before starting your project. A copy of this letter should be kept on site while the work is in progress. It remains your responsibility to meet all other federal, territorial, provincial and municipal requirements that apply to your proposal.

If you have any questions with the content of this letter, please contact Georgina Braoudakis at 905-315-5226, or by email at georgina.braoudakis@dfo-mpo.gc.ca. Please refer to the file number referenced above when corresponding with the Program.

Yours sincerely,

Andrea Doherty

Andrea Doherty
Senior Biologist
Fish and Fish Habitat Protection Program

CC: Paul MacIntyre (R.J. Burnside & Associates Ltd.)
Georgina Braoudakis (DFO)

Jacob Rooke

From:	Mark Saunders
Sent:	Monday, June 09, 2025 10:07 AM
To:	OP Habitat (DFO/MPO); georgina.braoudakis@dfo-mpo.gc.ca
Cc:	Jacob Rooke
Subject:	Project Update – File No. 19-HCAA-00939 (Pollard Municipal Drain)
Attachments:	App G - 19-HCAA-00939 Pollard Drain LOA.pdf

Hello,
We are writing to inform Fisheries and Oceans Canada that the project associated with File No. 19-HCAA-00939 (the widening of the Pollard Municipal Drain (Class E) in Londesborough, Ontario) is now scheduled to proceed in summer 2026. The project originally received notification that works could proceed on February 7, 2020; however, it was subsequently paused for an undetermined period of time.
The project is now expected to move forward, with in-water works scheduled for 2026. There have been no changes to the original design.
We are requesting confirmation that the original file number and associated review remain valid for this revised construction schedule, given that the scope and design of the project remain unchanged.
If you have any questions or require additional information, please don't hesitate to reach out.
-Mark Saunders

BURNSIDE
Mark Saunders, MES
Aquatic Ecologist

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www.rjburnside.com

100% Canadian Employee-Owned, Led and Operated

Bonnie Ault

From: Paul MacIntyre
Sent: Friday, May 29, 2020 8:32 AM
To: Bonnie Ault
Subject: FW: FW: MVCA Permitt Application for the Pollard Flood Control Project

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From: Ben Van Dieten <bvandieten@mvca.on.ca>
Sent: Thursday, May 28, 2020 9:23 AM
To: Paul MacIntyre <Paul.MacIntyre@rjburnside.com>
Subject: Re: FW: MVCA Permitt Application for the Pollard Flood Control Project

Hi Paul,

Patrick passed the Pollard application on to me. The current version will work fine with us with you signing off and acting as agent. We can assume landowner authorization as it is going through the proper municipal channels.

We should be all good to permit once we receive the final report.

Regards,

Ben Van Dieten
MVCA
519-335-3557 ext. 245

From: Paul MacIntyre [mailto:Paul.MacIntyre@rjburnside.com]
Sent: Tuesday, May 26, 2020 11:21 AM
To: Patrick Huber-Kidby
Cc: Geoff King
Subject: FW: MVCA Permitt Application for the Pollard Flood Control Project

Good morning Patrick,

I am following up on the MVCA Permit application for the Pollard MD.
Did you receive a signed application from the Municipality?

Paul MacIntyre, L.E.L,C.E.T
Senior Project Manager
R.J. Burnside & Associates Limited | www.rjburnside.com
Office: +1 800-265-9662 Direct: +1 519-340-2009

From: Paul MacIntyre
Sent: Wednesday, March 25, 2020 4:21 PM
To: Brenda Mac Isaac (clerk@centralhuron.com) <clerk@centralhuron.com>
Cc: Bonnie Ault <Bonnie.Ault@rjburnside.com>
Subject: MVCA Permitt Application for the Pollard Flood Control Project

Brenda,

Hoping all is well with you and you are coping with the situation that we find ourselves in.
I have attached MVCA permit application for the Pollard works.

Can you please sign it as the owner? And forward to Patrick at MVCA. I hope to have a draft report available early next week for discussion with you and senior staff

Thanks

BURNSIDE

[THE DIFFERENCE IS OUR PEOPLE]

Appendix H

Drawings

ALL PROPERTY LINES SHOWN ARE APPROXIMATE & ARE FOR INFORMATION PURPOSES ONLY.
AERIAL PHOTOGRAPHY PROVIDED BY: COUNTY OF HURON, DATED: 2015. DATED: 2015. PARCELS PROVIDED BY: COUNTY OF HURON, DATED: 2025

LEGEND

- WATERSHED BOUNDARY
- SUB WATERSHED BOUNDARY
- DRAIN LOCATION & DIRECTION — OPEN DRAIN / CLOSED DRAIN
- BENCHMARK NUMBER — BM # ? — BENCHMARK LOCATION
- AR # ?
- ACCESS ROUTE
- DIRECTION OF SURFACE FLOW
- LANDOWNER ROLL NUMBER — J & B Radford (1-23-456)
- SHARED ROLL NUMBER
- AFFECTED AREA — 0.00 ha / 0.00 ha — TOTAL AREA

BENCHMARKS:

BENCHMARK #1 — **ELEVATION=295.27m**
PAINT MARK ON TOP OF SOUTHEAST CORNER OF CONCRETE BOX CULVERT WHERE THE POLLARD MUNICIPAL DRAIN CROSSES HIGHWAY No. 4 (LONDON ROAD), APPROXIMATELY 3m SOUTH OF STATION 1+345.

