SOUTH GLENGARRY

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Asset Management Plan

Prepared by: Infrastructure Services

Date: June 2024

Version 2.0

Executive Summary

The Township of South Glengarry is a rural community in Eastern Ontario, with a population of approximately 13,000 residents and 5,300 residential homes, encompassing an area of 605 square kilometres. South Glengarry is among the larger municipalities in the United Counties of Stormont, Dundas & Glengarry.

Increasing costs, decreasing funding, aging infrastructure, and increasing public expectations are some of the challenges facing municipalities – especially rural municipalities where local governments are expected to do more, with less. To assist with long-range financial and asset planning, the Province of Ontario implemented the Asset Management for Municipal Infrastructure Regulation, O. Reg. 588/17, to help improve how municipalities plan for their infrastructure. The phased schedule of O. Reg. 588/17 requires that all municipal infrastructure assets be incorporated into an Asset Management Plan detailing the current level of service.

The regulation was amended by O. Reg. 193/21 to extend the regulatory timelines for phases two, three, and four, acknowledging the impact of the COVID-19 pandemic. The revised phased schedule of O. Reg. 588/17 is:

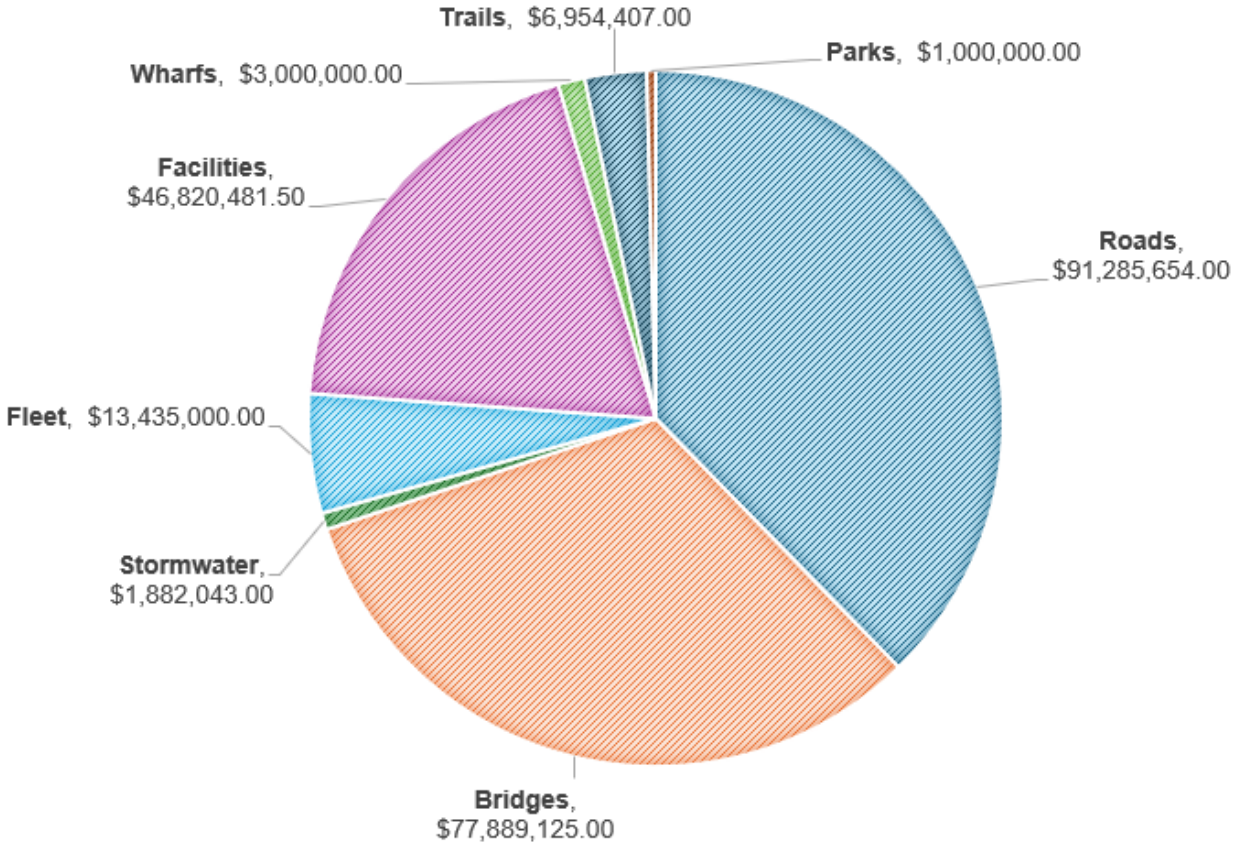
- July 1, 2019 – finalized a strategic asset management policy
- July 1, 2022 – Approved asset management plan for core assets
- **July 1, 2024 – Approved asset management plan for all municipal infrastructure assets**
- July 1, 2025 – Approved expansion of the asset management plan

This version of South Glengarry's Asset Management Plan (AMP) includes the current level of service for core and non-core assets, which include:

Type	Category	Current AMP – Data Sources
Core	Roads	2020 Road Needs study with adaptation from Roads Working Group
	Bridges	2023 OSIM Report
	Water	2022 Master Servicing Plan (GW) Revision for GW Water Tower Known ages
	Sanitary	2019 CCTV Known ages
	Stormwater	Known ages
Non-Core	Fleet	Known ages
	Facilities	2024 Building Condition Assessments
	Wharfs	2022 Wharf Assessments
	Trails	Known ages
	Parks	Known ages

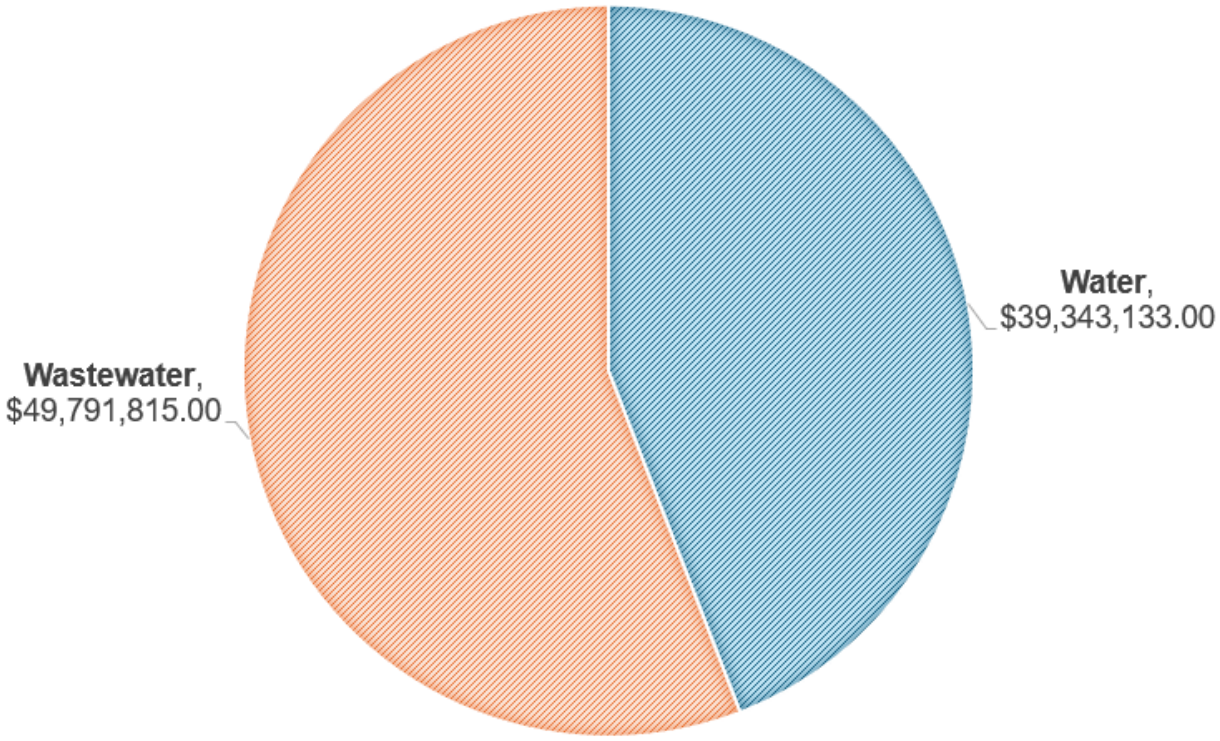
The Township's major source of revenue is property tax, which support operating costs related to the delivery of services as well as the required capital costs of maintaining infrastructure assets. **Tax funded assets** include: roads, bridges, stormwater, fleet, facilities, wharfs, trails, and parks. These assets are also supported by funding from all levels of government.

The **current replacement value for tax funded assets is $242,266,710**, as inventoried to the date of publishing of this Asset Management Plan. It is anticipated that the current replacement values for Roads and Trails will increase following the completion of the ongoing 2024 Road Needs Study and 2024 Trail Inventory. The known breakdown of tax funded assets is provided in the following chart.



Rate supported services include utility charges (water and wastewater) which are supported by residents' water bills. Utility services include capital, operating and maintenance costs for the Township's water and wastewater systems.

The **current replacement value for rate funded assets is $88,984,984**, as inventoried to the date of publishing of this Asset Management Plan. The known breakdown of rate funded assets is provided in the following chart.


Water, $39,343,133.00
Wastewater, $49,791,815.00

Liability Disclaimer

This Asset Management Plan (AMP) has been prepared and publicly disclosed in accordance with the requirements established by the Province of Ontario in its Building Together Guide for Municipal Asset Management Plans.

Some of the information and statements contained in this AMP are comprised of, or are based on, assumptions, estimates, forecasts, predictions, and projections made by the Corporation of the Township of South Glengarry (Township). In addition, some of the information and statements are based on actions that the Township currently intends to take in the future. Circumstances will change, assumptions and estimates may prove to be wrong, events may not occur as forecasted, predicted, or projected, and the Township may later decide to take different actions to those it currently intends to take.

Except for any statutory liability which cannot be excluded, the Township will not be liable, whether in contract, tort (including negligence), equity or otherwise, to compensate or indemnify any person for any loss, injury or damage arising directly or indirectly from any person, using, or relying on any content of, this AMP.

When considering the content of this AMP, persons should take appropriate expert advice in relation to their own circumstances and must rely solely on their own judgment and expert advice obtained.

List of Revisions

Revision	Date	Issued For
1.0	July 1, 2022	Approved by Council
1.1	October 17, 2022	Update to Appendix E – Capital Bridges
2.0	June 27, 2024	Approved by Council Inclusion of Non-Core Assets Update to Bridges
2.1		

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1. Introduction

1.1. Overview

The Township of South Glengarry is a rural community in Eastern Ontario, with a population of approximately 13,000 residents and 5,300 residential homes, encompassing an area of 605 square kilometres. South Glengarry is among the larger municipalities in the United Counties of Stormont, Dundas & Glengarry.

Increasing costs, decreasing funding, aging infrastructure, and increasing public expectations are some of the challenges facing municipalities – especially rural municipalities where local governments are expected to do more, with less. To assist with long-range financial and asset planning, the Province of Ontario implemented the Asset Management for Municipal Infrastructure Regulation, O. Reg. 588/17, to help improve how municipalities plan for their infrastructure. The phased schedule of O. Reg. 588/17 requires that all municipal infrastructure assets be incorporated into an Asset Management Plan detailing the current level of service.

This version of South Glengarry's Asset Management Plan (AMP) includes the current level of service for core and non-core assets, which include:

Core Assets
- Roads
- Bridges
- Water
- Wastewater
- Stormwater

Non-Core Assets
- Fleet
- Facilities
- Wharfs
- Trails
- Parks

The Township's major source of revenue is property tax, which support operating costs related to the delivery of services as well as the required capital costs of maintaining infrastructure assets. Tax funded assets include: roads, bridges, stormwater, fleet, facilities, wharfs, trails, and parks. These assets are also supported by funding from all levels of government.

Rate supported services include utility charges (water and wastewater) which are supported by residents' water bills. Utility services include capital, operating and maintenance costs for the Township's water and wastewater systems.

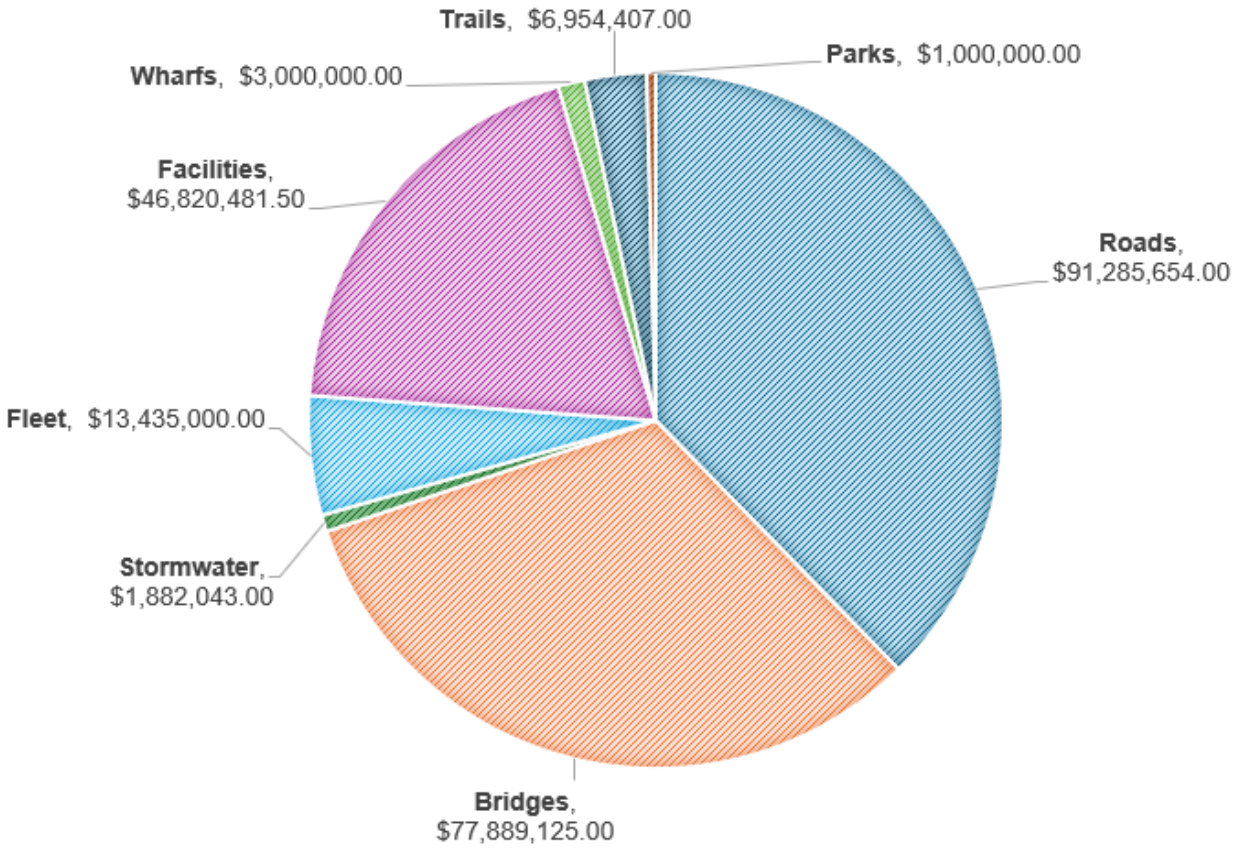
A high-level summary of South Glengarry's assets classes and their replacement values are shown in **Table 1**, **Figure 1**, and **Figure 2**. The replacement values have been separated by tax funded and rate funded to provide an understanding of how the operations, maintenance, and capital work on the assets are funded. It is anticipated that the current replacement values for Roads and Trails will increase following the completion of the ongoing 2024 Road Needs Study and 2024 Trail Inventory

Table 1. Asset Classes and Replacement Costs

Asset Class	Replacement Cost (Tax)	Replacement Cost (Rate)
Roads	$91,285,654	$0
Bridges and Structural Culverts	$77,889,125	$0
Water	$0	$32,377,852
Wastewater	$0	$43,087,975
Stormwater	$1,882,043	$0
Fleet	$13,435,000	$420,000
Facilities	$46,820,481	$13,249,121
Wharfs	$3,000,000	$0
Trails	$6,954,407	$0
Parks	$1,000,000	$0
Total	**$242,266,710**	**$88,984,948**

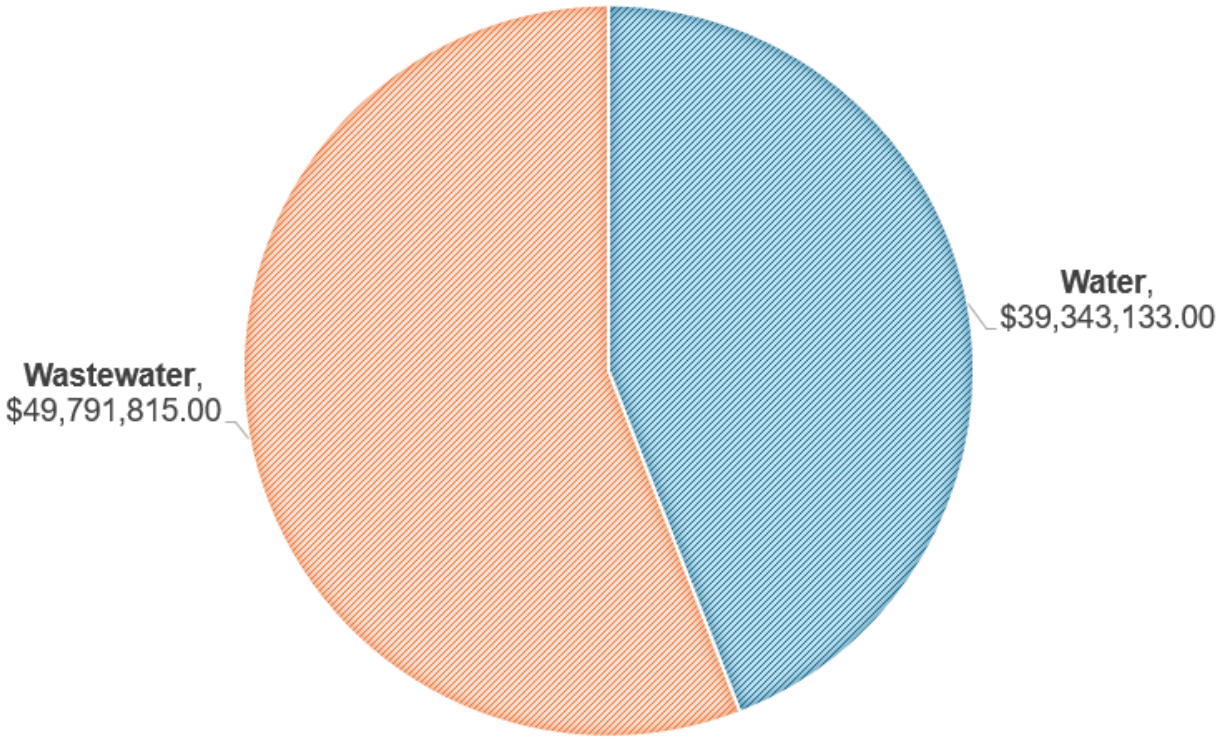
The **current replacement value for tax funded assets is $242,266,710**, as inventoried to the date of publishing of this Asset Management Plan and shown in the following figure.

Figure 1. Current Replacement Values (Tax Funded)



The **current replacement value for rate funded assets is $88,984,984**, as inventoried to the date of publishing of this Asset Management Plan and shown in the following figure.

Figure 2. Current Replacement Values (Rate Funded)



1.2. Regulatory Compliance

Asset management planning in Ontario has evolved significantly over the past decade. With the introduction of Ontario Regulation (O. Reg.) 588/17, Asset Management Planning for Municipal Infrastructure, municipalities have been advancing their asset management portfolio to be in compliance with the phased approach of the regulation. The phased approach is summarized in **Table 2**

Table 2. O. Reg. 588/17 – Phases and Deadlines

Phase	Deadline	Activity	Township Status
1	July 1, 2019	Prepare and Publish a Strategic Asset Management Policy	Completed June 2019
2	July 1, 2022	Develop an Asset Management Plan for Core municipal Infrastructure Assets.	Completed June 2022
3	July 1, 2024	Develop an Asset Management Plan for all other municipal infrastructure	Completed June 2024
4	July 1, 2025	Develop an Expanded Asset Management Plan for all infrastructure Assets	In-Progress

1.3. Asset Management Plan Development

This Asset Management Plan provides South Glengarry with a documented approach to asset management that clearly demonstrates evidence-based choices and roadmaps for financial planning. This strategy is set in place to provide the expected service levels through the sustainable use of its assets.

This version of South Glengarry's Asset Management Plan (AMP) includes the current level of service for core and non-core assets, which include:

Table 3. Data Sources for Asset Inventory / Conditions

Type	Category	Current AMP – Data Sources
Core	Roads	2020 Road Needs study with adaptation from Roads Working Group
	Bridges	2023 OSIM Report
	Water	2022 Master Servicing Plan (GW) Revision for GW Water Tower Known ages
	Sanitary	2019 CCTV Known ages
	Stormwater	Known ages
Non-Core	Fleet	Known ages
	Facilities	2024 Building Condition Assessments
	Wharfs	2022 Wharf Assessments
	Trails	Known ages
	Parks	Known ages

The following is a summary of how the regulation details the major components of the required core infrastructure asset management plan:

Current Level of Service and Performance: The level of service is broadly defined as the scope and reliability of service with qualitative descriptions and technical metrics. The data that the level of service is based must be from, at most, the two previous calendar years. The current performance of each asset category is based on measures established that are established by the Township.

The above requirements are provided **Section 2** of this report for all tax funded assets and **Section 3** for rate funded assets.

1.4. Current Levels of Service

This section of the AMP provides a summary of the Township's assets and the current service levels provided by those assets. O. Reg. 588/17 requires that for each asset category the following information must be identified:

- Summary of Asset
- Replacement Cost
- Average Age
- Asset Condition (if available)

- Municipality's Approach to Condition Assessments
- Current Level of Service

The level of service (LOS) is a measurement of the quality of service that the Township is providing to the community. O. Reg. 588/17 establishes two categories for LOS:

- **Community Level of Service**: a description of how customers expect to receive the service. As the customer's expectations may vary from customer to customer this group of matrixes are subjective and difficult to directly measure.

- **Technical Level of Service**: a measurable attribute that reflects the assets' ability to achieve the desired community level of service.

The approved Asset Management Plan concentrates on developing an **understanding of the current level of service** in accordance with O. Reg. 588/17. The final phase of asset management planning will be to identify the desired level of service which will meet the community's expectation with a full understanding of the financial implications of striving for the proposed level of service.

2. Tax Funded Assets

2.1. Asset Category: Roads

2.1.1. Inventory

The Township's Road network includes roads with various surface types, including high-class bituminous (HBC), low-class bituminous (LCB), and gravel. The Township also has sidewalks and streetlights that have been included in the Roads asset category.

The information provided for the Roads category was prepared in 2022. The estimated replacement cost of roads is approximately $91,285,654. The breakdown of the road network is provided in **Table 4**.

