The Town of Aurora
Asset Management &
Investment Plan
Securing Sustainability of our Infrastructure

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EXECUTIVE SUMMARY

In response to the Ministry of Infrastructure's release of a ten-year infrastructure plan, "Building Together", which focuses on building a more standardized and consistent approach to municipal asset management planning, the Town of Aurora (the "Town" or "Aurora") has taken a pro-active approach in preparing a detailed Asset Management Plan, "AMP", in support of its requests for provincial and federal capital funding. As the Town's municipal assets continue to age, it becomes increasingly important to go through a formal process determining how a group of assets is to be managed over a period of time to help ensure safety standards, regulations and expected levels of service continue to be met given the Town's financing capabilities.

The AMP is a strategic document stating the characteristics and condition of infrastructure assets, levels of service expected from them, planned actions to ensure the assets are providing the expected level of service and financing strategies to implement the planned actions. The overall intent of the AMP is to help the Town ensure investments are made at the right time, future repair and rehabilitation costs are minimized, and municipal assets are being appropriately maintained.

INTRODUCTION

Public Infrastructure is central to our prosperity and our quality of life. The Province of Ontario released in June 2011, "Building Together", a long-term infrastructure plan for Ontario that responds to the far-reaching trends that will affect Ontario's infrastructure needs including a more global and service-oriented economy, a larger, older and more urbanized population and the effects of a changing climate. The plan sets out a strategic framework that will guide future investments in ways that support economic growth, are fiscally responsible and respond to changing needs. A key element to this framework is ensuring good stewardship through proper asset management. Despite significant investments by all levels of government, more needs to be done to address current and emerging municipal infrastructure needs. The Province of Ontario will work together with local municipalities and the federal government to establish a municipal infrastructure strategy.

The Town of Aurora, like all other municipalities throughout Ontario and Canada, deliver many of the services that are critical to its residents, and these services rely on well-planned, well-built and well-maintained infrastructure. The Town's Asset Management Plan will address the challenges of current and and future infrastructure needs and guide financial and investment decisions.

Town of Aurora Asset Management Plan ("AMP") sets out the organization's approach to reviewing and managing its active capital assets, to ensure continued and sustainable operations, operating and service capability of each asset, and the necessary financial plan to ensure that the required investments can be made when expected.

Aurora's Asset Management Plan is an outcome of the Town's stewardship responsibilities: how we plan to look after what we have. However, the Town has also incorporated future growth and future asset investments into the plan to document what new assets we plan to invest in as the community grows, and how we plan to finance those investments. The growth side of the plan also becomes an input into the existing asset replacement side of the plan, as the new assets begin to require replacement, sometimes within the same 10-year period, such as for new fleet vehicle additions.

The primary objective of an AMP is to maximize benefits, control risks, and provide a satisfactory level of service to the community in a sustainable manner. Infrastructure management ensures that the Town is capable of providing the desired level of service to support attaining our ultimate goals.

TOWN OF AURORA INFRASTRUCTURE ASSETS

The Town is responsible for the following asset classes: water and wastewater, stormwater management, roads, facilities, fleet, machinery and equipment including information technology & telecom equipment, land, parkland and land improvements. Infrastructure and Environmental Services ("IES") is responsible for the largest group of Town's asset classes which include water and wastewater, stormwater management, roads, facilities, fleet and machinery while Parks and Recreation Services is responsible for land, parkland, land improvements and fitness equipment. Corporate Financial Services is responsible for the management of all information technology and telecommunications equipment. These infrastructure assets present particular challenges where financing can be large and timing for renewal can cause significant peaks and troughs in required expenditures.

DEVELOPMENT OF AN ASSET MANAGEMENT PLAN

The Town hired an external third party to assist in its preparation of its AMP. Town staff worked extensively on the plan. The following departments were involved in the development of this AMP:

- 1. Infrastructure and Environmental Services
 - Engineering Division
 - Operations Division
 - Facilities and Fleet Division
- 2. Parks and Recreation Services
 - Parks Division
- 3. Corporate and Financial Services
 - Financial Planning Division
 - Information Technology Division

The AMP covers a ten year time horizon and references the following resources:

- Ten Year Capital Investment Plan 2016 2025 with 2015 Capital Budget
- Road Needs Study completed in October 2010 which is to be updated in 2015 (The Roads Need Study is typically updated every 5 years)
- 2015-2024 Repair and Maintenance Budget
- The Corporation of the Town of Aurora PSAB 3150 Compliance Report
- The Corporation of the Town of Aurora Audited Financial Statements (payment certificates)
- 18-Year IES Vehicle and Equipment Replacement Schedule 2010 2028
- Town of Aurora Pavement Management System, October 2010
- IES Operations Vehicle Replacement Schedule
- Town of Aurora Tangible Capital Asset Policies
- The Economic Value of Natural Capital Assets Report June 2013

BENEFITS ASSOCIATED WITH AN ASSET MANAGEMENT PLAN

Specific benefits associated with an AMP include:

- Better decision making regarding resource allocation;
- More effective communications with ratepayers, elected officials, financial rating organizations and regulatory agencies;
- Providing consistent levels of service to the public;
- Better risk management practices to the municipality;
- More effective financial planning;
- Reduced lifecycle costs;
- More efficient data management;
- Facilitates the establishment and subsequent implementation of policy objectives and the related measurement of performance;
- Avoids potential problems and crises; and
- Results in positive institutional change.

ASSET MANAGEMENT PLAN'S IMPACT ON PLANNING AND FINANCIAL BUDGETING

Planning and financial budgeting for previous periods have been constructed using the same input factors used in development of the AMP. Conversely, the AMP lays out data in a more concise document and takes into account the financial impact. Ultimately, the AMP will assist in formulating long-term planning.

The AMP has a significant impact on the planning and financial budgeting process, which are dependent on each other. The AMP identifies the timing for asset renewal, asset maintenance, asset replacement, additions and/or disposals and the associated costs. This directly ties into the planning and financial budgeting by providing the knowledge of the timing and magnitude of future investments required to operate, maintain, renew and acquire assets.

While the AMP clearly outlines the timing and costs to maintain infrastructure assets at a certain level and condition, the capital and operating budgets ensure the acquisition and management of assets is linked to council goals and strategies, community service expectations growth and demand projects, asset life-cycle management, and operating and maintenance programs. In addition, the AMP will outline any funding shortfalls or additional funds required to be raised to maintain assets at desirable conditions.

IMPLEMENTATION AND EVALUATION OF ASSET MANAGEMENT PLAN

The original AMP has been reviewed by staff and is due to be reviewed and approved by Council in the fall, 2015. On an on-going basis the AMP will be updated to reflect any new information such as changes in established budgets, changes in the expected useful life of a given asset category, changes in established service levels, and new engineering studies are completed, etc. The AMP will also be updated to reflect any changes in the financial picture, such as tax levy changes, debt funding increases or decreases, etc. on an annual basis. The desire is to make the AMP a rolling 10 year document by adding on annually an updated 'year 10', replacing the then historical first year of the prevous year's plan. The timing for asset renewal, asset maintenance, asset replacement, additions and/or disposals will be re-visited by Council and Staff once every four years (Council term). The orignal ten year period covered by the Town's AMP commences on January 1, 2015 and concludes on December 31, 2025.

IMPLEMENTATION SCHEDULE

Staff are committed to maintaining a continuous rolling 10 year Asset Management Plan. The plan will be used to consolidate all of the input data currently being used, along with the addition of the financing component.

| Goals/ Actions | Description | Planned | Current Status | Expected |
|--|---|------------------------------|----------------|---------------------|
| | | Implementation Date | | Implementation Date |
| Completion of first draft of Town AMP | Town staff to draft the corporation's first version of its AMP. | April 30, 2014 | Complete | April 30, 2014 |
| Peer assessment of draft AMP by 3 rd Party | 3 rd party to complete assessment of draft AMP and provide feedback for improving it | June 30, 2014 | Complete | June 30, 2014 |
| Presentation of draft AMP to Budget Committee for its review and feedback | Town staff to complete as close as possible to final draft of the Corporation's AMP for senior management and council review and feedback | November 30, 2014 | Complete | November 30, 2014 |
| Obtain senior management approval of the final draft inaugural AMP | AMP will be presented to senior management for its final review and approval | September 17, 2015 | On-going | September 17, 2015 |
| Presentation of final draft inaugural AMP to Budget Committee for referral to Council for formal approval | Town Staff to present final draft inaugural AMP to Budget Committee for review and referral to council | September 28, 2015 | | September 28, 2015 |
| Obtain Council approval of town inaugural AMP | Inaugural AMP will be presented to council for its review and approval | December 8, 2015 | | December 8, 2015 |
| Update of AMPs ten year capital investment plan | On an on-going basis the AMPs accompanying ten year capital asset investment plan will be reviewed and updated | Ongoing; each year | | |
| Update of AMP core logic | Once every four years (council term) the AMPs core logic will be reviewed and updated | Ongoing, every four years | | |

ASSET SCOPE

As stated above, IES, Parks and Recreation and Corporate Financial Services are responsible for the following asset classes:

| Functional Area | Asset Class |
|------------------------|--|
| Water and Wastewater | Water mains |
| | Water pumping stations |
| | Wastewater mains |
| | Wastewater pumping stations |
| | All valves and appurtenances |
| Stormwater Management | Stormwater pipes and catchbasins |
| | Stormwater outlets |
| | Stormponds |
| | Oil/grit separators |
| Roads | Municipal roads and curbs |
| | Sidewalks |
| | Street lights |
| Solid Waste Management | No physical assets |
| Facilities | Administration building |
| | Recreation facilities |
| | Library |
| | Fire Halls |
| | Misc properties |
| Fleet | Facilities operations |
| | Parks operations |
| | By-Law operations |
| | Roads operations |
| | Water/Wastewater operations |
| | Solid Waste operations |
| Machinery & Equipment | Fire Services equipment |
| | Information Technology Equipment |
| | Telecom Equipment |
| | Furniture |
| Land, Parkland, & Land | Parks |
| Improvements | Park shade structures |
| | Parking lots |
| | Sports fields and courts |
| | Trails, paths and walkways |
| | Playgrounds |
| | Street trees and wood lots |
| | Line fences |

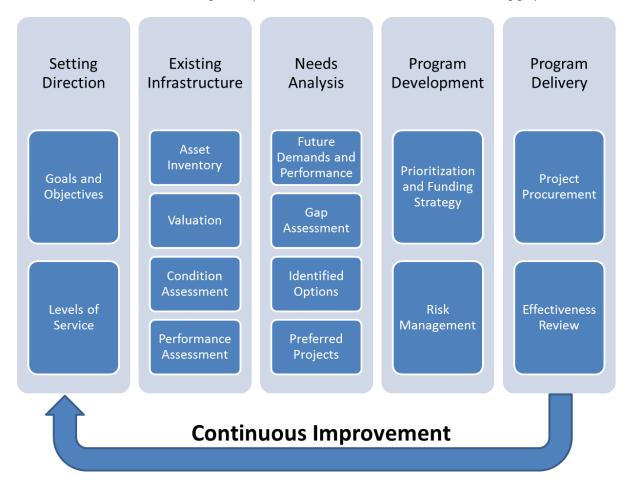
The management of these assets is governed by policies, principles and strategies outlined in this document and are based upon internationally accepted asset management practices.

ASSET MANAGEMENT FRAMEWORK

This asset management plan is based on a three level framework focused on establishing clear linkages between asset management activities and the organization's strategic objectives. The goal of this plan is to achieve the following objectives:

- Link organizational strategic objectives with the asset management policies and objectives needed to deliver them
- Link organizational strategic objectives with the levels of service that assets should deliver
- Guide the asset management priorities and work required on the assets to achieve objectives and ensure that there is adequate financial resources available to support that work

The asset management framework adopted by the town provides for the key elements necessary to maintain a sustainable and affordable asset management plan. This framework is outlined in the following graphic.



This plan is presented under these five headings and from the overarching strategy for asset management. There are many other studies, reports, databases, programs, and procedures that are referenced in this plan and that form the bulk of the content and process for the day to day acquisition, maintenance, monitoring, testing and operation of the Town's various assets.

SETTING DIRECTION FOR ASSET MANAGEMENT

KEY LINKAGES TO THE CORPORATE STRATEGIC PLAN

The Town of Aurora Strategic Plan was updated in 2011 and provides direction to the 2031 horizon. This is a Council endorsed plan that was created through multiple stakeholder and community group efforts and represents the current vision for the Town which is stated as follows:

An innovative and sustainable community where neighbours care and businesses thrive

The plan is based on the three pillars of sustainability being Community, Economy, and Natural Environment, and identified a number of guiding principles from which the goals and objectives were developed. As a first level linkage to the Strategic Plan, this asset management plan has adopted some of the key principles that created the 2031 vision as they have a direct relationship to the assets that support the community. The principles carried through this plan include:

- Adopting a long term perspective
- Leadership in corporate management
- Leverage partnerships
- Corporate excellence and continuous improvement

This plan directly supports the following goals and objectives both identified in the strategic plan and as identified through departmental priorities:

| Goal | Objective |
|---|--|
| Supporting an exceptional quality of life for all | Improve transportation, mobility and connectivity Invest in sustainable infrastructure Strengthen the fabric of our community |
| Supporting environmental stewardship and sustainability | Encouraging the stewardship of Aurora's natural resources Bromoting and advancing groop initiatives |
| Fiscal Management | Promoting and advancing green initiatives Plan for long term funding reserves Balance service needs and growth with asset condition and investment needs |

TOWN OF AURORA'S ASSET MANAGEMENT POLICY

Taking leadership from the organization's Strategic Plan, the Town has developed the following asset management policy statement:

The assets of the Town of Aurora are critical to contributing to an exceptional quality of life for the community. The Town views sustainability and environmental stewardship as leading goals in preserving our assets for present and future generations.

In achieving these goals, the principles of having a long term perspective, leadership in corporate management, leveraging partnerships, and continuous improvement will form the basis in developing asset management plans that balance short term costs and needs with long term sustainability and financial viability for present and future generations.

EXPECTED LEVELS OF SERVICE

UNDERSTANDING THE USER GROUPS

Service levels are often directed by a combination of the needs of the user community, the affordability level of the service, and the capacity of the existing infrastructure. As a first step in this process, the users of the various asset classes are defined to assist in guiding service level definitions and performance targets.

| Functional Area | Associated Service Providers | Community Users |
|------------------------|--|---|
| Water and Wastewater | Town StaffContractorsRegional Government | Residents, businesses, industry Fire Department Internal departments/staff |
| Stormwater | Town Staff Contractors Conservation Authority Province of Ontario | Community environmental stewards Conservation Authority Internal departments/staff |
| Roads | Town StaffContractorsRegional Government | Residents, businesses, industry Tourists Pedestrians/cyclists Transit Emergency services |
| Solid Waste Management | Contractors | Households, businesses, industry |
| Facilities | Town StaffContractors | Program users Residents Regional scale programs Arts and culture Community groups Aurora Public Library Fire Department Internal departments/staff |
| Fleet | Town StaffContractors | Internal departments/staff |
| Machinery & Equipment | Town StaffContractors | Town facility users Fire Department Internal departments/staff |
| Parks | Town StaffContractors | Program users Residents Community Groups |
| Forestry | Town StaffContractors | ResidentsBusinesses |

Service levels have been defined based upon the expected needs of the various community users and form a high level set of objectives that either directly support user needs or indirectly support those needs through other requirements such as legislative compliance, sustainability or economic efficiency which eventually lead to improved customer experience. The following tables identify specific service levels for each asset class, as well as the drivers that shape the service level. From this information, performance metrics and related targets are defined which form the basis upon which asset requirements for the existing community are built.

WATER SERVICES

The Town is responsible for water distribution to the end users, consumer metering, and billing. York Region is responsible for water production and bulk distribution. Water in Aurora is 25 percent ground water source and 75 percent lake based source.

| Service Level | Driver | Performance Metric | Target |
|--|--|--|---|
| Maintain system pressures in target range | Industry practices, protection of system due to reverse pressure, user | Reported low pressure events | <10/year |
| | experience | Water main breaks | <5/year Each main tested at least once |
| | | • Fire hydrant flow testing | every 5 years |
| Provide safe potable water | Legislation, public health, system security | Incidence of adverse water quality | <0.01% of total sample count |
| | | Water chemistry | Within provincial standards |
| | | Watermain flushing | 20% of watermains to be swabbed /year |
| Maximize water | Sustainability, environmental | Water loss tracking to | Infrastructure Leakage Index |
| conservation | protection, economic efficiency | measure revenue, non- revenue, and lost water | (ILI)<1 |
| | | Full system cost recovery | Annual operating and long term capital fully funded |
| | | | through rate revenues |
| | | Annual consumption per | |
| | | household | <200m3/year /household |

WASTEWATER SERVICES

The Town is responsible for wastewater collection and delivery to Regional trunk infrastructure.

| Service Level | Driver | Performance Metric | Target |
|--|---|---|---|
| Availability of sewer system to transmit flows | Legislation, user expectation | Private side backups reported per year | <10/year |
| | | Mainline backups reported per year | <10/year |
| Minimize risk of discharge of untreated sewage to the | Legislation, public health, environmental protection | sewer main breaks/spill to environment | Zero/year |
| environment | | Pumping station sewage by-pass/spill to environment | Zero |
| | | CCTV InspectionsInfrastructure integrity | Inspect min once/7yrs Zero structural failures /yr |
| Maximize sewer transmission capacity and system efficiency | Sustainability, environmental protection, economic efficiency | Under review | Under review |

STORMWATER SERVICES

The Town is responsible for all storm water collected from Town owned roads. This includes pipes, ponds and oil/grit separators.

| Service Level | Driver | Performance Metric Target |
|----------------------------|---|---|
| Provide flood free | Public safety, user expectation | Number of road closures <10/year |
| roadways | | due to flooding |
| | | Catch basin cleaning 100% per year |
| Meet storm discharge | Legislation, public health, environmental | Maintain storm pond Min 90% of design capacit |
| water quality and quantity | protection | design capacity |
| objectives | | |

ROADS SERVICES

The Town is responsible for all local roads. Regional road maintenance is a regional responsibility. However, the Town is responsible for all streetlights except for those specifically positioned to illuminate regional intersections. All sidewalks and multiuse trails within the road allowance are Town owned and maintained.

| Service Level | Driver | Performance Metric | Target |
|---|---|--|---|
| Traffic congestion and network usability | Public safety, user expectation, economic impacts | Number of traffic related complaints | <10/year |
| | | Intersection signal optimization | 100% annually reviewed |
| | | Average traffic volume compared to road capacity | Average volume more than80% of lane capacity – Anca please confirm – more or less than |
| Road condition and driver experience | Legislation, user expectations, safety, asset reliability | Update Pavement Condition Index (PCI) | Updated max 5 yr cycle |
| | | Average PCI | Network avg 60 |

SOLID WASTE SERVICES

The Town is responsible for waste collection and delivery to Regional facilities for further processing and disposal. This service is fully contracted and the Town owns no assets related to the delivery of this service.

| Service Level | Driver | Performance Metric Target |
|---|--|--|
| Waste is collected prior to end of set out day | Public safety, user expectation | Number of late/missed <50/year pickup calls |
| Maximize recycle material recovery rate | Sustainability, environmental benefit, economic benefit | Minimize over 95% of loads >2:1 compaction of blue box compaction material |
| Moving to zero waste | Sustainability, economics, environmental impact, | Avg annual collection per <200kg/year household |

FACILITIES SERVICES

The facilities portfolio includes property, buildings and related property with respect to administration services, community centres, library, fire services, and other miscellaneous buildings that are available for public use or lease to third party tenants. This portfolio does not include park assets such as fields, trails, park buildings or shelters.

| Service Level | Driver | Performance Metric | Target |
|--|--|---|---|
| Facilities are available to meet community and programming needs | User expectation, cultural support, health, economics | Number of unplanned facility shut downs per year (all locations) | <10/year |
| Public enjoyment of pool facilities | Legislation, public health, user expectations | Meet public health reporting requirements Meet equipment maintenance schedules | 100% compliance 100% of planned maintenance completed |
| Public enjoyment of ice facilities | User expectation, cultural support, health, economics | Meet equipment maintenance schedules | 100% of planned maintenance completed |
| General acceptability of facilities | Public, users, legislation, economics, sustainability | Frequency of cleaning Cleaning effectiveness | Meet planned cleaning schedules 95% of time Minimum quarterly management inspections per facility |
| | | Environmental comfort | <10 complaints/yr |