BENCHMARK #2 — **ELEVATION=292.49m**
NAIL IN GRAVEL BETWEEN CONCRETE TILES OF THE LOW-WATER CROSSING ON THE SOUTHWEST BANK OF THE POLLARD MUNICIPAL DRAIN, EAST OF THE DEAD END OF TRUEMAN STREET, APPROXIMATELY 10m SOUTHWEST OF STATION 0+820.

BENCHMARK #3 — **ELEVATION=293.30m**
NAIL IN FIRST HYDRO POLE EAST OF BRIDGE (STRUCTURE No. 15-11.2) OVER THE POLLARD MUNICIPAL DRAIN, SOUTH OF LODESBOROUGH ROAD (COUNTY ROAD 15), APPROXIMATELY 20m EAST OF STATION 0+445.

Notes

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FOR CONSIDERATION

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4	ISSUED FOR CONSIDERATION	2020/11/13	WPM
5	REISSUED FOR CONSIDERATION	2025/08/05	JR

Professional Engineers Ontario
Limited Licensee
Name: W. F. MACINTYRE
Number: 100179975 Aug. 5. 2025
Category: Civil See Limitation
Limitations:
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Association of Professional Engineers of Ontario

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Client
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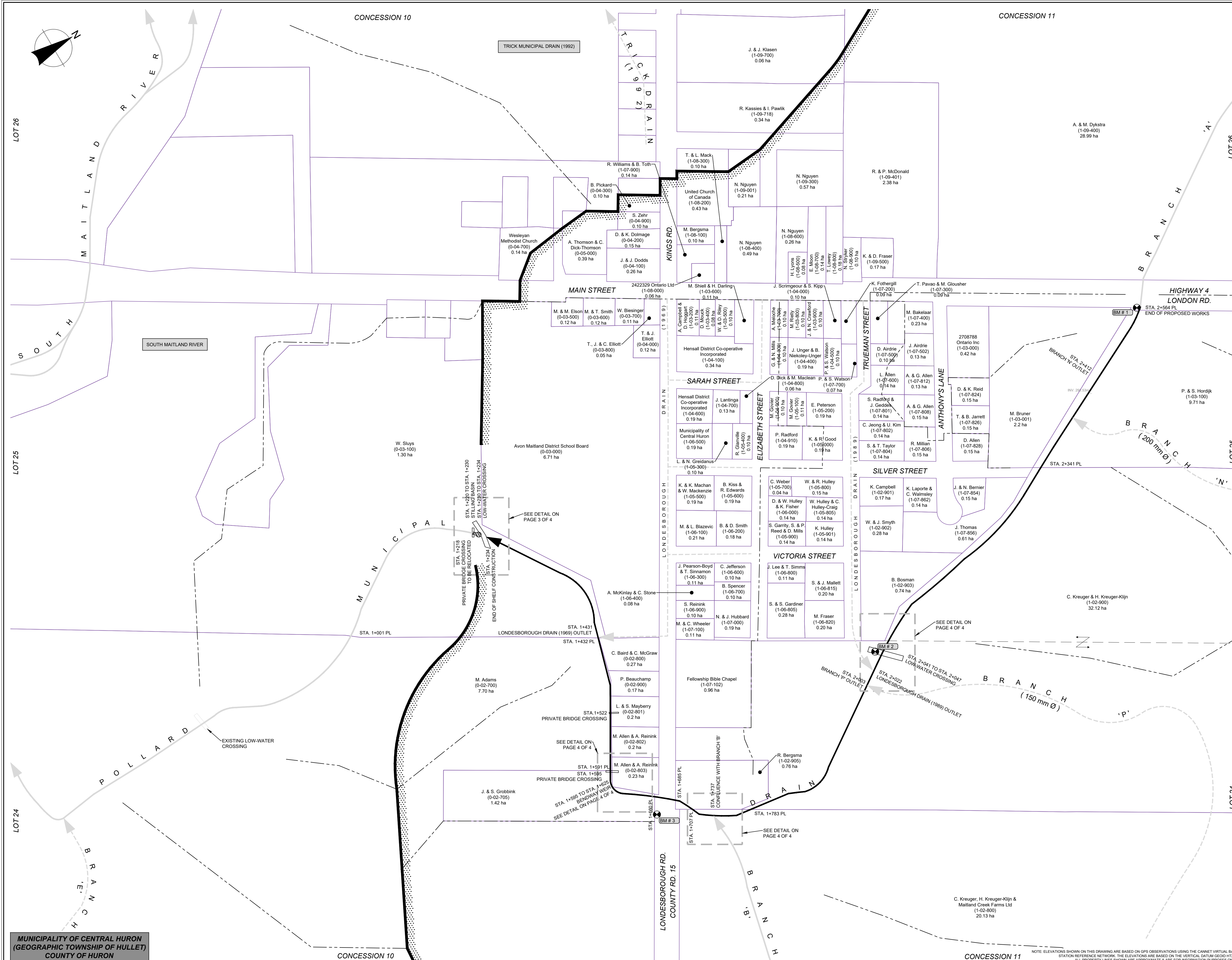
23 ALBERT ST.
CLINTON, ONTARIO
N0M 1L0
Central Huron