Table 4. Road Assets (2022)

Road Assets	# of Roads	Length	Average Service Life	Replacement Value
HCB	212	155 km	30 years	$49,040,611
LCB	39	85 km	7 years	$16,428,403
Granular	108	145 km	N/A	$19,521,950
Sidewalks	37	12,106 m	18 years	$1,392,190
Streetlights	935	-	30 years	$4,902,500
			Total	**$91,285,654**

Although granular roads are included in the valuation of the road network, the maintenance and replacement of granular roads are an annual operational function. Only projects where granular roads are upgraded to surface treatment or asphalt will be identified and included within the capital plan for this asset management plan.

2.1.2. Condition

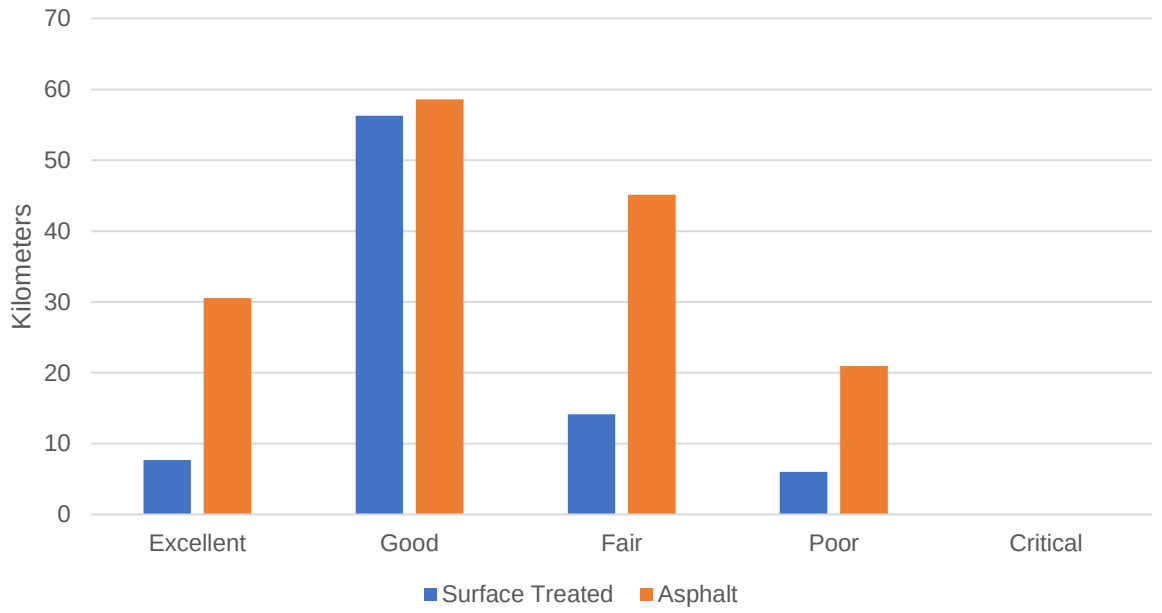
The condition of the road network was established using the observed data from the 2020 Road Needs Study and evaluated against the condition rating system provided in **Table 5**.

Table 5. Road Condition Rating System

Colour Indicator	Pavement Condition Index	
	Greater than 80%	Requires regular maintenance
	60% < PCI < 80%	Minor local improvements
	40% < PCI 60%	Requires rehabilitation and continued maintenance
	20% < PCI < 40%	Requires major rehabilitation or reconstruction
	Less than 20%	Requires Reconstruction

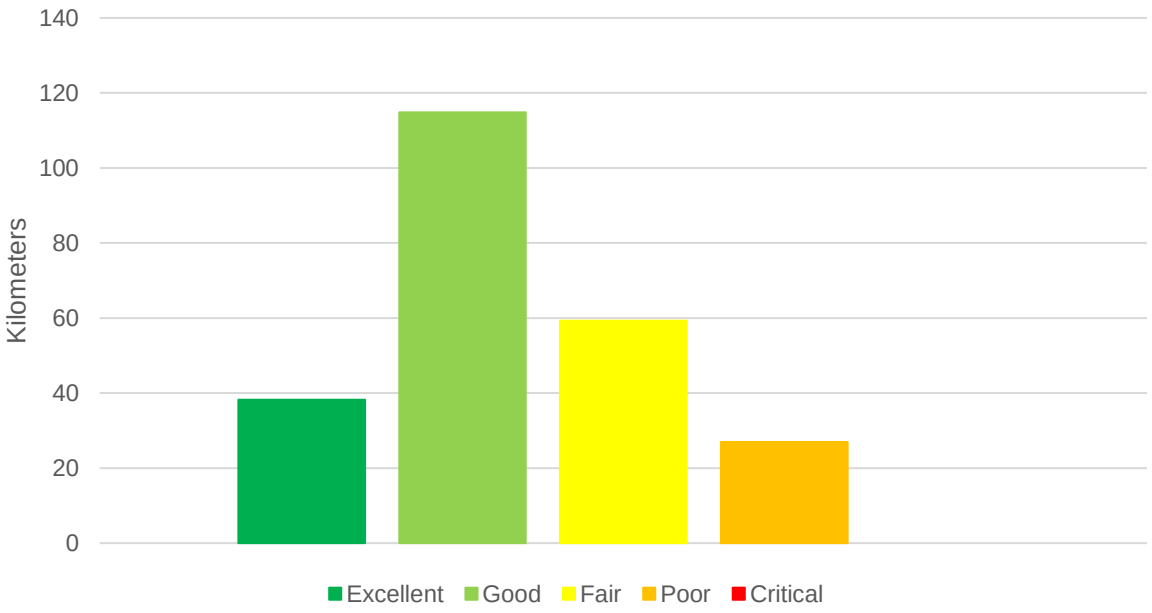
Based on the pavement condition index, the overall condition of the HCB and LCB Roads is shown in the following figure.

Figure 3. Condition of Road Assets by Component (2020)



The combined condition of all Road Assets is shown in the following figure.

Figure 4. Road Network Overall Condition (2020)



2.1.3. Current Level of Service

Based on the asset inventory compiled for the road network, the Township has identified the current level of service being provided to the community. The Community and Technical Level of Service is reflected in the following table meeting the requirements of O. Reg. 588/17.

Table 6. Current Level of Service - Road Network (2022)

Level of Service Category	**Matrix**	**Current Level of Service**
Community	Description, which may include maps, of the road network in the municipality and its level of connectivity.	Refer to Appendix A
	Description or images that illustrate the different levels of road class pavement condition.	Road network condition rating system is defined in Table 5.
Technical	Lane-km of Municipal Roads per land area[1]	0.63 km/km^2
	For paved roads in the municipality, the average pavement condition index value.	62 (fair)
	Maintain an up-to-date Road Needs Study	Every Four Years
	Maintain a condition assessment of sidewalks	Every Years

1 based on 605 km^2

2.2. Asset Category: Bridges

2.2.1. Inventory

The Township has 61 structures located on open public roads that have a span of three (3) metres or greater. Any structures with less than a three (3) metre span that are located on an open public road are assumed to be included in the replacement costs of the roadway.

The information provided for the Bridges category was obtained from the 2023 Ontario Structural Inspection Manual (OSIM) inspection report. The estimated replacement cost of bridges on open public road allowances is approximately $77,889,125. The breakdown of the road network is provided in **Table 7**.

Table 7. Bridge Assets

Structure Type	Count	Average Service Life Remaining	Replacement Cost (2023)
Bridges	22	22 years	$46,098,146
Structural Culverts	39	21 years	$31,790,979
Total	**61**		**$77,889,125**

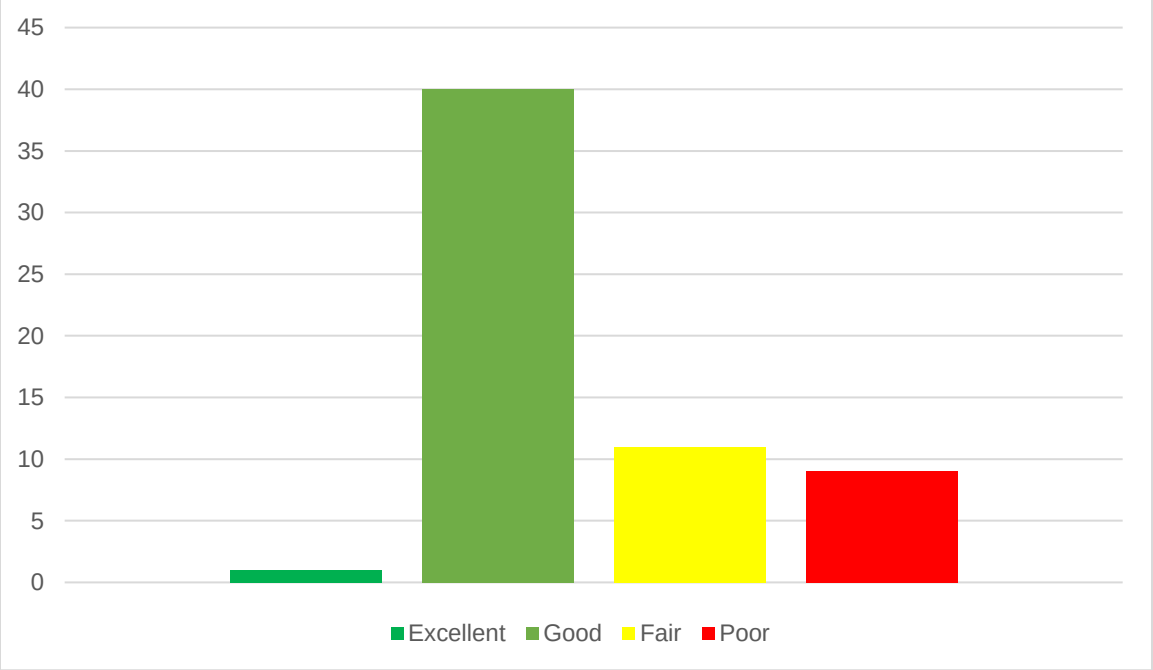
2.2.2. Condition

The condition of the bridge network was established using the observed data from the 2023 OSIM Report and evaluated against the condition rating system provided in **Table 8**.

Table 8. OSIM Bridge Condition Index

Rating		Maintenance Schedule
	Excellent BCI: 80-100	
	Good BCI: 70-79	Maintenance is not usually required within the next five years.
	Fair: BCI: 60-69	Maintenance work is usually required within the next five years.
	Poor: BCI: Less than 60	Maintenance work is usually carried out within one year.

Figure 5. Bridge Condition by Rating



2.2.3. Current Level of Service

Based on the asset inventory compiled for the bridge network, the Township has identified the current level of service being provided to the community. The Community and Technical Level of Service is reflected in the following table meeting the requirements of O. Reg. 588/17.

Table 9. Current Level of Service – Bridges (2024)

Level of Service Category	Matrix	Current Level of Service
Community	Description of the traffic that is supported by municipal bridges (e.g., heavy transport vehicles, motor vehicles, emergency vehicles, pedestrians, cyclists).	One (1) road bridge closed to all vehicle traffic
	Description or images of the condition of bridges and how this would affect use of the bridges.	Refer to OSIM Report
Technical	Percentage of bridges in the municipality with loading or dimensional restrictions	Currently no-load restrictions
	For bridges in the municipality, the average bridge condition index value.	68 (Fair)
	Completion of OSIM Report	Every Two Years

2.3. Asset Category: Stormwater

2.3.1. Inventory

The Township is the owner of several small stormwater systems within South Glengarry. The combined storm sewer systems consist of 2.3 kilometres of storm sewer, 102 metres of culverts, and appurtenances consisting of storm structures.

A summary of the Township's wastewater assets is presented in the following table.

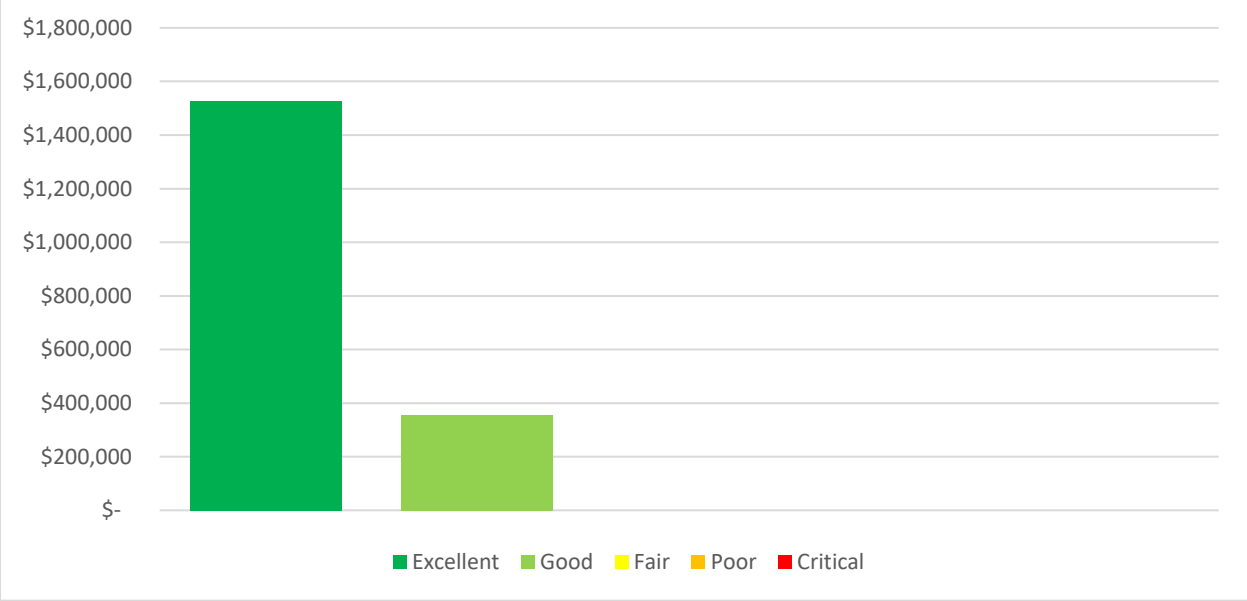
Table 10. Stormwater Assets (2024)

Asset Category	Quantity	Useful Life	Replacement Cost (2022)
Sewer	2.3 km	75 years	$1,478,993
Manholes / Catchbasins	86	75 years	$350,650
Culverts	102 m	50 years	$52,400
		Total	**$1,882,043**

2.3.2. Condition

The condition of the Township's stormwater infrastructure was not formally assessed through a physical condition assessment. The condition of the stormwater infrastructure is based on the estimated remaining useful life relative to the expected useful life. The distribution of the water infrastructure by condition state is presented in **Figure 6**. On average, storm sewers are in excellent condition.

Figure 6. Condition of Stormwater Assets (2024)



2.3.3. Current Level of Service

Based on the asset inventory compiled for the storm sewer network, the Township has identified the current level of service being provided by the community. The Community and Technical Level of Service is reflected in the following table meeting the requirements of O. Reg 588/17.

Table 11. Current Level of Service - Stormwater (2024)

Level of Service Category	Matrix	Current Level of Service
Community	Description, which may include maps, of the user groups or areas of the municipality that are protected from flooding, including the extent of the protection provided by the municipal stormwater management system.	Appendix A
Technical	Percentage of properties in municipality resilient to a 100-year storm.	No reliable data available
	Percentage of the municipal stormwater management system resilient to a 5-year storm.	100% Oak Street, South Beach Street, William Street, Bethune Avenue, Middle Street, Warren Street, Maple Street, Farlinger Drive, Bay Court

2.4. Asset Category: Fleet

2.4.1. Inventory

The Township operates a fleet of 45 vehicles across four (4) operational departments, with the majority being utilized by the roads and fire departments. The total estimated replacement cost of all Township fleet assets is $13,520,000. The breakdown of the fleet assets is provided in **Table 12**.

The current fleet replacement schedule (capital plan) is replacement based and does not take into consideration growth (service expansion or increase in staffing). The 10-year capital plan (draft attached) is based on previously documented and expected life cycles and recent staff reports documenting replacements.

When considering existing level of service and current replacement values in the table below, the four fleet assets that were replaced by Council but which are still in service have not been considered (Units 5, 20, 24, 90). Replacing these fleet assets would be considered an increase in level of service (fleet growth) to the municipality.

Table 12. Fleet Assets (2024)

Operational Division	Number of Fleet Assets	Average Service Life Remaining	Replacement Value
Fire	17	12	$6,300,000
Planning	1	10	$100,000
Recreation	5	7	$510,000
Roads / Waste	22	8	$6,525,000
Total	**45**	**8.75 years**	**$13,435,000**

2.4.1. Condition

The condition of the Township's fleet was not formally assessed through a physical condition assessment. The condition of the fleet is based on the estimated remaining useful life relative to the expected useful life. The estimated service life for each type of fleet vehicle is summarized in the following table.

Table 13. Fleet Expected Useful Service Life by Unit Type

Vehicle Type	Quantity	Expected Useful Service Life	Average Age	Estimated Cost to Replace
Fire Fleet	14	20 years	7 years	$450,000
Grader	2	25 years	22 years	$650,000
Pickup (1/2 Ton)	9	12 years	8 years	$100,000
Pickup (3/4 Ton or Larger)	3	15 years	9 years	$120,000
Tandem	10	18 years	9 years	$380,000
Other (Backhoes, Tractors, Wheel Loaders, etc.,)	7	20-25 years	12 years	$100,000-$500,000

2.4.2. Current Level of Service

Based on the asset inventory compiled for the fleet, the Township has identified the current level of service being provided by the community. The Community and Technical Level of Service is reflected in the following table meeting the requirements of O. Reg 588/17.

Table 14. Current Level of Service - Fleet

Level of Service Category	Matrix	Current Level of Service
Community	Description or images of the types of vehicles that the municipality operates and the services that they help to provide to the community.	The provision of services to the community requires a diverse inventory of fleet vehicles. This AMP provides the type of fleet vehicles and the operational units.

Technical	The average assessed or age-based condition of all municipal vehicles.	8.4 years
	The total replacement cost of municipal vehicles currently in backlog.	$1,380,000

2.5. Asset Category: Facilities

2.5.1. Inventory

The Township owns 31 facilities that support four (4) operational divisions as summarized in the following table. The current replacement values were obtained from the 2024 Building Condition Assessments.

Table 15. Facility Inventory (2024)

Operational Division	Number of Facilities	Current Replacement Value (incl. Site Works)
Administration	2	$3,779,868
Recreation	17	$26,177,807
Roads	6	$6,449,743
Fire	6	$10,849,650
Total	**31**	**$47,257,068**

2.5.2. Condition

The current technical level of service at a Township facility is the Facility Condition Index (FCI). The FCI is a benchmark used to index the relative condition of a facility and is calculated as a ratio of the sum of capital and maintenance renewal requirement costs for an asset over a set period of time divided by the Current Replacement Value (CRV) of the building.

Given that a single-year (immediate requirements) FCI tends to fluctuate and is subject to the building deferred maintenance, a 5-Year FCI, which focuses on the short-term trends, is recommended. The 5-Year FCI tends not to fluctuate as much, making long-term planning easier and more effective. The Township is using a 5-year FCI, which consists of backlog (work that should have been completed in the past), current year (2024) and 4 future years (2025-2028).

The FCI rating scale used to determine the condition of the subject assets are:

- **Very Good, 0% - 20%**
- Good, 21% - 40%
- Fair, 41% - 60%
- Poor, 61% - 80%
- Very Poor, >80%

The condition of the facilities by operational division are provided in the following table.

Table 16. Facility Condition Index by Division (2024)

Operational Division	Number of Facilities	Current Replacement Value (incl. Site Works)	10-Year Renewal Costs	5-Year FCI
Administration	2	$3,779,868	$1,470,785	8.0%
Recreation	17	$26,177,807	$7,981,730	6.1%
Roads	6	$6,449,743	$1,597,332	14.8%
Fire	6	$10,849,650	$1,435,282	13.0%
Total	**31**	**$47,257,068**	**$12,485,130**	**10.3**

2.5.3. Current Level of Service

Based on the asset inventory compiled for facilities, the Township has identified the current level of service being provided by the community. The Community and Technical Level of Service is reflected in the following table meeting the requirements of O. Reg 588/17.

Table 17. Current Level of Service - Facilities (2024)

Level of Service Category	Matrix	Current Level of Service
Community	Description or images of the types of municipal facilities that the municipality operates and the services that they help to provide to the community.	The provision of services to the community requires a diverse inventory of facilities. This AMP identifies the facilities that provide administration, fire protection, recreation, transportation, and water /wastewater services to the community.
Technical	The average assessed or age-based condition of all municipal facilities.	10.3%
	The total replacement cost of municipal facilities currently in backlog.	$0

2.6. Asset Category: Wharfs

2.6.1. Inventory

The Township accepted ownership of the facilities now known as ‘South Lancaster Wharf’ and ‘Summerstown Wharf’ during May 2001. At the time, the Township agreed to operate the sites for a period of five (5) years as a public facility. They continue to be operated as public facilities.

The estimated replacement value for wharfs is in excess of $3,000,000.

2.6.2. Condition

The Township undertook a visual inspection of the wharfs during the summer of 2022 to assess condition in terms of general damage, deterioration, deficiencies, and maintenance issues. The inspections indicated that:

- The **Summerstown Wharf** has likely reached the end of its service life; with replacement of stabilization of the wharf recommended within the next three (3) years [before 2026].

- The **South Lancaster Wharf** has areas with major deficiencies with components at the end of their service life; with rehabilitation recommended within the next five (5) years [before 2028]

2.6.3. Current Level of Service

Based on the asset inventory compiled for the two wharfs, the Township has identified the current level of service being provided by the community. The Community and Technical Level of Service is reflected in the following table meeting the requirements of O. Reg 588/17.

Table 18. Current Level of Service - Wharfs (2022)

Level of Service Category	Matrix	Current Level of Service
Community	Description or images of the types of wharfs that the municipality operates and the services that they help to provide to the community.	Appendix A
Technical	The average assessed or age-based condition of the wharfs.	0-3 years
	The total replacement cost of municipal facilities currently in backlog.	$1,500,000

2.7. Asset Category: Trails

2.7.1. Inventory

The Township owns and maintains two trails: the Glen Walter Park Trail and the Peanut Line.

The **Glen Walter Park Trail** is a 2.0-kilometer loop located within Glen Walter Park. It has a paved surface.

The **Peanut Line** is a 31.8-kilometre rail trail that runs from the east to west boundaries of the municipality and presents significant opportunity for multi-use trail-based recreation in South Glengarry. This former Canadian Pacific railbed was purchased by the Township in 2009 with the intention of developing a Trail Master Plan to guide its design, management, and maintenance. The trail offers residents a variety of outdoor recreational opportunities, including motorized sports, walking, jogging, cross country skiing, equestrian, etc. The Trail is well used by the Glendaler's Winter Sports Club for snowmobile and ATV recreation.

The Township's Trail Assets, as inventoried at the time of publishing of this AMP, are summarized in the following table. The current replacement value of the Peanut Line includes only the bridge structures. The remaining trail inventory and replacement values have not been finalized and will it is anticipated that the current replacement value will increase substantially.