FLEET SERVICES

All Town owned rolling stock is included in this portfolio.

| Service Level | Driver | Performance Metric | Target |
|---|--|--|--|
| Maximize equipment up time | User expectation, sustainability, economics | Number of unplanned maintenance events Number of planned maintenance events | <4/asset/year <7 / asset/year |
| | | Average time per service event | <3 hour |
| Maximize equipment capital and maintenance investment | Sustainability , cost effectiveness, economics | Asset replacement target | As per planned asset life cycle or >10% value of maintenance cost per year |

MACHINERY & EQUIPMENT

All Town owned machinery and small equipment, including information technology & telecom equipment is included in this portfolio.

| Service Level | Driver | Performance Metric Target |
|-----------------------|---|-----------------------------------|
| Maximize equipment up | User expectation, sustainability, economics | Number of unplanned <4/asset/year |
| time | | maintenance events |
| | | Number of planned <7 / asset/year |
| | | maintenance events |
| | | Average time per service <3 hour |
| | | event |

| Maximize equipment capital and maintenance investment | Sustainability , cost effectiveness, economics | • | Asset replacement target | As per planned asset life cycle or >10% value of maintenance cost per year |
|---|--|---|---|--|
| IT & telecom Network availability | User expectation, sustainability, economics | • | Percentage of time network is available | As per planned asset life cycle |

PARKS SERVICES

| Service Level | Driver | Performance Metric | Target |
|--|--|---|---|
| High quality Facilities are available to meet community needs, public enjoyment, and general acceptability of facilities | User expectation, cultural support, health & safety , economics, legislation, sustainability | Number of unplanned maintenance events Number of planned maintenance events Frequency of maintenance and repair Facility inspections / effectiveness Adherence to maintenance /repair standards | ≤10/year overall parks system As per parks service level standards Meet planned maintenance and repairs 95% of the time Minimum 12 per asset /year ≤20 complaints/yr |

URBAN FORESTRY SERVICES

| Service Level | Driver | Performance Metric | Target |
|---|--|--|--|
| Street Trees and woodlots remain in safe condition Limiting public risk | User expectation, cultural support, health, economics, legislation, sustainability Managed forest Plan | Number of unplanned maintenance events Number of planned maintenance events | ≤30/year/variable due to environmental conditions As per urban forestry policy |
| Respond to emergency forestry issues | | Frequency of maintenance and repair | Meet planned maintenance functions 95% of the time Limit & mitigate public |
| Routine maintenance of street tree inventory | | Effectiveness process work orders and customer communication | liability issues ≤ 24 hours after detection ≤ 3 days <10 complaints/yr |
| | | in a timely fashion | |

EXTERNAL TRENDS OR ISSUES

External trends that may affect the Expected Levels of Service or the Town's ability to meet them include:

- Climate change
- Changing accessibility standards
- Taxpayer concerns on service levels
- Tax levy, Federal and Provincial Government funding availability
- Growth and requirement for additional/new services

CURRENT PERFORMANCE RELATIVE TO TARGET PERFORMANCE

| Functional Area | Service Level | Performance Metric | Target Performance | Current Performance |
|-----------------|---|--|---|--|
| | Maintain system | Reported low pressure events | <10 /year | average 50 calls per year |
| | pressures in | Water main breaks | <5 /year | average 10 per year |
| | target range | Fire hydrant flow testing | Each main tested at least once every 5 years | Flowing testing to start in 2017/2018 |
| | | Incidence of adverse water quality | <0.01% of total sample count | Average 3 adverse samples out of 900 samples per year |
| | Provide safe | Water chemistry | Within provincial standards | Target met |
| Watermain | potable water | Watermain flushing | 20% /5 years of watermains to be swabbed /year | Target met |
| | | Water loss tracking to measure revenue, non- revenue, and lost water | Infrastructure Leakage Index (ILI)<1 | ILI = 1.42 |
| | Maximize water conservation | Full system cost recovery | Annual operating and long term capital fully funded through rate revenues | Town started water meter replacement program in 2014, 1000 meters a year |
| | | Annual consumption per household | <200 m3/year/household | 208.5 m3/year/household |
| | Availability of | Private side backups reported per year | <10 /year | Average 60 sewer backups a year |
| | Sewer System to transmit flows | Mainline backups reported per year | <10 /year | Average 1 per year or less |
| | | Sewer main breaks/spill to environment | Zero /year | Average 1 per year or less |
| Wastewater | Minimize risk of discharge of untreated | Pumping station sewage by-pass/spill to environment | Zero | Target met |
| | sewage to the environment | CCTV inspections | Inspect at least once /7 years | The Town spends \$150,000.00 a year on CCTV Inspections |
| | | Infrastructure integrity | Zero structural failures /year | Based on CCTV Inspections |
| | Maximize sewer transmission capacity and system efficiency | Under review | Under review | N/A |
| | | Number of road | <10 /year | 0 /year |
| Stormwater | Provide flood free roadways | closures due to flooding Catch basin cleaning | 100% per year | 30% a year \$50,000 a year for Catch Basin Cleaning |
| | | Number of traffic | <10 complaints/year | <5 complaints/year |
| | | related complaints | | |
| | Traffic congestion and network usability | Intersection signal optimization | 100% annually reviewed | Signal optimization is done only when there is a need. This can be changed to be done annually |
| Roads | | Update Pavement Condition Index (PCI) | Updated max 5 year cycle | Updated every 3 to 5 years |
| | Road condition and driver | Update Pavement Condition Index (PCI) | Updated max 5 year cycle | Updated every 3 to 5 years |
| | experience | Average PCI | Network average 60 | Network average 72 over the last 9 years |

| Functional Area | Service Level | Performance Metric | Target Performance | Current Performance |
|--------------------------|--|--|--|---|
| | Waste is collected prior to end of set out day | Number of late/missed pickup calls | <50 calls/year | 68 calls/year 27 late calls, 41 missed calls |
| Solid Waste | Maximize recycle material recovery rate | Minimize over compaction of blue box material | >95% of loads have less than 2:1 compaction | 93.6% of loads have less than 2.5:1 compaction |
| | Moving to zero waste | Average annual collection per household | < 200 kg/year | 373 kg/year |
| | Facilities are available to meet community and programming needs | Number of unplanned facility shut downs per year (all locations) | < 10 /year | 0 /year |
| Facilities | Public enjoyment | Meet public health reporting requirements | 100% compliance | 100% compliance |
| | of pool facilities | Meet equipment maintenance schedules | 100% of planned maintenance completed | 100% of planned maintenance completed |
| | Public enjoyment | Meet equipment | 100% of planned | 100% of planned maintenance |
| | of ice facilities | maintenance schedules Frequency of cleaning | maintenance completed Meet planned cleaning schedules 95% of time | completed Target met |
| | General acceptability of facilities | Cleaning effectiveness | Minimum quarterly management inspections per facility | Target met |
| | | Environmental comfort | <10 complaints/year | Target met |
| | | Number of unplanned maintenance events | <4 /asset/year | 8/asset/year (for fleet 3 years or older) |
| | Maximize equipment up | Number of planned maintenance events | <7 /asset/year | 7/asset/year |
| Fleet | time | Average time per service event | <3 hours | 4 hours |
| Fleet | Maximize equipment capital and maintenance investment | Asset replacement target | As per planned asset life cycle or >10% value of maintenance cost per year | N/A |
| Machinery & Equipment | Maximize equipment up time | Number of unplanned maintenance events | <4 /asset/year | 8/asset/year (for fleet 3 years or older) |
| | | Number of planned maintenance events | <7 /asset/year | 7/asset/year |
| | | Average time per service event | <3 hours | 4 hours |
| | Maximize equipment capital and maintenance investment | Asset replacement target | As per planned asset life cycle or >10% value of maintenance cost per year | N/A |

| Functional Area | Service Level | Performance Metric | Target Performance | Current Performance |
|----------------------------|---|---|--|--------------------------|
| | IT & telecom Network availability | Percentage of time network is available | 99.9% | Target met |
| | High quality facilities are | Number of unplanned maintenance events Number of planned | ≤10/year overall parks system As per parks service level | Target met Target met |
| Parks Services | available to meet community needs, public | maintenance events Frequency of maintenance and repair | standards Meet planned maintenance and repairs 95% of the time | Target met |
| | employment and general | Facility inspections / effectiveness | Minimum 12 per asset /year | Target met |
| | acceptability of facilities | Adherence to maintenance /repair standards | ≤20 complaints/year | Target met |
| | Street trees and woodlots remain | Number of unplanned maintenance events | ≤30 /year/variable due to environmental conditions | Target met |
| | in safe condition limiting public risk | Number of planned maintenance events | As per urban forestry policy | Target met |
| Urban Forestry Services | Respond to emergency forestry issues | Frequency of maintenance and repair | Meet planned maintenance functions 95% of the time | Target met |
| | Routine maintenance of | Effectiveness | Limit &mitigate public liability issues ≤ 24 hours after detection | Target met |
| | street tree inventory | Process work orders and customer communication in a timely fashion | ≤ 3 days | Target met |

STATE OF LOCAL INFRASTRUCTURE

Annually, as part of their operations, Departments conduct a general assessment of the condition of their assets. This general assessment is used in the development of priorities for the current year budget. More detailed and broad condition assessments are completed on a cyclical basis based on industry standards for the asset class. For the purpose of Asset Management planning, asset condition information will be updated when the broad assessments are completed for each functional area.

| Functional Area | Asset Type | Inventory / Quantity / Extent | Financial Accounting Valuation | Replacement Cost Valuation | Average Asset Age (Years) | Estimated Average Useful Life (Years) | Overall Asset Condi- tion |
|--------------------|---------------------------|----------------------------------|--------------------------------------|-------------------------------|------------------------------------|--|------------------------------------|
| Watermain | Water Mains | 205.4 kilometers | \$50,047,728.43 | \$721,005,411.18 | 22.9 | 71.5 | Good |
| | Water Valves | 2152 valves | \$2,490,095.07 | \$7,102,099.95 | 20.4 | 30.0 | Poor |
| | Underground Enclosures | 590 enclosures | \$1,642,007.73 | \$11,182,320.77 | 21.1 | 55.0 | Good |
| watermain | Fire Hydrants | 1378 hydrants | \$3,421,275.74 | \$9,776,512.33 | 20.7 | 30.0 | Poor |
| | Service Connections | 13857 services | \$4,792,429.19 | \$28,245,254.51 | 24.4 | 50.1 | Fair |
| | Booster Stations | 1 station | \$350,000.01 | \$1,687,053.13 | 16.0 | 30.0 | Fair |
| | Sewers | 178.7 kilometers | \$38,835,029.56 | \$584,375,127.81 | 28.7 | 73.1 | Good |
| | Maintenance Chambers | 2601 chambers | \$7,831,341.61 | \$54,816,568.85 | 28.6 | 55.2 | Fair |
| Wastewater | Laterals | 13525 laterals | \$5,546,851.05 | \$87,343,771.50 | 25.8 | 76.3 | Good |
| | Equalization Tanks | 1 tank | \$222,924.64 | \$1,416,446.89 | 23.0 | 55.0 | Good |
| | Pumping Stations | 4 stations | \$1,179,169.99 | \$7,077,049.21 | 14.75 | 30.0 | Fair |
| | Sewers | 171.5 kilometers | \$51,061,589.20 | \$430,976,514.80 | 24.2 | 59.0 | Good |
| | Maintenance Chambers | 2549 chambers | \$8,263,386.26 | \$56,613,526.82 | 24.2 | 55.0 | Good |
| | Catchbasins | 4610 catchbasins | \$7,002,832.81 | \$47,817,938.57 | 22.3 | 55.0 | Good |
| | Laterals | 10231 laterals | \$4,749,466.83 | \$52,508,624.80 | 22.6 | 63.5 | Good |
| Stormwater | Cleanouts | 12 cleanouts | \$5,541.04 | \$87,922.36 | 22.0 | 80.0 | Very Good |
| | Headwalls | 188 headwalls | \$688,251.58 | \$4,737,381.34 | 24.6 | 55.0 | Good |
| | SWM Ponds | 45 ponds | \$8,341,714.69 | N/A | 19.4 | N/A | N/A |
| | Equalization Tanks | 13 tanks | \$2,195,393.75 | \$15,047,265.99 | 25.7 | 55.0 | Fair |
| | Bridges & Culverts | 80 crossings | \$8,392,869.22 | \$35,308,741.49 | 36.1 | Inspected every 2 years | Fair |

An overall condition assessment is provided.

| Functional Area | Asset Type | Inventory / Quantity / Extent | Financial Accounting Valuation | Replacement Cost Valuation | Average Asset Age (Years) | Estimated Average Useful Life (Years) | Overall Asset Condi- tion |
|--|---------------------|--|--------------------------------------|-------------------------------|------------------------------------|--|------------------------------------|
| | Pavement & Curbs | 182.5 centerline kilometers | \$53,986,429.66 | \$183,803,710.16 | 20.6 | 35.4 | Fair |
| | Pedestrian Paths | 185.0 kilometers | \$7,197,958.43 | \$20,414,780.96 | 19.6 | 29.6 | Poor |
| | Road Luminaires | 4409 luminaires | \$8,327,076.96 | \$23,200,586.60 | 22.0 | 25.7 | Very Poor |
| Roads | Signage | 6288 signs | \$220,511.55 | \$427,041.92 | 21.4 | Reflectivity Test Conducted Annually | Good |
| | Traffic Signals | 13 signal intersections | \$797,686.31 | \$1,785,250.32 | 20.3 | Inspection conducted bi-annually (fall and spring) | Very Good |
| Solid Waste | | contracted service | N/A | N/A | N/A | N/A | N/A |
| Facilities | | 22 facilities and buildings | \$71,390,502.97 | N/A | 24.7 | 28.3 | Very Poor |
| Fleet | | Approximately 90 vehicles and related pieces | \$7,993,268.22 | N/A | 4.6 | 9.8 | Fair |
| Machinery & Equipment | | Various pieces | \$6,053,193.91 | N/A | 5.2 | 8.5 | Poor |
| | | IT & Telecom Equipment | | N/A | 4.5 | 7.0 | Good |
| Land, Parkland & Land Improve- ments | | 700 acres of combined open space and parkland land associated with each Municipal Facility land maintained for environmental purposes 48 kilometers of off-road trails. | \$20,871,284.71 | N/A | 10.5 | 28.09 | Good |

| Age to Useful Life Ratio | Condition |
|--------------------------|-------------|
| 85 to 100 | Excellent |
| 70 to 85 | Very Good |
| 55 to 70 | Good |
| 40 to 55 | Fair |
| 25 to 40 | Poor |
| 10 to 25 | Very Poor |
| 0 to 10 | End of Life |

ASSET INVENTORY AND VALUATION

Assets have been inventoried in compliance with accounting standards which provide for a statement of assets owned, a simple life cycle assessment, historic costs, and an annual depreciation value that complies with regulatory reporting requirements and provides one basis to forecast for asset replacement.

However, the accounting records are not an asset management plan and have a number of shortfalls that hinder its usefulness for sustainable asset management. These include historic cost valuation which does not account for current replacement costs, asset condition factors, or changes in materials and technology which influences asset life and performance.

The asset list developed for financial accounting does however provide an accurate foundation of what is owned and is the base information for the development and support of the overlaying asset management strategies. The following is a summary of the asset inventory.

ASSET CONDITION AND PERFORMANCE ASSESSMENT

Specific condition and performance techniques are applied to each asset class based on the nature of the asset, and the criticality and risk associated with the asset. The following table outlines the assessments applied to each asset class based on three categories of condition assessment, performance assessment, and risk assessment.

| Functional | Condition Assessment Approach | Performance Assessment Approach | Risk Management Approach |
|-----------------|--|---|--|
| Area | | | |
| Water System | Visual inspection via CCTV | Water quality and chlorine residual monitoring. | Proactive maintenance and replacement to manage risk of failure and maintain |
| | | Pressure monitoring. | performance |
| | | Water loss monitoring. | Routine testing to ensure water quality |
| | | | Material and age based evaluation |
| Wastewater | Visual inspection via CCTV | Inflow/infiltration studies, smoke and | Proactive maintenance and replacement to |
| system | | dye testing | manage risk of failure and maintain |
| | | Leak tracking through CCTV | performance |
| | | | Material and age based evaluation |
| Stormwater | Visual inspection of pipes via CCTV | Discharge water quality assessments | Proactive maintenance |
| System | Visual inspection of ponds and separators | Design capacity assessments | Technical studies to assess overall system priorities |
| Roads | Routine road patrols for emerging | Traffic capacity studies | Traffic capacity studies |
| System | and acute condition deficiencies. | | |
| | Pavement Condition Index rating | | |
| | system to priorities replacements. | | |
| Solid Waste | No assets in this class | Compliance with contract terms | Compliance with contract terms |
| | | | Public education and promotion programs |
| Facilities | Visual inspections | Testing and monitoring programs | Reliability centred maintenance practices |
| | | Energy usage tracking | Equipment age and obsolescence |
| Fleet | Scheduled maintenance program | Benchmark to expected service level | Age, repair history, type of use, public and |
| | with condition assessment | from equipment | employee safety |
| Machinery & | Scheduled maintenance program | Benchmark to expected service level | Age, repair history, down time |
| Equipment | with condition assessment | from equipment | |
| Parks | Planned monthly visual inspections | expected service life cycling of | Proactive maintenance and repair to |
| | | individual asset | maintain users safety and manage risks and maintain performance over asset life span |

The following summarizes the overall asset score based on a letter grading scheme. As this rating applies to differing asset classes, consideration may be given to all or some of the rating targets based on the evaluation team's familiarity and knowledge of the assets being rated. This approach is applied to each class as a general rating, however, there will be assets within each sub-class that will rate higher or lower than the reported score. Detailed asset replacement plans are maintained as supporting documentation to these summaries and are updated on regular basis.

| | Description |
|-------|--|
| Score | |
| Α | Asset has at least 80 percent of useful life remaining. |
| | Performance maintained to 90 percent or greater of design level. |
| | Energy efficiency within 90 percent of current market availability for similar equipment. |
| | Maintenance costs less than 5 percent of asset book value per year |
| | Asset in overall excellent condition |
| В | Asset has at least 75 percent of useful life remaining. |
| | Performance maintained to 80 percent or less of design level. |
| | Energy efficiency within 75 percent of current market availability for similar equipment. |
| | Maintenance costs 5-10 percent of asset book value per year |
| | Asset in overall good condition |
| С | Asset has at least 50 percent of useful life remaining. |
| | Performance maintained to 70 percent or less of design level. |
| | Energy efficiency within 50 percent of current market availability for similar equipment. |
| | Maintenance costs 5-10 percent of asset book value per year |
| | Asset in overall moderate condition |
| D | Asset has at least 25 percent of useful life remaining. |
| | Performance maintained to 50 percent or less of design level. |
| | Energy efficiency within 40 percent of current market availability for similar equipment. |
| | Maintenance costs10-20 percent of asset book value per year |
| | Asset in overall poor condition |
| E | Asset has reached the of end of its life. |
| | Expected useful life. |
| | Performance does not meet intended design level. |
| | Energy efficiency less than 40 percent of current market availability for similar equipment. |
| | Maintenance costs exceed 20 percent of asset book value per year |
| | Asset in overall poor to unserviceable condition |

ASSET RATING SUMMARY

The following table summarizes the asset rating for each asset sub-class.