Drawing Title
POLLARD MUNICIPAL DRAIN IMPROVEMENT
WATERSHED PLAN

Drawn	Checked	Designed	Checked	Date	Drawing No.
LK	JR	JR	WPM	2020/05/01	1 OF 4
Project No. 300043248.0000		Contract No.		Revision No. 5	
Scale 1:10,000		0 200 400 600m			

File: \\sherlock\Shared Work Areas\043248 Pollard Municipal Drain\03_ProductionDwg\WATERSHED PLAN (Updated 13 May 2025).dwg Date Plotted: August 1, 2025 - 9:59 AM



LEGEND

- WATERSHED BOUNDARY
- SUB WATERSHED BOUNDARY
- DRAIN LOCATION & DIRECTION — OPEN DRAIN / CLOSED DRAIN
- BENCHMARK NUMBER — BENCHMARK LOCATION (BM # ?, AR # ?)
- ACCESS ROUTE
- DIRECTION OF SURFACE FLOW
- LANDOWNER NAME, ROLL NUMBER, AFFECTED AREA — J. & B. Radford (1-23-456) 1.23ha
- SHARED ROLL NUMBER
- EXISTING DRAIN LOCATION & DIRECTION — OPEN DRAIN / CLOSED DRAIN

BENCHMARKS:

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Notes

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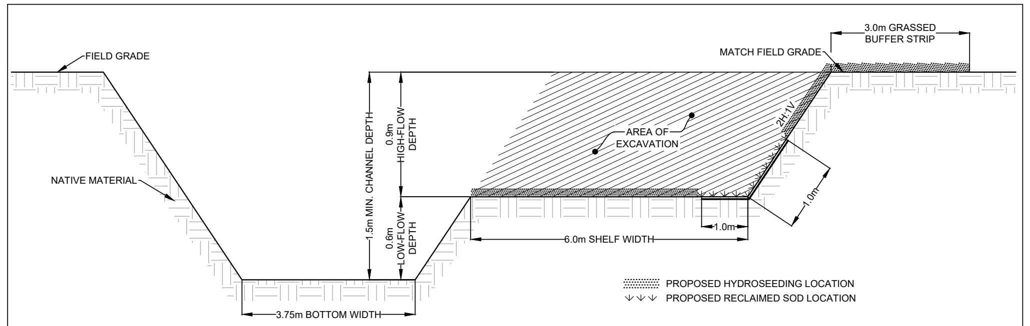
CLINTON, ONTARIO
N0M 1L0

Drawing Title
POLLARD MUNICIPAL DRAIN IMPROVEMENT
PLAN

Drawn	Checked	Designed	Checked	Date	Drawing No.
LK	JR	JR	WPM	2025/08/05	2 OF 4
Project No. 300043248.0000		Contract No.		Revision No. 5	
Scale 1:2,000		0 40 80 120m			