Table 19. Trail Assets (2024)

Trail Asset	Quantity	Current Replacement Value
Glen Walter Park Trail	2.0 km	TBD
Peanut Line	31.8 km	$6,954,407 (bridges only)
Total	**33.8 km**	**TBD**

2.7.2. Condition

The condition of the trails has not been formally assessed.

2.7.3. Current Level of Service

Based on the asset inventory compiled for the trails, the Township has identified the current level of service being provided by the community. The Community and Technical Level of Service is reflected in the following table meeting the requirements of O. Reg 588/17.

Table 20. Current Level of Service - Wharfs (2022)

Level of Service Category	Matrix	Current Level of Service
Community	Description or images of the types of wharfs that the municipality operates and the services that they help to provide to the community.	Appendix A
Technical	The average assessed or age-based condition of the trails.	TBD
	For trail bridges in the municipality, the average bridge condition index value.	46.6 (Poor)
	Completion of OSIM Report (trail bridges)	Every Two Years
	The total replacement cost of municipal trails currently in backlog.	TBD

2.8. Asset Category: Parks

2.8.1. Inventory

The Township of South Glengarry is responsible for the operation and maintenance of 15 municipal parks. At this time (2024), the Parks assets considered do not include parkland, only structures such as play structures, splash pads and pavilions. The inventory of Park Assets is provided in the following table.

Table 21. Park Assets (2024)

Park Name	Asset Type	Age	Estimated Useful Life	Estimated Remaining Life	Estimated Replacement Cost
Empey Poirier Park	Play Structure	1	25 years	24 years	$60,000
Paul Rozon Memorial Park	Splash Pad	10	20 years	10 years	$200,000
Paul Rozon Memorial Park	Play Structure	10	20 years	10 years	$60,000
Green Valley Community Park	Play Structure	14	20 years	6 years	$60,000
Martintown Community Park	Play Structure	10	25 years	15 years	$80,000
North Lancaster Optimist Club Park	Play Structure	2	25 years	23 years	$60,000
Smithfield Park	Play Structure	16	15 years	-1 years	$100,000
Smithfield Park	Pavilion	N/A	N/A	N/A	$100,000
Glen Walter Regional Park	Play Structure	2	25 years	23 years	$180,000
Glen Walter Regional Park	Pavilion	N/A	N/A	N/A	$100,000
			Total	**13.75 years**	**$1,000,000**

2.8.2. Condition

The condition of the Township's park structures was not formally assessed through a physical condition assessment. The condition of the park structures is based on the estimated remaining

useful life relative to the expected useful life. The estimated service life for each type of park structure is summarized in the following table.

Table 22. Park Structure Expected Useful Service Life by Structure Type

Park Structure Type	Quantity	Expected Useful Service Life	Average Age	Estimated Cost to Replace
Play Structure	7	15 – 25 years	7.9 years	$83,000
Pavilion	2	N/A	N/A	$100,000
Splash Pad	1	20 years	10 years	$200,000

2.8.3. Current Level of Service

The parks were inventoried through the Parks and Recreation Master Plan and classified into a draft classification system. The draft classification system is commonly used in municipal Asset Management Plans and has been carried forward as an indicator of the existing community level of service (hectares per 1,000 people).

Table 23. Parks Classification System (2022)

Type	Current Community Level of Service	Parks Included
Active Park	35.4 ha 27 ha / 1,000 people	• Glen Walter Regional Park • Empey-Poirier Park • Paul Rozon Memorial Park • Martintown Community Park • Smithfield Park • North Lancaster Optimist Park • Green Valley Community Park • Jack Danaher Park • Summerstown Estates Park (undeveloped)
Waterfront Park or Waterfront Access	4.1 ha 0.3 ha / 1,000 people	• Kenneth Barton Senior Park • Glen Walter Waterfront Park • Cairnview Park (undeveloped)
Natural or Passive Park	3.2 ha 0.24 ha / 1,000 people	• Bernie McDonnell Park • Library Park • Glen Gordon Park • Women's Institute Park

Based on the asset inventory compiled for the Parks, the Township has identified the current level of service being provided by the community. The Community and Technical Level of Service is reflected in the following table meeting the requirements of O. Reg 588/17.

Table 24. Current Level of Service - Parks (2024)

Level of Service Category	Matrix	Current Level of Service
Community	Description or images of the parks that the municipality operates.	Appendix A
	Hectares per 1,000 people for each classification of Park.	Active Park: 27 ha / 1,000 people Waterfront Park: 0.3 ha / 1,000 people Natural Park: 0.24 ha / 1,000 people
Technical	The average assessed or age-based condition of the park structures.	8.1 years
	The total replacement cost of municipal park structures currently in backlog.	$100,000

3. Rate Funded Assets

3.1. Asset Category: Water

3.1.1. Inventory

The Township is the owner and operator of three drinking water systems, including the following:

- Glen Walter Drinking Water System
- Lancaster Drinking Water System
- Redwood Estates Drinking Water System

The combined drinking water systems consist of three drinking water treatment plants, one elevated tower 25.1 km of watermains and appurtenances consisting of hydrants, water valves and water services.

A summary of the Township's water assets is presented in the following table.

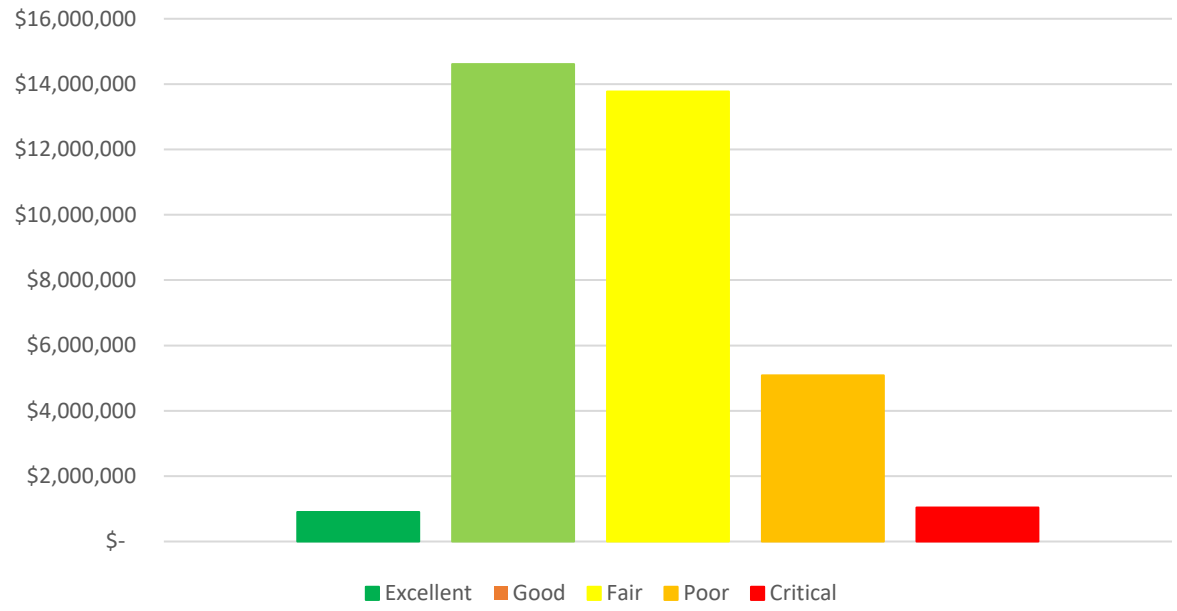
Table 25. Water Assets (2022)

Asset Category	Quantity	Useful Life	Replacement Cost (2022)
Watermains	25.1 km	80 years	$ 8,669,604
Hydrants	103	50 years	$772,500
Valves	178	50 years	$391,600
Services	998	60 years	$2,495,000
Facilities	5	40-80 years	$26,744,429
Fleet	4	12 years	$250,000
		Total	**$39,073,133**

3.1.2. Condition

The condition of the Township's water treatment and distribution infrastructure was not formally assessed through a physical condition assessment. The condition of the water infrastructure is based on the estimated remaining useful life relative to the expected useful life. The distribution of the water infrastructure by condition state is presented in **Figure 7**. On average, water mains are in good condition while water facilities are in fair condition.

Figure 7. Condition of Water Treatment and Distribution Assets (2022)



The condition of the facilities housing the water treatment and distribution systems were assessed through the 2023 Building Condition Assessments. The Facility Condition Index (FCI) for the water buildings indicated a rating of Very Good.

3.1.3. Current Level of Service

Based on the asset inventory compiled for the water network, the Township has identified the current level of service being provided to the community. The Community and Technical Level of Service is reflected in the following table meeting the requirements of O. Reg. 588/17.

Table 26. Current Level of Service – Water (2023)

Level of Service Category	Matrix	Current Level of Service
Community	Description, which may include maps, of the user groups or areas of the municipality that are connected to the municipal water system.	Refer to Appendix C
	Description, which may include maps, of the user groups or areas of the municipality that have fire flow.	Refer to Appendix C
	Description of boil water advisories and service interruptions.	Refer to Table 15.
Technical	Percentage of properties connected to the municipal water system.[1]	18.4% Glen Walter: 440 Connections Lancaster: 508 Connections Redwood Estates: 26 Connections
	Percentage of properties where fire flow is available.	9.6% Lancaster only
	The number of connection-days per year where a boil water advisory notice is in place compared to the total number of properties connected to the municipal water system.	One (Glen Walter)
	The number of connection-days per year due to water main breaks compared to the total number of properties connected to the municipal water system.	Zero (All Site)
	The average assessed or age-based condition of all water facilities.	9.0% (Very Good)

1 Based on 5,300 residential properties in the Township

3.2. Asset Category: Wastewater

3.2.1. Inventory

The Township is the owner of several wastewater treatment systems, including the following:

- Glen Walter Water Pollution Control Plant
- Green Valley Lagoons
- Lancaster Lagoons

The combined wastewater systems consist of three wastewater treatment plants, seven sewage pumping stations, 22 km of sanitary sewers, 13 km of forcemains and appurtenances consisting of manholes and services connections.

A summary of the Township's wastewater assets is presented in the following table.

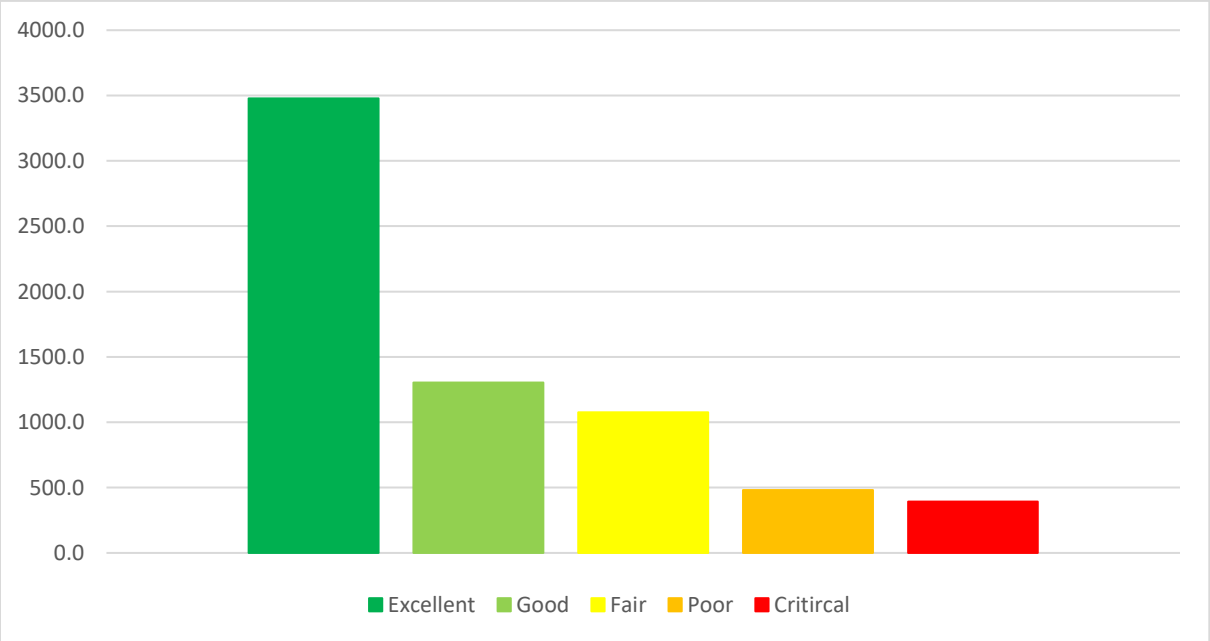
Table 27. Wastewater Assets (2022)

Asset Category	Quantity	Useful Life	Replacement Cost (2022)
Sewer	34.8 km	75 years	$12,182,706
Manholes	311	60 years	$2,612,400
Services	1,110	60 years	$2,775,000
Facilities	1 mechanical 2 lagoons 7 pump stations	50 years	$32,071,709
Fleet	3	12 years	$150,000
		Total	**$49,641,815**

3.2.2. Condition

The condition of the Township's wastewater treatment and collection infrastructure was not formally assessed through a physical condition assessment. The condition of the wastewater infrastructure is based on the estimated remaining useful life relative to the expected useful life. The distribution of the water infrastructure by condition state is presented in **Figure 8**. On average, sewers are in good condition while wastewater facilities are in fair condition.

Figure 8. Condition of Wastwater Treatment and Collection Assets (2022)



The condition of the facilities housing the wastewater treatment and distribution systems were assessed through the 2023 Building Condition Assessments. The Facility Condition Index (FCI) for the wastewater buildings indicated a rating of Very Good.

3.2.3. Current Level of Service

Based on the asset inventory compiled for the wastewater network, the Township has identified the current level of service being provided to the community. The Community and Technical Level of Service is reflected in the following table meeting the requirements of O. Reg. 588/17.

Table 28. Current Level of Service – Wastewater (2023)

Level of Service Category	Matrix	Current Level of Service
Community	Description, which may include maps, of the user groups or areas of the municipality that are connected to the municipal wastewater system.	Appendix D
	Description of the frequency and volume of overflows in combined sewers in the municipal wastewater system that occur in habitable areas or beaches.	Refer to Table 20
	Description of how stormwater can get into sanitary sewers in the municipal wastewater system, causing sewage to overflow into streets or backup into homes.	Stormwater can enter the sanitary network through inflow (i.e. sump pumps, footing drains, rain leader connections, etc.) or infiltration (i.e. seepage through cracks in sewers or manholes, loose joints, etc.)
	Description of how sanitary sewers in the municipal wastewater system are designed to be resilient to avoid events described above.	The Township ensures that new construction is completed in accordance with the MECP design guidelines.
	Description of the effluent that is discharged from sewage treatment plants in the municipal wastewater system.	Final effluent from the Glen Walter WPCP and Lancaster Sewage Treatment Plant is discharges by gravity to the St. Lawrence River. Final effluent from the Green Valley Sewage Treatment Plant is discharges by gravity, seasonally to the Beaudette River.
Technical	Percentage of properties connected to the municipal wastewater system.[1]	21.6% Glen Walter: 424 Connections Lancaster: 508 Connections

Level of Service Category	Matrix	Current Level of Service
		Green Valley: 215 Connections
	The number of connection-days per year due to wastewater backups compared to the total number of properties connected to the municipal wastewater system.	One Event (4-days, Glen Walter)
	The number of effluent violations per year due to wastewater discharge compared to the total number of properties connected to the municipal wastewater system.	Zero (All Site)
	The average assessed or age-based condition of all wastewater facilities.	14.9% (Very Good)

1 Based on 5,300 residential properties in the Township

4. Annual Financial Requirements

4.1. Tax Funded Requirements

The annual requirements represent the amount the Township could allocate annually to each asset category to meet replacement needs, prevent infrastructure backlogs, and work towards long-term infrastructure sustainability. In total, the Township would need to allocate an **annual average of $4,500,000 to address capital requirements for the tax funded assets** included in this AMP. **Figure 9** provides the average annual capital funding requirements for each asset category.

The 10-year capital plan has the following assumptions that will be revised as more information is made available:

- **Roads** requirements will be updated following receipt of the 2024 Road Needs Study and it is anticipated that the average annual funding requirements will increase (2020 dollars vs 2024 dollars, and update condition information).
- **Trails** requirements will be updated following completion of the 2024 inventory review
- **Tax Funded Assets** do not include growth or expansion to the existing systems, networks, and inventories

The 10-year capital funding requirement, based on the condition and age-based assessments is provided in **Figure 10**. The values presented provide a high-level understanding of the financial requirements to support the Township's core and non-core infrastructure assets. The 10-year capital plans are continuously refined to reflect changes to condition assessments, revised cost estimates, and changes to the level of service provided by the municipality.

4.2. Rate Funded Requirements

The 10-year capital funding requirement for the rate funded assets, namely water and wastewater assets. The funding requirements are estimated based on the condition and age-based assessments is provided in **Figure 11**. The values presented provide a high-level understanding of the financial requirements to support the Township's core and non-core infrastructure assets.

The 10-year capital plan has the following assumptions that were carried from the 2022 Asset Management Plan and that will be revised as more information is made available:

- 2025, New Glen Walter Water Tower, received funding through the Investing Canada Infrastructure Program (ICIP) and which provides $3.6M towards a $5M
- 2025, Glen Walter Water Pollution Control Plant expansion ($23M)
- 2025, Glen Walter Water Treatment Plant expansion ($27M)

The 10-year capital plans are continuously refined to reflect changes to condition assessments, revised cost estimates, and changes to the level of service provided by the municipality.

Figure 9. Average Annual Capital Funding Requirements (Tax)

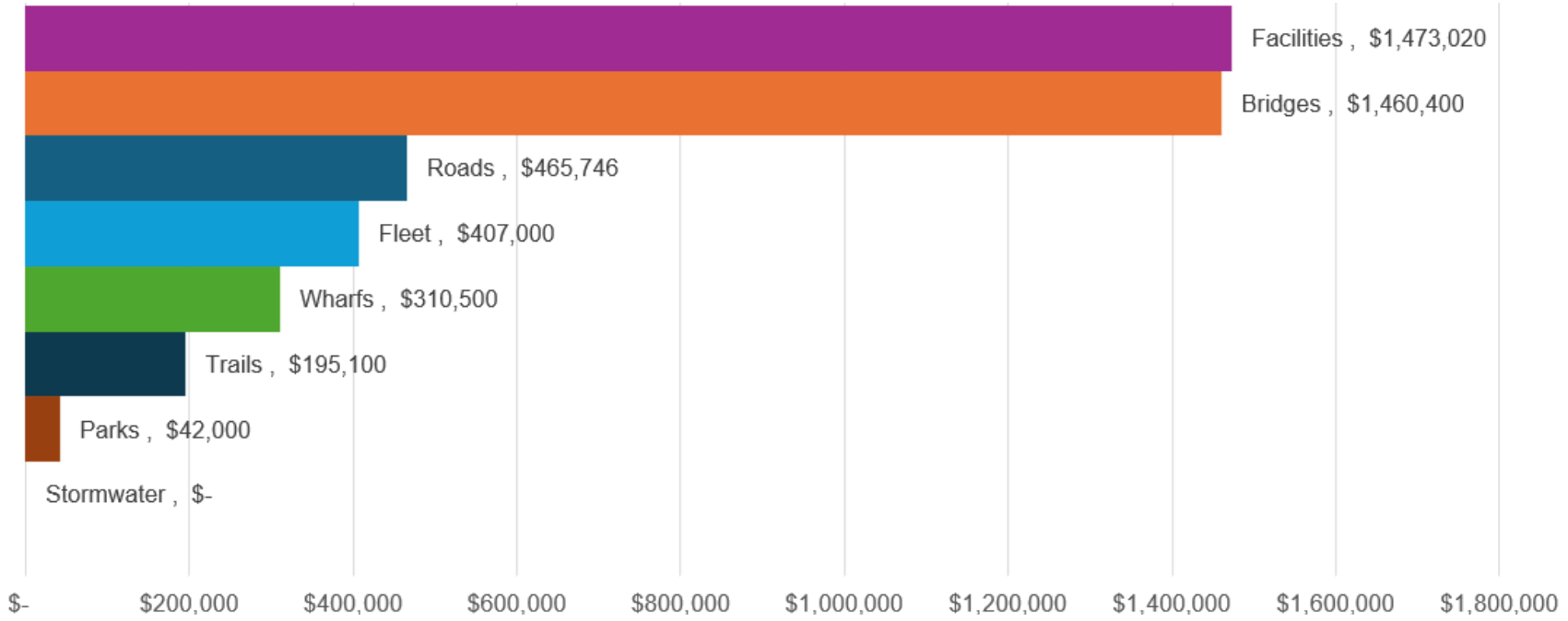


Figure 10. 10-Year Capital Funding Requirements (Tax)