| Asset Class/Sub-Class | Score | Future Considerations |
|-----------------------|-------|--|
| Water | | |
| Water Mains | В | Continue with CCTV and relining program |
| Pumping Stations | С | Consider bringing maintenance in-house |
| Valves/chambers/PRV | С | Perform detailed valve performance assessment and prioritize replacements |
| Fire Hydrants | В | |
| Commercial Meters | С | |
| Residential Meters | E | Majority exceeding design life and vulnerable to failure |
| Wastewater | | |
| Mains | В | Continue with relining and CCTV program |
| Manholes | С | Continue with inspections and relining as warranted |
| Laterals | D | Consider assumption of private side and initiate full relining program |
| Pumping Stations | С | Consider bringing maintenance in-house |
| Forcemains | С | Confirm inspection schedule for forcemains and siphons |
| Stormwater | | |
| pipes | В | Review inspection program and update condition assessments |
| catchbasins | В | Review cleaning program and update condition assessments |
| manholes | С | Review inspection program and update condition assessments |
| Outfalls/headwalls | D | Review inspection program and update condition assessments |
| Ditches/culverts | С | Review inspection program and update condition assessments |
| Oil/grit separators | С | Review inspection program and update condition assessments |
| Storm ponds | С | Initiate recommendations from updated masterplan |
| Roads | | |
| Pavement/curbs | В | Consider alternative condition assessment approaches to augment PCI program and potentially reduce life cycle costs |
| Sidewalks | В | |
| Bridges | В | Maintain compliance with inspection requirements |
| Multiuse paths | В | Review service levels and community needs |
| Street lights | D | Update asset condition assessment |
| | | Retrofit to LED to energy savings |
| Solid Waste | | |
| Fleet | D | In year 7 of 10 year contract. Initiate scope for retender. |
| Facilities | | |
| General Site | В | |
| Parking pavement | D | Most at end of useful life with replacements scheduled |
| Building envelope | С | Consider third party assessment for buildings exceeding 25 yrs |
| lce plant | В | Recent energy/equipment retrofits completed |
| Pool systems | В | Review program maintenance and upgrade schedules |
| HVAC | С | Review replacement philosophy |
| Mechanical | С | Phase 1 energy retrofit program nearing completion |
| Electrical | В | Phase 1 energy retrofit program nearing completion |
| Equipment | С | Phase 1 energy retrofit program nearing completion |
| Fire Protection | С | Review status relative to industry advancements |
| Security | В | Review status relative to industry advancements |
| Fleet | | |
| Light duty vehicles | В | |
| Heavy duty vehicles | С | |
| Tractors/loaders | С | |
| Machinery & Equipment | | |
| Small equipment | В | |

| Information Technology & Telecom Equipment | В | Majority of equipment with at least 50% useful life remaining. Assets are reviewed annually. As part of this process, assets with increasing repairs are candidates for early replacement. |
|---|---|---|
| Parks | | |
| Playground equipment | С | Majority within useful life of at least 50% remaining ,major review of asset on an annual basis |
| Trails/Bridges | В | Maintain compliance with inspection requirements and annual maintenance program |
| Sports fields/pathway lighting | С | Maintain industry standards for lighting levels ,review performance and assessment of latest LED sport field lighting equipment for potential future retrofit |
| Outdoor sports facilities and courts | С | Sports facilities generally compliant with industry standards, continue to monitor and maintain and retrofit facilities in accordance with life cycling schedule |
| Park pavilions / shelters / washroom facilities / out buildings | С | Majority within useful life of at least 50% remaining ,major review of asset on an annual basis , continue to monitor assets falling below "B" rating and update replacement forecast as required |
| Line fences | D | Significant deterioration in many areas and end of useful service life particularly where fence lines exceed 30 years |

ASSET MANAGEMENT STRATEGY - NEEDS ANALYSIS

FUTURE DEMANDS AND GAP ANALYSIS

Future asset demands are driven by community growth pressures, obsolescence, changes to technology, and economic changes in the broader environment. These demands are typically forecasted through various studies and planning exercises from which the demand for new infrastructure is identified. Studies are also completed for various assets in order to assess their current condition and operational/maintenance needs. All of this information is used to develop the various operational, maintenance and capital plans. The following table provides a summary of the key study & planning documents utilized by the town for this purpose.

| Study / Plan Assets Affected | | Comments | | | | |
|--|--|---|--|--|--|--|
| Transportation Master Plan | Road network Sidewalks/multiuse paths Intersections/traffic lights | Plan is updated on a 5 year cycle and identifies capacity constraints and infrastructure gaps. Growth related needs are reported in Development Charges Background Study and 10 yr capital plan | | | | |
| Water/wastewater hydraulic modeling | Water systemWastewater system | Periodic model updates identify system constrains in growth areas that are captured in DC background study and 10 yr capital plan | | | | |
| Stormwater Master Plan | Stormwater system | Updated every 5 years and identified maintenance and growth related impacts to existing asset base as well as opportunities for effluent improvement based on changes to technology and regulations. Projects captured in 10 yr capital plan | | | | |

| Study / Plan | Asset | s Affected | Comments |
|---------------------------------------|-------|--|---|
| Pavement Condition Assessment | • | Road network | Pavement inspection consists off identification, classification and measurement of individual pavement distresses in accordance with the Canadian Public Works Association's Pavement Condition Index (PCI) rating standard. The PCI system uses a 0 to 100 (Failed to Excellent) scale to describe pavement condition. The current Town of Aurora Policy considers local street PCI rating of 25 and collector/arterial/highway streets with a rating o 40 to be the minimum acceptable service level. The Town's current protocol calls for the local street system to be re- inspected on a regular cycle (every 3 to 5 years). |
| Sidewalk condition assessment | | Sidewalks and multiuse paths | Annual inspections form basis for annual maintenance and repairs |
| Parks and Recreation Master Plan | • | Parks and Facilities | Growth related facilities identified in plan and captured in DC background study and 10 yr capital plan, Updated on 5yr. cycle |
| Trails Master Plan | • | Trails | Growth related facilities identified in plan and captured in DC background study and 10 yr capital plan |
| Official Plan | • | Roads Water/wastewater/storm Solid waste facilities | Growth related facilities identified in plan and captured in DC background study and 10 yr capital plan Subdivision related development results in assumption of developer constructed assets |
| Promenade Study | • | Roads, sidewalks, lighting | Community based plan to improve downtown character in support of economic revitalization. Projects defined in study captured in DC study and 10 yr capital plan |
| Fleet management report | • | Fleet | Updated periodically. Provides direction on life cycle targets, asset service levels and long term financial forecast including maintenance and growth. Replacement requirements captured ir DC background study and 10 yr capital plan. |
| Winter Maintenance Management Plan | | Roads Fleet | Updated on 5 yr cycle. Provides direction of snow management, asset impacts and maintenance requirements. Capital requirements captured in 10 yr capital plan |
| IT Strategic Plan | | Information Technology & Telecom Equipment | Updated on a 5 year cycle. Provides direction on technology governance, infrastructure planning, life cycle targets, asset service levels, user technology needs. |
| Integrated Solid Waste Master Plan | • | Waste Collection | Focus on reducing waste generation and operating/capital costs of program. Minimal asset impact due to contracted services, however drives initiatives that improve overall system performance and long term collection targets |

OPERATIONS AND MAINTENANCE STRATEGY

The operations and maintenance strategy provides guidance for these functions resulting in the development of an annual work plan and operating/maintenance budget. The strategic objectives for O&M are:

- Provide adequate capacity to balance user service level expectations with cost for new infrastructure
- Maintain public health and safety as a priority
- Invest based on life cycle awareness of extending the useful life at the optimal cost while meeting desired service levels
- Recommend asset replacement when O&M costs exceed target thresholds for sustainable operation.

- Consider both demand side and supply side capacity management opportunities when investing O&M dollars (i.e. fixing leaks before building more pipes)
- Consider sustainability and environmental opportunities in O&M decisions where appropriate
- Consider emergency response planning requirements and alternative operating modes in response to known emergency conditions.
- Ensure adequate skills are available through training and mentorship
- Ensure systems are in place to support data management and O&M recording and reporting to assist in long term asset decision making
- Periodically review asset functionality to ensure intended purpose is met
- Focus on proactive maintenance planning and execution through use of maintenance management software
- Identify appropriate mode of operation based upon asset class (RCM, run to failure, risk based redundancy etc.)
- Define standard work flow and work procedures for improved consistency and efficiency

OVERVIEW OF RISKS ASSOCIATED WITH STRATEGY

The largest risk in generating expected service levels are financial in nature. The achievment of a desired level of service is dependent upon resource availability. Historically and currently the town has not had sufficient resources to meet service level expectations, resulting in the town regularly experiencing infrastructure deficits. Other risks relate to the town's potential required unplanned action stemming from updated engineering and other study results. In addition, because different vendors are utilized for study updates, the risk of uncomparable assessment results being received exist. The town is exploring the possibility of a long term agreement so that there is more consistency in the studies with the same vendor providing the updates.

OPTION ANALYSIS

The options for expected level of service must be compared based on:

- 1. Lifecycle cost total cost of constructing, maintaining, renewing, and operating an infrastructure asset throughout its service life;
- 2. Future costs must be discounted and inflation must be incorporated;
- 3. All other relevant direct/indirect costs and benefits associated with each option i.e. municipal wellbeing and health, amenity value, value of culturally or historically significant sites, municipal image.

The expected levels of service are captured in the Appendix. Based upon the projected levels of growth for the Town, the town does not foresee significant changes in service levels and as a result, a more comprehensive option analysis was not required. These expected service levels have been incorporated in the current financial forecast.

FINANCING STRATEGY - PROGRAM DEVELOPMENT

OPERATIONS PLAN AND FINANCIAL STRATEGY

The primary objective in regards to the town's operations plan is to develop an operations & maintenance (O&M) program that meets the short to intermediate needs of the town's existing assets while maintaining a relatively stable annual cost profile. This objective's goal is to allow for the effective maintenance of the town's assets while minimizing the disruptive impact of wide swings in annual operating budget requirements. Achieving stability in this annual cost profile helps to minimize the impact to the tax rate from costs of this nature in any given year. The current approach to developing the operations plan is as follows:

- Assess the O&M needs for each of the asset classes
- Establish a funding target that balances level of service requirements with asset condition/serviceability
- Monitor annual effectiveness of O&M program to meet set criteria
- Forecast budget adjustments in out years as needed to maintain service level/O&M program balance
- Identify anomalous expenditure requirements for inclusion in the 10 year capital plan

CAPITAL PLAN AND FINANCIAL STRATEGY

The Town's capital plan is forecast over a 10 year time horizon and is reported through a corporate financial planning report referred to as the 10 Year Capital Investment Plan. The capital planning process is as follows:

- Review all master plans and other studies to verify inclusion of out year projects
- Review forecasted construction year based on asset life, condition, growth pressures, maintenance record, coordination the related assets, risk considerations, and corporate priorities
- Make necessary annual priority adjustments
- Verify in year projects through condition and performance review and defer projects that can be extended without long term impact to asset value and produce an economic benefit by deferral
- Review forecast cost estimates
- Assign appropriate funding sources
- Review overall cash flow impact and adjust program to smooth our annual spending
- Review impact to various reserve funds and further adjust program to accommodate reserve restrictions or recommend increased reserve contributions to future years
- Recommend overall 10 year forecast and in year capital projects for Council approval and funding

RISK MANAGEMENT

Risk management is currently applied in an informal manner except for water supply which is evaluated as per Drinking Water Quality Management System requirements. Future plans include the development of a risk based prioritization plan for the town's various asset classes and a progression toward risk registries for each asset subclass. This will ensure that known risks are recognized and appropriate risk management techniques employed as necessary to both protect public health and safety and mitigation of risks in accordance with corporate tolerance.

EXPENDITURE ANALYSIS

| | Year | Non- Infrastructure Solutions | Maintenance Activities | RENEWAL/REHABILITATION ACTIVITIES | REPLACEMENT Activities | DISPOSAL Activities | Expansion Activities | Total Amount |
|-----------------------|------|-------------------------------------|---------------------------|--------------------------------------|---------------------------|------------------------|-------------------------|-----------------|
| 8 - | 2013 | 235,000 | 4,762,400 | 6,014,560 | 988,100 | 470,240 | 19,485,900 | 31,956,200 |
| APPROVED BUDGET | 2014 | 435,000 | 4,935,400 | 6,687,871 | 977,490 | 463,739 | 4,138,600 | 17,638,100 |
| AF | 2015 | 830,000 | 5,481,000 | 4,010,080 | 8,499,135 | 1,255,765 | 3,890,200 | 23,966,180 |
| | 2016 | 350,000 | 5,667,100 | 2,664,100 | 5,659,390 | 525,785 | 5,591,700 | 20,458,075 |
| | 2017 | 450,000 | 6,014,400 | 3,212,560 | 12,178,121 | 1,593,295 | 26,991,000 | 50,439,376 |
| | 2018 | 447,000 | 6,230,500 | 2,336,000 | 5,464,029 | 458,162 | 8,588,000 | 23,523,691 |
| Expenditure Forecasts | 2019 | 280,000 | 6,296,300 | 3,217,160 | 6,105,812 | 718,148 | 16,283,400 | 32,900,820 |
| E FORE | 2020 | 110,000 | 6,363,800 | 4,472,970 | 8,254,613 | 1,224,651 | 20,571,800 | 40,997,834 |
| DITURI | 2021 | 300,000 | 6,432,800 | 2,871,720 | 5,581,924 | 542,661 | 3,296,400 | 19,025,505 |
| EXPEN | 2022 | 300,000 | 6,502,800 | 2,059,150 | 7,174,479 | 948,152 | 853,000 | 17,837,581 |
| | 2023 | 250,000 | 6,574,300 | 2,335,000 | 5,911,380 | 677,986 | 3,300,000 | 19,048,666 |
| | 2024 | 110,000 | 6,647,200 | 633,250 | 4,998,875 | 461,606 | 194,600 | 13,045,531 |
| | 2025 | 80,000 | 6,721,400 | 545,000 | 5,805,077 | 528,430 | 5,768,100 | 19,448,007 |

REVENUE ANALYSIS

| | Year | LINE OF CREDIT | Special Purpose Reserves | Repair & Replacement Reserve | GROWTH & New Reserve | WATER / SEWER / STORM RESERVES | Studies & Other | Development Charges | GRANTS | External Funding | Operating Budget | Total Amount |
|-----------|------|-------------------|--------------------------------|------------------------------------|-------------------------|---|--------------------|------------------------|-----------|---------------------|---------------------|-----------------|
| | 2012 | - | 432,000 | 4,182,500 | 1,052,500 | 3,148,400 | - | 5,689,200 | 1,196,800 | 15,000 | 4,667,152 | 21,941,500 |
| JAL | 2013 | - | 1,116,900 | 3,237,800 | 675,200 | 2,798,300 | - | 8,953,600 | 2,006,800 | 277,100 | 4,762,400 | 27,171,100 |
| ACTUAL | 2014 | - | 325,500 | 4,754,200 | 498,000 | 953,812 | - | 355,100 | 2,134,600 | 3,245,000 | 4,935,400 | 17,224,100 |
| | 2015 | - | 871,800 | 7,648,300 | 915,700 | 3,455,500 | 519,100 | 2,819,800 | 1,540,500 | - | 6,082,000 | 23,852,700 |
| | 2016 | - | 914,600 | 3,988,935 | 2,126,100 | 1,532,600 | 6,000 | 2,993,100 | 2,039,600 | - | 6,268,100 | 19,869,035 |
| | 2017 | - | 1,717,600 | 5,554,492 | 339,800 | 4,284,300 | 105,800 | 14,287,800 | 1,617,500 | 9,799,700 | 6,615,400 | 44,322,392 |
| | 2018 | - | 1,314,600 | 3,785,719 | - | 3,944,400 | - | 6,534,300 | 1,694,600 | 106,800 | 6,831,500 | 24,211,819 |
| ASTS | 2019 | - | 1,044,600 | 2,959,276 | - | 1,857,700 | - | 14,316,400 | 1,694,600 | - | 6,897,300 | 28,769,876 |
| FORECASTS | 2020 | - | 1,062,100 | 2,347,008 | - | 1,100,000 | - | 17,685,400 | 1,694,600 | - | 6,964,800 | 30,853,908 |
| REVENUE F | 2021 | - | 839,600 | 1,758,717 | - | 4,904,100 | 30,000 | 3,068,400 | 1,694,600 | - | 7,033,800 | 19,329,217 |
| REVE | 2022 | - | 884,600 | 1,809,715 | - | 4,097,100 | 100,000 | 767,700 | 1,694,600 | - | 7,103,800 | 16,457,515 |
| | 2023 | - | 1,049,600 | 3,429,700 | - | 2,584,500 | 150,000 | 2,970,000 | 1,694,600 | - | 7,175,300 | 19,053,700 |
| | 2024 | - | 534,600 | 2,116,400 | 30,300 | 1,147,100 | 110,000 | 164,300 | 1,694,600 | - | 7,248,200 | 13,045,500 |
| | 2025 | - | - | 5,081,817 | 576,800 | 1,195,700 | 8,000 | 5,263,300 | - | - | 7,322,400 | 19,448,017 |

KEY ASSUMPTIONS

Asset Management Plan forecasts are based upon projected growth and levels of service as they exist at the time of the plan's update. Key assumptions made included the following:

- Assume that the municipality will continue to receive gas tax grant indefinitely;
- Assume that the municipality will fully collect planned development charge revenue;
- Assume that the municipality will be able to increase its tax Levy allocation towards its Reserves by one percent per annum; and
- Where inflation was deemed appropriate, an inflation rate of 1.1% for 2016, 2.1% for 2017 and 2% on-going was utilized

PROGRAM DELIVERY

PROJECT PROCUREMENT

Both operating and capital funded programs follow the same project procurement process which complies with the town's purchasing and financial reporting requirements. All linear asset project procurement is managed through a centralized procurement resource where a common set of standards, procedures and templates are employed. Any related processes are well documented and reviewed on a regular basis and involve the cooperation of various support departments for execution.

Project procurement follows these steps:

| Timing | Previous year | Current year |
|---------|---|---|
| Q1 | - | Tender preparation and issuance |
| Q2 | Dept'l review & update of 10 year capital plan | Project start |
| Q2 | Upcoming year's capital projects determined | Project execution |
| Q3 | Senior management review and prioritization of upcoming | _ |
| QJ | year's projects | |
| Q3 – Q4 | Upcoming year's capital project budget presentation and | Project closeout or carry forward as required |
| 45 44 | approval by council | rojeet closeout of early forward as required |

EFFECTIVENESS REVIEW

The town's linear asset management is delivered with the support from all areas of the Infrastructure & Engineering department, as well as from other areas of the corporation. Linear assets are overseen by an asset management steering group which was established as an asset management core function in 2011. This group's capacity has been slowly developing over time. The current linear asset management structure is as follows:

| Asset Management Steering Group | Director Operations Manager Engineering Manager Facilities Manager |
|------------------------------------|--|
| Asset Management Project Team | Asset AnalystGIS analysts |
| Support Functions | Strategic Planning Asset Management Plan Asset Data and Information Operations and Maintenance Information Systems Project Management Financial Planning |

The support functions have not all been formalized at this point but are performed to varying degrees based on risk and priority. These functions are performed by the various designated staff with reporting occurring on an as required basis. The asset management project team consists of three staff that work closely together to support asset related functions. The central application is currently Maximo with plans to expand into other asset areas both through further development of this tool and augmentation with additional practices based on continuous improvement opportunities.

The asset management steering team provides overall guidance and direction for the linear asset management plan. Asset related discussions occur twice a month and needs and priorities are reviewed at least twice a year. Specific discussions also occur throughout the year as required. Topics include budget reviews, reserve fund reviews, annual capital project prioritization and scheduling reviews, risk management reviews, environmental scan and industry opportunity reviews.

In regards to the town's IT and telecom equipment asset management plan, the Executive Information Technology Steering Committee (EITSC) performs a similar function to that the Linear Asset Management Steering Group. The EITSC committee was formed in 2009, recognizing the need to prioritize and support the strategic functions of IT Services. The committee currently meets once a month. The committee's role is multifaceted. The following summarizes the group's intent:

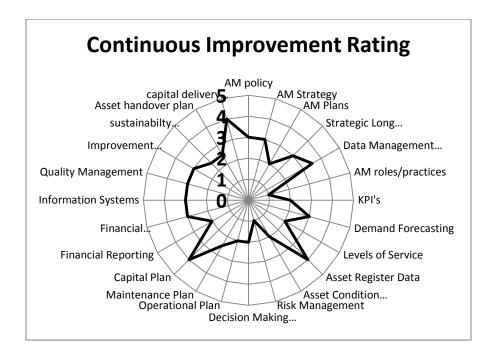
- 1. To reinforce the application of the agreed upon IT principles in all IT decision making;
- 2. To provide direction and strategic leadership for the use of IT at Aurora and ensure IT decision making is aligned with corporate goals;
- 3. To review and prioritize technology dependant projects and resolve resource allocation issues;
- 4. Facilitate better corporate use (and re-use) of technology systems and corporate resources;
- 5. Ensure open communications and partnership between the IT division and the other work units of the town so as to promote collaboration;
- 6. Act as a conduit for information to other management levels within the Town to ensure that the decisions and rationale for priorities and resource allocation (funding) are communicated to all departmental staff;
- 7. Build a learning organization that can leverage IT knowledge and experience more effectively across the organization;

CONTINUOUS IMPROVEMENT STRATEGY

The continuous improvement strategy for asset management is measured against twenty four criteria that touch on the various aspects of the plan. The purpose of this self-assessment is to identify areas where there is relative opportunity for improvement and plan projects focused on improving the maturity level and application of the various criteria. The following table outlines the definitions for the relative scores.

| Score | Description |
|-------|---|
| 0 | not performed |
| 1 | aware of need and risk |
| 2 | informal application and undocumented processes |
| 3 | partial documented processes partial use |
| 4 | application of documented processes |
| 5 | Best practice |

The following spider graph is a summary of scores for the various criteria across all asset classes. In recent years, significant effort has been made to advancing asset management at the Town including the development of a capital delivery process, quality management systems for water supply, development of salt management plan for environmental sustainability, completion of an asset registry, implementation of asset and work management system, development of first level key performance indicators, digitization and categorization of all linear asset related drawings.