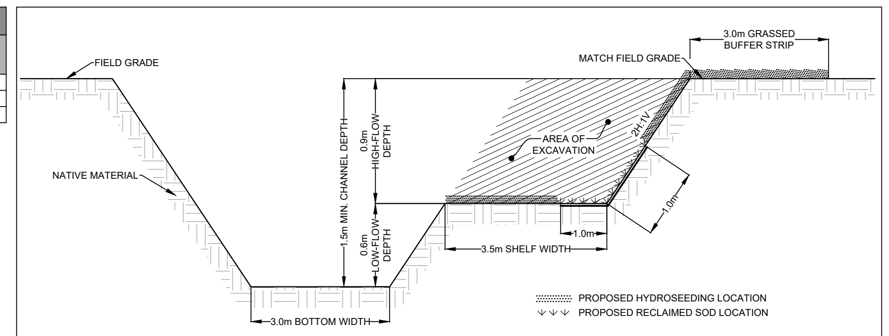


TYPICAL 2-STAGE CHANNEL SECTION DOWNSTREAM OF BRANCH 'B'
SCALE H1:75, V1:25

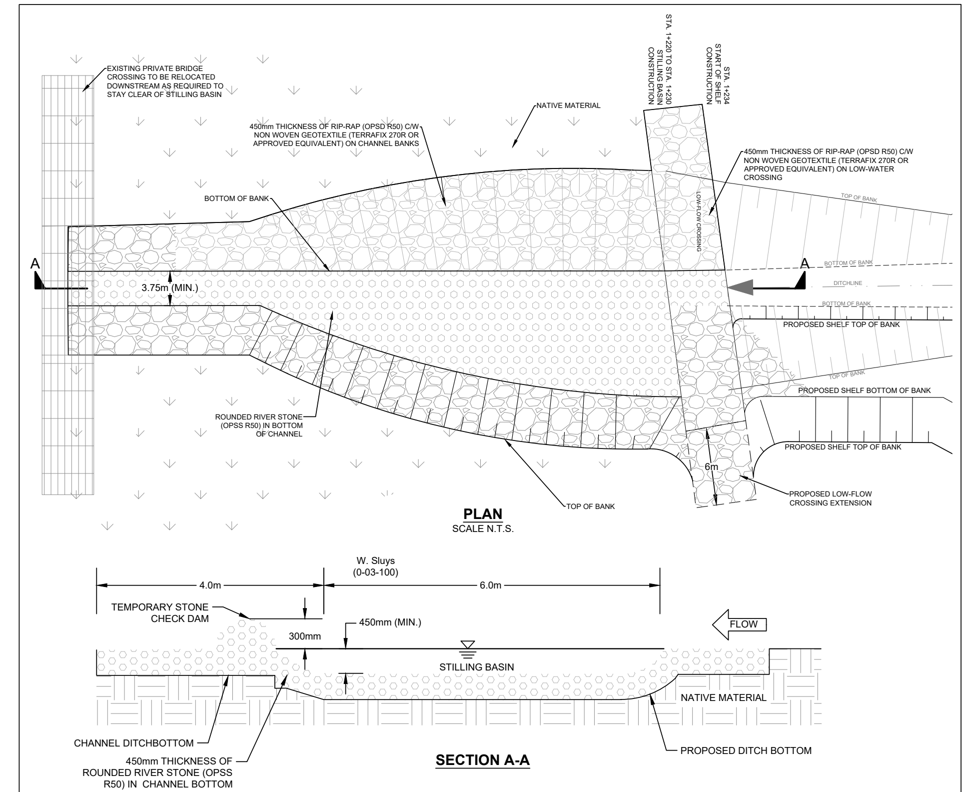
CHANNEL TABLE						
STATION		LENGTH (m)	TYPE	BOTTOM WIDTH (m)	SIDE SLOPE	NOTES
FROM	TO					
1+234	1+660	426	6.0m SHELF WIDTH	3.75	2H:1V	C/W BENDWAY WEIR
1+685	1+737	52	6.0m SHELF WIDTH	3.75	2H:1V	
1+737	2+564	827	3.5m SHELF WIDTH	3.00	2H:1V	

CHANNEL NOTES:

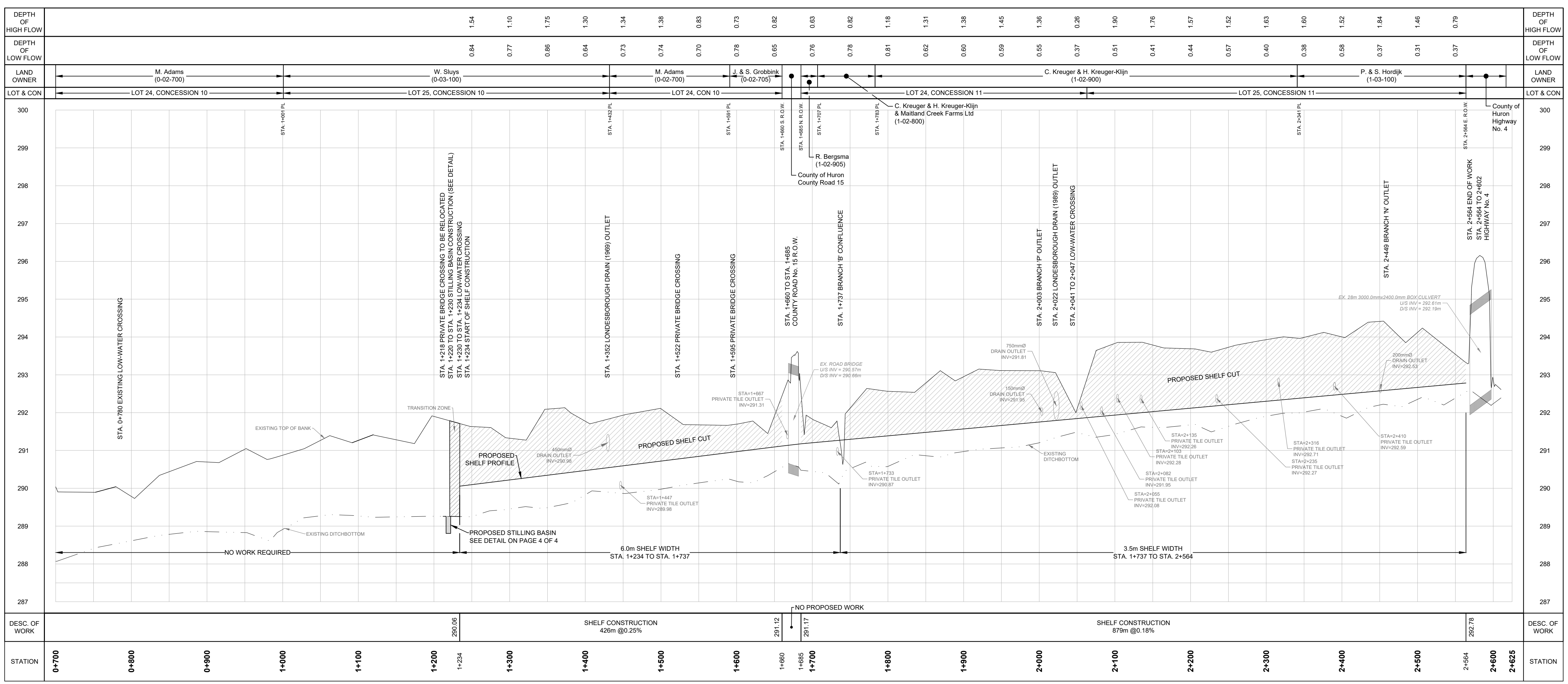
1. ALL CHANNEL WORKS SHALL BE IN ACCORDANCE WITH THE PROVIDED TABLE, PROFILE, CROSS SECTIONS, AND SPECIFICATIONS.
2. ALL CHANNEL WORKS SHALL CONFORM TO THE GENERAL SPECIFICATIONS.
3. ALL CHANNEL WORKS AND EXCAVATIONS SHALL CONFORM TO THE GOVERNING OPSS AND OPSD.
4. ACCESS TO THE CHANNEL AND WORKING SPACE SHALL BE EXECUTED IN ACCORDANCE WITH THE SPECIAL PROVISIONS.
5. ALL FUNCTIONING OUTLET PIPES AFFECTED BY THE EXCAVATION SHALL HAVE RIP-RAP EROSION PROTECTION (MINIMUM $2m^2$) PLACED BELOW THE OUTLET.
6. ALL WORKING OUTLET PIPES DAMAGED DURING THE EXCAVATION SHALL BE REPLACED SECURELY WITH CORRUGATED STEEL PIPE (CSP) OR HIGH DENSITY POLYETHYLENE (HDPE) TO THE SATISFACTION OF THE ENGINEER.
7. ALL WORKING OUTLET PIPES SHALL HAVE A RODENT GRATE.



TYPICAL 2- STAGE CHANNEL SECTION UPSTREAM OF BRANCH 'B'
SCALE H1:75, V1:25



STILLING BASIN & LOW WATER CROSSING DETAIL STA. 1+234 TO STA. 1+220
SCALE NTS



PROFILE
SCALE H1:3000, V1:60

NOTE: ELEVATIONS SHOWN ON THIS DRAWING ARE BASED ON GPS OBSERVATIONS USING THE CANNET VIRTUAL BASE STATION REFERENCE NETWORK. THE ELEVATIONS ARE BASED ON THE VERTICAL DATUM GEOID HT2_0. ALL PROPERTY LINES SHOWN ARE APPROXIMATE & ARE FOR INFORMATION PURPOSES ONLY.

KEY PLAN
SCALE: N.T.S.

BENCHMARKS:

BENCHMARK #1 **ELEVATION=295.27m**
PAINT MARK ON TOP OF SOUTHEAST CORNER OF CONCRETE BOX CULVERT WHERE THE POLLARD MUNICIPAL DRAIN CROSSES HIGHWAY No. 4 (LONDON ROAD), APPROXIMATELY 3m SOUTH OF STATION 1+345.