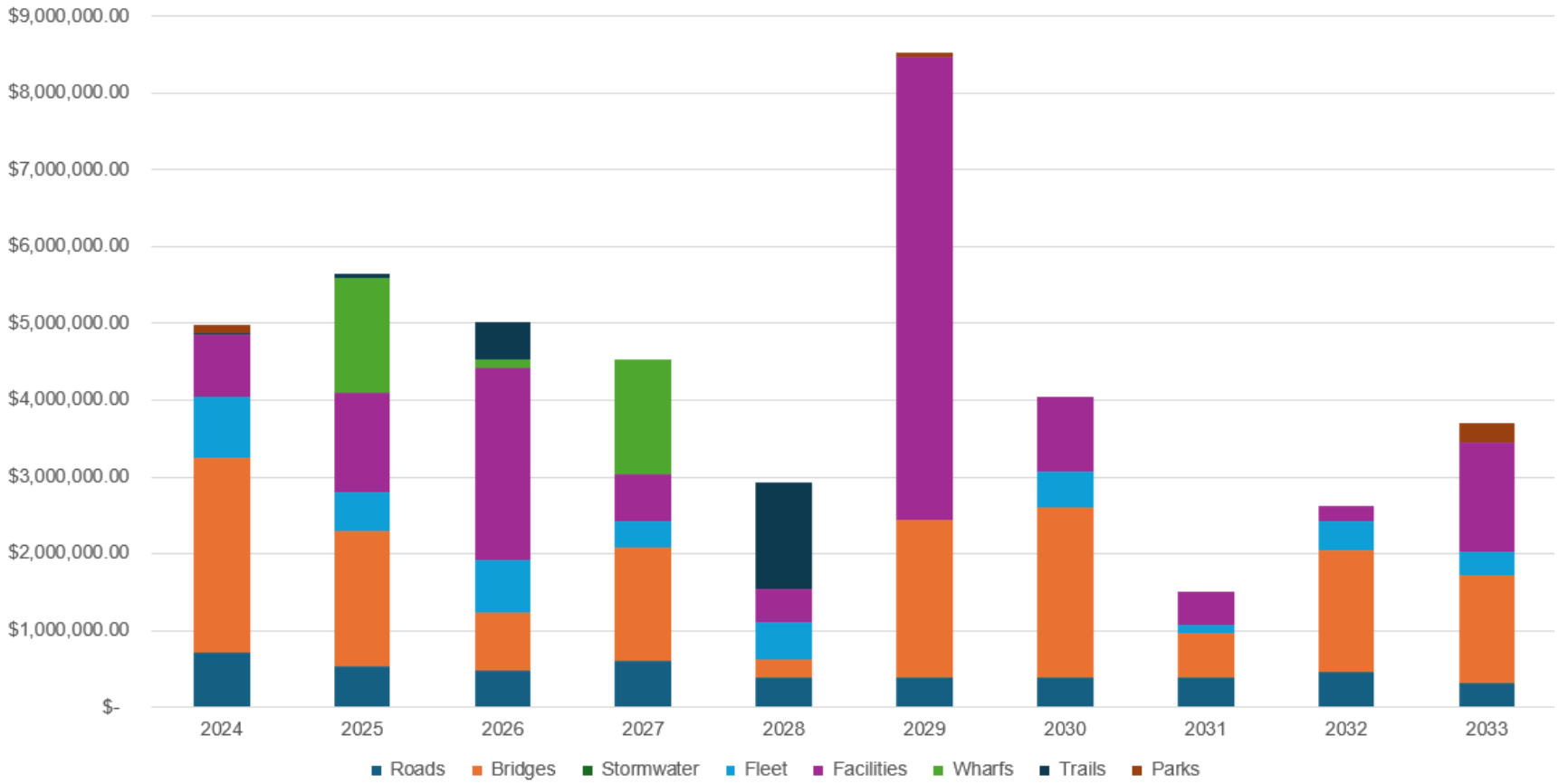
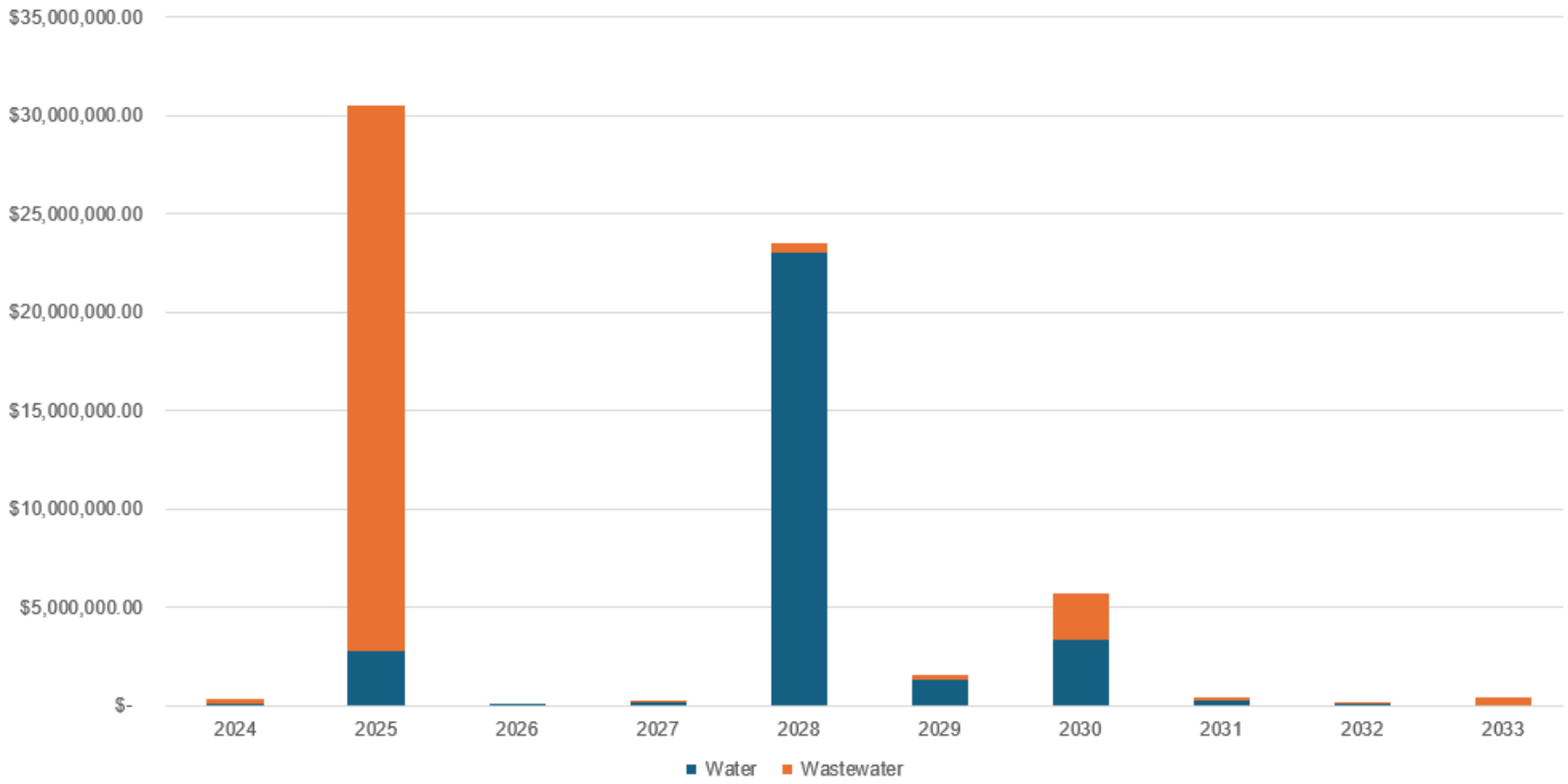


Figure 11. 10-Year Capital Funding Requirements (Rate)



SOUTH GLENGARRY

Asset Management Plan

Appendix A: Strategic Asset Management Policy

Date: June 2024

Version 2.0

South Glengarry			POLICY
Policy Number:	40-2019	Review Frequency:	**Every five years**
Approved By:	Council of the Township of South Glengarry	Date Approved:	**June 17, 2019**
		Revision Date:	**June 20, 2022**
Subject:	**Strategic Asset Management Policy**		

1. Purpose

The purpose of this policy is to provide a framework for the development and implementation of the Township's asset management program. It is intended to guide the consistent use of **asset management** across the organization, to facilitate logical and evidence-based decision-making for the management of **municipal infrastructure assets** and to support the delivery of sustainable community services now and in the future.

By using sound asset management practices, the Township will work to ensure that all municipal infrastructure assets meet expected performance levels and continue to provide desired service levels in the most efficient and effective manner. Linking service outcomes to infrastructure investment decisions will assist the Township in focusing on service driven, rather than budget driven, asset management approaches.

This policy demonstrates an organization-wide commitment to the good stewardship of municipal infrastructure assets, and to be accountable and transparent to the community through the adoption of best practices regarding asset management planning.

2. Background

The Township is responsible for providing a range of essential services to the community, including transportation networks, water and wastewater, fire protection, landfill and recycling, land use planning, parks and recreation. To provide services, the Township owns and manages a diverse municipal infrastructure and asset portfolio of roads, bridges, culverts, fleet, land & land improvements, water and wastewater network, storm water network, buildings, and equipment. As the social, economic, and environmental wellbeing of the community depends on the reliable performance of these municipal infrastructure assets it is critical to maintain a systemic, sustainable approach to their management.

Asset management is such an approach, and refers to the set of policies, practices and procedures that allow an organization to realize maximum value from its municipal infrastructure assets. Asset management allows organizations to make informed decisions regarding the

planning, building, operating, maintaining, renewing, rehabilitation, replacing and disposing of municipal infrastructure assets through a wide range of **lifecycle activities**. Furthermore, it is an organization-wide process that involves the coordination of activities across all Township departments. As such, it is useful to adopt a structured and coordinated approach to outlining the activities, roles and responsibilities required of organizational factors, as well as the key principles that should guide all asset management decision-making.

A comprehensive and holistic asset management approach will support efficient and effective delivery of **established levels of service** and ensure that due regard and process are applied to the long-term management and stewardship of all municipal infrastructure assets. In addition, it will align the Township with provincial and national standards and regulations such as the Infrastructure for *Jobs and Prosperity Act, 2015* and Ontario Regulation 588/17, enabling the organization to take full advantage of available grant funding opportunities.

The approval of this policy is an important step towards integrating the Township's strategic mission, vision and goals with its asset management program, and ensuring that critical municipal infrastructure assets and vital services are maintained and provided to the community in a reliable, sustainable manner.

3. Alignment with the Township's Strategic Direction

This policy aligns with the Township of South Glengarry's Mission Statement and the United Counties of Stormont, Dundas, and Glengarry's Official Plan. The following strategic priorities have been identified to meet the municipality's service goals.

1. Invest in infrastructure and its sustainability
2. Improve and implement asset management plan based on capital and condition assessments
3. Pursue funding sources and partnerships to maintain infrastructure
4. Develop internal financial strategy to support infrastructure sustainability
5. Review and assess levels of service

The Official Plan identifies several objectives within the document, the following closely align with asset management initiatives:

1. To promote development where it can be adequately serviced with existing capacity or planned expansion of public service facilities and infrastructure to ensure development is financially viable.

2. To maintain the well-being of Hamlets and main streets by encouraging development of Township-centered, pedestrian, and active transportation communities that promote well-designed built form that conserves and protects cultural heritage resources

3. To conserve and protect natural heritage features and areas and biodiversity and consider the impacts of a changing climate in the design, development and maintenance of land uses and activities

4. To develop public services and infrastructure that are accessible, available, cost-effective, and efficient at meeting the needs of existing and new development and considers the effects of climate change

5. To provide a level and quality of public service facilities and infrastructure commensurate with planned growth and development of settlement areas and the rural area of the Township

6. To improve and enhance the quality of existing public service facilities and infrastructure

4. Policy Statement

To guide the Township, the following policy statements have been developed:

1. The Township will implement an enterprise-wide asset management program through all departments. The program will promote lifecycle and risk management of all municipal infrastructure assets, with the goal of achieving the lowest total cost of ownership while meeting desired levels of service.

2. The Township will implement continuous improvement protocols and adopt best practices regarding asset management planning, including:
   i. Complete and Accurate Asset Data
   ii. Condition Assessment Protocols
   iii. Risk and Criticality Models
   iv. Whole Lifecycle Management
   v. Financial Strategy Development
   vi. Level of Service Framework

3. The Township will develop and maintain an asset inventory of all municipal infrastructure assets which includes unique ID, description, location information, value (both historical and replacement), performance characteristics and/or condition, estimated remaining life and estimated repair, rehabilitation or replacement date; and estimated repair, rehabilitation or replacement costs.

4. The Township has developed an **asset management plan** that incorporates all municipal infrastructure assets that meet the **capitalization threshold** for tangible capital assets. The asset management plan will be updated at least every five years in accordance with O. Reg. 588/17 requirements, to promote, document and communicate continuous improvement of the asset management program.

   For management purposes, it can be advantageous to inventory, track, and document municipal infrastructure assets that fall below the relevant capitalization threshold. Recognizing that it may be beneficial to include these types of assets in the asset management plan &/or inventory database, the Township will consider incorporating

such assets at their own discretion, based on the objective of sustainably managing municipal infrastructure assets.

5. The Township will integrate asset management planning and practices with its long-term financial planning and budgeting strategies. This includes the development of financial plans that determine the level of funding required to achieve short-term operating and maintenance needs, in addition to long-term funding needs to replace and/or renew municipal infrastructure assets based on full lifecycle costing.

6. The Township will explore innovative funding and service delivery opportunities, including but not limited to grant programs, public-private partnerships (P3), alternative financing and procurement (AFP) approaches, and shared provision of services, as appropriate.

7. The Township will consider the risks and vulnerabilities of municipal infrastructure assets to climate change and the actions that may be required including, but not limited to, anticipated costs that could arise from these impacts, adaptation opportunities, mitigation approaches, disaster planning and contingency funding. Impacts may include matters relating to operations, levels of service and lifecycle management.

8. The Township will align where applicable, all asset management planning with the Province of Ontario's land-use planning framework, including any relevant policy statements issued under section 3(1) of the *Planning Act*; shall conform with the provincial plans that are in effect on that date; and, shall be consistent with all municipal official plans.

9. The Township will coordinate planning for asset management, where municipal infrastructure assets connect or are interrelated with those of its neighbouring municipalities or jointly-owned municipal bodies wherever viable and beneficial.

10. The Township will develop processes and provide opportunities for municipal residents and other interested parties to offer input into asset management planning wherever and whenever possible.

11. The Strategic Asset Management Policy will be reviewed and, if necessary, updated at least every five years.

12. Council will conduct an annual review of the Township's asset management progress on or before July 1 in each year, to meet the requirements outlined in O.Reg. 588/17

The annual review must address:

i. The Township's progress in implementing its asset management plan;
ii. Any factors impeding the Township's ability to implement its asset management plan;

iii. A strategy to address the factors identified as impeding the Township's ability to implement its asset management plan.

13. The Township will post its asset management policy and asset management plan on a website that is available to the public and will provide a copy of the policy and plan to any person who requests it.

5. Roles and Responsibilities

The development and continuous support of the Township's asset management program requires a wide range of duties and responsibilities. The following passages outline the persons or bodies responsible for these tasks:

1. **Council**
   i. Approve the Asset Management Policy and provide direction
   ii. Maintain adequate organizational capacity to support the core practices of the asset management plan
   iii. Prioritize effective stewardship of assets in adoption and ongoing review of policy and budgets
   iv. Establish and monitor levels of service
   v. Review & approve the Asset Management Plan by resolution every 5 years
   vi. Review the Township's asset management progress annually

2. **Senior Management Team**
   i. Development of policy and policy updates
   ii. Provide corporate oversight to goals and directions and ensure the asset management program aligns with the Township's mission
   iii. Ensure that adequate resources are available to implement and maintain core asset management practices
   iv. Provide departmental staff coordination
   v. Develop and monitor levels of service and make recommendations to Council
   vi. Track, analyze and report on asset management program progress and results

3. **General Manager of Infrastructure**
   i. Manage policy and policy updates
   ii. Provide organization-wide leadership in asset management practices and concepts
   iii. Provide corporate wide staff coordination
   iv. Monitor levels of service
   v. Coordinate and track asset management program implementation and progress
   vi. Endorse and champion the Asset Management Plan

4. **Treasurer**
    i. Provide organization-wide leadership in asset management practices and concepts
    ii. Track and maintain the Township's Financial Plan for all infrastructure

5. **Township Staff**
    i. Utilize any new business processes and technology tools developed as part of the asset management program
    ii. Participate in implementation task teams to carry-out asset management activities
    iii. Implement and maintain levels of service
    iv. Provide support and direction for asset management practices within their department
    v. Track and analyze asset management program progress and results

6. Key Principles

The Township shall consider the following principles as outlined in section 3 of the *Infrastructure for Jobs and Prosperity Act, 2015*, when making decisions regarding asset management:

1. Infrastructure planning and investment should take a long-term view, and decision-makers should consider the needs of citizens by being mindful of, among other things, demographic and economic trends.

2. Infrastructure planning and investment should consider any applicable budgets or fiscal plans.

3. Infrastructure priorities should be clearly identified in order to better inform investment decisions respecting infrastructure.

4. Infrastructure planning and investment should ensure the continued provision of core public services.

5. Infrastructure planning and investment should promote economic competitiveness, productivity, job creation and training opportunities.

6. Infrastructure planning and investment should ensure that the health and safety of workers involved in the construction and maintenance of infrastructure assets is protected.

7. Infrastructure planning and investment should foster innovation by creating opportunities to make use of innovative technologies, services and practices, particularly where doing so would utilize technology, techniques and practices developed in Ontario.

8. Infrastructure planning and investment should be evidence based and transparent, and, subject to any restrictions or prohibitions under an Act or otherwise by law on the collection, use or disclosure of information,
    i. investment decisions respecting infrastructure should be made on the basis of information that is either publicly available or is made available to the public, and
    ii. information with implications for infrastructure planning should be shared between the Township and broader public sector entities and should factor into investment decisions respecting infrastructure.

9. Where provincial or municipal plans or strategies have been established in Ontario, under an Act or otherwise, but do not bind or apply to the Township, as the case may be, the Township should nevertheless be mindful of those plans and strategies and make investment decisions respecting infrastructure that support them, to the extent that they are relevant.

10. Infrastructure planning and investment should promote accessibility for persons with disabilities per Accessibility for Ontarians with Disabilities Act (AODA) requirements

11. Infrastructure planning and investment should minimize the impact of infrastructure on the environment and respect and help maintain ecological and biological diversity, and infrastructure should be designed to be resilient to the effects of climate change as much as practical.

12. Infrastructure planning and investment should endeavour to make use of acceptable recycled aggregates.

13. Infrastructure planning and investment should promote community benefits, being the supplementary social and economic benefits arising from an infrastructure project that are intended to improve the well-being of a community affected by the project

7. Definitions

1. **Asset management (AM)** – the coordinated activity of an organization to realize value from assets. It considers all asset types, and includes all activities involved in the asset's life cycle from planning and acquisition/creation; to operational and maintenance activities, rehabilitation, and renewal; to replacement or disposal and any remaining liabilities. Asset management is holistic and normally involves balancing costs, risks, opportunities and performance benefits to achieve the total lowest lifecycle cost for each asset.

2. **Asset management plan (AMP)** – Documented information that specifies the activities, resources, and timescales required for an individual asset, or a grouping of assets, to achieve the organization's asset management objectives.

3. **Capitalization threshold** – the value of a municipal infrastructure asset at or above which municipality will capitalize the value of it and below which it will expense the value of it.

4. **Core infrastructure asset** – any municipal infrastructure asset that is a water asset, wastewater asset, stormwater management asset, road, bridge, or structural culvert.

5. **Green infrastructure asset** – an infrastructure asset consisting of natural or human-made elements that provide ecological and hydrological functions and processes and includes natural heritage features and systems, parklands, stormwater management systems, street trees, urban forests, natural channels, permeable surfaces and green roofs.

6. **Level of service** – parameters, or combination of parameters, which reflect social, political, environmental and economic outcomes that the organization delivers. Parameters can include, but are not necessarily limited to, Legislative requirements, Minimum Maintenance Standards, safety, customer satisfaction, quality, quantity, capacity, reliability, responsiveness, environmental acceptability, cost, and availability.

7. **Lifecycle activities** – activities undertaken with respect to a municipal infrastructure asset over its service life, including constructing, maintaining, renewing, operating and decommissioning, and all engineering and design work associated with those activities.

8. **Municipal infrastructure asset** – an infrastructure asset, including a green infrastructure asset, directly owned by a municipality or included on the consolidated financial statements of a municipality, but does not include an infrastructure asset that is managed by a joint municipal water board.

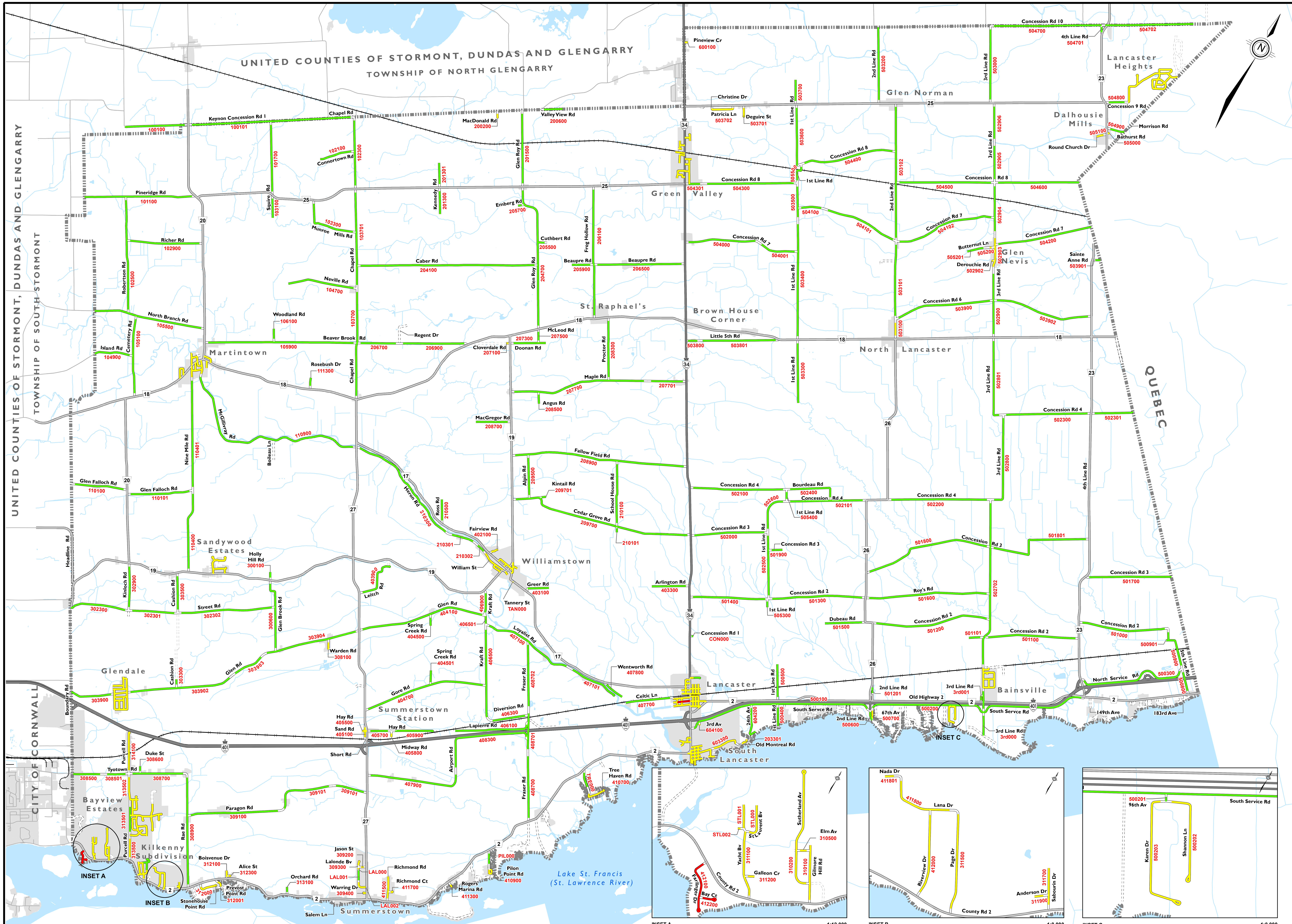
SOUTH GLENGARRY

Asset Management Plan

Appendix B: Asset Maps

Date: June 2024

Version 2.0



LEGEND

ROADSIDE ENVIRONMENT

- RURAL
- SEMI-URBAN
- URBAN

OTHER FEATURES

- PROVINCIAL HIGHWAY
- COUNTY ROAD
- ROAD ALLOWANCE
- PRIVATE ROAD
- RAILWAY
- MUNICIPAL BOUNDARY

NOTE:
RAILWAY CONTAINED ON THIS MAP WAS OBTAINED FROM LAND INFORMATION ONTARIO (2014) AND ARE LICENSED UNDER THE OPEN GOVERNMENT LICENSE - ONTARIO (HTTP://WWW.ONTARIO.CA/PAGE/OPEN-GOVERNMENT-LICENCE-ONTARIO#SECTION-0).

CIMA+

Roads Management Services Inc.