APPENDIX 1 – ASSET MANAGEMENT STRATEGIES

ROADS

| INVENTORY: AS OF OCTOBER 2010 | There are approximately 179.9 centerline kilometers of roads within the Town of Aurora. |
|---|--|
| ANTICIPATED ASSET LIFE CYCLE: | The useful life of transportation infrastructure ranges from 15 to 50 years. The useful life of road infrastructure is dependent on the type of surface, climate conditions, and level of service. Arterial – 33 years Collector – 34 years Local – 36 years |
| INTEGRATED: | Roads are integrated with other buried assets located in the utility corridor such as: water, sewer, storm sewers, hydro, telephone, natural gas and cable. They have an impact on street lighting, traffic signals and sidewalks. |
| REHABILITATION AND REPLACEMENT CRITERIA: | The Town of Aurora uses AECOM's pavement management software system licensed for Town use. The last pavement management system study has been completed by AECOM in October 2010 and represents a network-level analysis intended to serve as a tool for long-term pavement improving planning. |
| | Aurora began formal pavement management with AECOM in 2002 using AECOM's INFRA/PAVE software system that is based on the non-proprietary pavement evaluation system, PCI, which is supported by the Canadian Public Works Association (CPWA). |
| | Aurora's street system is comprised of flexible (asphalt) pavements that are about two thirds Local and one third Collector or Arterial functional classification. This breakdown is common among municipal street systems. The vast majority of local roads have an urban cross section (curb/gutter). Local roads with rural cross section are anticipated to be upgraded to urban cross section with their next capital improvement. |
| | Regional roads and Private roads are included in the INFRA/PAVE inventory but are not evaluated for condition and are excluded from the analysis and planning modules. The average pavement age is approaching the expected design life for asphalt pavement. The average pavement condition has remained relatively constant over the last nine years at about PCI 72. A PCI value of 65-70 is common among municipalities. |

| The distribution of pavement condition is encouraging – very few pavements in Poor condition and a large number of pavements in Excellent to Good condition. This implies a limited need for major reconstruction projects at high unit costs for the Poor pavements. The Excellent to Good pavements can provide good performance for a long period by pursuing a low-cost maintenance plan of crack sealing and patching. Aurora-specific pavement deterioration models were developed by INFRA/PAVE based on nine years of pavement inspection data. |
|--|
| based of thine years of pavement hispection data. |
| Pavement Class – Standard Engineering Usage: |
| Arterial – serves primarily mobility between point A and point B Collector – collects local traffic to feed into the Arterial system – partly mobility and partly land access Local – serves primarily land access |
| Pavement Type - Standard Engineering Usage |
| Asphalt – petroleum-based asphaltic concrete or "flexible" pavement Concrete – Portland cement concrete or "rigid" pavement Composite – Asphalt overlay or concrete pavement Brick – brick pavement Paver Block – concrete blocks designed for pavement application Gravel – unbound aggregate material Natural – unimproved right-of-way |
| Inventory - What Pavement do we own? |
| A breakdown by functional classification and pavement type of more than 965 pavement assets currently within the Town's capital improvement jurisdiction is presented below: |
| Pavement classification |
| Local 69% Collector 28% Arterial 3% |
| Pavement Type |
| Asphalt Collector 28% Asphalt Arterial 3% Asphalt Local, Urban 58% Asphalt Local, Rural 10% This classification does not include private roads and regional roads. |
| |

Pavement Age

Often, an asphalt pavement that is designed and constructed for the traffic loading it receives can be expected to last about 15-20 years before major rehabilitation. Experience in Ontario has shown that higher volume roads often needs resurfacing at 15-17 years of age while subdivision roads may last for 20-22 years before the first major rehabilitation. The average age of the Tow's pavement system is approaching these age ranges.

Pavement Inspection System

The development of the pavement inspection system in Aurora was formalized in 2002. The entire Town-owned street system was included in the initial inspection. Subsequently, the entire street network was re-inspected in 2005 and the inspection schedule continued with this project in 2010. Current protocol calls for the local street system to be re-inspected on a regular cycle (every 3-5 years).

Pavement inspection consists of identification, classification, and measurement of individual pavement distresses in accordance with the Canadian Public Works Association's Pavement Condition Index (PCI) rating standard. The PCI system uses a 0 to 100 (Failed to Excellent) scale to describe pavement condition. Figure 4 presents the standard PCI ranges and descriptions. Note that current Aurora policy considers local street PCI rating of 25 and collector/arterial/highway streets with a rating of 40 to be the minimum acceptable service level.

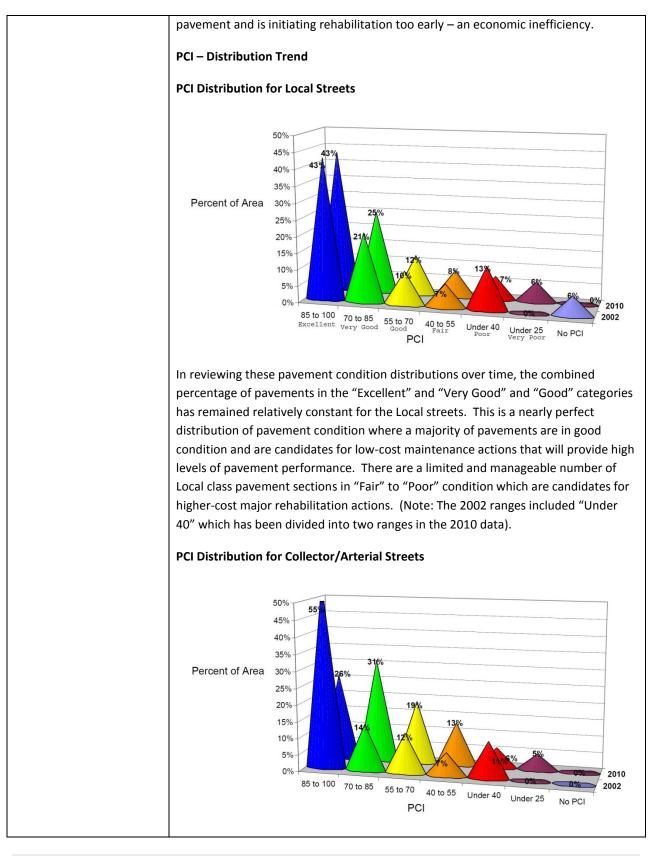
PCI Range Descriptions

| PCI Range | Description |
|-----------|-------------|
| 85 to 100 | Excellent |
| 70 to 85 | Very Good |
| 55 to 70 | Good |
| 40 to 55 | Fair |
| 25 to 40 | Poor |
| 10 to 25 | Very Poor |
| 0 to 10 | Failed |

PCI Average Trend

The average PCI rating for the entire pavement network is currently about 72, which falls at the low end of the "Very Good" range. This is no change from the average condition in 2002. The capital and maintenance activities in the last 9 years have been sufficient to maintain the average pavement condition.

An average PCI value of 65 to 70 is common among municipal agencies with a mix of one-third arterial streets and two-thirds local streets like Aurora. A lower average PCI might indicate an unreasonable number of poor pavements in the system. A higher average PCI can mean that the agency is not using up all the performance of a



| The condition rating distribution for the Collector/Arterial system is similar to the Local system except that in 2010, the distribution in the top three ranges is more even than in 2002. The end result is still that the vast majority of pavement polygons will have a low-cost maintenance need rather than a higher-cost major rehabilitation requirement. And no "bubble" of major investment requirement is approaching. This current distribution trend follows one of the basic premises of pavement management - which it is more cost-effective to maintain pavements at a high service level for a low unit cost than it is to wait until pavements degrade significantly requiring high unit cost repairs. So, investments made in pavement replacement and overlays combined with an effective maintenance program pay off. The result is higher performing pavements for longer periods of time - good service for the public. |
|--|
| The overall story told by these PCI distribution figures includes: |
| Stable numbers of high-performing pavements |
| Addressing the backlog of low-performing pavements |
| Preservation of high and mid-performing pavements |
| This result is consistent with good asset management practices. And based on actual condition data instead of pavement age as a surrogate for condition, a much clearer picture of pavement needs is defined. |
| In June 2015, The Town has procured Stantec's RoadMatrix, a Commercial-of-the- shelf pavement management software to replace the INFRA/PAVE software system. Pavement condition data collection will be done town-wide in the summer of 2015 by the Infrastructure Management Services (IMS). |
| The RoadMatrix software system has the ability to provide: |
| the overall pavement condition summary, individual pavement condition breakdown, future deterioration condition based on different funding scenarios (e.g. "no funding", "defined funding" and "required funding for maintaining current overall condition"), Determined 3, 5 and 10-year road capital reconstruction plans. |
| For the pavement data collection, IMS will use the Laser Road Surface Tester (RST), enhanced with digital imagery and GPS capabilities. The RST, with its 11 camera array, is capable of collecting a full suite of pavement condition data in real time, complete with high accuracy GPS coordinates and multiple view digital images for both rigid and flexible pavements as it traverses the Town's roadways. An integrated Digital Direct Condition Rating System (DDCRS) supplements the RST data for additional distress data elements, quality assurance and inventory information. |

| | Specialized data processing, using GIS, allows the pavement data to be quickly checked for completeness and quality. When completed, the 2015 pavement condition survey data will be loaded into RoadMatrix and a pavement management report will be issued highlighting the current roads condition, future condition based on different funding scenarios, estimated needs based on a 3, 5 and 10-year horizons and recommended road treatments for each time horizon. |
|---|---|
| REHABILITATION AND REPLACEMENT STRATEGY: | Using the planning parameters described above, the 10-year capital road reconstruction and resurfacing plan is being developed. The most effective engineering solutions for the existing pavement network may not be achievable under budget limits, operational considerations, capacity requirements, etc. These constraints to planning can include funding source mix, funding limitations, public approval of projects, coordination with other infrastructure work, construction closure limits, traffic capacity needs as well as other considerations unique to Aurora. |
| LIFE CYCLE CONSEQUENCES: | A final recommended 10-yr capital road reconstruction plan is a living document, the result of integrated planning and iterative processes. INFRA/PAVE provides candidate project lists and multi-year plans with performance (PCI) and budget impacts. Town of Aurora professional engineering staff determines the final plan then that advances selected projects to design construction. The 10-yr Capital Road Reconstruction Plan is part of the Town's 10-yr Capital Investment Plan. If road conditions and maintenance is not adequate, level of service is affected and risks and liabilities are increased. |
| INTEGRATED ASSET PRIORITIES: | A road rehabilitation project drives the replacement of underground water and sewer infrastructure if the infrastructure is near the end of its life cycle. |
| CORPORATE/CONSULTING REPORTS ON SUBJECT: | Public Sector Accounting Board (PSAB) – s. 3150 Town of Aurora Pavement Management System, Oct. 2010 10-yr Capital Investment Plan 2015-2025 Audited Financial Statements (payment certificates) |
| ESTIMATED COST: | Total Cumulative Estimated 10-yr Capital Cost for repair and replacement projects for roads and related for the ten year period covering 2015 to 2025 is \$39,848,100 |

WATERMAIN SYSTEMS

| INVENTORY: | The Town of Aurora has 201.5 kilometers of watermain |
|---|--|
| ANTICIPATED ASSET LIFE CYCLE: | The anticipated asset lifecycle ranges between 20 and 100 years. Examples: Watermain PVC – 80 years Ductile Iron – 67 years Cast Iron – 50 years Concrete Pressure – 100 years Valves – 30 years Valve Chamber Structures – 55 years Hydrants – 30 years Water Meters – 20 years |
| INTEGRATED: | May be integrated with road reconstruction projects |
| REHABILITATION AND REPLACEMENT CRITERIA: | Condition Assessment Approach Condition assessments are completed on an annual basis through visual inspection through CCTV which will help identify optimal rehabilitation or replacement year. Performance Assessment Approach This is accomplish through: • Water quality and chlorine residual monitoring • Pressure monitoring • Water loss monitoring Proactive maintenance and replacement to manage risk of failure and maintain performance Routine testing to ensure water quality Material and age based evaluation |

| REHABILITATION AND REPLACEMENT STRATEGY: | Rehabilitation/renewal and expansion activities are scheduled as per the "Ten Year Capital Investment Plan, 2015 to 2025" |
|---|---|
| LIFE CYCLE CONSEQUENCES: | If the life cycle of the water system were reduced, the level of service is lowered and safety may be compromised. |
| INTEGRATED ASSET PRIORITIES: | A road rehabilitation project drives the replacement of underground water system infrastructure if the said infrastructure is near the end of its life cycle. |
| CORPORATE/CONSULTING REPORTS ON SUBJECT: | Public Sector Accounting Board (PSAB) – s. 3150 10-yr Capital Investment Plan 2015-2025 Audited Financial Statements (payment certificates) |
| ESTIMATED COST: | Total estimated cumulative capital cost for the 10 year period covering 2015 to 2025: \$14,244,800 |

WASTEWATER SYSTEMS

| INVENTORY: | The Town of Aurora has 174.6 kilometers of sanitary sewers |
|---|--|
| ANTICIPATED ASSET LIFE CYCLE: | The anticipated asset lifecycle ranges between 50 and 100 years. Sewers PVC – 80 years Ductile Iron – 67 years Cast Iron – 50 years Concrete – 55 years Asbestos Cement – 67 years High Density Poly Ethylene – 100 years Vitrified Clay – 55 years Maintenance Chambers Concrete – 55 years Brick – 100 years |
| INTEGRATED: | May be integrated with road reconstruction projects |
| REHABILITATION AND REPLACEMENT CRITERIA: | Condition Assessment Approach Condition assessments are completed on an annual basis through visual inspection through CCTV which will help identify optimal rehabilitation or replacement year. Performance Assessment Approach This is accomplish through: Inflow/infiltration studies Dye testing Leak tracking through CCTV Risk Assessment Approach Proactive maintenance and replacement to manage risk of failure and maintain performance Material and age based evaluation |
| REHABILITATION AND REPLACEMENT STRATEGY: | Rehabilitation/renewal and expansion activities are scheduled as per the "Ten Year Capital Investment Plan, 2014 to 2023" |

| LIFE CYCLE CONSEQUENCES: | If the life cycle of the water system were reduced, the level of service is lowered and safety may be compromised. |
|---|---|
| INTEGRATED ASSET PRIORITIES: | A road rehabilitation project drives the replacement of underground water system infrastructure if the said infrastructure is near the end of its life cycle. |
| CORPORATE/CONSULTING REPORTS ON SUBJECT: | Public Sector Accounting Board (PSAB) – s. 3150 10-yr Capital Investment Plan 2015-2025 Audited Financial Statements (payment certificates) |
| ESTIMATED COST: | Total estimated cumulative capital cost for the 10 year period covering 2015 to 2025: \$8,653,000 |

STORMWATER SYSTEMS & CULVERTS

| INVENTORY: | The Town of Aurora has 154.2 kilometers of storm sewers, 44 stormwater management facilities and 26 oil/grit separators |
|---|---|
| ANTICIPATED ASSET LIFE CYCLE: | The anticipated asset lifecycle ranges between 20 and 80 years Examples include: Sewers PVC – 80 years Ribbed PVC – 80 years Corrugated Pipe – 30 years Concrete – 55 years Asbestos Cement – 67 years Vitrified Clay – 55 years Maintenance Chambers Concrete – 55 years Maintenance Chambers Concrete – 55 years Headwalls – 55 years Headwalls – 55 years Catchbasins Concrete – 55 years Brick – 100 years |
| INTEGRATED: | Stormwater management facilities – no defined lifecycle in PSAB May be integrated with road reconstruction projects |
| REHABILITATION AND REPLACEMENT CRITERIA: | Condition Assessment Approach For storm sewers is completed on an annual basis through visual inspection through CCTV which will help identify optimal rehabilitation or replacement year. for culverts is completed by visual inspection for stormwater management facilities is completed by visual inspection as well as according to the operation and maintenance manuals Performance Assessment Approach This is accomplish through: Discharge water quality assessments Design capacity assessments |

| | Risk Assessment Approach |
|---|---|
| | Proactive maintenance |
| | Technical studies to assess overall system priorities |
| REHABILITATION AND REPLACEMENT STRATEGY: | Rehabilitation/renewal and expansion activities are scheduled as per the "Ten Year Capital Investment Plan, 2014 to 2023" |
| LIFE CYCLE CONSEQUENCES: | If the life cycle of the stormwater systems were reduced, the level of service is lowered and safety and property value may be compromised due to the risk of flooding. |
| INTEGRATED ASSET PRIORITIES: | A road rehabilitation project drives the replacement of underground stormwater system infrastructure if the said infrastructure is near the end of its life cycle. |
| CORPORATE/CONSULTING | • Public Sector Accounting Board (PSAB) – s. 3150 |
| REPORTS ON SUBJECT: | 10-yr Capital Investment Plan 2015-2025 |
| | Audited Financial Statements (payment certificates) |
| ESTIMATED COST: | Total estimated cumulative capital cost for the 10 year period covering 2015 to 2025: \$13,348,600 |

FACILITIES

| INVENTORY The Town has 22 facilities and buildings. (As of the end of 2014) | | | | |
|--|---|--|--|--|
| ANTICIPATED ASSET LIFE CYCLE: | Facilities and their components (roof, HVAC, etc.) have an assessed useful life ranging from 15 to 50 years. Some examples include: Boilers- 25 years Building Automation System - 20 years Concrete Foundation – 50 years Generators – 30 years HVAC - 15 to 25 years Lighting – 15 years Parking Lot – 30 years Roof – 30 years | | | |
| INTEGRATED: | Individual asset components are reviewed; projects are lumped together per asset to take advantage of the "economies of scale" principle. Consideration is given to minimize the disruption of operations to a given asset over time. | | | |
| REHABILITATION AND REPLACEMENT CRITERIA: | Each facility is assessed based on its physical condition and its capacity condition. Physical condition is ranked on a scale from very poor to very good. Capacity condition is dependent on the percentage of demand the facility, in its current condition, can support. | | | |
| REHABILITATION AND REPLACEMENT STRATEGY: | The physical condition ranking helps identify the action that must be taken (renewal/rehabilitation, maintenance, replacement, etc.). The capacity condition ranking helps identify whether the asset is achieving its Expected Level of Service. Assets with a low condition ranking should be replaced or upgraded to meet life cycle, industry, technological and safety standards. | | | |
| LIFE CYCLE CONSEQUENCES: | Consequences include increased deterioration of building and properties, health and safety concerns, inefficient operation, higher operating costs, accelerated depreciation of Town assets. | | | |
| INTEGRATED ASSET PRIORITIES: | Replacement is based on actual condition, the point in time within its life cycle and the availability of resources to complete the replacement with minimal disruption to the program/service delivery within the asset. | | | |

| CORPORATE/CONSULTING REPORTS ON SUBJECT: | Public Sector Accounting Board (PSAB) – s. 3150 10-yr Capital Investment Plan 2015-2025 |
|---|---|
| ESTIMATED COST: | Total estimated cumulative capital cost for the 10 year period covering 2015 to 2025: \$19,633,200 , including \$1,375,000 in planned accessibility R&R costs. |