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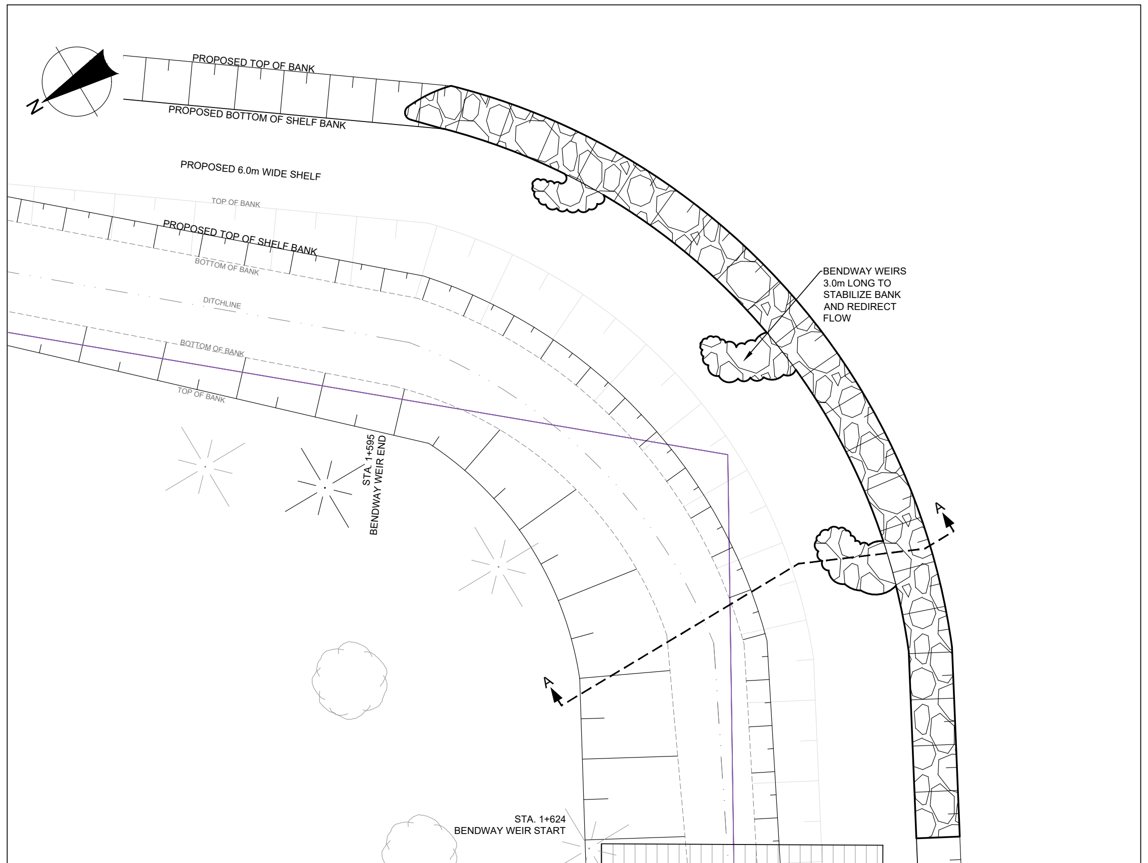
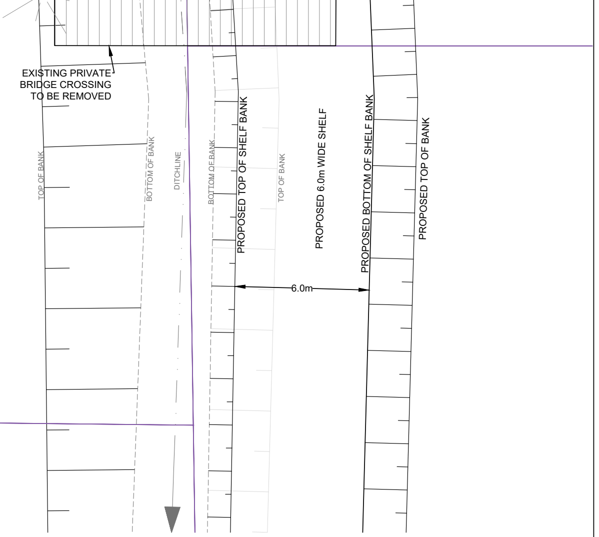
CLINTON, ONTARIO
N0M 1L0

Drawing Title
POLLARD MUNICIPAL DRAIN IMPROVEMENT
PROFILE

Drawn	Checked	Designed	Checked	Date	Drawing No.
LK	JR	JR	WPM	2020/05/01	3 OF 4
Project No. 300043248.0000		Contract No.		Revision No. 5	
Scale AS NOTED					

File: \\sherlock\Shared Work Areas\043248 Pollard Municipal Drain\03_ProductionDwg\043248 PROFILE.dwg Date Plotted: August 1, 2025 - 9:59 AM





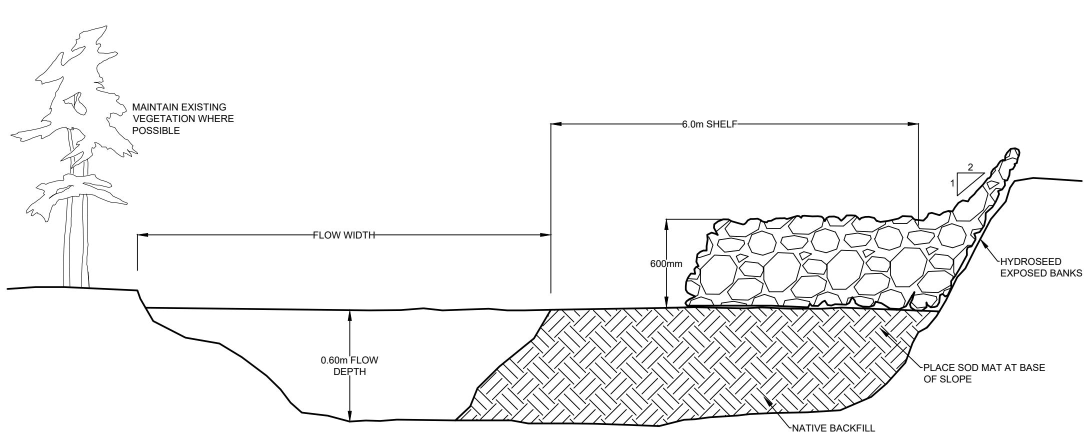
NOTES:

1. INSTALL SEDIMENTATION MEASURED IN DOWNSTREAM CHANNEL.
2. RELOCATE ISOLATED FISH FROM MAIN CHANNEL WORK ZONE. COORDINATE WORKS WITH BURNSIDE SO THAT ISOLATED FISH MAY BE REMOVED PRIOR TO EXCAVATING IN THE CHANNEL.
3. INSTALL LONGITUDINAL STONE TOE AND BENDWAY WEIR STRUCTURES.
4. SEED ALL DISTURBED BANK AND ACCESS AREAS WITH NATIVE GRASSES.
5. REMOVE DOWNSTREAM SEDIMENT SCREEN AFTER CONSTRUCTION HAS BEEN COMPLETED.

ESTIMATED QUANTITIES:

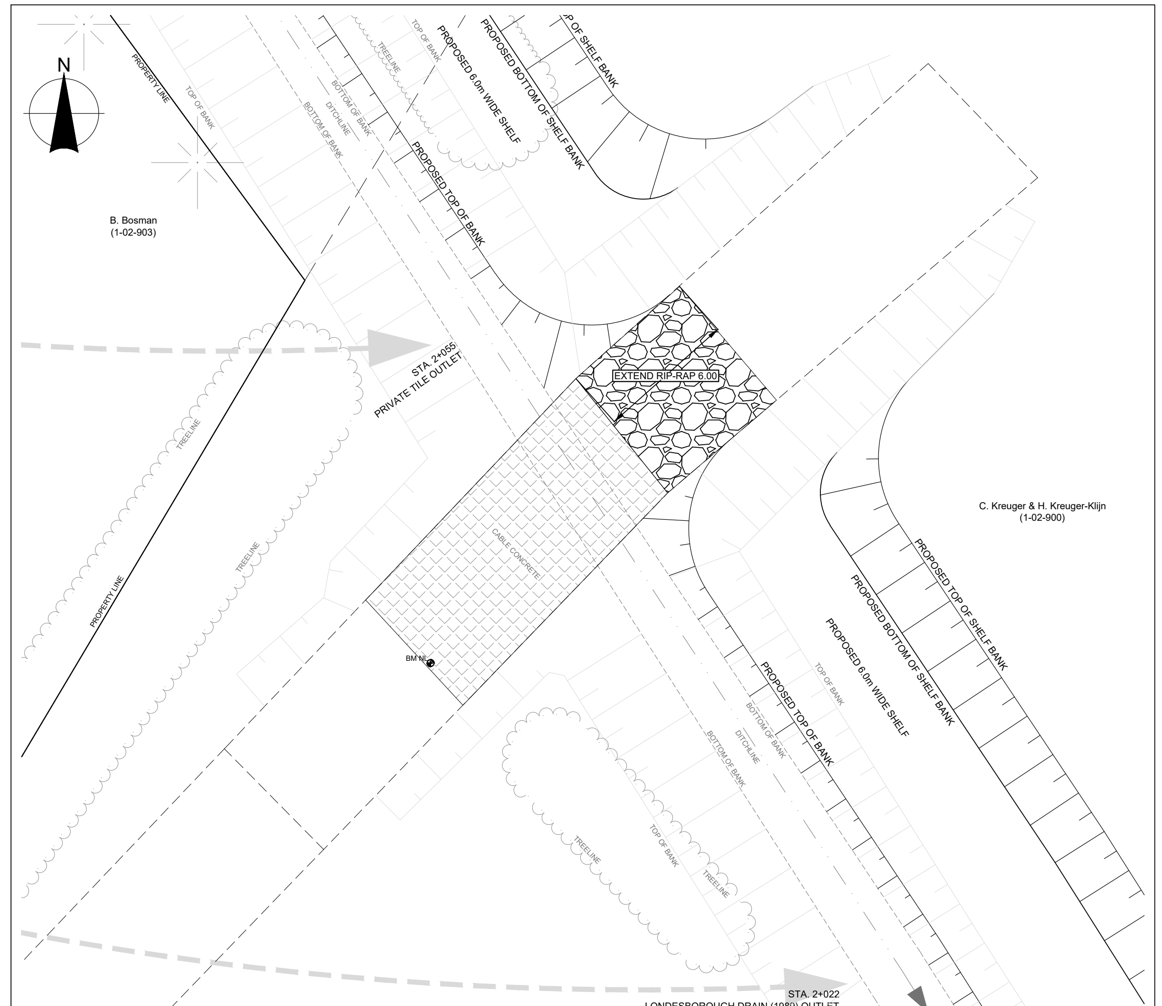
1. EXCAVATION
   FLOW DIVERSION AND POINT BAR REDUCTION 200m²
2. ROUND FIELD STONE RIP RAP
   LTSTP, BENDWAY WEIR AND TIE BACKS $125m^3$
3. BIOENGINEERING
   LOCAL SAND BAR WILLOW CUTTINGS 24 BUNDLES
   LOCAL DOGWOOD CUTTINGS 24 BUNDLES
4. SEDIMENTATION CONTROL
   SILTATION FENCING 15m

