

CORPORATION OF THE TOWNSHIP OF SOUTH ALGONQUIN

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| SUBJECT: | Strategic Asset Management Policy | | | |
| TYPE: | FINANCE | POLICY NO. FIN-003-00 | | |
| DATE: | REVIEW DATE: | FREQUENCY: | REL. BY-LAW: | PAGE #: |
| April 2, 2019 | | 5 Years | | 1 of 9 |
| Revisions | | | | |
| New Policy | | | | |
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Purpose

The purpose of this policy is to provide leadership in and commitment to the development and implementation of the Municipality'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 Municipality 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 Municipality in focusing on service, rather than budget, driven asset management approaches.

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

Background

The Municipality is responsible for providing or facilitating a range of services to the community, including General Government, Protective, Transportation, Environmental, Health, Social & Family, Recreation & Cultural and Planning & Development. To deliver these services, it owns and manages a diverse municipal infrastructure asset portfolio of roads, bridges, landfill sites, buildings, lands, vehicles & equipment. As the social, economic, and environmental wellbeing of the community depends on the reliable performance of these municipal

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infrastructure assets it is critical to implement 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. An asset management approach allows organizations to make informed decisions regarding the planning, building, operating, maintaining, renewing, 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 multiple departments and service areas. As such, it is useful to adopt a structured and coordinated approach to outlining the activities, roles and responsibilities required of organizational actors, 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 expected 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 Municipality 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.

In prioritizing capital investments, the Municipality must employ effective risk management practices that include continually cataloguing and maintaining an inventory of risks that may prevent the achievement of desired levels of service. Risk analysis is based on the process of calculating both the probability and consequence of asset failure. However, as a result of climate change, the Municipality must also consider the exposure, vulnerability, resiliency and adaptability of infrastructure classes to associated impacts.

The approval of this policy is an important step towards integrating the Municipality'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.

Alignment with the Township of South Algonquin's Official Plan

The asset management program developed under this policy will support the Plan Objectives identified in section 1.6 of the Township of South Algonquin Official Plan (2014).

Alignment with the Township of South Algonquin's Strategic Plan

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The asset management program developed under this policy will support the Strategic Goals and Action Plan in accordance with the Council Endorsed Vision and Mission Statements included in the Township of South Algonquin Community-Based Strategic Plan (2016-2012)

Policy Statement

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

1. The Municipality 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 Municipality 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. Lifecycle Management
 - V. Financial Strategy Development
 - VI. Level of Service Framework
 - VII. Considering the Effects of Climate Change
3. The Municipality 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 cost repair, rehabilitation or replacement costs.
4. The Municipality will develop an asset management plan that incorporates all infrastructure categories and municipal infrastructure assets that meet the capitalization threshold outlined in the organization's Tangible Capital Asset Policy FIN-001-00. It will be updated regularly according to the dates outlined in O. Reg. 588/17 until July 1, 2024, after which it will be updated at least every five years.
5. The Municipality will integrate asset management plans 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

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to achieve short-term operating and maintenance needs, in addition to long-term needs to replace and/or renew municipal infrastructure assets based on full lifecycle costing.

6. The Municipality 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 Municipality will develop meaningful performance metrics and reporting tools to transparently communicate and display the current state of asset management practice to Council and the community.
8. The Municipality 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.
9. The Municipality will align 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.
10. The Municipality will coordinate planning for interrelated municipal infrastructure assets with separate ownership structures by pursuing collaborative opportunities with neighbouring municipalities and jointly-owned municipal bodies wherever viable and beneficial.
11. The Municipality will develop processes and provide opportunities for municipal residents and other interested parties to offer input into asset management planning wherever and whenever possible.

Roles and Responsibilities

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

1. Council

- i. Approve the AM policy and direction of the AM program.
- ii. Maintain adequate organizational capacity to support the core practices of the AM program.
- iii. Prioritize effective stewardship of assets in adoption and ongoing review of policy and budgets.
- iv. Ensure that adequate resources are available to implement and maintain core AM practices.
- v. Monitor levels of service.

2. Asset Management Steering Committee (AMP Committee)

- i. Development of policy and policy updates.
- ii. Directing/facilitating the review of this Policy at a minimum of every five (5) years, or as often as necessary.
- iii. Provide corporate oversight to goals and directions and ensure the AM program aligns with the Municipality's strategic plan.
- iv. Implementation of this AM Policy and supporting AM program, including the provision of appropriate and timely advice regarding its effectiveness in the supporting achievement of Council's strategic priorities.
- v. Ensure that adequate resources are available to implement and maintain core AM practices.
- vi. Appointing cross-functional representatives from relevant Divisions to serve on the Steering Committee as well as Chair for the Steering Committee.
- vii. Provide departmental staff coordination.
- viii. Establish and monitor levels of service.
- ix. Track, analyze and report on AM program progress and results.

3. Executive Lead (Director of Public Works)

- i. Development of policy and policy updates.
- ii. Provide organization-wide leadership in AM practices and concepts.
- iii. Provide departmental staff coordination.
- iv. Establish and monitor levels of service.
- v. Coordinate and track AM program implementation and progress.

4. Departmental Staff

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- i. Utilize the new business processes and technology tools developed as part of the AM program.
- ii. Participate in implementation task teams to carry-out AM activities.
- iii. Establish and monitor levels of service.
- iv. Provide support and direction for AM practices within their department.
- v. Track, analyze and report on AM program progress and results.

Key Principles

The Municipality 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 take into account the needs of citizens by being mindful of, among other things, demographic and economic trends.
2. Infrastructure planning and investment should take into account 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, such as health care and education.
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,

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- 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 Municipality 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 Municipality, as the case may be, the Municipality 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.
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.
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, such as local job creation and training opportunities, improvement of public space within the community, and any specific benefits identified by the community.

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Definitions

Unless otherwise noted, the definitions provided in this document align with those outlined in Ontario Regulation 588/17 (O. Reg. 588/17), Asset Management Planning for Municipal Infrastructure, under the *Infrastructure for Jobs and Prosperity Act, 2015*.

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 (ISO 55000).
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 (ISO 55000). Under O. Reg. 588/17, by 2023 AMPs for core municipal infrastructure assets will be required to include the current levels of service being provided; the current performance of each asset category; a summary of assets in each asset category, their replacement cost, average age, condition information, and condition assessment protocols; lifecycle activities required to maintain current levels of service; discussion of population and economic forecasts; and documentation of processes to make inventory- and condition-related background information available to the public.
3. **Capitalization threshold** – the value of a municipal infrastructure asset at or above which a municipality will capitalize the value of it and below which it will expense the value of it.
4. **Climate Change** – a change of climate which is attributed directly or indirectly to human activity that alters the composition of the global atmosphere and which is in addition to natural climate variability observed over comparable time periods.
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.

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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, safety, customer satisfaction, quality, quantity, capacity, reliability, responsiveness, environmental acceptability, cost, and availability (ISO 55000).
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.
9. **Risk management** – a coordinated set of activities and methods that is used to direct an organization and to control the many risks that can affect its ability to achieve objectives; also refers to the architecture that is used to manage risk, including risk management principles, a risk management framework, and a risk management process (ISO 31000).