CLIENT

SOUTH GLENGARRY
Ontario's Celtic Heartland

PROJECT NAME:

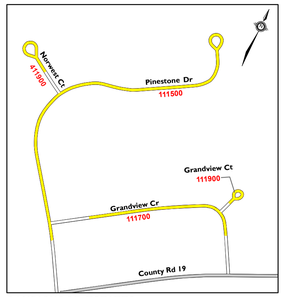
2016 ROAD NEEDS STUDY

SHEET TITLE:

ROADSIDE ENVIRONMENT OVERALL

SCALE:
1,000 500 0 1,000 2,000 3,000
meters
1:50,000

PROJECT No: C14-0116	CLIENT FILE No: --
DRAFTER: S. ELLIOTT	DESIGNER --
APPROVER D. CAMPBELL	APPROVER --
	DRAWING No: 3A
DATE: 5/10/2016	SHEET No: 1 of 1



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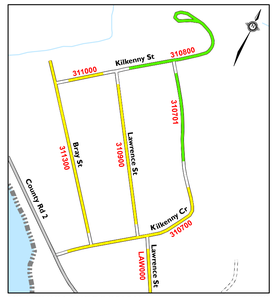

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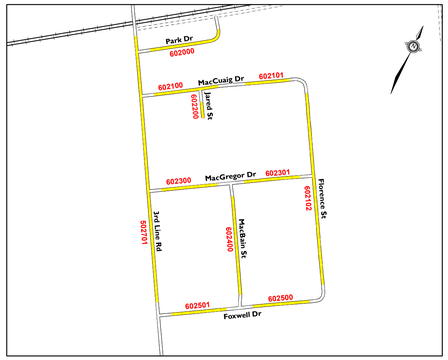

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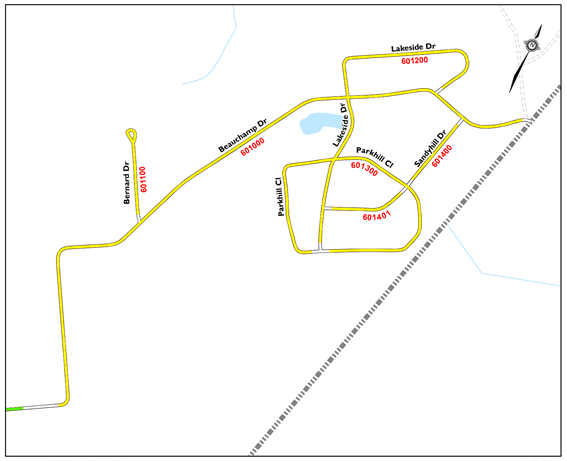

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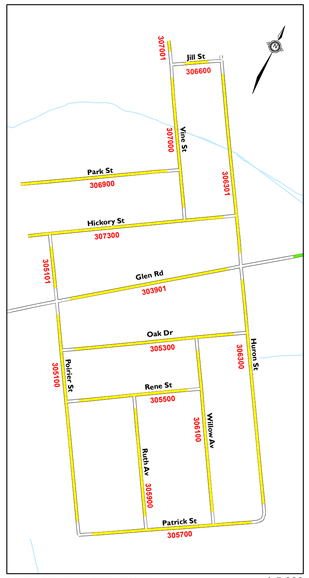

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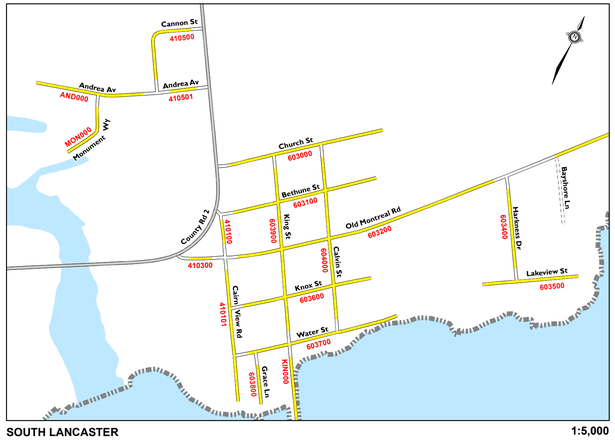

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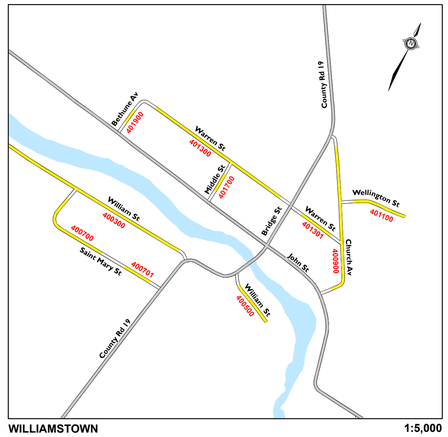

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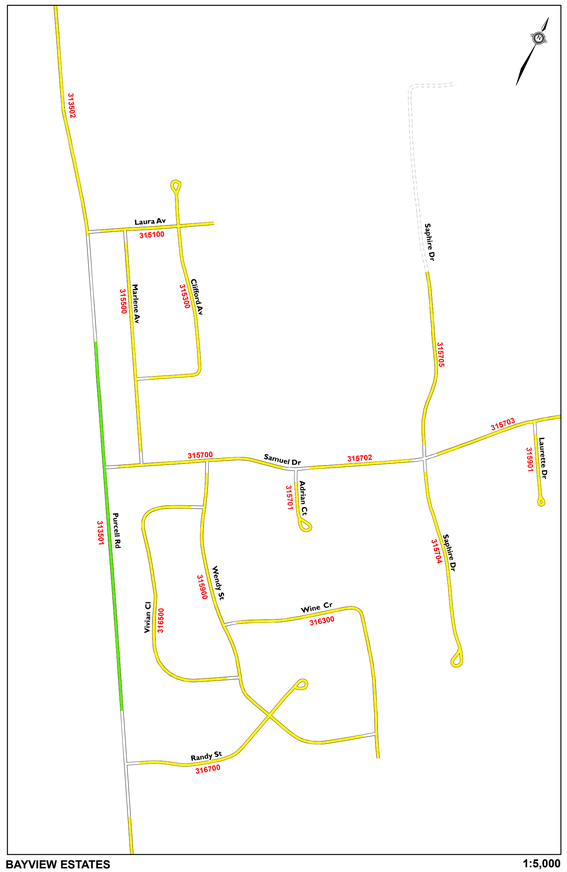

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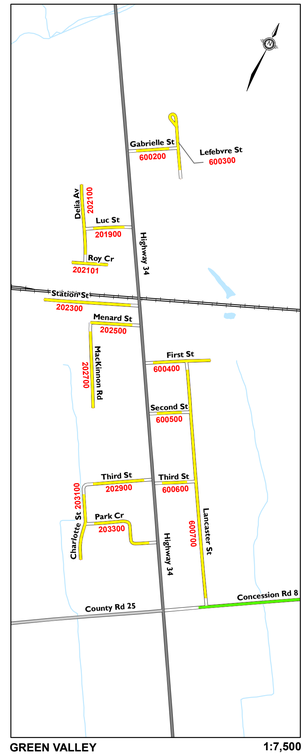
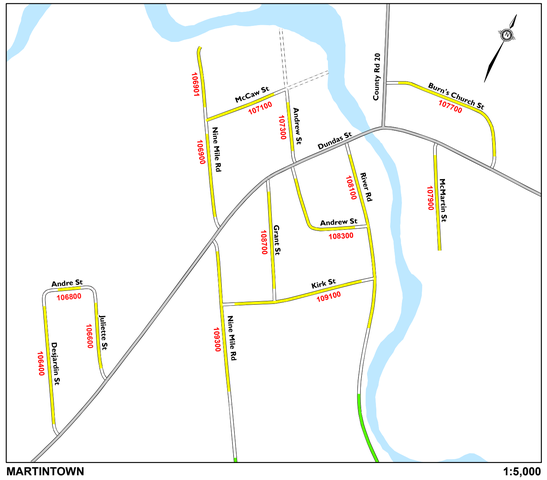


GREEN VALLEY 1:7,500

LANCASTER 1:5,000



MARTINTOWN 1:5,000

LEGEND

ROADSIDE ENVIRONMENT

- RURAL
- SEMI-URBAN
- URBAN

OTHER FEATURES

- PROVINCIAL HIGHWAY
- COUNTY ROAD
- ROAD ALLOWANCE
- PRIVATE ROAD
- RAILWAY
- MUNICIPAL BOUNDARY

NOTE:

RAILWAY CONTAINED ON THIS MAP WAS OBTAINED FROM LAND INFORMATION ONTARIO (2014) AND ARE LICENSED UNDER THE OPEN GOVERNMENT LICENSE - ONTARIO (HTTP://WWW.ONTARIO.CA/PAGE/OPEN-GOVERNMENT-LICENCE-ONTARIO#SECTION-0).

CIMA+ 4 Roads Management Services Inc.

CLIENT

SOUTH GLENGARRY Ontario's Celtic Heartland

PROJECT NAME:

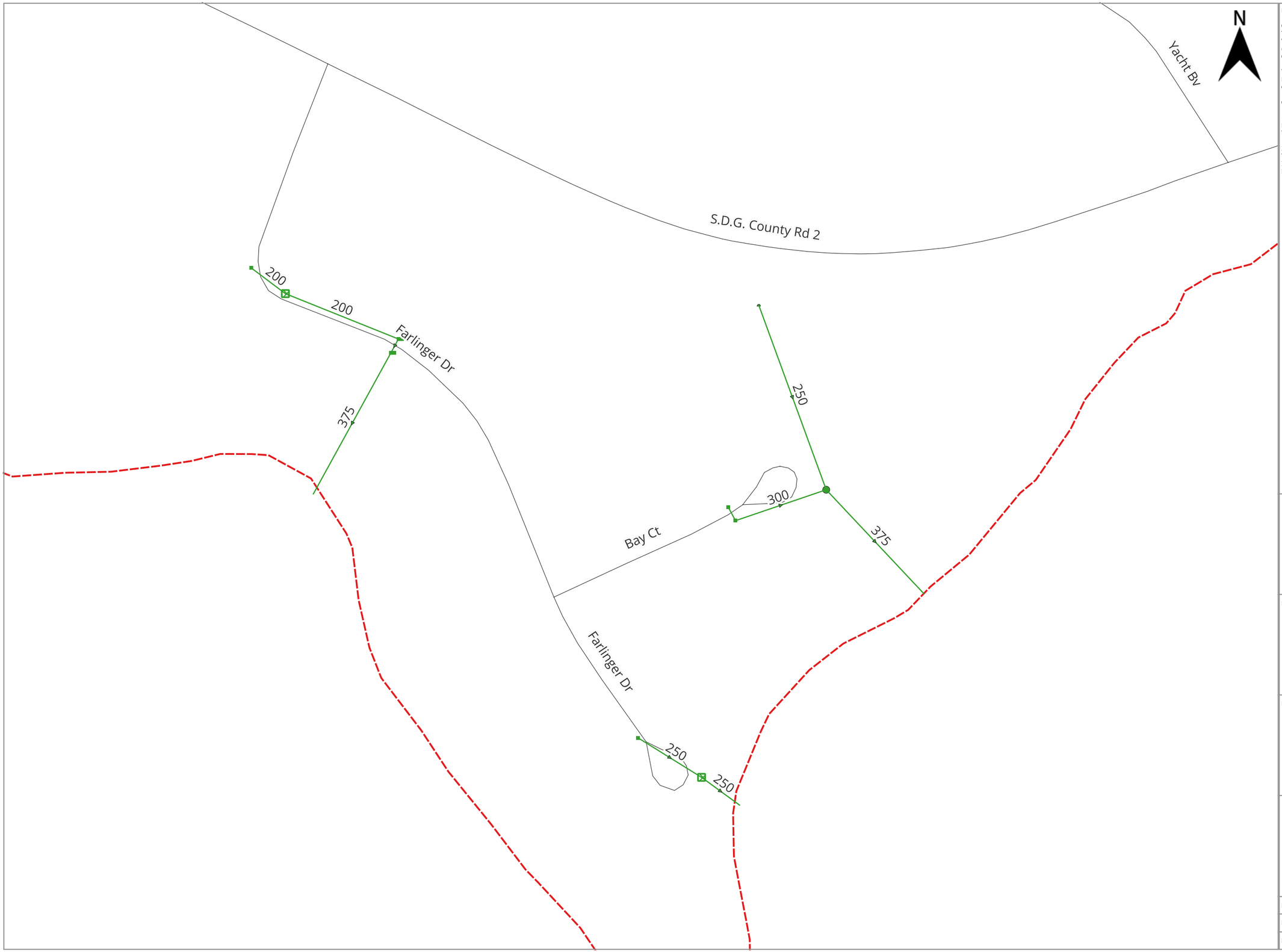
2016 ROAD NEEDS STUDY

SHEET TITLE:

ROADSIDE ENVIRONMENT URBAN AREA DETAILS

SCALE: AS NOTED

PROJECT No: C14-0116			CLIENT FILE No: ---
DRAFTER: S. ELLIOTT	DESIGNER ---		DRAWING No: 3B
APPROVER D. CAMPBELL	APPROVER ---		
DATE: 5/10/2016			SHEET No: 1 of 1



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THIS DATA IS NOT INTENDED AS SURVEY ACCURATE DATA AND SHOULD BE USED AS REFERENCE ONLY. DATA FROM THE TOWNSHIP OF SOUTH GLENGARRY.

GENERAL NOTES:

1. THE NORTH AMERICAN DATUM OF 1983 CANADIAN SPATIAL REFERENCE SYSTEM (NAD83) IS USED WITH THE UNIVERSAL TRANSVERSE MERCATOR ZONE 17N USED FOR MAP PROJECTION.

2. THIS MAP IS A GRAPHICAL REPRESENTATION WHICH APPROXIMATES THE SIZE, CONFIGURATION AND LOCATION OF FEATURES. THIS IS ONT INTENDED TO BE USED FOR LEGAL DESCRIPTION OR TO CALCULATE EXACT DIMENSIONS OR AREA.

LEGEND

- CB
- CBMH
- DCBMH
- PECB
- STMH
- OGS
- DI
- STM Sewer
- South_Glengarry_RoadNetwork
- South_Glengarry_Boundary

0 25 50 75 m

SOUTH GLENGARRY
Ontario's Celtic Heartland

Project:

TOWNSHIP OF SOUTH GLENGARRY

2024 ASSET MANAGEMENT PLAN

STORM NETWORK

Drawing Title:

GLEN WALTER

FARLINGER DRIVE & BAY COURT

SERVICING STORM

Ainley GROUP

Date:	May 02, 2024	Scale:	1:1,500
Drawn:	A. Al-Faraj	Approved:	A. Al-Faraj
Project No:	21036-17	Figure No:	03

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LEGEND

- CB
- CBMH
- PECB
- STMH
- OGS
- DI
- STM Sewer
- STM Culvert
- South_Glengarry_RoadNetwork

0 25 50 75 m

SOUTH GLENGARRY
Ontario's Celtic Heartland

Project:

TOWNSHIP OF SOUTH GLENGARRY

2024 ASSET MANAGEMENT PLAN

STORM NETWORK

Drawing Title:

LANCASTER

OAK STREET & MAPLE STREET

SERVICING STORM

Ainley GROUP

Date:	May 02, 2024	Scale:	1:1,500
Drawn:	A. Al-Faraj	Approved:	A. Al-Faraj
Project No:	21036-17	Figure No:	02

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LEGEND

- CB
- CBMH
- PECB
- STMH
- OGS
- DI
- STM Sewer
- South_Glengarry_RoadNetwork

0 50 100 150 m

SOUTH GLENGARRY
Ontario's Celtic Heartland

Project:

TOWNSHIP OF SOUTH GLENGARRY

2024 ASSET MANAGEMENT PLAN

STORM NETWORK

Drawing Title:

WILLIAMSTOWN

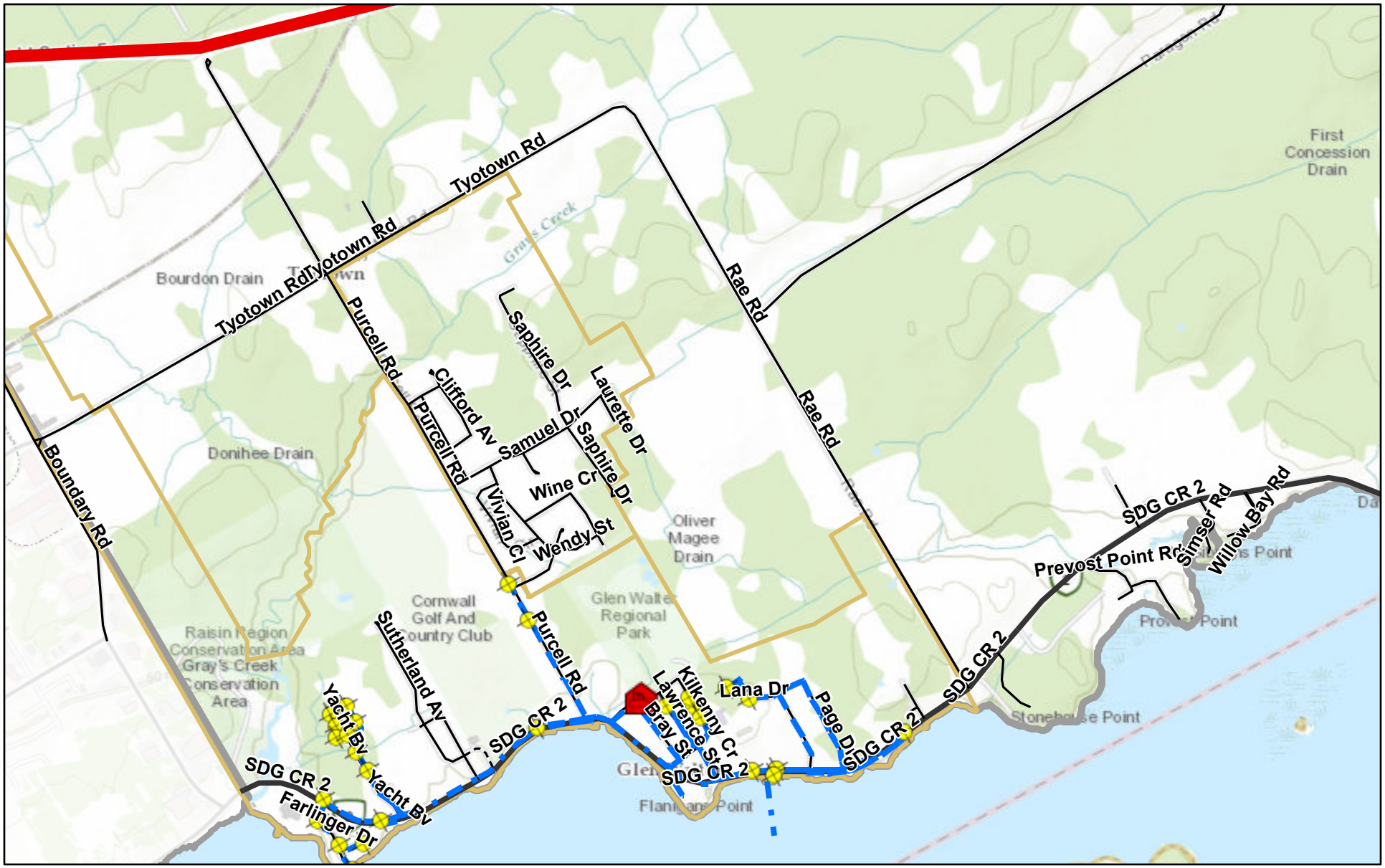
WARREN STREET & WILLIAM STREET

SERVICING STORM

Ainley GROUP

Date:	May 02, 2024	Scale:	1:3,000
Drawn:	A. Al-Faraj	Approved:	A. Al-Faraj
Project No:	21036-17	Figure No:	01

Glen_Walter_Water



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1:36,112

0 0.2 0.4 0.8 mi

0 0.35 0.7 1.4 km

Fire Hydrant

Fire Station

Water Line

Hydrant - Valve

Fire Station

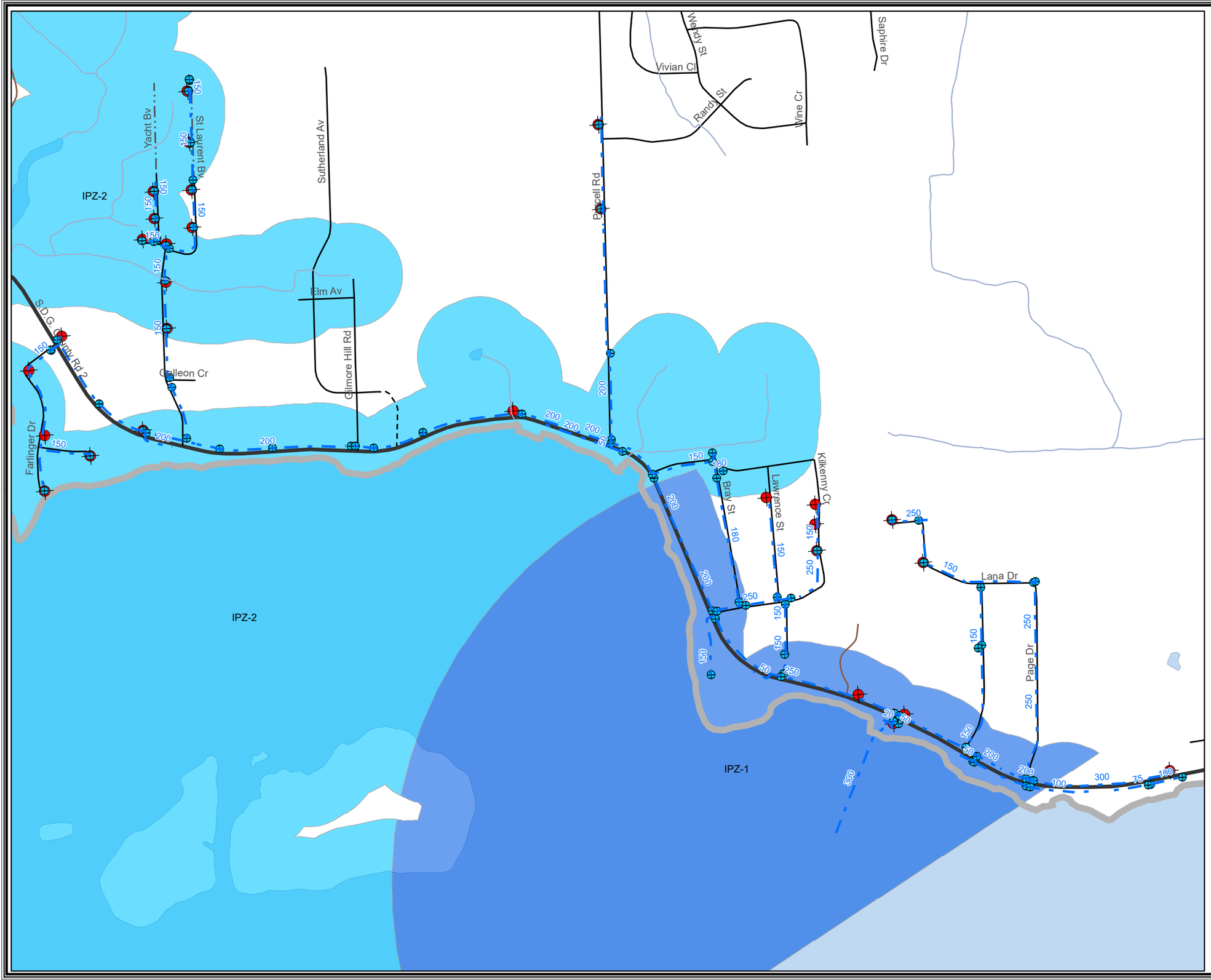
Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS,

SDG

For informational purposes only. Data is representative of location of water and sewer assets but are not survey accurate. Remember to call before you dig by to locate underground utilities by contacting ON1Call 1-800-400-2255 .