VEHICLES

| INVENTORY: | The Town has approximately 90 vehicles and related pieces. | | | |
|---|--|--|--|--|
| ANTICIPATED ASSET LIFE CYCLE: | The useful life of a vehicle varies depending on the service area and vehicle type, siz and cost. The assessed range is between 10 and 15 years. Examples include: Gator and Trailer- 15 years Pick-up trucks- 10 years Heavy Trucks(Dump, Plow, Tandem)- 15 years Vans- 10 years Loaders-/backhoes- 12 years Tractors- 15 years | | | |
| INTEGRATED: | Integrated with technical advances and financial plans, environmental regulations, operational changes, and service increases or decreases. | | | |
| REHABILITATION AND REPLACEMENT CRITERIA: | Lifecycle cost analysis considering depreciation, fuel, repairs, insurance, downtime costs, etc. will identify optimal replacement year for vehicle classes. | | | |
| REHABILITATION AND REPLACEMENT STRATEGY: | Review usage to warrant replacement, repair costs should not exceed normal levels for the type of vehicle involved. Review lease, seasonal rental opportunities, refurbishing strategies and possibility of contracting services to third party. | | | |
| LIFE CYCLE CONSEQUENCES: | As cost per kilometer increases, increased downtime requiring more spare units or work schedules to be lengthened, increasing manpower costs, resulting in a loss of production. | | | |
| INTEGRATED ASSET PRIORITIES: | Replacement is based on actual condition, the point in time within its life cycle, and the availability of resources to complete the replacement with minimal disruption to the program/service delivery within the asset. | | | |
| CORPORATE/CONSULTING REPORTS ON SUBJECT: | Public Sector Accounting Board (PSAB) – s. 3150 10-yr Capital Investment Plan 2015-2025 Town of Aurora Tangible Capital Asset Policy 18 Year Vehicle/Equipment Replacement Schedule – 2010-2028 (revised Jan 24, 2013) | | | |
| ESTIMATED COST: | Total estimated cumulative capital cost for the 10 year period covering 2015 to 2025: \$1,624,500 | | | |

MACHINERY & EQUIPMENT

| INVENTORY: | Equipment includes furniture and fixtures, generators, mowers, trimmers, saw chippers, pumps, nozzles hoses, air packs, specialty water rescue, safety clothing, ladders, communications, technology, extrication and fuel power for all departments. Equipment also includes all items necessary for transportation services, protection services and recreation and culture services. Equipment may be fixed or movable tangible capital asset used for operations. Equipment also includes information technology and telecom equipment such as IT Ethernet cabling, fibre optic cabling, servers, switches & hubs, firewalls, routers, UPS's, desktops, laptops, tablets, server room cooling and fire suppression systems, printer fleet, telephony network cabling, and equipment, handsets. | |
|---|---|--|
| ANTICIPATED ASSET LIFE CYCLE: | The useful life of equipment ranges from 5 to 25 years. Some examples include: Playground equipment- 10-20 years Ice Resurfacers- 5 years Mowers - 5 years Solar Powered Signs – 8 years Air Compressor – 8 years Computers, printers, monitors & accessories – 5 years Servers, routers & accessories – 7 years IT Network Equipment – 5 years Telephone Lines & Cables – 30 years Telephone system – 10 years | |
| INTEGRATED: | Individual assets are kept on a replacement schedule roughly matching the useful life ranges. In instances where performance has not yet begun to deteriorate, IT and telecommunication equipment replacements will be delayed in order to more effectively manage resource requirements. They are placed so as not to disrupt the operations. | |
| REHABILITATION AND REPLACEMENT CRITERIA: | The only criterion above useful life is when the asset's productivity decreases. | |
| REHABILITATION AND REPLACEMENT STRATEGY: | Review usage to warrant replacement, repair costs should not exceed normal levels for the type of equipment involved. Review lease, seasonal rental opportunities, refurbishing strategies and possibility of contracting services to third party. | |
| LIFE CYCLE | Consequences include disruption of the operation and potential increased maintenance | |

| CONSEQUENCES: | costs depending on the equipment involved. | | |
|---|--|--|--|
| INTEGRATED ASSET PRIORITIES: | Replacement is based on actual condition, the point in time within its life cycle, and the availability of resources to complete the replacement with minimal disruption to the program/service delivery within the asset. | | |
| CORPORATE/CONSULTING REPORTS ON SUBJECT: | Public Sector Accounting Board (PSAB) – s. 3150 10-yr Capital Investment Plan 2015-2025 IT Equipment Evergreen plan 18 Year Vehicle/Equipment Replacement Schedule – 2010-2028 (revised Jan 24, 2013) | | |
| ESTIMATED COST: | Total estimated cumulative capital cost for the 10 year period covering 2015 to 2025: \$6,258,000 ; this amount includes \$1,535,300 in IT and telecom equipment planned R&R costs. | | |

LAND, PARKLAND & LAND REHABILITATION / IMPROVEMENTS

| INVENTORY: | The Town of Aurora covers 49 square kilometers, located in the centre of the Regional Municipality of York. The town owns approximately 700 acres of combined open space and parkland, in addition to land associated with Municipal Facilities and land maintained for environmental purposes (storm water ponds). There are also approximately 48 kilometres of off-road trails, 32 playgrounds, 9 tennis courts, 7 basketball courts, 17 baseball diamonds, 33 soccer fields and 14 outbuildings/shelter/washrooms. | |
|---|--|--|
| ANTICIPATED ASSET LIFE CYCLE: | Land usually has an indefinite useful life that exceeds the useful lives of the buildings, roads or structures situated on the land. The cost of the acquired land is not amortized as land normally maintains its value over time. Land improvements (such as landscaping, fencing, etc.) have a useful life ranging from 20-30 years. Out Buildings, Washrooms and Park Shade Structures - 20-30 years Parking Lots- 20 -30 years Sports Fields/Courts- 20-30 years Trails Paths/Bridges- 25-35 years Line Fencing 20-35 years | |
| INTEGRATED: | Land and land improvements are integrated with roads, buildings, bridges & culverts, as well as, water and sewers. | |
| REHABILITATION AND REPLACEMENT CRITERIA: | Based on life cycle and visual inspections. | |
| REHABILITATION AND REPLACEMENT STRATEGY: | Assets are reviewed annually and maintenance, rehabilitation/renewal, and expansion activities scheduled as required in the 10 year plan. | |
| LIFE CYCLE CONSEQUENCES: | Land has an indefinite life cycle. However, there is a potential increase in maintenance and rehabilitation costs depending on the improvements involved. | |
| INTEGRATED ASSET PRIORITIES: | Land improvement rehabilitation forecasts should be compared to transportation infrastructure forecasts. The integration of projects occurs internally and externally | |
| CORPORATE/CONSULTING REPORTS ON SUBJECT: | Public Sector Accounting Board (PSAB) – s. 3150 10-yr Capital Investment Plan 2015-2025 The Economic Value of Natural Capital Assets Report (June 2013) | |

| ESTIMATED COST: | Total estimated cumulative capital cost for the 10 year period covering 2015 to 2025: \$7,194,300 |
|-----------------|--|
| | |

URBAN FORESTRY & STREET TREES

| INVENTORY: | The Town of Aurora currently maintains an extensive inventory of urban street trees totaling 18,273 trees. The Town of Aurora also has approximately 50ha of woodlot property. | | |
|---|---|--|--|
| ANTICIPATED ASSET LIFE CYCLE: | Due to locations and environmental impacts 0.85% of the street tree inventory requires replacement on an annual basis. Mortality of street trees is attributed to number of factors including vehicle collision, insect/disease infestations and poor site conditions. Surviving street trees have a useful life ranging from 30-70 years. Woodlands are ever changing and evolving life cycle although management must occur to ensure long term viability, diversity of species and public safety. | | |
| INTEGRATED: | Street Trees are integrated with roads and general urban streetscape, in conjunction with pedestrian and vehicular traffic. Woodlands are integrated with parks and public spaces. | | |
| REHABILITATION AND REPLACEMENT CRITERIA: | Based on life cycle, environmental impacts, mechanical injury and visual inspections. | | |
| REHABILITATION AND REPLACEMENT STRATEGY: | Street Trees are inspected annually and pruned on a 6-year cycle, with replacement and removal though work order system. Rehabilitation / replacement of street trees based on historic service level and as required by newly emerging threats (i.e. Emerald Ash Borer) and are scheduled as required in the 10 year plan where possible. | | |
| LIFE CYCLE CONSEQUENCES: | Consequences include greater public liability risk with defective street trees, diminished quality of urban streetscape, reduced property values, increased maintenance costs and greater risk of further decline of urban forest due to a wide variety of environmental factors. | | |
| INTEGRATED ASSET PRIORITIES: | Street tree replacement and maintenance is based on a number of factors including: actual condition of the asset; the point in time within its life cycle; and the availability of resources to complete the necessary functions with minimal disruption to the program/service delivery The integration of projects occurs internally and externally. | | |

| CORPORATE/CONSULTING REPORTS ON SUBJECT: | Public Sector Accounting Board (PSAB) – s. 3150 10-yr Capital Investment Plan 2015-2025 EAB Management Strategy Reports Aurora Woodlands Managed Forest Plan The Economic Value of Natural Capital Assets Report (June 2013) |
|---|--|
| ESTIMATED COST: | Total estimated cumulative capital cost for the 10 year period covering 2015 to 2025, Broken down by: EAB Treatment \$2,120,000 Rehabilitation & Repair: Nil |

APPENDIX 2 – LINEAR ASSET INVENTORY REPORT

With the reporting requirements of PSAB 3150, the Town of Aurora submits an inventory of all tracked assets that are owned and maintained by the town. These assets are categorized and required attributes are captured for each category to ensure that there is a proper valuation of the asset for future lifecycle purposes. The critical attribute fields submitted in the PSAB reports are listed below with descriptions and samples for each asset category.

ROADS

| | Description | Sample | Sample |
|------------------|---|---------------------|-----------------------|
| ID | Unique identifier - not to be recycled | STR-RD-1035-11 | STR-RD-1035-12 |
| | Notes all projects that are involved with | | |
| Project ID | installation/improvements | 31048 | 31048-2013 |
| Location | | | Mark Street to Batson |
| Description | Assists with asset identification | Catherine to Centre | Drive |
| Road Length (m) | Centreline length of the road | 119.50 | 642.10 |
| Road Width (m) | From edge to edge of asphalt | 7.5 | 8 |
| Road Area (m2) | Quantity retrieved from GIS | 938.23 | 5590.38 |
| | Determined based on traffic volume and | | |
| Road Type | speed limit | Local | Local |
| Right of Way | | | |
| Width | From property line to property line | 22 | 20.12 |
| Lane Count | number of vehicle lanes on ROW | 2 | 2 |
| | Year of last asphalt | | |
| Date Constructed | construction/remediation | 2012 | 2013 |
| Life Span | Estimated years of useful service | 36 | 36 |
| | Costs incurred by the town or estimated | | |
| | values for the asset's | | |
| Cost History | construction/improvement | 2012 - \$75,022.93 | 2013 - \$428,592.82; |

PAVEMENT AND CURBS

| | Description | Sampla | Samala |
|------------------|---|---------------------|-------------------|
| | Description | Sample | Sample |
| ID | Unique identifier - not to be recycled | STR-SW-3110-03 | STR-SW-3110-04 |
| | Notes all projects that are involved with | | |
| Project ID | installation/improvements | 31104-2013 | 31104-2013 |
| Location | | Child Drive to | Patrick Drive to |
| Description | Assists with asset identification | Patrick Drive | Murray Drive |
| Length (m) | Quantity retrieved from GIS | 155.0 | 65.9 |
| Width (m) | From edge to edge | 1.5 | 1.5 |
| Area (m2) | Based on length and width | 232.44 | 98.88 |
| | Defined material affects lifecycle and | | |
| Material | asset purpose | Concrete | Concrete |
| Date Constructed | Year of installation | 2013 | 2013 |
| Life Span | Estimated years of useful service | 30 | 30 |
| | Costs incurred by the town or estimated | | |
| | values for the asset's | | |
| Cost History | construction/improvement | 2013 - \$17,617.45; | 2013 - \$7,494.19 |

| STREET LUMINAI | RES | | |
|------------------|---|--------------------|--------------------|
| | Description | Sample | Sample |
| ID | Unique identifier - not to be recycled | STR-LI-1620-03 | STR-LI-1620-04 |
| Project ID | Notes all projects that are involved with installation/improvements | | |
| Pole Material | Asset material, design, and/or function | Trafalgar | Trafalgar |
| Date Constructed | Year of installation | 2005 | 2005 |
| Life Span | Estimated years of useful service | 30 | 30 |
| Cost History | Costs incurred by the town or estimated values for the asset's construction/improvement | 2011 - \$5,057.36; | 2011 - \$5,057.36; |

SIGNAGE

| | Description | Sample | Sample |
|------------------|---|------------------|-----------------|
| ID | Unique identifier - not to be recycled | STR-SN-3110-39 | STR-SN-3110-40 |
| | Notes all projects that are involved with | | |
| Project ID | installation/improvements | 31104-2013 | 31104-2013 |
| MTO Code | Regulatory reference type code | RA-1 | RA-1T |
| Date Constructed | Year of installation | 2013 | 2013 |
| Life Span | Estimated years of useful service | 10 | 10 |
| | Costs incurred by the town or estimated | | |
| | values for the asset's | | |
| Cost History | construction/improvement | 2013 - \$375.87; | 2013 - \$41.76; |

WATERMAIN SYSTEMS

WATERMAINS

| | Description | Sample | Sample |
|------------------|---|---------------------|---------------------|
| ID | Unique identifier - not to be recycled | WTR-LN-3220-06 | WTR-LN-3220-07 |
| Project ID | Notes all projects that are involved with installation/improvements | 31078 | 31078 |
| Length | Quantity retrieved from GIS | 57.6 | 78.7 |
| Diameter | Size of watermain pipe diameter | 200 | 200 |
| Material | Defined material affects lifecycle and asset purpose | Polyvinyl Chloride | Polyvinyl Chloride |
| Date Constructed | Year of installation | 2010 | 2010 |
| Date Relined | Year of full length remediation | | |
| Life Span | Estimated years of useful service | 80 | 80 |
| Cost History | Costs incurred by the town or estimated values for the asset's construction/improvement | 2010 - \$19,022.29; | 2010 - \$26,014.13; |

| WATERMAIN VALVES | | | |
|------------------|---|--------------------|--------------------|
| | Description | Sample | Sample |
| ID | Unique identifier - not to be recycled | WTR-WV-4005-02 | WTR-WV-4005-03 |
| | Notes all projects that are involved with | | |
| Project ID | installation/improvements | 31030 | 31030 |
| | Size of watermain pipe diameter the valve | | |
| Diameter | is attached to | 150 | 150 |
| | Whether the valve is enclosed in an | | |
| Valve within | underground chamber or has an access | | |
| Chamber | box at grade | No | No |
| Date Constructed | Year of installation | 2006 | 2006 |
| | | | |
| Life Span | Estimated years of useful service | 30 | 30 |
| | Costs incurred by the town or estimated | | |
| | values for the asset's | | |
| Cost History | construction/improvement | 2006 - \$2,328.98; | 2006 - \$2,328.98; |

| HYDRANTS | | | |
|------------------|---|--------------------|--------------------|
| | Description | Sample | Sample |
| ID | Unique identifier - not to be recycled | WTR-HY-1080-01 | WTR-HY-1085-01 |
| Project ID | Notes all projects that are involved with installation/improvements | CP2013-1 | CP2013-1 |
| Date Constructed | Year of installation | 2007 | 2007 |
| Life Span | Estimated years of useful service | 30 | 30 |
| Cost History | Costs incurred by the town or estimated values for the asset's construction/improvement | 2007 - \$4,875.87; | 2007 - \$4,875.87; |

| NATER BOOSTER | | 1 |
|------------------|---|---------------------|
| | Description | Sample |
| ID | Unique identifier - not to be recycled | WTR-BS-2190-01 |
| | Notes all projects that are involved with | |
| Project ID | installation/improvements | |
| | Electrical control system used for monitoring/managing the pump | |
| Control System | facility | 3 Phase - 600 Volts |
| Pumps | Size and quantity of pumps part of the facility | 2-5", 1-6" |
| Standby | | |
| Generator | Type and output of emergency generator | 125 Kw Diesel |
| Date Constructed | Year of installation | 1998 |
| Life Span | Estimated years of useful service | 50 |
| | Costs incurred by the town or estimated values for the asset's | |
| Cost History | construction/improvement | 2008 - \$400,000.00 |

WASTEWATER SYSTEMS

SANITARY SEWERS

| | Description | Sample | Sample |
|--------------------------|---|--------------------|--------------------|
| ID | Unique identifier - not to be recycled | SAN-LN-4110-05 | SAN-LN-4110-06 |
| Project ID | Notes all projects that are involved with installation/improvements | 31077-2013 | 31077-2013 |
| Length | Quantity referenced from design schematic | 34.5 | 4.7 |
| Diameter | Size of sewer pipe diameter | 300 | 375 |
| Depth | Average depth of pipe below grade | 3.0 | 1.2 |
| Material | Defined material affects lifecycle and asset purpose | Polyvinyl Chloride | Concrete Pipe |
| Upstream MH ID | Reference ID for asset located at the upstream of the sewer | SAN-MH-4110-06 | SAN-MH-4110-04 |
| Upstream Inverts | Elevation of the sewer at the point of entry | 256.55 | 252.68 |
| Downstream MH ID | Reference ID for asset located at the downstream of the sewer | SAN-MH-4110-05 | SAN-MH-4110-07 |
| Downstream MH Inverts | Elevation of the sewer at the point of exit | 254.85 | 252.66 |
| Date Constructed | Year of installation | 2011 | 2011 |
| Date Relined | Year of full length remediation | | |
| Life Span | Estimated years of useful service | 80 | 55 |
| | Costs incurred by the town or estimated values for the asset's | | |
| Cost History | construction/improvement | 2011 - \$10994.49; | 2011 - \$1,950.62; |

| | Description | Sample | Sample |
|-------------------|---|--|--------------------|
| ID | Unique identifier - not to be recycled | SAN-MH-4110-03 | SAN-MH-4110-04 |
| Project ID | Notes all projects that are involved with installation/improvements | 31077-2013 | 31077-2013 |
| Diameter | Distance between the chamber walls | 1200 | 1200 |
| Depth | Full height of the structure | 3.1 | 1.2 |
| Material | Defined material affects lifecycle and asset purpose | Brick | Concrete-Precast |
| Surface Elevation | Elevation of the top of the structure | 260.14 | 253.93 |
| Date Constructed | Year of installation | 1932 | 2011 |
| Date Relined | Year of full structural remediation | | |
| Life Span | Estimated years of useful service | 100 | 55 |
| Cost History | Costs incurred by the town or estimated values for the asset's construction/improvement | 2009 - \$3999.66; 2011 - \$1585.99; | 2011 - \$4,417.07; |

| SANITARY PUMPING STATIONS | | | | |
|---------------------------|--|----------------------|---------------------|--|
| | Description | Sample | Sample | |
| ID | Unique identifier - not to be recycled | SAN-PS-4465-01 | SAN-PS-5060-01 | |
| Project ID | Notes all projects that are involved with installation/improvements | | | |
| Wet Well | Total storage capacity | 30.31 m ³ | 4.52 m³ | |
| Control System | Electrical control system used for monitoring/managing the pump facility | 3 Phase - 575 Volts | 3 Phase - 220 Volts | |
| Pumps | Size and quantity of pumps part of the facility | 2 - CP 3140 HT | 2 - 4" Pumps | |
| Standby Generator | Type and output of emergency generator | 40 Kw Diesel | 40 Kw Diesel | |
| Date Constructed | Year of installation | 2003 | 1996 | |

| Constructed | Year of installation | 2003 | 1996 |
|--------------|--|----------------------|----------------------|
| Life | | | |
| Span | Estimated years of useful service | 50 | 50 |
| | Costs incurred by the town or estimated values for the asset's | | |
| Cost History | construction/ improvement | 2003 - \$602,063.78; | 1996 - \$290,000.00; |

STORMWATER SYSTEMS & CULVERTS

STORM SEWERS

| | Description | Sample | Sample |
|--------------------------|---|--|--|
| ID | Unique identifier - not to be recycled | STM-LN-4085-08 | STM-LN-4085-09 |
| Project ID | Notes all projects that are involved with installation/improvements | 31076 | 31076 |
| Length | Quantity referenced from design schematic | 63.70 | 81.40 |
| Diameter | Size of sewer pipe diameter | 300 | 375 |
| Depth | Average depth of pipe below grade | 1.7 | 1.7 |
| Material | Defined material affects lifecycle and asset purpose | Ribbed Polyvinyl Chloride (Ultra Rib) | Ribbed Polyvinyl Chloride (Ultra Rib) |
| Upstream MH ID | Reference ID for asset located at the upstream of the sewer | STM-MH-4085-05 | STM-MH-4085-06 |
| Upstream Inverts | Elevation of the sewer at the point of entry | 266.88 | 265.48 |
| Downstream MH ID | Reference ID for asset located at the downstream of the sewer | STM-MH-4085-06 | STM-MH-4070-11 |
| Downstream MH Inverts | Elevation of the sewer at the point of exit | 265.56 | 264.26 |
| Date Constructed | Year of installation | 2011 | 2011 |
| Date Relined | Year of full structural remediation | | |
| Life Span | Estimated years of useful service | 80 | 80 |
| | Costs incurred by the town or estimated values for the asset's | | |
| Cost History | construction/improvement | 2011 - \$23,110.28; | 2011 - \$32,896.44; |