BENDWAY WEIR PLAN VIEW
SCALE 1:150

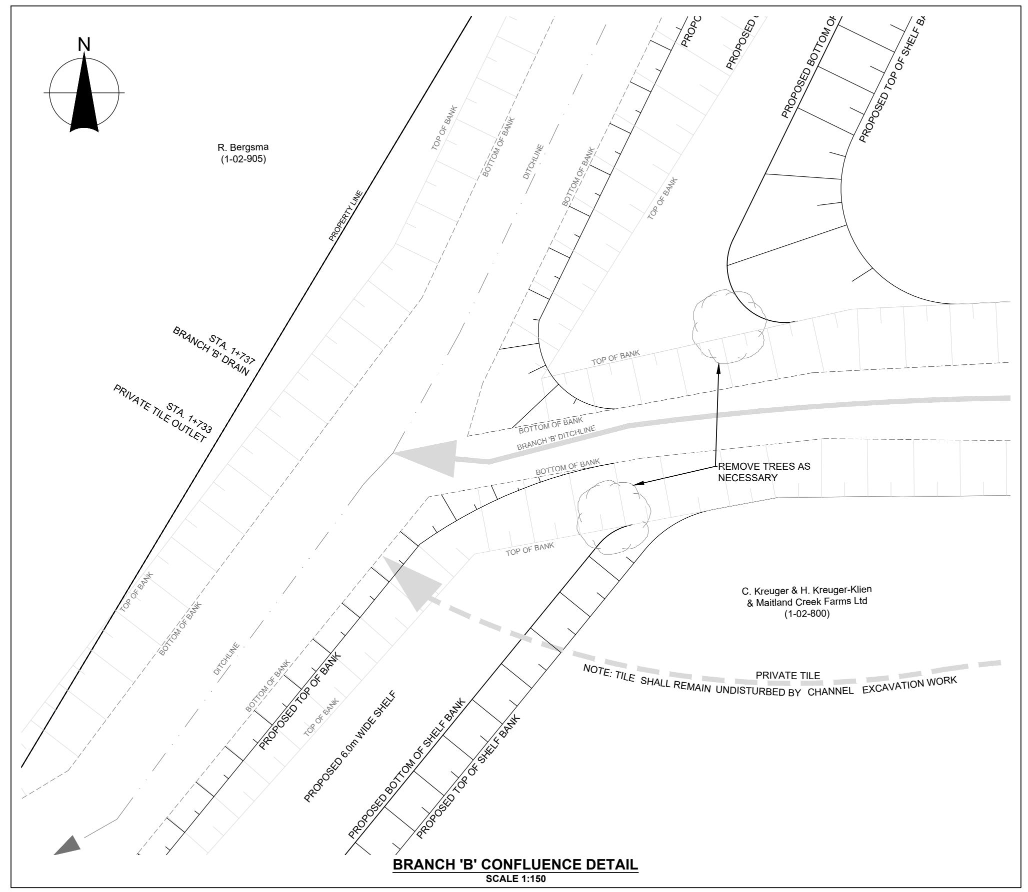


SECTION 'A-A'
N.T.S.

BENDWAY WEIR DETAIL



LOW-WATER CROSSING DETAIL
SCALE 1:150



BRANCH 'B' CONFLUENCE DETAIL
SCALE 1:150

ALL PROPERTY LINES SHOWN ARE APPROXIMATE & ARE FOR INFORMATION PURPOSES ONLY.

KEY PLAN
SCALE: N.T.S.

LEGEND

- EXISTING DITCHLINE
- EXISTING TREELINE
- EXISTING DRAIN (OPEN / CLOSED)
- EXISTING CONIFEROUS TREE
- EXISTING DECIDUOUS TREE
- EXISTING CABLE CONCRETE
- EXISTING EMBANKMENT
- PROPOSED EMBANKMENT
- PROPOSED RIP-RAP

BENCHMARKS:

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Drawing Title
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DETAILS

Drawn	Checked	Designed	Checked	Date	Drawing No.
LK	JR	JR	WPM	2020/05/01	**4 OF 4**
Project No. 300043248.0000		Contract No.		Revision No. 5	
Scale AS NOTED					

File: \\sherlock\Shared Work Areas\043248 Pollard Municipal Drain\03_ProductionDwg\DETAILS.dwg Date Plotted: August 1, 2025 - 10:07 AM

R.J. Burnside & Associates Limited