Township of South Glengarry

Servicing Glen Walter WATER



Water Line
Power Line
Oil Gas Pipeline
Railway
Water Valve
Fire Hydrant
South Glengarry Boundary
IPZ-1
IPZ-2
IPZ-3a
IPZ-3b
IPZ-3c

0 0.125 0.25 0.5 Km

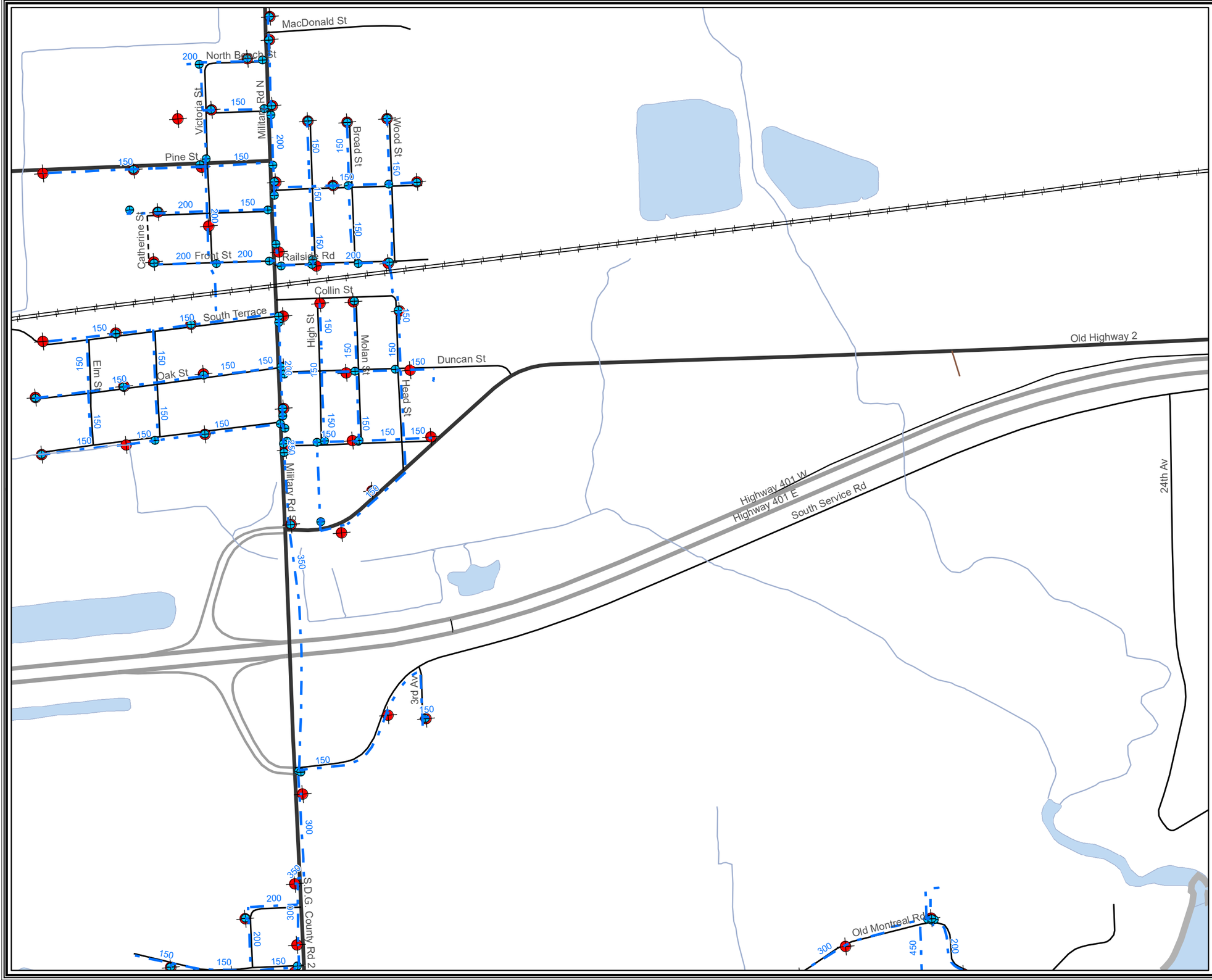
1:12,000

SOUTH GLENGARRY
Ontario's Celtic Heartland

Produce by the Corporation of the Township of South Glengarry Planning, Buidling and Enforcement Department with data supplied under Licence by Members of the Ontario Geospatial Data Exchange.

Township of South Glengarry

Servicing Lancaster WATER



- Water Line
- Power Line
- Oil Gas Pipeline
- Railway
- Water Valve
- Fire Hydrant
- South Glengarry Boundary
- IPZ-1
- IPZ-2
- IPZ-3a
- IPZ-3b
- IPZ-3c

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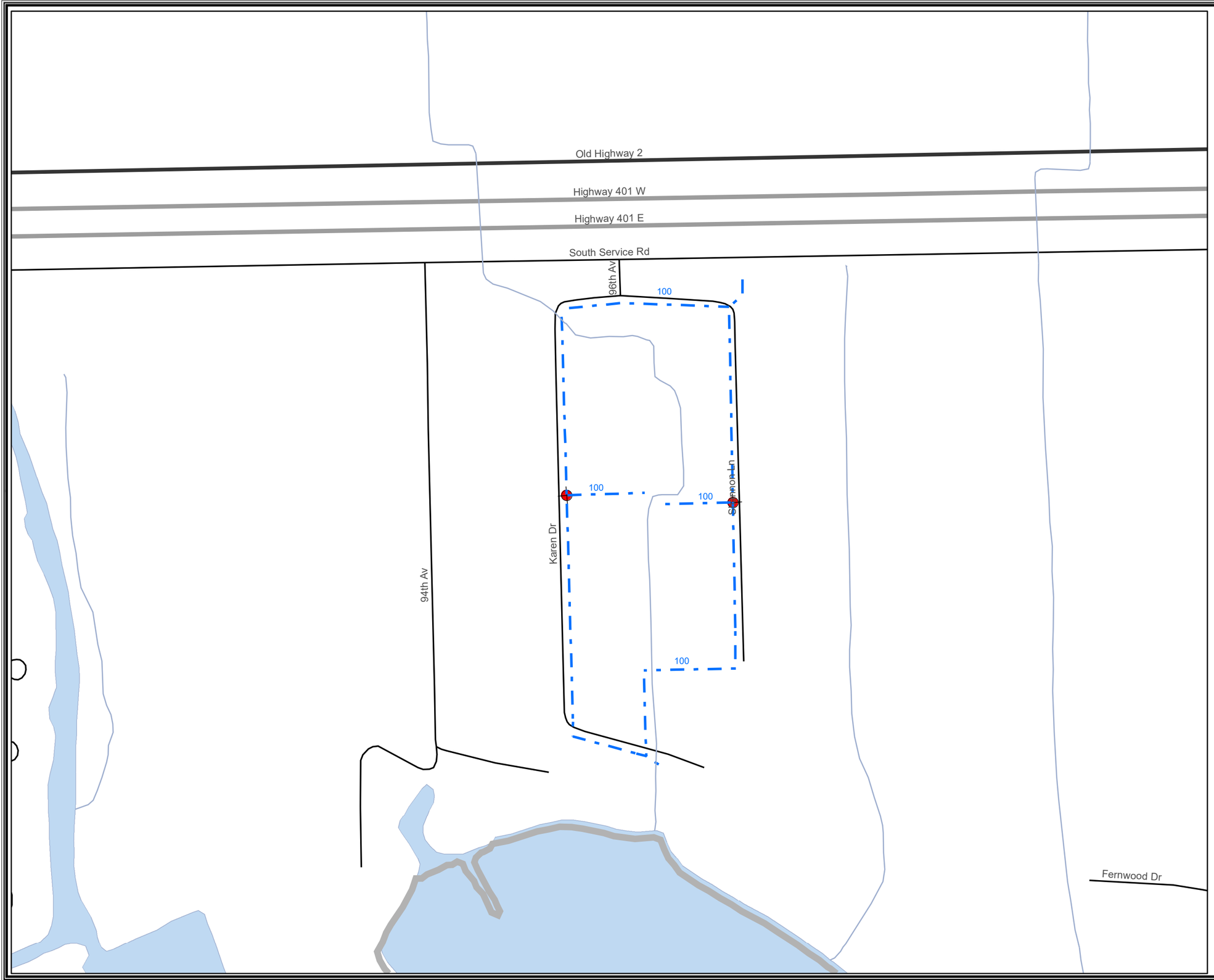
1:10,000

SOUTH GLENGARRY
Ontario's Celtic Heartland

Township of South Glengarry

Servicing Redwood Estates WATER



- Water Line
- Power Line
- Oil Gas Pipeline
- Railway
- Water Valve
- Fire Hydrant
- South Glengarry Boundary
- IPZ-1
- IPZ-2
- IPZ-3a
- IPZ-3b
- IPZ-3c

0 0.075 0.15 0.3 Km

1:5,000

SOUTH GLENGARRY
Ontario's Celtic Heartland

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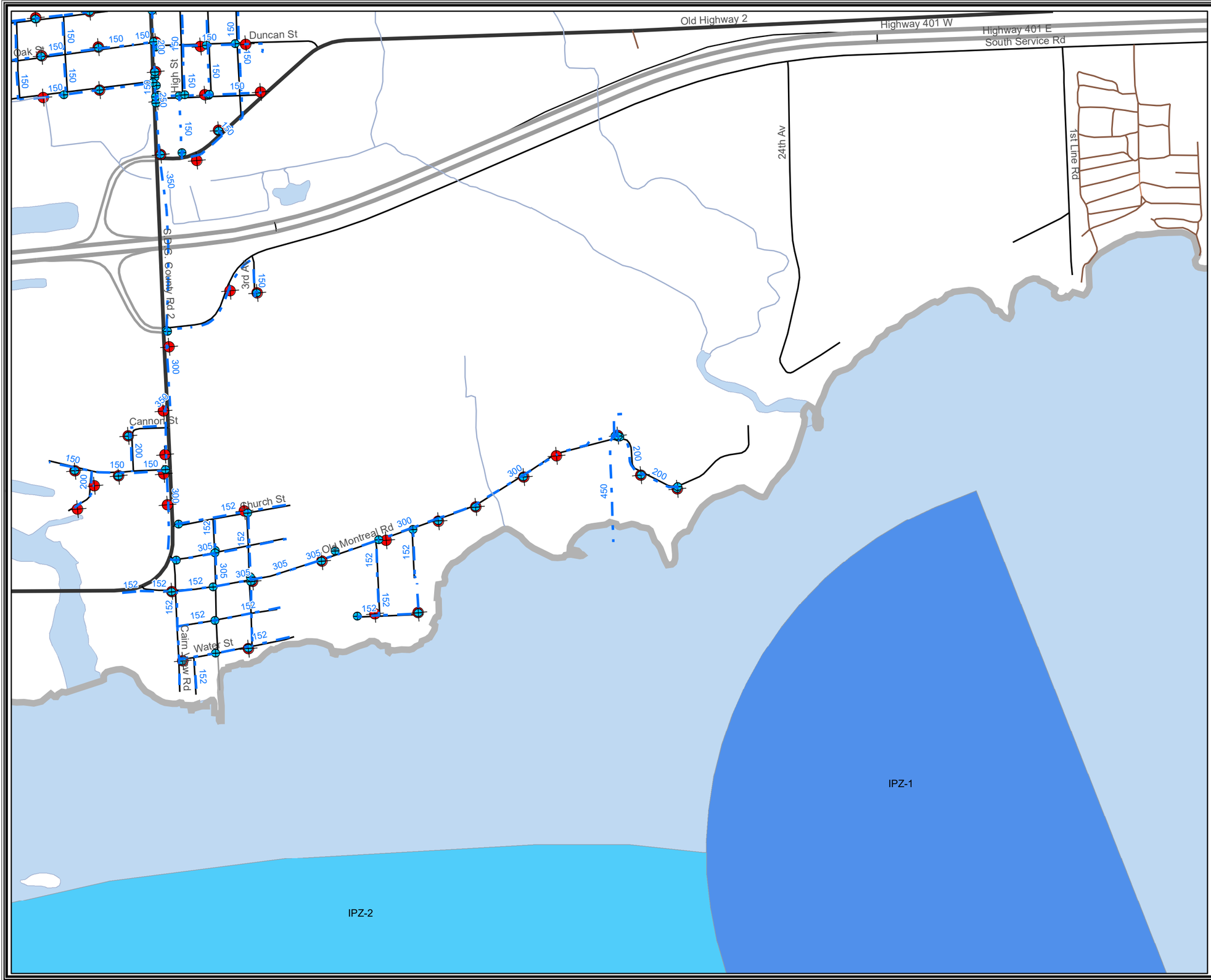
Township of South Glengarry

Servicing South Lancaster WATER



- Water Line
- Power Line
- Oil Gas Pipeline
- Railway
- Water Valve
- Fire Hydrant
- South Glengarry Boundary
- IPZ-1
- IPZ-2
- IPZ-3a
- IPZ-3b
- IPZ-3c

0 0.25 0.5 1 Km

1:14,000

SOUTH GLENGARRY
Ontario's Celtic Heartland

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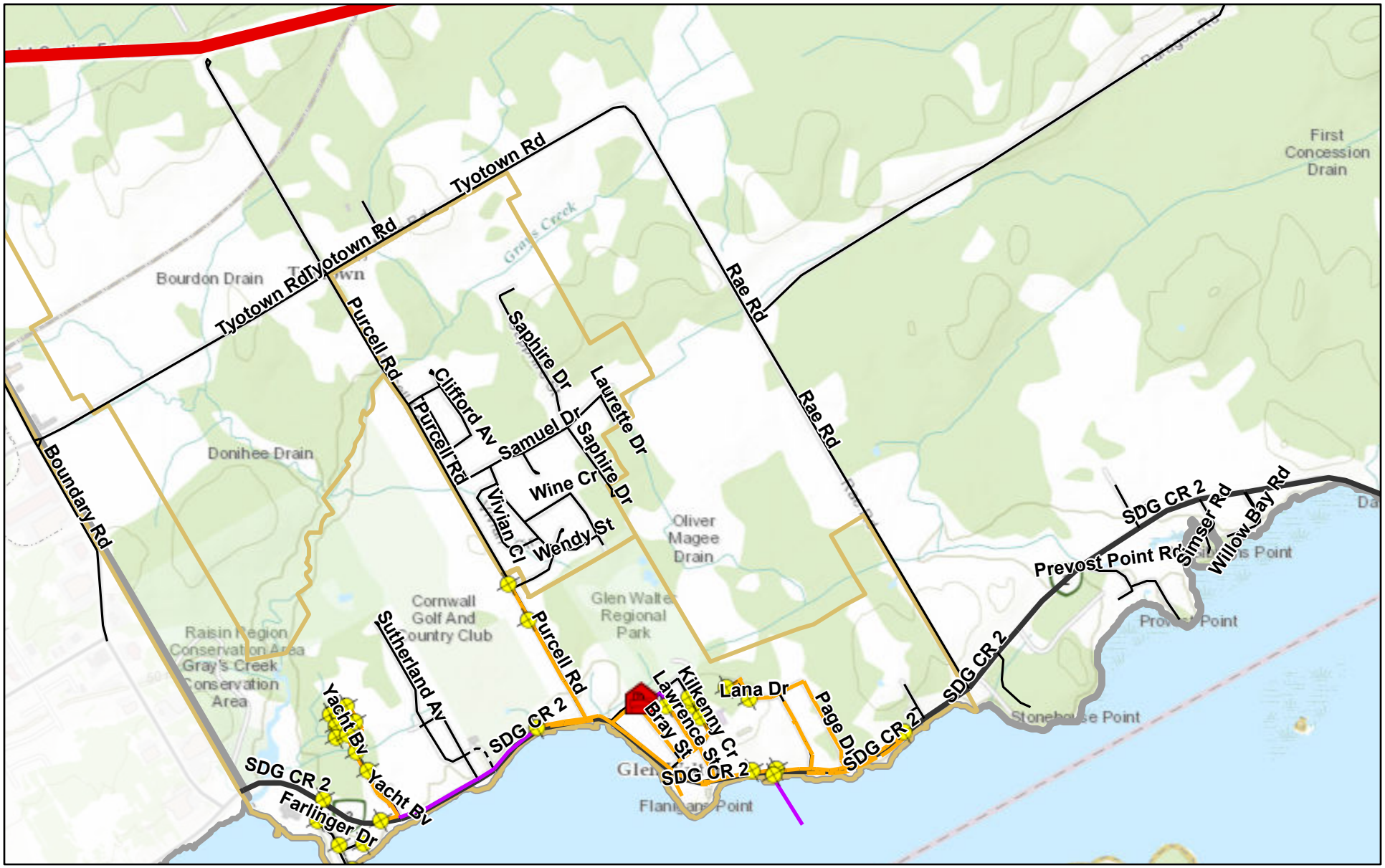
Glen_Walter_Wastewater



12/5/2019, 8:55:04 AM

1:36,112

0 0.2 0.4 0.8 mi

0 0.35 0.7 1.4 km

Fire Hydrant

Hydrant - Valve

Fire Station

Fire Station

Sewer Line

Gravity

Forcemain

Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS,

SDG

For informational purposes only. Data is representative of location of water and sewer assets but are not survey accurate. Remember to call before you dig by to locate underground utilities by contacting ON1Call 1-800-400-2255 .

Township of South Glengarry

Servicing Glen Walter

- South Glengarry Stations
- Power Line
- Oil Gas Pipeline
- Railway
- Gravity Fed
- Forcemain
- South Glengarry Boundary
- IPZ-1
- IPZ-2
- IPZ-3a
- IPZ-3b
- IPZ-3c

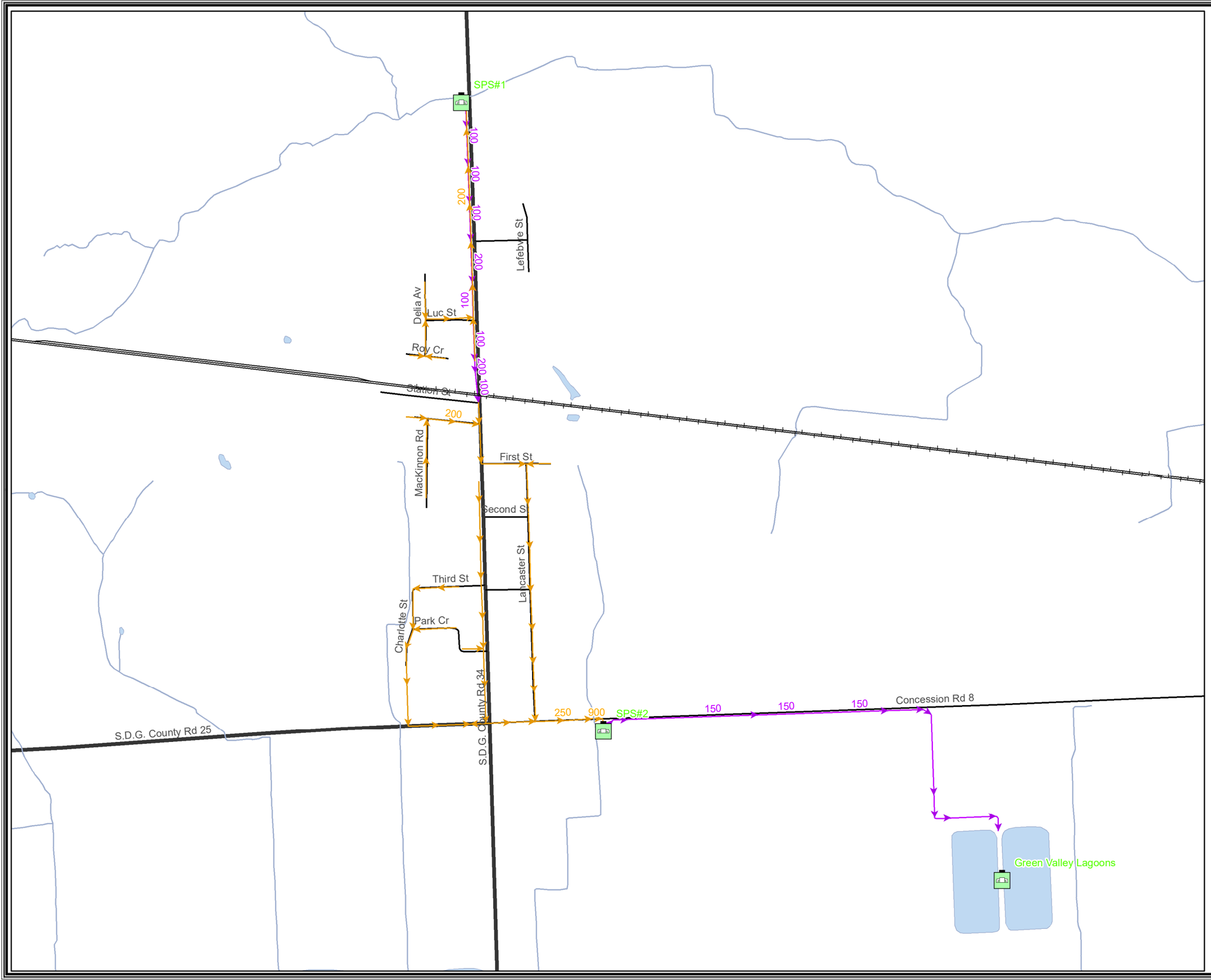
0 0.125 0.25 0.5 Km

1:12,000

SOUTH GLENGARRY
Ontario's Celtic Heartland

Township of South Glengarry

Servicing Green Valley



- South Glengarry Stations
- Power Line
- Oil Gas Pipeline
- Railway
- Gravity Fed
- Forcemain
- South Glengarry Boundary
- IPZ-1
- IPZ-2
- IPZ-3a
- IPZ-3b
- IPZ-3c