MAINTENANCE CHAMBERS

| | Description | Sample | Sample |
|-------------------|---|----------------|------------------|
| ID | Unique identifier - not to be recycled | STM-MH-1715-02 | STM-MH-1715-03 |
| Project ID | Notes all projects that are involved with installation/improvements | S2012-1 | S2012-1 |
| Diameter | Distance between the chamber walls | 1200 | 1800 |
| Depth | Full height of the structure | 3.2 | 3.7 |
| Material | Defined material affects lifecycle and asset purpose | Brick | Concrete-Precast |
| Surface Elevation | Elevation of the top of the structure | 255.40 | 255.35 |
| Date Constructed | Year of installation | 2007 | 2007 |
| Date Relined | Year of full structural remediation | | |
| Life Span | Estimated years of useful service | 55 | 55 |

| | Costs incurred by the town or estimated values for the asset's | | |
|--------------|--|--------------------|--------------------|
| Cost History | construction/improvement | 2007 - \$3,800.00; | 2007 - \$5,300.00; |

CATCHBASINS

| | Description | Sample | Sample | | |
|------------------|---|--|--------------------|--|--|
| ID | Unique identifier - not to be recycled | STM-CB-1030-05 | STM-CB-1030-06 | | |
| Project ID | Notes all projects that are involved with installation/improvements | 31048 | 31048 | | |
| Material | Defined material affects lifecycle and asset purpose | Concrete-Precast | Concrete-Precast | | |
| Date Constructed | Year of installation | 2003 | 2012 | | |
| Life Span | Estimated years of useful service | 55 | 55 | | |
| Cost History | Costs incurred by the town or estimated values for the asset's construction/improvement | 2009 - \$2,728.79; 2012 - \$1,244.55; | 2012 - \$4,465.67; | | |

| DRAIN COLLECTO | R SEWERS | | | | |
|------------------|---|---------------------|---------------------|--|--|
| | Description | Sample | Sample | | |
| ID | Unique identifier - not to be recycled | STM-DC-1220-01 | STM-DC-1220-02 | | |
| | Notes all projects that are involved with | | | | |
| Project ID | installation/improvements | | | | |
| | Quantity referenced from design | | | | |
| Length | scematic | 77.3 | 76.4 | | |
| Diameter | Size of sewer pipe diameter | 250 | 250 | | |
| Depth | Avereage depth of pipe below grade | 4.3 | 4.4 | | |
| | Defined material affects lifecycle and | | | | |
| Material | asset purpose | Concrete Pipe | Concrete Pipe | | |
| Drain Type | Defined function of sewer | Foundation Drain | Foundation Drain | | |
| | Reference ID for asset located at the | | | | |
| Upstream MH ID | upstream of the sewer | SAN-MH-1220-03 | SAN-MH-1220-02 | | |
| | Elevation of the sewer at the point of | | | | |
| Upstream Inverts | entry | 253.64 | 253.175 | | |
| Downstream | Reference ID for asset located at the | | | | |
| MH ID | downstream of the sewer | SAN-MH-1220-02 | SAN-MH-1225-05 | | |
| Downstream | Elevation of the sewer at the point of | | | | |
| Inverts | exit | 253.175 | 252.66 | | |
| Date Constructed | Year of installation | 1996 | 1996 | | |
| Date Relined | Year of full structural remediation | | | | |
| Life Span | Estimated years of useful service | 55 | 55 | | |
| | Costs incurred by the town or | | | | |
| | estimated values for the asset's | | | | |
| Cost History | construction/improvement | 2009 - \$40,087.76; | 2009 - \$40,444.55; | | |

STORM WATER MANAGEMENT PONDS

| | Description | Sample | Sample STM-PN-5070-01 | | | | | | |
|-------------------|---|---|---|--|--|--|--|--|--|
| ID | Unique identifier - not to be recycled | STM-PN-5060-01 | | | | | | | |
| Project ID | Notes all projects that are involved with installation/improvements | | | | | | | | |
| Facility ID | Reference ID to other projects | NC11 | NW1 | | | | | | |
| Legal Land Parcel | Parcel of land the pond can be found on | PLAN 65M2873 PT BLK 26 & PLAN 65M3573 BLOCK 274 | PLAN 65M2781 PT LOT 78; 65R20120 PART 59 | | | | | | |
| Area (m2) | Quantity retrieved from GIS | 16751.6 | 3781.8 | | | | | | |
| Facility Type | Typical pond functionality | Wet Pond | Wet Pond | | | | | | |
| Date Constructed | Year of installation | 1999 | 2006 | | | | | | |
| Cost History | Costs incurred by the town or estimated values for the asset's construction/improvement | 2009 - \$1,072,101.86; | 2009 - \$166,403.6; | | | | | | |

| BRIDGES & CULV | ERTS | | |
|------------------|---|---------------------|--|
| | Description | Sample | Sample |
| ID | Unique identifier - not to be recycled | STM-CV-1045-02 | STM-CV-1155-01 |
| Project ID | Notes all projects that are involved with installation/improvements | | |
| Туре | Defined by whether there is fill on the structure or not | Culvert | Bridge |
| Material | Defined material affects lifecycle and asset purpose | Large Steel Culvert | Large Concrete Culvert |
| | Record measurements of the various | 10'1" X 15'6" CSPA, | 19.0m wide by 638.4m long bridge structure on John |
| Dimensions | dimensions of the culvert | Stone Arches | West Way |
| Date Constructed | Year of installation | 1983 | 1989 |
| Life Span | Estimated years of useful service | 30 | 40 |
| Cost History | Costs incurred by the town or estimated values for the asset's construction/improvement | 2009 - \$4,584.38; | 1989 - \$1,250,000.00; |

| CONTINUOUS DE | FLECTIVE SEPARATION & OIL-GRIT | SEPARATOR UNITS | | | |
|------------------|---|-----------------------|------------------------------|--|--|
| | Description | Sample | Sample | | |
| ID | Unique identifier - not to be recycled | STM-OG-1035-01 | STM-OG-1035-02 | | |
| | Notes all projects that are involved with | | | | |
| Project ID | installation/improvements | 31048-2013 | 31048-2013 | | |
| | | Continuous Deflective | Continuous Deflective | | |
| Make | Defines filter function/configuration | Separation | Separation | | |
| | Specific model numbers set by | | | | |
| Model | manufacturer | 5654-10 | 3030-8 | | |
| | | | | | |
| Date Constructed | Year of installation | 2013 | 2013 | | |
| Life Span | Estimated years of useful service | 30 | 30 | | |
| | Costs incurred by the town or estimated | | | | |
| | values for the asset's | | | | |
| Cost History | construction/improvement | 2013 - \$114,920.37; | 2013 - \$51,454.67; | | |

| HEADWALLS | | | | | |
|-------------------------|---|--------------------|---------------------|--|--|
| | Description | Sample | Sample | | |
| ID | Unique identifier - not to be recycled | STM-OF-3110-02 | STM-OF-3110-03 | | |
| | Notes all projects that are involved with | | | | |
| Project ID | installation/improvements | | 31104-2013 | | |
| | Diameter of sewer pipe(s) that outfall at | | | | |
| Outflow Diameter | the headwall | 525 | 1050 | | |
| Date | | | | | |
| Constructed | Year of installation | 2006 | 2013 | | |
| Life Span | Estimated years of useful service | 55 | 55 | | |
| | Costs incurred by the town or estimated | | | | |
| | values for the asset's | | | | |
| Cost History | construction/improvement | 2013 - \$4,258.56; | 2013 - \$10,026.75; | | |

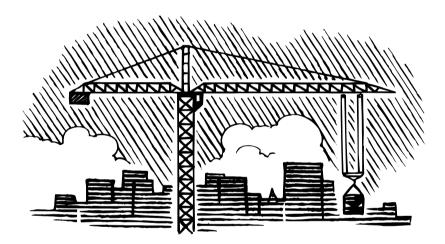
APPENDIX 3 - DETAILED 10-YEAR FINANCIAL FORECAST FOR INFRASTRUCTURE ASSETS

| | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 |
|-----------------------------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| REVENUE | | | | | | | | | | | |
| Line of Credit | - | - | - | - | - | - | - | - | - | - | - |
| Special Purpose Reserves | 871,800 | 914,600 | 1,717,600 | 1,314,600 | 1,044,600 | 1,062,100 | 839,600 | 884,600 | 1,049,600 | 534,800 | - |
| Repair & Replacement Reserve | 7,648,380 | 3,988,935 | 5,554,492 | 3,785,719 | 2,959,276 | 2,347,008 | 1,758,717 | 1,809,715 | 3,429,700 | 2,116,400 | 5,081,817 |
| Growth & New Reserves | 915,700 | 2,126,100 | 339,800 | - | - | - | - | - | - | 30,300 | 576,800 |
| Studies & Other | 519,100 | 6,000 | 105,800 | - | - | - | 30,000 | 100,000 | 150,000 | 110,000 | 8,000 |
| Water / Sewer / Storm Reserves | 3,455,500 | 1,532,600 | 4,284,300 | 3,944,400 | 1,857,700 | 1,100,000 | 4,904,100 | 4,097,100 | 2,584,500 | 1,147,100 | 1,195,700 |
| Development Changes | 2,819,800 | 2,993,100 | 14,287,800 | 6,534,300 | 14,316,400 | 17,685,400 | 3,068,400 | 767,700 | 2,970,000 | 164,300 | 5,263,300 |
| Grants | 1,540,500 | 2,039,600 | 1,617,500 | 1,694,600 | 1,694,600 | 1,694,600 | 1,694,600 | 1,694,566 | 1,694,500 | 1,694,400 | - |
| External Funding | - | - | 9,799,700 | 106,700 | - | - | - | - | - | - | - |
| Other Revenue | - | - | - | - | - | - | - | - | - | - | - |
| Operating Revenues | 6,082,000 | 6,268,100 | 6,615,400 | 6,831,500 | 6,897,300 | 6,964,800 | 7,033,800 | 7,103,800 | 7,175,300 | 7,248,200 | 7,322,400 |
| - | 23,852,780 | 19,869,035 | 44,322,392 | 24,211,819 | 28,769,876 | 30,853,908 | 19,329,217 | 16,457,515 | 19,053,700 | 13,045,500 | 19,448,017 |

| CAPITAL COSTS | | | | | | | | | | | |
|--------------------------------------|------------|------------|-------------|-------------|-------------|-------------|-------------|-------------|------------|-----------|--------------|
| Storm Water Management | 1,721,600 | 288,300 | 1,754,838 | 1,953,969 | 779,429 | 675,000 | 1,079,200 | 2,339,757 | 1,171,031 | 804,029 | 781,400 |
| Wastewater Management | 970,450 | 614,100 | 978,600 | 1,300,671 | 578,266 | 575,000 | 1,456,800 | 545,189 | 551,597 | 543,062 | 539,300 |
| Water Management | 956,850 | 1,180,230 | 2,150,850 | 1,289,792 | 1,100,000 | 450,000 | 2,968,100 | 1,812,140 | 1,461,839 | 400,000 | 475,000 |
| Facilities | 4,703,680 | 2,008,000 | 17,690,300 | 3,905,000 | 11,434,200 | 14,891,300 | 2,316,700 | 1,225,000 | 1,250,000 | 234,000 | 1,850,000 |
| Fleet & Equipment | 633,800 | 1,406,455 | 2,555,000 | 1,225,360 | 618,307 | 1,224,896 | 845,527 | 721,455 | 701,000 | 659,360 | 717,307 |
| Roads | 5,979,300 | 4,823,050 | 7,324,928 | 6,987,679 | 8,295,296 | 9,748,442 | 5,559,968 | 3,481,240 | 2,906,933 | 3,022,849 | 8,263,610 |
| Land, Parkland, Land Improvements | 2,114,500 | 3,150,800 | 6,121,950 | 3,402,250 | 3,291,300 | 2,631,600 | 2,621,900 | 890,000 | 4,202,000 | 625,000 | 20,000 |
| Non-Infrastructure Solutions | 1,405,000 | 1,320,000 | 1,700,000 | 1,377,000 | 280,000 | 110,000 | 300,000 | 300,000 | 250,000 | 110,000 | 80,000 |
| | 18,485,180 | 14,790,935 | 40,276,466 | 21,441,721 | 26,376,798 | 30,306,238 | 17,148,195 | 11,314,781 | 12,494,400 | 6,398,300 | 12,726,617 |
| OPERATING COSTS - MA | INTENANCE | | | | | | | | | | |
| Storm Water Management | 325,100 | 330,600 | 341,400 | 343,700 | 345,800 | 348,000 | 350,300 | 352,600 | 355,000 | 357,400 | 359,800 |
| Wastewater Management | 530,000 | 532,500 | 540,800 | 543,400 | 545,500 | 547,700 | 550,000 | 552,200 | 554,500 | 556,900 | 559,300 |
| Water Management | 1,283,500 | 1,286,900 | 1,335,500 | 1,348,400 | 1,363,100 | 1,378,100 | 1,393,500 | 1,409,100 | 1,425,000 | 1,441,300 | 1,457,800 |
| Facilities | 1,001,300 | 1,057,000 | 1,122,800 | 1,165,900 | 1,176,100 | 1,186,600 | 1,197,200 | 1,208,000 | 1,219,100 | 1,230,300 | 1,241,800 |
| Fleet & Equipment | 551,300 | 558,900 | 645,300 | 682,700 | 691,100 | 699,600 | 708,300 | 717,200 | 726,200 | 735,400 | 744,800 |
| Roads | 1,339,700 | 1,421,200 | 1,522,600 | 1,628,700 | 1,649,500 | 1,670,900 | 1,692,700 | 1,714,900 | 1,737,600 | 1,760,600 | 1,784,100 |
| Land, Parkland, Land Improvements | 450,100 | 480,000 | 506,000 | 517,700 | 525,200 | 532,900 | 540,800 | 548,800 | 556,900 | 565,300 | 573,800 |
| | 5,481,000 | 5,667,100 | 6,014,400 | 6,230,500 | 6,296,300 | 6,363,800 | 6,432,800 | 6,502,800 | 6,574,300 | 6,647,200 | 6,721,400 |
| CASH SURPLUS (DEFICIT) | (113,400) | (589,000) | (1,968,474) | (3,460,402) | (3,903,222) | (5,816,130) | (4,251,778) | (1,360,066) | (15,000) | - | - |
| TOTAL DEFICIT | | | | | | | | | | | (21,477,472) |

10 YEAR CAPITAL INVESTMENT PLAN 2015 Budget and 10 Year Outlook (2016 to 2025)

Summary



"The 10 Year Capital Investment Plan serves as a roadmap for staff and Council when considering not only the spending of money to buy new, or maintain its existing capital assets, but also to plan for the projects' long term funding so that the money is available when needed."

Other than the identified 2015 budget items, council has not approved or endorsed any of the specific items in the plan. This document is to be used as a reference tool only, and represents a consolidation of the views of various staff members responsible for maintaining assets and services. Other than library facilities, the document does not include any Library Board projects.

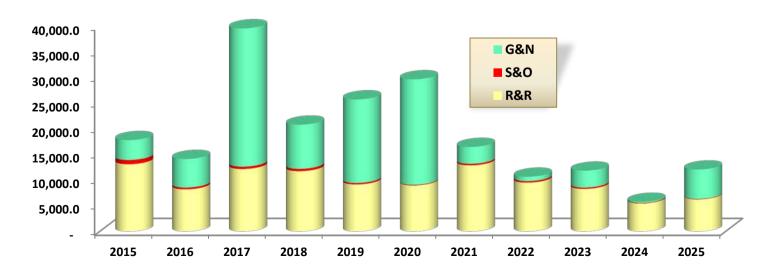
INTRODUCTION

The Town currently owns approximately five hundred million dollars in assets comprised of roads; bridges; buildings; parks; underground water, wastewater and storm water infrastructure; streetlights; and vehicles, etc. This investment needs to be protected through planning for the repair or replacement of these assets to properly maintain them; and equally as important is the planning for the funding for these projects.

The 2015 10 Year Capital Investment Plan (total of 11 years - 2015 to 2025) identifies 370 projects with a total capital expenditure of \$205,148,626. Of this, almost 250 projects relate to Repair and/or Replacement ('R&R') of existing infrastructure representing \$106,313,466 or 51.8% of the total plan's dollars; 101 projects relate to Growth Related or New Assets ('G&N'), representing \$95,328,160 or 46.5% of of the total plan's dollars; and less than 30 projects relate to Studies and Other projects ('S&O'), representing \$3,507,000 or 1.7% of the total plan's dollars.



The expenditures are not spread equally over the 11 year period, with major G&N projects in 2017, 2019 and 2020 influencing the phasing:



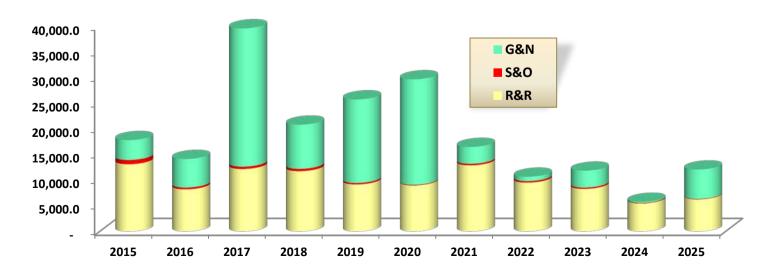
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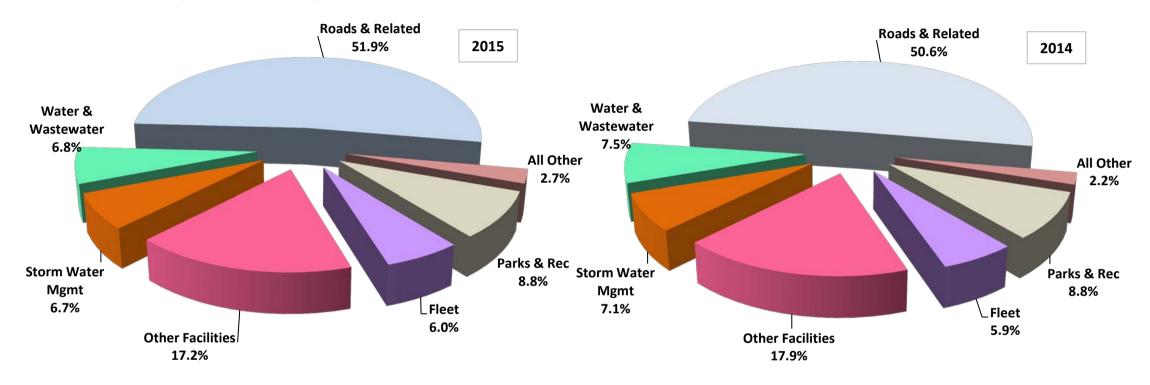
The expenditures are not spread equally over the 11 year period, with major G&N projects in 2017, 2019 and 2020 influencing the phasing:



R & R PROJECTS

As one would expect Repair and Replacement (R & R) projects represent the greatest proportion of the Town's planned investment representing over 56% of the total plan.