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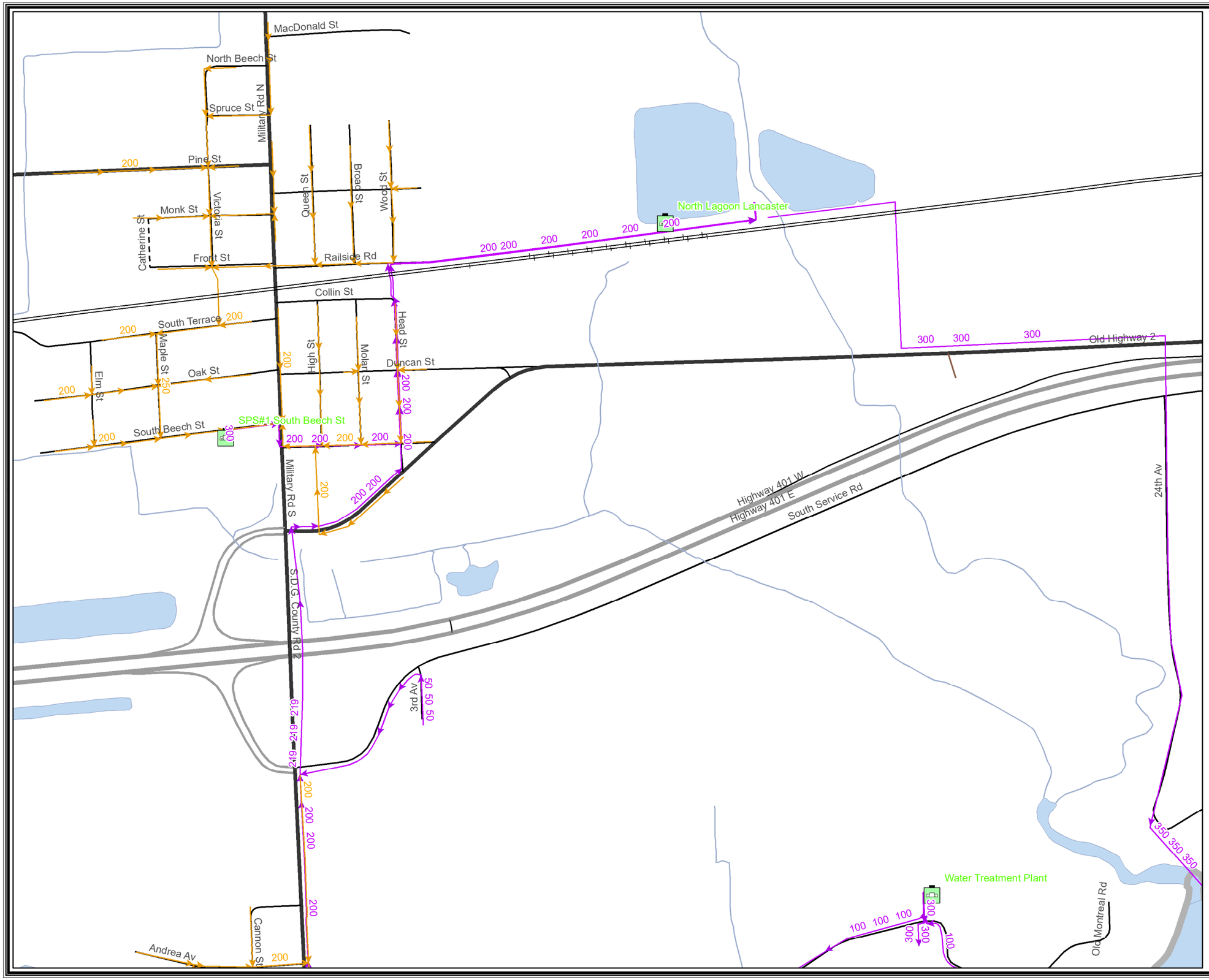
1:14,000

SOUTH GLENGARRY
Ontario's Celtic Heartland

Township of South Glengarry

Servicing Lancaster



South Glengarry Stations

Power Line

Oil Gas Pipeline

Railway

Gravity Fed

Forcemain

South Glengarry Boundary

IPZ-1

IPZ-2

IPZ-3a

IPZ-3b

IPZ-3c

0 0.175 0.35 0.7 Km

1:10,000

SOUTH GLENGARRY
Ontario's Celtic Heartland

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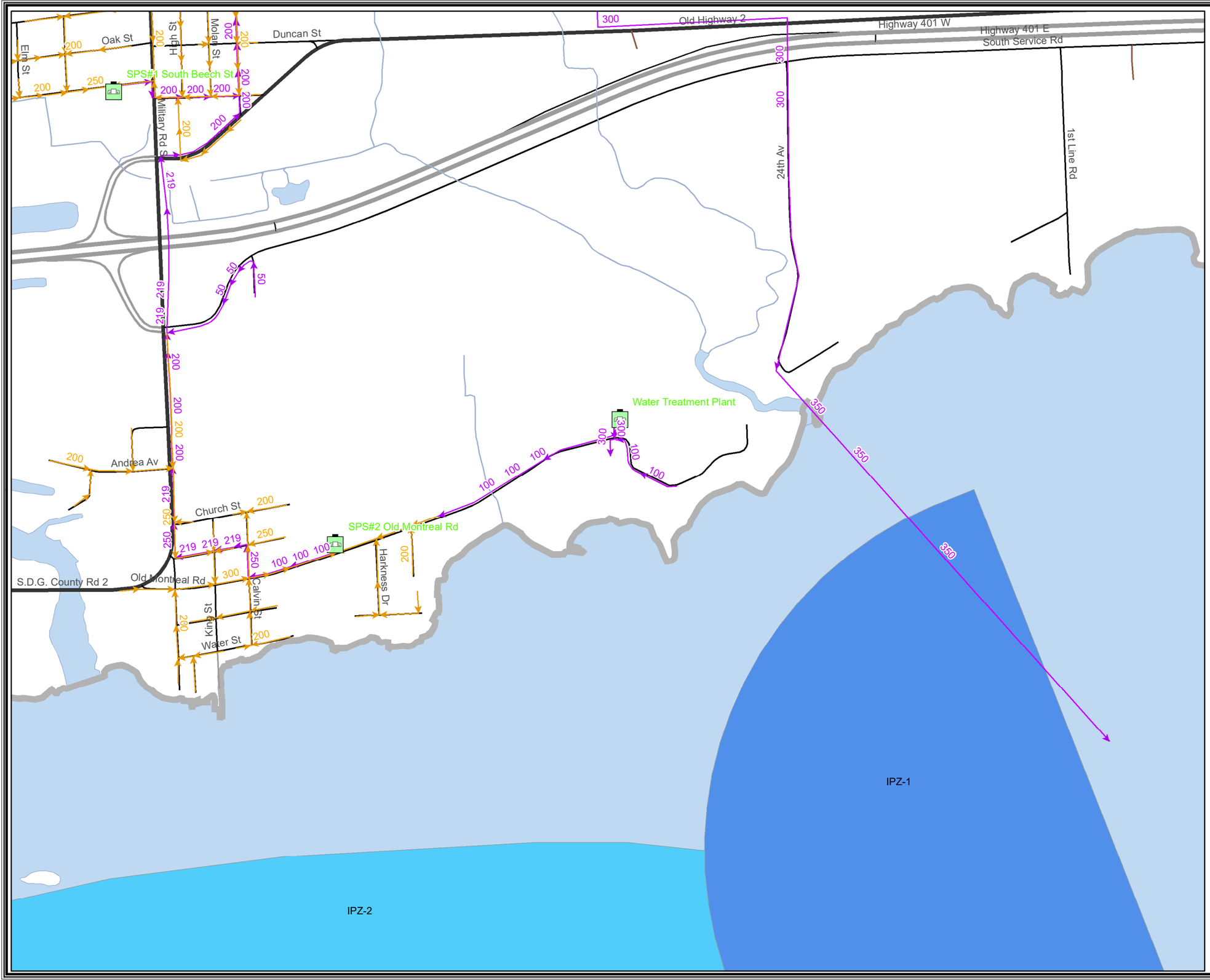
Township of South Glengarry

Servicing South Lancaster



South Glengarry Station

Power Line

Oil Gas Pipeline

Railway

Gravity Fed

Forcemain

South Glengarry Boundary

IPZ-1

IPZ-2

IPZ-3a

IPZ-3b

IPZ-3c

0 0.25 0.5 1 Km

1:14,000

SOUTH GLENGARRY
Ontario's Celtic Heartland

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SOUTH GLENGARRY

Asset Management Plan

Appendix C: 10-Year Capital Plan

Date: June 2024

Version 2.0

www.southglengarry.com

	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	10-Year Reqs
Roads	$ 714,636.00	$ 540,560.00	$ 471,885.00	$ 601,314.00	$ 391,314.00	$ 391,314.00	$ 391,314.00	$ 388,199.00	$ 455,626.50	$ 311,300.00	**$ 4,657,462.50**
Bridges	$ 2,532,000.00	$ 1,754,000.00	$ 765,000.00	$ 1,481,000.00	$ 226,000.00	$ 2,050,000.00	$ 2,209,000.00	$ 579,000.00	$ 1,592,000.00	$ 1,416,000.00	**$ 14,604,000.00**
Stormwater	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	**$ -**
Fleet	$ 790,000.00	$ 500,000.00	$ 680,000.00	$ 350,000.00	$ 490,000.00	$ -	$ 480,000.00	$ 100,000.00	$ 380,000.00	$ 300,000.00	**$ 4,070,000.00**
Facilities	$ 825,743.00	$ 1,307,475.50	$ 2,500,985.10	$ 607,428.20	$ 436,037.00	$ 6,035,354.60	$ 970,826.10	$ 435,760.00	$ 191,489.90	$ 1,419,100.00	**$ 14,730,199.40**
Wharfs	$ -	$ 1,500,000.00	$ 105,000.00	$ 1,500,000.00	$ -	$ -	$ -	$ -	$ -	$ -	**$ 3,105,000.00**
Trails	$ 11,000.00	$ 49,000.00	$ 499,000.00	$ -	$ 1,392,000.00	$ -	$ -	$ -	$ -	$ -	**$ 1,951,000.00**
Parks	$ 100,000.00	$ -	$ -	$ -	$ -	$ 60,000.00	$ -	$ -	$ -	$ 260,000.00	**$ 420,000.00**
Total	**$ 4,973,379.00**	**$ 5,651,035.50**	**$ 5,021,870.10**	**$ 4,539,742.20**	**$ 2,935,351.00**	**$ 8,536,668.60**	**$ 4,051,140.10**	**$ 1,502,959.00**	**$ 2,619,116.40**	**$ 3,706,400.00**	**$ 43,537,661.90**

	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	10-Year Reqs
Water	$ 121,123.00	$ 2,782,095.83	$ 33,765.00	$ 200,508.33	$ 23,057,515.00	$ 1,337,512.85	$ 3,367,328.68	$ 306,312.00	$ 154,864.74	$ 33,915.00	**$ 31,394,940.43**
Wastewater	$ 202,189.90	$ 27,754,733.01	$ -	$ 103,082.34	$ 438,195.65	$ 202,084.00	$ 2,383,892.31	$ 95,719.11	$ 1,092.00	$ 387,200.00	**$ 31,568,188.32**
Total	**$ 323,312.90**	**$ 30,536,828.83**	**$ 33,765.00**	**$ 303,590.67**	**$ 23,495,710.65**	**$ 1,489,596.85**	**$ 5,701,220.99**	**$ 402,031.11**	**$ 155,956.74**	**$ 421,115.00**	**$ 62,963,128.75**

10-Year Road Capital Plan (2022)

Asset Id	Road	From	To	Description	PCI/SC	Require Geotech		Length (km	Cost/km	Cost	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033
200200	MacDonald Road	Kenyon Concession	Dead End	Road to service property (need to determine Township's obligations to complete the work)				0.085		$36,922										
105100	Cemetry Road	SDG #18	North Branch Ro	Pulverize plus add 150mm granular material plus double surface treatment and fog seal	69	y	Upgrade	2.280	$113,000	$257,640										
105500	North Branch Rd	SDG #20	South Stormont B	Pulverize plus add 150mm granular material plus double surface treatment and fog seal	67	y	Upgrade	4.960	$113,000	$560,480										
407700	Celtic Lane	South Terrace Rd	Dead End	Asphalt Grindings Existing	46		Downgrade	1.347		$15,596										
503100 503	2nd Line Rd	SDG#18	SDG #25	Asphalt Reconstruction	59,79,80	y	Asphalt	6.610		$675,000	$337,500	$337,500								
201500	Glen Roy Rd	SDG#25	Kenyon Concess	Pulverize plus add 150mm granular material plus double surface treatment and fog seal	63		Upgrade	2.150	$113,000	$242,950										
103701	Chapel Rd	Neville Rd	SDG # 18	Asphalt Reconstruction	73	y	Asphalt	3.113	$300,000	$933,900										$311,300
502100	Concession #4	SDG#34	1st Line Road	Pulverize existing plus double surface treatment and fog seal	83		DST	2.715	$73,500	$199,553										
502101	Concession #4	1st Line Rd	SDG#26	Pulverize existing plus double surface treatment and fog seal	80		DST	2.234	$73,500	$164,199								$164,199		
502200	Concession #4	SDG#26	3rd Line Rd	Pulverize existing plus double surface treatment and fog seal	78		DST	2.882	$73,500	$211,827										
206700	Beaverbrook Rd	Landfill	Chapel Rd	Pulverize plus add 150mm granular material plus double surface treatment and fog seal	66		Upgrade	1.190	$130,000	$154,700										
105900	Beaverbrook Rd	Chapel Rd	SDG #20	Pulverize existing plus double surface treatment and fog seal	73		DST	4.271	$73,500	$313,919										
504300 504	Concession Rd 8	SDG #34	1st Line Road	Asphalt Reconstruction	80		Asphalt	1.500	$130,000	$195,000								$195,000		
401300	Warren Street			Asphalt Existing (Williamstown)	51	y		0.350	$130,000	$45,500										
401700	Middle Street			Asphalt Existing (Williamstown)	27	y		0.080	$300,000	$24,000										
401900	Bethune Street			Asphalt Existing (Williamstown)	39	y		0.080	$300,000	$24,000										
311700	Sabourin Dr.	SDG #2	Dead End	Asphalt Existing (Glen Walter)	39	y		0.190	$300,000	$57,000										
311900	Anderson Dr.	Sabourin Dr.	Dead End	Asphalt Existing (Glen Walter)	43	y		0.060	$300,000	$18,000										
305300	Oak Drive			Asphalt Reconstruction (Glendale Subdivisio	53	y		0.352	$937,500	$330,000										
305500	Rene St.			Asphalt Reconstruction (Glendale Subdivisio	53	y		0.245	$130,000	$31,850										
306100	Willow St	Patrick St	Oak St	Asphalt Reconstruction (Glendale Subdivisio	57	y		0.354	$130,000	$46,020										
305101 305	Poirier Ave			Overlay (Glendale Subdivision)	55			0.557	$130,000	$72,410										
306301	Huron St			Overlay (Glendale Subdivision)	52			0.922	$13,000	$11,986										
307000	Vine St			Overlay (Glendale Subdivision)	53			0.366	$130,000	$47,580										
602000	Park St			Overlay (Glendale Subdivision)	61			0.304	$130,000	$39,520										
307300	Hickory St			Overlay (Glendale Subdivision)	55			0.376	$130,000	$48,880										
315300	Clifford Street			Asphalt Reconstruction (Bayview Estates)	45	y		0.353	$300,000	$105,900										
315100	Laura St			Overlay (Bayview Estates)	57	y		0.234	$130,000	$30,420										
500600	Marlene St			Overlay (Bayview Estates)	51			0.450	$130,000	$58,500										
	Lancaster	NW			40-50	y		1.015	$130,000	$131,950										
	Lancaster	NE			39-58	y		1.100	$130,000	$143,000										
	Lancaster	SW			28-66	y		1.269	$130,000	$164,970										
	Lancaster	SE			41-60	y		1.100	$130,000	$143,000										
	Green Valley	East				y		1.386	$130,000	$180,180										
	Green Valley	West				y		1.514	$130,000	$196,820										
	South Lancaster	All				y		4.497	$130,000	$584,610										
210300 & 2	Heron	Peanut Line	Co Rd 27	Granular	74	y	DST	4.491	$73,500	$330,089										
	Heron			Culverts 18@14m				252.000	$400											
110900	MacGillivary	Kirk Street	Cty Rd 27	Gravel Road		y		5.936	$45,000	$267,120										
	MacGillivary			Culverts 25@14m				450.000	$400											
407900	Airport Rd	Cty Rd #27	Lot 7/8	Asphalt	88		Asphalt	2.863	$130,000	$372,190			$372,190							
408300 B	Airport Rd	700m north of Lot7/8	Fraser Rd	Granular			DST	2.353	$73,500	$172,946									$172,946	
408300 A	Airport Road	Lot 7/8	700m north of Lo	Granular		Y	Asphalt	0.700	$300,000	$210,000				$210,000						
408701	Fraser	Airport Rd	North of CN	Asphalt	88	Y	Asphalt	1.202	$300,000	$360,600										
408700 & 4	Fraser	Co RD 2	Loyalist - 408701		66	y	DST	3.846	$73,500	$282,681	$282,681								$282,681	
300600	Glen Brook	Glen Rd	Cty Rd #19	Double Surface Treatment + fog seal		y	DST	2.099	$45,000	$94,455	$94,455									
110100	Glen Falloch	SS Boundary	Cty Rd #20	Double Surface Treatment + fog seal		y	DST	1.571	$45,000	$70,695			$70,695							
500100 500	South Service Road	SDG 34	SDG 23	extra lift of asphalt	84 91		Asphalt	11.616	$134,750	$1,565,256				$391,314	$391,314	$391,314	$391,314			
308500 308	Tyotown Road	Boundary Rd	Purcell Rd	extra lift of asphalt	82 90		Asphalt	1.562	$130,000	$203,060		$203,060								
313501 313	Purcell Road	SDG # 2	Tyotown Rd	(1km has double lift of asphalt, do remainder	80 60		Asphalt	1.727	$130,000	$224,510										
				ROAD NEEDS STUDY									$24,000					$24,000		
				SAFE SIDEWALKS STUDY									$5,000					$5,000		
											$714,636	$540,560	$471,885	$601,314	$391,314	$391,314	$391,314	$388,199	$455,627	$311,300

10-Year Bridge Capital Plan

Adopted June 27, 2024

Asset ID	Bridge	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033
30001	Tyotown Road, Donihee Drain Culvert										
	Maintenance	$1,000	$1,000								
30002	Purcell Road, Gray's Creek Culvert										
	Construction					$4,000					
	Planning Study		$25,000								
	Maintenance	$4,000	$24,000								
30003	Kinloch Road (Twin 4m SPCSP), Lauzon Bridge Culvert										
	Replacement	$2,148,000									
	Minor Rehabilitation					$51,000					
	Maintenance	$3,000									
30004	Cemetery Road, North Island Bridge (3-span Thin Slab)										
	Major Rehabilitation								$168,000		
	Maintenance	$1,000	$10,000								
30005	Cemetery Road, North Island Bridge										
	Minor Rehabilitation			$61,000							
	Maintenance	$5,000	$4,000								
30006	North Branch Road, Pilon LaCroix Drain										
	Minor Rehabilitation					$1,000					
	Maintenance	$3,000	$8,000								
30007	Robertson Road, Pilon LaCroix Drain										
	Maintenance	$1,000									
30008	Rae Road, Oliver Magee Drain										
30009	Rae Road, Oliver Magee Drain										
	Maintenance	$1,000									
30010	Glen Road, Gray's Creek Culvert (3m Span)										
30011	Cashion Road, Cashion Bridge (15.2m Thin Slab)										
	Major Rehabilitation		$213,000								
	Maintenance		$1,000								
30013	Nine Mile Road, Glen Faloch Drain										
	Maintenance	$1,000									
30014	McGillivray Road, Glen Faloch Drain										
	Replacement										$606,000
	Maintenance	$1,000									
30015	Glen Brook Road, Glen Brook Bridge										
	Major Rehabilitation								$9,000		
	Maintenance	$1,000									
30016	Squire Road, Beaudette River (twin 3.6m SPCSP)										
	Replacement						$2,050,000				
	Minor Rehabilitation			$51,000							
	Monitoring Deformations, Settlements and Movements		$2,000								
	Maintenance	$3,000									
30017	Squire Road, Beaudette River (twin 3.6m SPCSP)										
	Replacement							$2,209,000			
	Minor Rehabilitation			$52,000							
	Monitoring Deformations, Settlements and Movements		$2,000								
	Maintenance	$3,000									
30018	Chapel Road, Chapel Road Bridge (3-span)										
	Major Rehabilitation	$146,000									
	Maintenance	$1,000									
30019	Glen Donald Rd, Spring Creek Bridge (3m Culvert)										
	Maintenance	$2,000	$15,000								
30020	Spring Creek Rd, Spring Creek Bridge (4.1m SPCSPA)										
	Replacement										$242,000
	Maintenance	$4,000									
30021	Airport Road, Don McLennan Drain										
	Replacement									$1,068,000	
	Maintenance	$1,000									
30022	Kraft Road, Raisin River										
	Minor Rehabilitation				$30,000						

	Maintenance	$8,000									
30023	Glen Roy Rd, Glen Roy Bridge (15.2m Box)										
	Maintenance	$2,000	$4,000								
30024	Glen Roy Rd, Glen Roy Bridge (3.1m Culvert)										
	Minor Rehabilitation				$4,000						
	Maintenance	$4,000	$32,000								
30025	Finney Bridge, Raisin River										
	Minor Rehabilitation				$10,000						
	Maintenance	$8,000	$1,000								
30026	Frog Hollow Rd (3-span Box)										
	Major Rehabilitation		$236,000								
	Structure Evaluation		$40,000								
	Maintenance	$8,000									
30027	Cedar Grove Road, Woods Drain (4.8m culvert)										
	Minor Rehabilitation								$1,000		
	Maintenance	$1,000									
30028	Fallow Field Road, Finney Creek Bridge										
	Maintenance		$1,000								
30030	Concession 2 Road, Finney Creek										
	Major Rehabilitation		$16,000								
	Minor Rehabilitation								$1,000		
	Maintenance	$1,000									
30031	Little 5th Road, Sutherland Creek										
	Maintenance	$1,000									
30032	South Service Rd, Finney Creek										
30033	1st Line Rd, Beaudette River (21.5m Thin Slab)										
	Maintenance	$3,000									
30034	Concession 7 (4.3m Culvert)										
	Minor Rehabilitation				$1,000						
	Maintenance	$1,000									
30035	1st Line Rd (3.6m Culvert)										
	Maintenance	$1,000	$4,000								
30036	1st Line Rd (3.3m SPCSPA)										
	Replacement		$419,000								
	Maintenance	$2,000									
30037	1st Line Road										
	Maintenance	$1,000									
30038	South Service Road										
	Maintenance	$1,000									
30039	South Service Rd, Wesley Creek (8.6m Span)										
	Minor Rehabilitation				$5,000						
	Major Rehabilitation								$9,000		
	Maintenance	$2,000	$12,000								
30040	South Service, Wesley Creek										
	Maintenance	$1,000									
30041	Roy's Road, Wesley Creek										
30042	Concession Road 3, Sutherland Creek										
	Minor Rehabilitation				$22,000						
	Maintenance	$21,000	$1,000								
30043	2nd Line Rd, Beaudette River (15m Box)										
	Major Rehabilitation				$140,000						
	Maintenance	$22,000									
30044	2nd Line Rd, Delisle River (28.5m Thin Slab)										
	Minor Rehabilitation	$80,000									
	Maintenance	$6,000	$1,000								
30045	South Service Road										
	Maintenance	$1,000	$5,000								
30046	Roy's Road, Sutherland Creek										
	Maintenance	$3,000									
30047	Roy's Rd (3.6m Culvert)										
	Minor Rehabilitation				$1,000						
	Planning Study		$25,000								
30048	Concession 3 Road, Filion Drain										