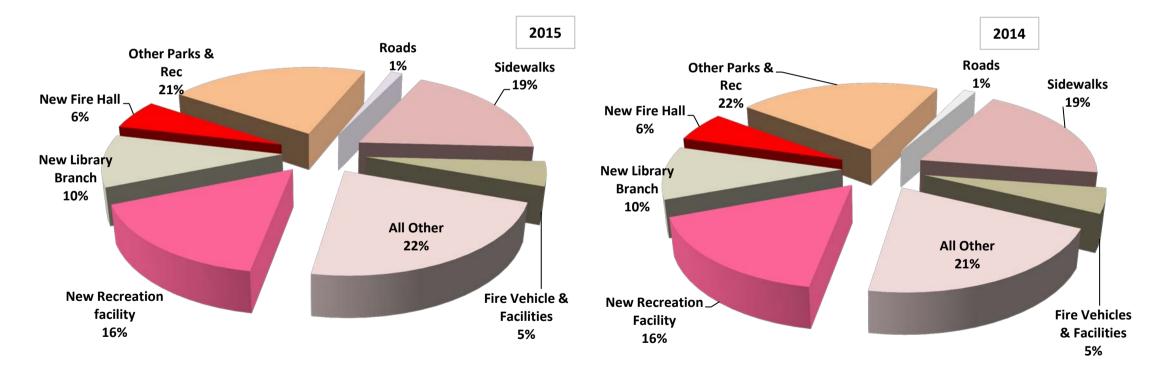
The following is the 11 year category breakdown of the \$106.3 million R&R expenditure:



G & N PROJECTS

There are a number of significant new projects identified throughout the 11 years of the Long Term Capital Investment Plan. These include \$15,250,000 for the design and construction of a new recreation facility (a three year project beginning in 2019), a \$9,500,000 3 year project beginning in 2018 for the design and construction of a new library, and \$ 16,065,000 for the construction of a new fire hall commencing in 2017. These estimates presently reflect the values as they were captured and funded within the Town's 2013 DC Study. These estimates may be subject to change as the requirements and designs for these above noted facilities are finalized.

In addition to these specific large projects there are 23 new sidewalk projects totalling \$17,386,910; and 24 Parks & Recreation projects, including new Trails, a Skate Board Park, new court facilities, and 16 pedestrian crossings associated with the Trail Network, all totalling \$18,385,000.



The following is the 11 year category breakdown of the \$95.3 million G&N expenditure:

S & O PROJECTS

Over the 11 years of the Long Term Capital Investment Plan there are 24 projects totalling \$3,507,000. These include an update of the Town's Strategic Plan (2019); an update of the Development Charges Background Study (2018); an I.T. Strategic Plan (2020);

2 Official Plan Reviews (2016 and 2021), along with a series of growth related planning studies. In

addition, I.E.S. is planning a number of studies in the transportation and environmental areas as well as \$800,000 in water and waste water related studies. Parks and Recreation is planning studies on parks maintenance standards,community buildings use study and an update of the Parks and Recreation Master Plan.

By Department, the S&O Project's \$3,507,000 is anticipated to be spread as follows:

| Administration | \$ 805.0 | 23.0% |
|----------------------|---------------|-------|
| Planning | 600.0 | 17.1% |
| I.E.S. | 1,935.0 | 55.2% |
| Parks and recreation | 167.0 | 4.8% |
| | \$ 3,507.0 | |

MAJOR PROJECT FUNDING

As mentioned above, there are major NEW projects that tend to smooth out the values in the funding model - they are:

| | New Rec <u>Facility</u> | New Library <u>Branch</u> | New Fire <u>Hall</u> | <u>TOTAL</u> |
|-----------------------------------|-------------------------------|---------------------------------|----------------------------|--------------|
| Funding from Development Charges | 13,725.0 | 8,550.0 | 6,158.6 | 28,433.6 |
| Grants | - | - | - | - |
| Funding from Town of Newmarket | - | - | 9,906.4 | 9,906.4 |
| Funding from Growth & New Reserve | 1,525.0 | 950.0 | - | 2,475.0 |
| | 15,250.0 | 9,500.0 | 16,065.0 | 40,815.0 |

FUNDING and RESERVES

As shown graphically on Page 1 of this Executive Summary, the funding requirement varies significantly by year, through the period of the Long Term Capital Investment Plan. This is a problem for a municipality that must collect its main source of revenue (Property Tax) relatively consistently from year to year with a desire of avoiding tax rate fluctuations due to capital needs. This problem is overcome by smoothing the funds coming from taxation through the use of Reserves which act as a "buffer".

The other issue is one of ensuring that the Town has the required funding when it is needed. Annually updating the longer term capital plan is crucial in meeting this need.

The Town has embarked on a program of funding the Infrastructure Reserves from each year's operating budget. This annual amount has approval to grow each year by a variable percentage % of the current year's Town-only projected core Tax Levy. This method ensures a steady (albeit growing) and consistent source of funds going to the Infrastructure Reserves, so that long term capital planning and resultant spending is possible. In recognition of growing inflationary and aging asset pressures, ELT recommended a growth rate of 1.00% for period covering 2015-2025. Town-only projected core Tax Levy per year is recommended as follows:

| <u>2015</u> | <u>2016</u> | <u>2017</u> | <u>2018</u> | <u>2019</u> | <u>2020</u> | <u>2021</u> | <u>2022</u> | <u>2023</u> | <u>2024</u> | <u>2025</u> |
|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| 0.60% | 1.00% | 1.00% | 1.00% | 1.00% | 1.00% | 1.00% | 1.00% | 1.00% | 1.00% | 1.00% |

It should be noted that in addition to internal sources, capital funding sources also include government grants (Federal Gas Tax, the federal government's "Action Plan", Ontario Community Infrastructure Fund (OCIF) being examples), Development Charges, and certain Planning and Engineering Fees charged to developers, although these other sources are usually used for Growth & New projects.

FUNDING and RESERVES (continued)

In this 2015 Long Term Capital Investment Plan, the following shows the requirement for funding from the Infrastructure Reserve accounts, which are in turn funded through the annual "Cash to Capital" coming from the operating budget. (values shown are in thousands of dollars)

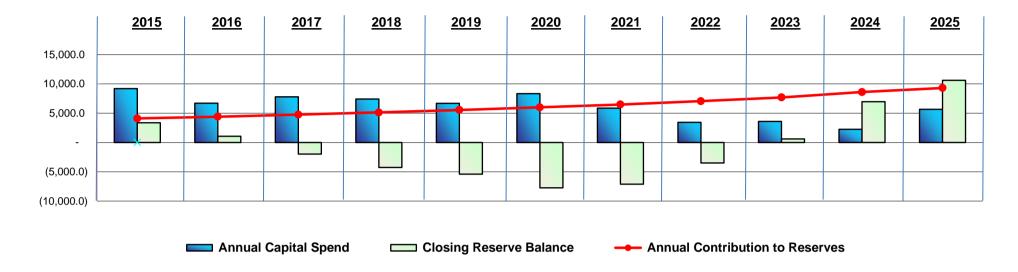
| | <u>2015</u> | <u>2016</u> | <u>2017</u> | <u>2018</u> | <u>2019</u> | <u>2020</u> | <u>2021</u> | <u>2022</u> | <u>2023</u> | <u>2024</u> | <u>2025</u> | TOTAL |
|---|-------------|----------------------------|-------------|--|-------------|--|----------------------------|---|-------------|-------------|---|---|
| Total Capital Funding | 17,884.2 | 14,189.9 | 39,675.5 | 20,840.7 | 25,775.8 | 29,705.2 | 16,547.2 | 10,713.8 | 11,893.4 | 5,797.3 | 12,125.6 | 205,148.6 |
| External Sources | (8,687.6) | (7,480.0) | (31,881.9) | (13,419.7) | (19,088.3) | (21,367.1) | (10,681.7) | (7,269.0) | (8,298.7) | (3,540.6) | (6,459.0) | (138,173.4) |
| from 'Cash to Cap' Reserves | 9,196.5 | 6,710.0 | 7,793.6 | 7,421.1 | 6,687.5 | 8,338.2 | 5,865.5 | 3,444.8 | 3,594.7 | 2,256.7 | 5,666.6 | 66,975.2 |
| Region / Newmarket Funding 4.8% Reserves 14.7% 'Cash to C Reserve 32.6% | es | Fed/Prov Grants 8.1% | Cha | s Special Purposes Reserves 3.8% Opment rrges .5% | 2015 | Region Newman Fundii 2.1% Rates Based Reserves 14.2% | rket ng 'Cash Res | Fed/Prov Grants 9.6% to Cap' erves .0% | | C | eds % 9 Plopment harges 84.6% | 2014 Special urposes eserves 3.3% |

Using the "buffer" provided by Reserve Accounts results in Reserve Account Continuity that looks like this:

| | <u>2015</u> | <u>2016</u> | <u>2017</u> | <u>2018</u> | <u>2019</u> | <u>2020</u> | <u>2021</u> | <u>2022</u> | <u>2023</u> | <u>2024</u> | <u>2025</u> | TOTAL |
|---------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|------------|
| Opening Reserve Value | 8,462.8 | 3,372.3 | 1,070.3 | (1,968.4) | (4,258.9) | (5,393.0) | (7,729.1) | (7,105.2) | (3,488.1) | 610.7 | 6,966.1 | 8,462.8 |
| + Cash to Capital | 3,796.9 | 3,977.2 | 4,359.7 | 4,764.7 | 5,198.4 | 5,658.4 | 6,144.8 | 6,650.8 | 7,177.2 | 7,959.9 | 8,529.7 | 64,217.7 |
| + % of Prior Tax Levy | 180.3 | 382.5 | 405.0 | 433.7 | 460.0 | 486.4 | 506.0 | 526.4 | 547.7 | 569.8 | 592.9 | 5,090.7 |
| + Interest on Reserve Bal | 128.8 | 48.3 | (9.8) | (67.8) | (105.0) | (142.8) | (161.4) | (115.3) | (31.3) | 82.4 | 191.3 | (182.6) |
| Minus Capital Spend | (9,196.5) | (6,710.0) | (7,793.6) | (7,421.1) | (6,687.5) | (8,338.2) | (5,865.5) | (3,444.8) | (3,594.7) | (2,256.7) | (5,666.6) | (66,975.2) |
| Closing Reserve Value | 3,372.3 | 1,070.3 | (1,968.4) | (4,258.9) | (5,393.0) | (7,729.1) | (7,105.2) | (3,488.1) | 610.7 | 6,966.1 | 10,613.4 | 10,613.4 |

This is shown graphically on the following page and, in more detail, on page 11

FUNDING and RESERVES (continued)



As shown above, based upon the presently proposed funding allocations from the annual operating budget, the resultant reserve levels will not be sufficient in order to accomodate the planned capital spend requirement based upon the defined benchmark of two times the ten year average funding requirement not being met.

SUMMARY OF ANNUAL CAPITAL SPEND REQUESTS

| | Pg <u>Ref</u> | 2015 (Approved) | 2016 | <u>2017</u> | <u>2018</u> | <u>2019</u> | <u>2020</u> | <u>2021</u> | <u>2022</u> | <u>2023</u> | <u>2024</u> | <u>2025</u> | 10 YEAR OUTLOOK |
|---------------------------|------------------|--------------------|---------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|--------------------|
| REPAIR and REPLACE | MENT | PROJECTS | | | | | | | | | | | |
| Administration | | - | - | - | - | - | - | - | - | - | - | - | - |
| Corp & Financial | 15 | 72.8 | 214.5 | 650.0 | 53.4 | 41.3 | 39.9 | 194.5 | 70.5 | 50.0 | 48.4 | 16.3 | 1,378.7 |
| Building / By-law | 17 | 125.0 | 350.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 1,250.0 |
| Roads & Related | 18 | 5,199.0 | 3,410.0 | 5,548.2 | 7,064.1 | 4,889.6 | 4,521.7 | 8,467.7 | 6,375.3 | 3,866.4 | 3,075.4 | 2,766.2 | 49,984.5 |
| Water Projects | 25 | 370.0 | 540.0 | 1,200.0 | 500.0 | 1,000.0 | 300.0 | 1,000.0 | 300.0 | 1,000.0 | 300.0 | 300.0 | 6,440.0 |
| Wastewater Projects | 26 | 330.0 | 30.0 | 50.0 | - | - | - | - | - | - | - | - | 80.0 |
| Stormwater Projects | 27 | 1,366.0 | - | 825.0 | 600.0 | 625.0 | 600.0 | 625.0 | 600.0 | 625.0 | 600.0 | 625.0 | 5,725.0 |
| Parks & Recreation | 28 | 742.5 | 1,575.8 | 1,362.0 | 1,152.3 | 716.3 | 881.6 | 696.9 | 490.0 | 1,052.0 | 625.0 | 20.0 | 8,571.8 |
| Facilities | 31 | 4,538.7 | 1,623.0 | 2,040.3 | 1,640.0 | 1,334.2 | 1,556.3 | 1,366.7 | 1,125.0 | 1,150.0 | 134.0 | 1,750.0 | 13,719.5 |
| Fleet | 36 | 420.0 | 505.0 | 459.0 | 696.0 | 506.0 | 1,024.0 | 500.0 | 500.0 | 500.0 | 600.0 | 700.0 | 5,990.0 |
| Planning | _ | - | - | - | - | - | - | - | - | - | 10.0 | - | 10.0 |
| | - | 13,164.0 | 8,248.3 | 12,234.5 | 11,805.7 | 9,212.4 | 9,023.5 | 12,950.8 | 9,560.8 | 8,343.4 | 5,492.7 | 6,277.5 | 93,149.5 |
| | | | | | | | | | | | Total inc | luding 2015 | 106,313.5 |
| GROWTH and NEW PR | OJECT | S | | | | | | | | | | | |
| Administration | 41 | 100.0 | - | - | - | - | - | - | - | - | - | - | - |
| Legal / Legislative | 42 | 275.0 | - | - | - | - | - | - | - | - | - | - | - |
| Corp & Financial | 43 | 30.0 | 15.0 | 45.0 | 60.0 | - | 10.0 | - | - | - | - | - | 130.0 |
| Building / By-law | 44 | - | 311.0 | 400.0 | 100.0 | - | - | - | - | - | - | - | 811.0 |
| Fire & Emergency | 45 | - | 60.0 | 16,065.0 | 175.0 | - | - | - | - | - | - | - | 16,300.0 |
| I.E.S. | 46 | 1,763.2 | 2,325.7 | 3,986.0 | 2,768.0 | 3,638.4 | 5,426.8 | 371.4 | 303.0 | - | 194.6 | 5,768.1 | 24,782.0 |
| Parks & Recreation | 47 | 1,372.0 | 1,575.0 | 4,760.0 | 2,250.0 | 2,575.0 | 1,750.0 | 1,925.0 | 400.0 | 3,150.0 | - | - | 18,385.0 |
| Facilities | 49 | 40.0 | 35.0 | 50.0 | 2,165.0 | 10,000.0 | 13,235.0 | 850.0 | - | - | - | - | 26,335.0 |
| Fleet | 49 | 110.0 | 300.0 | 435.0 | 140.0 | 70.0 | 150.0 | 150.0 | 150.0 | 150.0 | - | - | 1,545.0 |
| Planning & Dev. | 50 | 200.0 | 970.0 | 1,250.0 | 930.0 | - | - | - | - | - | - | - | 3,150.0 |
| | | 3,890.2 | 5,591.7 | 26,991.0 | 8,588.0 | 16,283.4 | 20,571.8 | 3,296.4 | 853.0 | 3,300.0 | 194.6 | 5,768.1 | 91,438.0 |

Total including 2015 _____ 95,328.2

SUMMARY OF ANNUAL CAPITAL SPEND REQUESTS - continued

| | | 2015 (Approved) | <u>2016</u> | <u>2017</u> | <u>2018</u> | <u>2019</u> | <u>2020</u> | <u>2021</u> | <u>2022</u> | <u>2023</u> | <u>2024</u> | <u>2025</u> | 10 YEAR OUTLOOK |
|------------------------|----------------------|--------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|--------------------|
| STUDIES and OTHER P | ROJEC | <u>CTS</u> | | | | | | | | | | | |
| Administration | 53 | 150.0 | - | - | 30.0 | 80.0 | 30.0 | - | 30.0 | - | 110.0 | - | 280.0 |
| Corp & Financial | 54 | 90.0 | - | - | 125.0 | - | 80.0 | - | - | - | - | 80.0 | 285.0 |
| Planning | 55 | - | 300.0 | - | - | - | - | 300.0 | - | - | - | - | 600.0 |
| I.E.S. | 56 | 465.0 | 50.0 | 450.0 | 250.0 | 200.0 | - | - | 270.0 | 250.0 | - | - | 1,470.0 |
| Parks & Recreation | 57 | 125.0 | - | - | 42.0 | - | - | - | - | - | - | - | 42.0 |
| | = | 830.0 | 350.0 | 450.0 | 447.0 | 280.0 | 110.0 | 300.0 | 300.0 | 250.0 | 110.0 | 80.0 | 2,677.0 |
| | | | | | | | | | | | Total inc | luding 2015 | 3,507.0 |
| Administration | <u>Share</u> 0.1% | 250.0 | - | - | 30.0 | 80.0 | 30.0 | - | 30.0 | - | 110.0 | - | 280.0 |
| Customer / Legislative | 0.0% | 275.0 | - | - | - | - | - | - | - | - | - | - | - |
| Corp & Financial | 1.0% | 192.8 | 229.5 | 695.0 | 238.4 | 41.3 | 129.9 | 194.5 | 70.5 | 50.0 | 48.4 | 96.3 | 1,793.7 |
| Building / By-law | 1.1% | 125.0 | 661.0 | 500.0 | 200.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 2,061.0 |
| Fire & Emergency | 8.7% | - | 60.0 | 16,065.0 | 175.0 | - | - | - | - | - | - | - | 16,300. |
| Planning | 2.0% | 200.0 | 1,270.0 | 1,250.0 | 930.0 | - | - | 300.0 | - | - | 10.0 | - | 3,760. |
| Total I.E.S. | 47.2% | 9,493.2 | 6,355.7 | 12,059.2 | 11,182.1 | 10,353.0 | 10,848.4 | 10,464.1 | 7,848.3 | 5,741.4 | 4,170.0 | 9,459.3 | 88,481. |
| Parks & Recreation | 14.4% | 2,239.5 | 3,150.8 | 6,122.0 | 3,444.3 | 3,291.3 | 2,631.6 | 2,621.9 | 890.0 | 4,202.0 | 625.0 | 20.0 | 26,998. |
| Facilities | 21.4% | 4,578.7 | 1,658.0 | 2,090.3 | 3,805.0 | 11,334.2 | 14,791.3 | 2,216.7 | 1,125.0 | 1,150.0 | 134.0 | 1,750.0 | 40,054. |
| Fleet | 4.0% | 530.0 | 805.0 | 894.0 | 836.0 | 576.0 | 1,174.0 | 650.0 | 650.0 | 650.0 | 600.0 | 700.0 | 7,535. |
| | | 17,884.2 | 14,189.9 | 39,675.5 | 20,840.7 | 25,775.8 | 29,705.2 | 16,547.2 | 10,713.8 | 11,893.4 | 5,797.3 | 12,125.6 | 187,264.4 |