30049	Concession 4 Road										
30051	3rd Line Road, Sutherland Creek										
	Maintenance	$3,000	$4,000								
30052	Roy's Road										
	Replacement									$524,000	
30053	3rd Line Road, Beaudette River										
	Minor Rehabilitation				$2,000				$1,000		
	Maintenance	$4,000	$38,00								
30054	3rd Line Road, Delisle River										
	Major Rehabilitation		$192,000								
	Structure Evaluation		$40,000								
	Maintenance	$2,000	$2,000								
30055	3rd Line Road,										
	Replacement								$390,000		
	Maintenance	$2,000									
30056	South Service Road, Sutherland Creek										
	Major Rehabilitation				$1,200,000						
	Structure Evaluation		$40,000								
	Planning Study		$25,000								
	Maintenance	$3,000	$5,000								
30057	Concession 2 Road, Sutherland Creek										
	Detailed Deck Conditions Survey		$6,000								
30058	North Service Road, Gunn Creek										
	Maintenance	$1,000	$1,000								
30059	North Service Road, Wood Creek										
	Major Rehabilitation		$176,000								
	Maintenance	$1,000	$161,000								
30060	Concession 2 Road, Woods Drain										
	Major Rehabilitation				$66,000						
	Maintenance	$3,000									
30061	Concession 3 Road										
	Replacement			$601,000							
30062	1st Line Road, 1st Line Bridge										
	Replacement										$568,000
	Maintenance	$2,000									
30063	Loyalist Road, Loyalist Rd Bridge										
	Maintenance	$3,000									
30064	1st Line Road										
Roadside Safety Study for 34 Structures						$170,000					
	Re	**$2,532,000**	**$1,754,000**	**$765,000**	**$1,481,000**	**$226,000**	**$2,050,000**	**$2,209,000**	**$579,000**	**$1,592,000**	**$1,416,000**
		2024	**2025**	**2026**	**2027**	**2028**	**2029**	**2030**	**2031**	**2032**	**2033**

Department	Unit Number	Year	Vehicle Make	Vehicle Model	Estimated Replacement Cost	Age Based Replacement Year	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033
Roads	1	2010	Caterpillar	Grader, 140M AWD	$ 650,000.00	2035										
Roads	2	1994	Champion	Grader, 740	$ 650,000.00	2019	$ 650,000.00									
Roads	3	2009	Dodge	3500 1-Ton	$ 110,000.00	2024	$ 110,000.00									
Roads	5	2006	GMC	2500 1-Ton	Replaced, still in-service	NA										
Roads	6	2022	John Deere	Tractor, 6110 M	(Lease)	2022										
Roads	8	2016	International	Workstar	$ 380,000.00	2034										
Roads	9	2023	Freightliner	114SD	$ 380,000.00	2041										
Roads	10	2014	Mack	GU713	$ 380,000.00	2032									$ 380,000.00	
Roads	11	2008	Ford	Sterling	$ 380,000.00	2026			$ 380,000.00							
Roads	13	2004	International	7600	$ 380,000.00	2022	$ 380,000.00									
Roads	14	2012	International	Workstar	$ 380,000.00	2030							$ 380,000.00			
Roads	15	2010	International	Workstar	$ 380,000.00	2028					$ 380,000.00					
Roads	17	2018	Chevrolet	Silverado, ½ Ton	$ 100,000.00	2030							$ 100,000.00			
Roads	18	2022	GMC	2500, 3/4 Ton	$ 110,000.00	2037										
Roads	19	2021	Chevrolet	Silverado, ½ Ton	$ 100,000.00	2033										$ 100,000.00
Roads	20	2009	GMC	Sierra, 1/2 Ton	Replaced, still in-service	NA										
Roads	21	2022	Chevrolet	Silverado, ½ Ton	$ 100,000.00	2034										
Roads	22	2018	Chevrolet	Colorado	$ 100,000.00	2030								$ 100,000.00		
Roads	23	2021	Freightliner	DD13 435 HP	$ 380,000.00	2039										
Roads	24	2002	Caterpillar	Backhoe, 420	Replaced, still in-service	NA										
Roads	27	2021	Freightliner	Single Axle, M2	$ 380,000.00	2039										
Roads	30	2023	Caterpillar	Backhoe, 420-07	$ 255,000.00	2043										
Waste & Recycling	32	1996	Caterpillar	816F	$ 350,000.00	2021				$ 350,000.00						
Roads	33	2019	International	HX 245 HP	$ 380,000.00	2037										
Roads	34	2011	John Deere	Loader, 724K		2036										
Roads	35	2016	Trackless	MT6	$ 200,000.00	2026			$ 200,000.00							
Recreation	61	2013	GMC	2500, 1-Ton	$ 110,000.00	2028					$ 110,000.00					
Recreation	62	1997	Kubota	LA480		1997										
Recreation	63	2021	Chevrolet	Silverado, ½ Ton	$ 100,000.00	2033										$ 100,000.00
Recreation	64	2021	Chevrolet	Silverado, ½ Ton	$ 100,000.00	2033										$ 100,000.00
Recreation	65	2019	Kubota	RTX 1100	$ 100,000.00	2019										
Recreation	66	2010	Kubota	LA480	$ 100,000.00	2010										
Planning	90	2013	Chevrolet	Silverado, ½ Ton	Replaced, still in-service	NA										
Planning	91	2022	Chevrolet	Silverado, ½ Ton	$ 100,000.00	2034										
Fire	P1	2018	Spartan	Metrostar	$ 600,000.00	2038										
Fire	P2	2022	Freightliner	M2 106	$ 500,000.00	2042										
Fire	P3	2022	Freightliner	M2 106	$ 500,000.00	2042										
Fire	P4	2020	Spartan	Metrostar	$ 600,000.00	2040										
Fire	P5	2001	GMC		$ 500,000.00	2025		$ 500,000.00								
Fire	T1	1997	GMC	C8500	$ 450,000.00	2023										
Fire	T2	2015	International	7600	$ 450,000.00	2035										
Fire	T3	2022	International	HV607	$ 450,000.00	2042										
Fire	T4	2019	International	7500	$ 450,000.00	2039										
Fire	T5	2016	International	7500	$ 450,000.00	2036										
Fire	R1	1994	International	4700	$ 300,000.00	2024	$ 300,000.00									
Fire	R2	2000	Ford	E450	$ 100,000.00	2020										
Fire	R4	2014	Spartan	Metrostar	$ 600,000.00	2034										
Fire	R5	2000	Ford	E450	$ 100,000.00	2020										
Fire	UTV3	2013	Polaris		$ 50,000.00	NA										
Fire	U1	2014	Chevrolet	Silverado, ½ Ton	$ 100,000.00	2026			$ 100,000.00							
Fire	U2	2022	Ford	F-150	$ 100,000.00	2034										
						Total	**$ 790,000.00**	**$ 500,000.00**	**$ 680,000.00**	**$ 350,000.00**	**$ 490,000.00**	**$ -**	**$ 480,000.00**	**$ 100,000.00**	**$ 380,000.00**	**$ 300,000.00**

Asset Category	Asset Name	CRV (no site works)	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033
Admininistation	TOSG - Township Hall	$ 2,737,537.00	$17,577	$77,296	$70,177	$130,500	$0	$666,091	$6,444	$3,647	$0	$312,890
	Airport Main Hanger	$ 667,938.00	$0	$1,094	$32,256	$12,482	$30,150	$342,467	$576	$0	$0	$0
Recreation	Williamstown Office (Celtic Music Hall of Fame)	$ 832,093.00	$49,134	$115,032	$37,000	$4,771	$43,072	$78,966	$26,425	$0	$11,011	$0
	Green Valley Community Centre	$ 532,964.00	$2,850	$0	$0	$4,572	$0	$74,712	$11,883	$0	$0	$0
	Green Valley Skate Rink Storage Building	$ 30,849.60	$0	$0	$0	$1,216	$0	$25,730	$0	$0	$0	$0
	Martintown Skate Rink Storage Building	$ 60,349.00	$0	$0	$0	$0	$0	$0	$0	$608	$0	$0
	Bainsville Community Centre	$ 464,492.50	$15,194	$1,460	$0	$0	$0	$75,409	$122,171	$0	$0	$0
	Bainsville Skate Rink Change House	$ 75,000.00	$0	$0	$0	$0	$0	$0	$0	$0	$0	$75,000
	Glen Walter Park	$ 385,057.00	$4,212	$4,590	$0	$0	$19,309	$137,981	$0	$0	$0	$4,862
	Char-Lan Recreation Centre (Arena)	$ 10,906,226.30	$361,454	$189,271	$1,627,711	$17,261	$290,656	$1,810,650	$438,581	$14,586	$69,287	$480,873
	Paul Rozon Park C.C.	$ 518,817.20	$0	$732	$0	$3,496	$0	$7,701	$16,897	$0	$0	$3,840
	Nor-Westers Museum	$ 1,663,936.00	$18,231	$148,760	$80,000	$115,500	$0	$29,587	$0	$2,850	$5,915	$0
	Glendale Park - Empey Poirier Park	$ 80,379.00	$0	$0	$0	$0	$0	$75,000	$0	$0	$0	$1,216
	Legion at Smithfield Park	$ 1,425,123.00	$0	$13,650	$40,425	$0	$30,675	$119,707	$0	$41,937	$0	$0
	Lancaster Library	$ 748,738.00	$15,418	$105,424	$21,854	$0	$0	$570,524	$7,606	$3,647	$0	$0
	Lan-Char Medical Centre	$ 2,443,371.80	$92,070	$10,000	$31,784	$5,859	$0	$252,100	$30,150	$117,835	$0	$29,170
	Martintown Community Centre (attached to Martintown Fire Hall)	$ 1,682,244.00	$5,890	$0	$0	$0	$0	$318,260	$0	$0	$0	$0
	Optimist Building	$ 487,691.00	$7,002	$0	$16,799	$0	$0	$353,135	$54,140	$0	$0	$0
	Smithfield Park Building	$ 512,210.00	$0	$0	$0	$0	$0	$0	$0	$0	$0	$3,382
Roads	North Lancaster Public Works (Garage)	$ 1,285,907.00	$0	$172,612	$315,480	$264,320	$0	$137,379	$230,719	$0	$12,341	$318,940
	North Lancaster Public Works (Salt Shed)	$ 150,000.00	$0	$10,000	$30,000	$0	$0	$0	$0	$0	$0	$150,000
	Airport Road Public Works Garage	$ 2,857,658.00	$0	$0	$0	$0	$0	$0	$0	$0	$54,468	$0
	Airport Road Salt Dome	$ 611,209.00	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
	Beaver Brook Landfill	$ 56,077.00	$0	$10,000	$0	$0	$0	$50,657	$0	$0	$0	$0
	Lancaster - Old Water Treatment Plant	$ 436,588.00	$1,270	$108,809	$51,679	$45,589	$1,905	$28,328	$1,824	$0	$0	$0
Fire	Glen Walter Fire Hall	$ 2,524,249.00	$25,000	$0	$0	$0	$0	$36,006	$0	$87,518	$0	$0
	Midway Pump House Summerstown Station	$ 63,994.00	$0	$33,386	$0	$0	$0	$50,000	$0	$0	$0	$608
	Williamstown Fire Hall	$ 1,762,589.00	$170,056	$231,800	$0	$0	$19,050	$144,763	$0	$0	$33,827	$23,125
	Lancaster Fire Hall	$ 2,500,838.20	$29,805	$73,560	$31,095	$0	$0	$317,351	$1,188	$118,456	$0	$0
	Martintown FH	$ 975,904.00	$5,080	$0	$44,217	$0	$0	$84,163	$0	$0	$0	$0
	North Lancaster Fire Hall	$ 1,300,459.00	$5,500	$0	$70,508	$1,862	$1,220	$248,688	$22,222	$44,676	$4,641	$15,194
	Total	**$ 40,780,488.60**	**$ 825,743.00**	**$ 1,307,475.50**	**$ 2,500,985.10**	**$ 607,428.20**	**$ 436,037.00**	**$ 6,035,354.60**	**$ 970,826.10**	**$ 435,760.00**	**$ 191,489.90**	**$ 1,419,100.00**

10-Year Water Capital Plan

Location	Facility	Year	Cate.	Description of Work	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032
Glen Walter	Water Tow	2023	Expense	New Water Tower		$3,620,506.28									
Glen Walter	WDS	2023	Expense	Watermains and hydrants		$2,120,000.00									
Glen Walter	WTP	2025	Expense	Electrical				$984,256.89							
Glen Walter	WTP	2025	Expense	Mechanical				$562,432.51							
Glen Walter	WTP	2025	Expense	Package Treatment Unit				$413,553.31							
Glen Walter	WTP	2025	Expense	Standby Power (110 kW)				$169,556.86							
Glen Walter	WTP	2025	Expense	Standby Power (110 kW)				$82,710.66							
Glen Walter	WTP	2025	Expense	Process Piping and Valves				$48,247.89							
Glen Walter	WTP	2025	Expense	Magnetic Flowmeters				$4,273.38							
Glen Walter	WTP	2025	Expense	Magnetic Flowmeters				$4,273.38							
Glen Walter	WTP	2025	Expense	Coagulant Feed Pump 1.89 L/hr @ 1,000 kPa				$1,378.51							
Glen Walter	WTP	2025	Expense	Coagulant Feed Pump 1.89 L/hr @ 1,000 kPa				$1,378.51							
Lancaster	WTP	2025	Expense	Chemical Solution Prepartion System				$51,934.03							
Lancaster	WTP	2025	Expense	Backwash Pump 28 L/s @ 18.39 m TDH				$38,598.31							
Lancaster	WTP	2025	Expense	Backwash Pump 28 L/s @ 18.39 m TDH				$38,598.31							
Lancaster	WTP	2025	Expense	Coagulant Storage Tank (15 m^3)				$11,028.09							
Lancaster	WTP	2025	Expense	Composite Sampler				$8,960.32							
Lancaster	WTP	2025	Expense	Magnetic Flowmeters (50, 100, and 150 mm)				$8,271.07							
Lancaster	WTP	2025	Expense	Magnetic Flowmeters (50, 100, and 150 mm)				$8,271.07							
Lancaster	WTP	2025	Expense	Magnetic Flowmeters (50, 100, and 150 mm)				$8,271.07							
Lancaster	WTP	2025	Expense	Magnetic Flowmeters (50, 100, and 150 mm)				$8,271.07							
Lancaster	WTP	2025	Expense	Magnetic Flowmeters (50, 100, and 150 mm)				$8,271.07							
Lancaster	WTP	2025	Expense	Coagulant Feed Pump (Duty/Standby)				$5,661.54							
Lancaster	WTP	2025	Expense	Coagulant Feed Pump (Duty/Standby)				$5,661.54							
Lancaster	WTP	2025	Expense	Chemical Metering Pumps				$5,285.21							
Lancaster	WTP	2025	Expense	Chemical Metering Pumps				$5,285.21							
Lancaster	WTP	2025	Expense	Chemical Metering Pumps				$5,285.21							
Lancaster	WTP	2025	Expense	Chemical Metering Pumps				$5,285.21							
Lancaster	WTP	2025	Expense	Level Detectors				$2,757.02							
Lancaster	WTP	2025	Expense	Level Detectors				$2,757.02							
Lancaster	WTP	2025	Expense	Level Detectors				$2,757.02							
Lancaster	WTP	2025	Expense	Level Detectors				$2,757.02							
Lancaster	WTP	2025	Expense	Coagulant Day Tank (450 L)				$2,251.11							
Lancaster	WTP	2025	Expense	Chemical Solution Tank (160 L)				$2,251.11							
Lancaster	WTP	2025	Expense	Chemical Solution Tank (450 L)				$2,251.11							
Lancaster	WTP	2025	Expense	Chemical Solution Tank (450 L)				$2,251.11							
Lancaster	WTP	2025	Expense	High Lift Turbine Pumps (15.9 L/s @ 42.6 m TDH				$29,637.99							
Lancaster	WTP	2025	Expense	High Lift Turbine Pumps (15.9 L/s @ 42.6 m TDH				$29,637.99							
Lancaster	WTP	2025	Expense	Sewage/Sludge Pump 7.5L/s @ 15.0 m TDH				$27,570.22							
Lancaster	WTP	2025	Expense	High Lift Turbine Pumps (6.3 L/s @ 42.6 m TDH)				$19,124.08							
Lancaster	WTP	2025	Expense	Decant Pump 10.0 L/s @ 6.3 m TDH				$17,920.64							
Lancaster	WTP	2025	Expense	Sub. Low Lift Pump 8.33 L/s @ 10.1 TDH				$14,639.79							
Lancaster	WTP	2025	Expense	Sub. Low Lift Pump 8.33 L/s @ 10.1 TDH				$14,639.79							
Lancaster	WTP	2025	Expense	Sub. Low Lift Pump 8.33 L/s @ 10.1 TDH				$14,639.79							
RW Estates	WTP	2025	Expense	Sampling Locations				$2,757.02							
RW Estates	WTP	2025	Expense	Clearwell				$48,247.89							
RW Estates	WTP	2025	Expense	Genset				$48,247.89							
Glen Walter	WTP	2027	Expense	Sodium Hypochlorination						$165,421.33					
Glen Walter	WTP	2028	Expense	New Glen Walter WTP							$23,000,000.00				
Glen Walter	WTP	2029	Expense	Architectual								$949,104.85			
Lancaster	WTP	2030	Expense	Process Piping and Valves									$1,003,556.04		
Lancaster	WTP	2030	Expense	Package Treatment Unit									$673,869.96		
Lancaster	WTP	2030	Expense	Electrical									$645,143.17		
Lancaster	WTP	2030	Expense	Intake Work									$358,412.87		
Lancaster	WTP	2030	Expense	Mechanical									$358,412.87		
Lancaster	WTP	2030	Expense	Stationary Screen									$71,682.57		
Lancaster	WTP	2030	Expense	Diesel Generator Set (125 kW)									$98,680.71		
RW Estates	WTP	2030	Expense	Static Inline Mixer									$482.48		
Lancaster	Water Tow	2030	Expense	Repaint Water Tower									$100,000.00		
Glen Walter	WTP	2032	Expense	Chemical Storage Tank (4.5m^3)											$1,792.06
Lancaster	WTP	2032	Expense	SCADA											$34,462.78
Lancaster	WTP	2032	Expense	Chlorine Residual Analyzer (Treated Water)											$8,960.32
RW Estates	WTP	2032	Expense	Well Pump											$9,649.58
Glen Walter	Water Tow	2033	Expense	Repaint Water Tower											$100,000.00
				Schedule C EA for Glen Walter WTP	75000										
				ANNUAL COST	$75,000	$5,740,506	$0	$2,782,096	$0	$165,421	$23,000,000	$949,105	$3,310,241	$0	$154,865

10-Year Sanitary Capital Plan

Location	Facility	Year	Cate.	Description of Work	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032
Lancaster	Sewage PS 1	2024	Expense	Raw Sewage Pump			$24,813.20								
Lancaster	Sewage PS 1	2024	Expense	Raw Sewage Pump			$24,813.20								
Glen Walter	Sewage PS 1	2025	Expense	Process Piping and Valves				$41,010.70							
Glen Walter	Waste WTP	2025	Expense	Sewage Treatment Plant				$27,000,000.00							
Green Valley	Sewage PS 1	2025	Expense	Electrical				$5,514.04							
Lancaster	Sewage PS 1	2025	Expense	200 mm Forcemain				$27,570.22							
Lancaster	Sewage PS 2	2025	Expense	Flowmeter (Kent Taylor Magmaster)				$4,824.79							
Lancaster	Sewage PS 2	2025	Expense	Roofs				$4,284.41							
Lancaster	Sewage PS 2	2025	Expense	Refrigerated Sewage Sampler				$11,717.34							
Lancaster	Waste WTP	2025	Expense	Effluent Pumping Station Controls				$4,135.53							
Lancaster	Waste WTP	2025	Expense	Aerators - Aeration Cell and Faculative Cell				$110,280.88							
Lancaster	Waste WTP	2025	Expense	Forcemain				$45,490.86							
Lancaster	Waste WTP	2025	Expense	Refridgerated Auto Sampler				$11,028.09							
Lancaster	Waste WTP	2025	Expense	Effluent Pumps (60.0 L/s and 7.8 m TDH)				$31,705.75							
Lancaster	Waste WTP	2025	Expense	Effluent Pumps (60.0 L/s and 7.8 m TDH)				$31,705.75							
Lancaster	Waste WTP	2025	Expense	Alum Storage Tank (cap 17,275 L)				$16,542.13							
Lancaster	Waste WTP	2025	Expense	Flowmeter				$12,406.60							
Lancaster	Water Mains	2025	Expense	Distribution System (Pipe and Fire Hydrant)				$110,280.88							
Glen Walter	Waste WTP	2027	Expense	Refrigerated Effluent Sampler						$11,717.34					
Glen Walter	Sewage PS 1	2028	Expense	Raw Sewage Pumps							$82,710.66				
Glen Walter	Sewage PS 2	2028	Expense	Raw Sewage Pumps							$46,869.38				
Glen Walter	Sewage PS 2	2028	Expense	Chlorine Analyzer							$13,785.11				
Glen Walter	Sewage PS 3	2028	Expense	Electrical							$87,363.14				
Glen Walter	Sewage PS 3	2028	Expense	Process Piping and Valves							$38,081.37				
Glen Walter	Sewage PS 1	2030	Expense	Flowmeter									$20,677.67		
Glen Walter	Waste WTP	2030	Expense	Aeration Blowers									$13,785.11		
Lancaster	Sewage PS 1	2030	Expense	Diesel Generator Set (30 kW)									$34,462.78		
Lancaster	Sewage PS 1	2030	Expense	Diesel Generate Set (30 Kw)									$36,530.54		
Lancaster	Sewage PS 2	2030	Expense	Process Piping and Valves									$134,404.83		
Lancaster	Sewage PS 2	2030	Expense	Architectual									$99,459.57		
Lancaster	Sewage PS 2	2030	Expense	Raw Sewage Pumps with VFDs									$99,252.80		
Lancaster	Waste WTP	2030	Expense	Aeration Cell No. 1, (Volume 3,500 m^3 and 3.0 m Depth)									$1,860,989.91		
Lancaster	Waste WTP	2030	Expense	Level Transducer									$13,785.11		
Glen Walter	Sewage PS 2	2031	Expense	Raw Sewage Pumps										$13,785.11	

				Schedule "C" EA for Glen Walter WPCP	$75,000										
				ANNUAL COST	$75,000	$45,491	$49,626	$27,468,498	$0	$11,717	$268,810	$0	$2,313,348	$13,785	