Total including 2015 205,148.6

SOURCES OF FUNDING

| | Base <u>2015</u> | <u>2016</u> | <u>2017</u> | <u>2018</u> | <u>2019</u> | <u>2020</u> | <u>2021</u> | <u>2022</u> | <u>2023</u> | <u>2024</u> | <u>2025</u> | 10 YEAR <u>OUTLOOK</u> |
|---------------------------------|---------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|--------------|---------------------------|
| | (approved) | Yr 1 | Yr 2 | Yr 3 | Yr 4 | Yr 5 | Yr 6 | Yr 7 | Yr 8 | Yr 9 | Yr 10 | |
| Total Capital Needs: | | | | | | | | | | | | |
| Repair & Replacement | 13,164.0 | 8,248.3 | 12,234.5 | 11,805.7 | 9,212.4 | 9,023.5 | 12,950.8 | 9,560.8 | 8,343.4 | 5,492.7 | 6,277.5 | 93,149.5 |
| Growth & New | 3,890.2 | 5,591.7 | 26,991.0 | 8,588.0 | 16,283.4 | 20,571.8 | 3,296.4 | 853.0 | 3,300.0 | 194.6 | 5,768.1 | 91,438.0 |
| Studies & Other | 830.0 | 350.0 | 450.0 | 447.0 | 280.0 | 110.0 | 300.0 | 300.0 | 250.0 | 110.0 | 80.0 | 2,677.0 |
| TOTAL CAPITAL NEEDS | 17,884.2 | 14,189.9 | 39,675.5 | 20,840.7 | 25,775.8 | 29,705.2 | 16,547.2 | 10,713.8 | 11,893.4 | 5,797.3 | 12,125.6 | 187,264.4 |
| | | | | | | | | | | Total incl | uding 2015 | 205,148.6 |
| CONSOLIDATED FUNDING SOUR | CES: | | | | | | | | | | = | 200,11010 |
| R & R Reserve - Tax | (7,648.3) | (3,988.9) | (5,445.5) | (5,542.1) | (4,995.5) | (5,516.8) | (5,687.6) | (3,299.5) | (3,429.7) | (2,116.5) | (5,081.8) | (45,103.8) |
| Growth & New Reserve | (915.7) | (2,691.1) | (2,098.1) | (1,644.5) | (1,512.0) | (2,783.4) | (147.9) | (45.3) | (15.0) | (30.3) | (576.8) | (11,544.4) |
| Studies & Other Reserve | (632.5) | (30.0) | (250.0) | (234.5) | (180.0) | (38.0) | (30.0) | (100.0) | (150.0) | (110.0) | (8.0) | (1,130.5) |
| Cash to Capital Sourced | (9,196.5) | (6,710.0) | (7,793.6) | (7,421.1) | (6,687.5) | (8,338.2) | (5,865.5) | (3,444.8) | (3,594.7) | (2,256.7) | (5,666.6) | (57,778.6) |
| R & R Reserve - Rates | (3,455.5) | (1,532.6) | (4,284.3) | (3,944.4) | (1,857.7) | (1,100.0) | (4,904.1) | (4,097.1) | (2,584.5) | (1,147.1) | (1,195.7) | (26,647.5) |
| Development Charges | (2,819.8) | (2,993.1) | (14,287.8) | (6,534.3) | (14,316.4) | (17,685.4) | (3,068.4) | (767.7) | (2,970.0) | (164.3) | (5,263.3) | (68,050.7) |
| Development / Sale of Land | - | - | - | - | - | - | - | - | - | - | - | - |
| Special Purposes Reserves * (se | (871.8) | (914.6) | (1,717.6) | (1,314.6) | (1,044.6) | (1,062.1) | (839.6) | (884.6) | (1,049.6) | (534.6) | - | (9,362.1) |
| Federal / Provincial Grants | (1,540.5) | (1,617.5) | (1,617.5) | (1,694.6) | (1,694.6) | (1,694.6) | (1,694.6) | (1,694.6) | (1,694.6) | (1,694.6) | - | (15,097.0) |
| External Gov't Funding | - | - | (9,799.7) | (106.8) | - | - | - | - | - | - | - | (9,906.4) |
| Other External Funding | - | (422.1) | - | - | - | - | - | - | - | - | - | (422.1) |
| TOTAL FUNDING SOURCES | (17,884.2) | (14,189.9) | (39,500.5) | (21,015.7) | (25,600.8) | (29,880.2) | (16,372.2) | (10,888.8) | (11,893.4) | (5,797.3) | (12,125.6) | (187,264.4) |
| | | | | | | | | | | Total incl | uding 2015 _ | (205,148.6) |
| * Special Purposes Reserves: | | | | | | | | | | | | |
| Building Dept | - | (255.0) | (100.0) | - | - | - | - | - | - | - | - | (355.0) |
| Cash in Lieu of Parkland | (302.2) | (190.0) | (948.0) | (570.0) | (475.0) | (417.5) | (365.0) | (40.0) | (715.0) | (300.0) | - | (4,020.5) |
| Council Discretionary Res | - | - | - | - | - | - | - | - | - | - | - | - |
| EAB Reserve | (235.0) | (235.0) | (235.0) | (410.0) | (235.0) | (410.0) | (240.0) | (410.0) | - | - | - | (2,175.0) |
| Landscape Fees | - | - | - | - | - | - | - | - | - | - | - | - |
| | (871.8) | (914.6) | (1,717.6) | (1,314.6) | (1,044.6) | (1,062.1) | (839.6) | (884.6) | (1,049.6) | (534.6) | - | (9,362.1) |

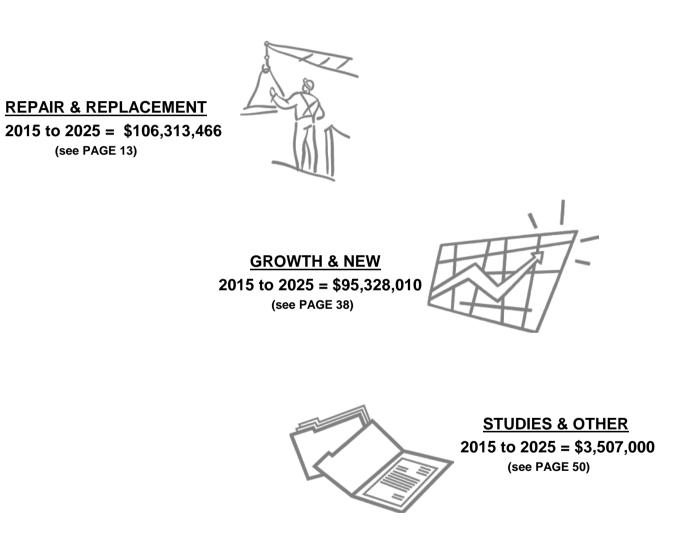
TAX FUNDED RESERVE BALANCE CONTINUITY / CASH FLOW

| | | <u>2015</u> | <u>2016</u> | <u>2017</u> | <u>2018</u> | <u>2019</u> | <u>2020</u> | <u>2021</u> | <u>2022</u> | <u>2023</u> | <u>2024</u> | <u>2025</u> |
|----------------------------------|----------------|-------------|-------------|--------------|-------------|--------------|-------------|-------------|----------------|----------------|-------------|-------------|
| Opening Reserve Balances: | | | | | | | | | | | | |
| R & R Reserves - Tax | | 6,690.7 | 2,222.0 | 1,659.3 | (66.0) | (1,581.4) | (2,211.2) | (2,994.7) | (3,565.2) | (1,314.8) | 1,289.7 | 5,970.5 |
| Growth & New Reserve | | 1,367.1 | 1,263.6 | (565.0) | (1,758.3) | (2,437.6) | (2,911.4) | (4,589.5) | (3,544.9) | (2,274.6) | (842.6) | 712.6 |
| Studies & Other Reserve | | 405.0 | (113.4) | (24.0) | (144.2) | (239.8) | (270.3) | (144.9) | 4.9 | 101.2 | 163.6 | 283.1 |
| Opening Reserve Balances | | 8,462.8 | 3,372.3 | 1,070.3 | (1,968.4) | (4,258.9) | (5,393.0) | (7,729.1) | (7,105.2) | (3,488.1) | 610.7 | 6,966.1 |
| Reserve 'Revenue': | | | | | | | | | | | | |
| + Cash to Capital (Base) | | 3,796.9 | 3,977.2 | 4,359.7 | 4,764.7 | 5,198.4 | 5,658.4 | 6,144.8 | 6,650.8 | 7,177.2 | 7,959.9 | 8,529.7 |
| + % of Prior Tax Levy | | 180.3 | 382.5 | 405.0 | 433.7 | 460.0 | 486.4 | 506.0 | 526.4 | 547.7 | 569.8 | 592.9 |
| Total from Operating Budget | | 3,977.2 | 4,359.7 | 4,764.7 | 5,198.4 | 5,658.4 | 6,144.8 | 6,650.8 | 7,177.2 | 7,724.9 | 8,529.7 | 9,122.6 |
| Reserve Balance Interest | | 128.8 | 48.3 | (9.8) | (67.8) | (105.0) | (142.8) | (161.4) | (115.3) | (31.3) | 82.4 | 191.3 |
| Total Revenue/Funding | | 4,106.0 | 4,408.0 | 4,754.9 | 5,130.6 | 5,553.4 | 6,002.0 | 6,489.4 | 7,061.9 | 7,693.6 | 8,612.1 | 9,313.9 |
| Annual Capital Spend: | | | | | | | | | | | | |
| R & R Reserve - Tax | | 7,648.3 | 3,988.9 | 5,445.5 | 5,542.1 | 4,995.5 | 5,516.8 | 5,687.6 | 3,299.5 | 3,429.7 | 2,116.5 | 5,081.8 |
| Growth & New Reserve | | 915.7 | 2,691.1 | 2,098.1 | 1,644.5 | 1,512.0 | 2,783.4 | 147.9 | 45.3 | 15.0 | 30.3 | 576.8 |
| Studies & Other Reserve | | 632.5 | 30.0 | 250.0 | 234.5 | 180.0 | 38.0 | 30.0 | 100.0 | 150.0 | 110.0 | 8.0 |
| Annual Capital Spend | | 9,196.5 | 6,710.0 | 7,793.6 | 7,421.1 | 6,687.5 | 8,338.2 | 5,865.5 | 3,444.8 | 3,594.7 | 2,256.7 | 5,666.6 |
| Closing Reserve Balances: | | | | | | | | | | | | |
| R & R Reserve - Tax | | 2,222.0 | 1,659.3 | (66.0) | (1,581.4) | (2,211.2) | (2,994.7) | (3,565.2) | (1,314.8) | 1,289.7 | 5,970.5 | 8,228.5 |
| Growth & New Reserve | | 1,263.6 | (565.0) | (1,758.3) | (2,437.6) | (2,911.4) | (4,589.5) | (3,544.9) | (2,274.6) | (842.6) | 712.6 | 1,860.9 |
| Studies & Other Reserve | | (113.4) | (24.0) | (144.2) | (239.8) | (270.3) | (144.9) | 4.9 | 101.2 | 163.6 | 283.1 | 524.0 |
| Closing Reserve Balance: | | 3,372.3 | 1,070.3 | (1,968.4) | (4,258.9) | (5,393.0) | (7,729.1) | (7,105.2) | (3,488.1) | 610.7 | 6,966.1 | 10,613.4 |
| | 15,000.0 | | | | | | | | | | | |
| | 10,000.0 | | | | | | | | | | | |
| | 10,000.0 | | | | | | | | | | | |
| | 5,000.0 | | | | | | | | _ | | | |
| | - | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | (5,000.0) | | | | | | | | | | | |
| | (10,000.0) | | | | | | | | | | | |
| | , . <i>,</i> , | | | | | | | | | | | |
| | | | | • • • • • | | . | . . | _ | | | | |
| | | | Annual | Capital Spen | d 🗖 | Closing Rese | rve Balance | Ar | inual Contribu | ution to Reser | ves | |

Aurora 10 Year Capital Plan - September, 2015

10 YEAR CAPITAL INVESTMENT PLAN

2015 Budget and 10 Year Outlook (2015 to 2024)



Total Investment Value for 2015 to 2025 = \$205,148,626

REPAIR & REPLACEMENT ASSETS

(Anticipated Spend of \$106,313,466 over 11 years)

Specific Repair & Replacement Assets are at the following pages:

| REPAIR & REPLACEMENT SUMMARY | Page 14 |
|--------------------------------|---------|
| Corporate & Financial Services | Page 15 |
| Building & By Law Services | Page 17 |
| Roads & Related | Page 18 |
| Water / Sanitary / Storm | Page 25 |
| Parks & Recreation Services | Page 28 |
| Facilities | Page 30 |
| Fleet | Page 34 |
| Planning | Page 37 |



| 8 | | <u>REPAIR A</u> | ND REPLA | | NVESTME | NT PLAN | SUMMAR | Y OF CAPI | TAL NEED | <u>s</u> | | |
|-------------------------|---------------------------|-----------------|--------------|--------------|-------------|-------------|--------------|-------------|-------------|-------------|-------------|--------------------|
| | <u>2015</u> (Approved) | <u>2016</u> | <u>2017</u> | <u>2018</u> | <u>2019</u> | <u>2020</u> | <u>2021</u> | <u>2022</u> | <u>2023</u> | <u>2024</u> | <u>2025</u> | 10 YEAR OUTLOOK |
| TOTAL R & R INVESTME | <u>ENTS</u> | | | | | | | | | | | |
| C.F.S. | 72,800 | 214,455 | 650,000 | 53,360 | 41,307 | 39,896 | 194,527 | 70,455 | 50,000 | 48,360 | 16,307 | 1,378,667 |
| B.B.S. | 125,000 | 350,000 | 100,000 | 100,000 | 100,000 | 100,000 | 100,000 | 100,000 | 100,000 | 100,000 | 100,000 | 1,250,000 |
| Roads & Related | 5,199,000 | 3,410,020 | 5,548,226 | 7,064,081 | 4,889,551 | 4,521,662 | 8,467,716 | 6,375,326 | 3,866,366 | 3,075,371 | 2,766,200 | 49,984,519 |
| Water Projects | 370,000 | 540,000 | 1,200,000 | 500,000 | 1,000,000 | 300,000 | 1,000,000 | 300,000 | 1,000,000 | 300,000 | 300,000 | 6,440,000 |
| Wastewater Projects | 330,000 | 30,000 | 50,000 | - | - | - | - | - | - | - | - | 80,000 |
| Stormwater Projects | 1,366,000 | - | 825,000 | 600,000 | 625,000 | 600,000 | 625,000 | 600,000 | 625,000 | 600,000 | 625,000 | 5,725,000 |
| P.R.S. | 742,500 | 1,575,800 | 1,361,950 | 1,152,250 | 716,300 | 881,600 | 696,900 | 490,000 | 1,052,000 | 625,000 | 20,000 | 8,571,800 |
| Facilities | 4,538,680 | 1,623,000 | 2,040,300 | 1,640,000 | 1,334,200 | 1,556,300 | 1,366,700 | 1,125,000 | 1,150,000 | 134,000 | 1,750,000 | 13,719,500 |
| Fleet | 420,000 | 505,000 | 459,000 | 696,000 | 506,000 | 1,024,000 | 500,000 | 500,000 | 500,000 | 600,000 | 700,000 | 5,990,000 |
| Planning | - | - | - | - | - | - | - | - | - | 10,000 | - | 10,000 |
| | 13,163,980 | 8,248,275 | 12,234,476 | 11,805,691 | 9,212,358 | 9,023,458 | 12,950,843 | 9,560,781 | 8,343,366 | 5,492,731 | 6,277,507 | 93,149,486 |
| | | | | | | | | | | Total inc | luding 2015 | 106,313,466 |
| Funding Sources: | | | | | | | | | | | - | |
| R&R - Tax Based | (7,648,347) | (3,988,886) | (5,445,529) | (5,542,075) | (4,995,479) | (5,516,774) | (5,687,559) | (3,299,511) | (3,429,715) | (2,116,456) | (5,081,807) | (45,103,791) |
| R&R - Water Rates | (856,850) | (1,080,230) | (2,050,850) | (1,189,792) | (1,000,000) | (350,000) | (2,868,100) | (1,712,140) | (1,361,839) | (300,000) | (375,000) | (12,287,951) |
| R&R - Sewer Rates | (470,450) | (114,100) | (478,600) | (800,671) | (78,266) | (75,000) | (956,800) | (45,189) | (51,597) | (43,062) | (39,300) | (2,682,585) |
| R&R -Storm Rates | (2,128,200) | (288,300) | (1,754,838) | (1,953,969) | (779,429) | (675,000) | (1,079,200) | (2,339,757) | (1,171,031) | (804,029) | (781,400) | (11,626,953) |
| Cash in Lieu - Parkland | (50,000) | (92,500) | (417,500) | (155,000) | (195,000) | (242,500) | (190,000) | - | (400,000) | (300,000) | - | (1,992,500) |
| EAB Reserve | (235,000) | (235,000) | (235,000) | (235,000) | (235,000) | (235,000) | (240,000) | (235,000) | - | - | - | (1,650,000) |
| Federal Gas Tax | (1,540,515) | (1,617,541) | (1,617,541) | (1,694,566) | (1,694,566) | (1,694,566) | (1,694,566) | (1,694,566) | (1,694,566) | (1,694,566) | - | (15,097,044) |
| OCIF | (234,618) | (234,618) | (234,618) | (234,618) | (234,618) | (234,618) | (234,618) | (234,618) | (234,618) | (234,618) | - | (2,111,562) |
| Building Reserve | - | (175,000) | - | - | - | - | - | - | - | - | - | (175,000) |
| Growth & New Reserves | - | - | - | - | - | - | - | - | - | - | - | - |
| Grants / Donations | - | (422,100) | - | - | - | - | - | - | - | - | - | (422,100) |
| | (13,163,980) | (8,248,275) | (12,234,476) | (11,805,691) | (9,212,358) | (9,023,458) | (12,950,843) | (9,560,781) | (8,343,366) | (5,492,731) | (6,277,507) | (93,149,486) |

REPAIR AND REPLACEMENT INVESTMENT PLAN - SUMMARY OF CAPITAL NEEDS

Total including 2015 (106,313,466)

REPAIR & REPLACEMENT PROJECTS - CORPORATE & FINANCIAL SERVICES

| | <u>2015</u> (Approved) | <u>2016</u> | <u>2017</u> | <u>2018</u> | <u>2019</u> | <u>2020</u> | <u>2021</u> | <u>2022</u> | <u>2023</u> | <u>2024</u> | <u>2025</u> | Project <u>Total</u> |
|------------------------------------|---------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------------------|
| Corporate & Financial Services | | | | | | | | | | | | |
| 14047 Desktops & Notebooks | | | | | | | | | | | | |
| Servers | - | | | | | | | | | | | |
| Network equipment & Hardware | 72,800 | - 114,455 | 50,000 | 53,360 | 41,307 | 39,896 | 194,527 | 70,455 | 50,000 | 48,360 | 16,307 | 751,467 |
| Office Equipment (Projector, etc.) | - | | | | | | | | | | | |
| Telecommunication | | | | | | | | | | | | |
| 14012 Financial System Upgrade | | 100,000 | 600,000 | - | - | - | - | - | - | - | - | 700,000 |
| | 72,800 | 214,455 | 650,000 | 53,360 | 41,307 | 39,896 | 194,527 | 70,455 | 50,000 | 48,360 | 16,307 | 1,451,467 |

Funding Sources: Information Technology

nformation Technology R & R Reserve

| (72.800) | (214,455) | (650.000) | (53,360) | (41.307) | (39,896) | (194,527) | (70,455) | (50,000) | (48,360) | (16.307) | (1,451,467) |
|----------|----------------------|-----------|----------|----------|----------|-----------|----------|----------|----------|----------|-------------|
| (,, | (= · · · , · • • • / | (,, | (00,000) | (,) | (00,000) | (| (,, | (,) | (,, | (,, | (.,, |

REPAIR & REPLACEMENT PROJECTS - CORPORATE & FINANCIAL SERVICES

| | <u>2015</u> (Approved) | <u>2016</u> | <u>2017</u> | <u>2018</u> | <u>2019</u> | <u>2020</u> | <u>2021</u> | <u>2022</u> | <u>2023</u> | <u>2024</u> | <u>2025</u> | |
|-----------------------------------|---------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|---------|
| "Evergreening" Detail: | | | | | | | | | | | | |
| 2008 PC's (48 @ \$1,100) | 52,800 | - | - | - | - | - | - | - | - | - | - | 52,800 |
| 2009 PC's (1 @ \$900) | | 900 | | | | | | | | | - | 900 |
| 2010 PC's (41 @ \$900) | | 36,900 | | | | | | | | | - | 36,900 |
| 2011 PC's (21@ \$900) | - | | 18,900 | - | - | - | - | - | - | - | - | 18,900 |
| 2012 PC's (22 @ \$900) | - | - | - | 19,800 | - | - | - | - | - | - | - | 19,800 |
| PC's for Training (11 @ \$900) | - | - | - | 9,900 | - | - | - | - | - | - | - | 9,900 |
| 2014 PC's (7 @ \$900) | - | - | - | - | - | 6,300 | - | - | - | - | - | 6,300 |
| 2015 PC's (81 @ \$900) | - | - | - | - | - | | 72,900 | - | - | - | - | 72,900 |
| 2016 PC's (42 @ \$900) | - | - | - | - | - | - | - | 37,800 | - | - | - | 37,800 |
| 2017 PC's (21 @ \$900) | - | - | - | - | - | - | - | - | 18,900 | - | - | 18,900 |
| 2018 PC's (33 @ 900) | - | - | - | - | - | - | - | - | - | 29,700 | - | 29,700 |
| 2009 Laptops (3 @ \$1,555) | - | 4,665 | - | - | - | - | - | - | - | - | - | 4,665 |
| 2010 Laptops (18 @ \$1,555) | - | 27,990 | | - | - | - | - | - | - | - | - | 27,990 |
| 2011 Laptops (20 @ \$1555) | - | - | 31,100 | | - | - | - | - | - | - | - | 31,100 |
| 2012 Laptops (12 @ \$1555) | - | - | - | 18,660 | - | - | - | - | - | - | - | 18,660 |
| 2013 Laptops (5 @ \$1555) | - | - | - | - | 7,775 | - | - | - | - | - | - | 7,775 |
| 2014 Laptops (6 @ \$1555) | - | - | - | - | - | 9,330 | - | - | - | - | - | 9,330 |
| 2015 Laptops (5 @ \$1,555) | - | - | - | - | - | - | 7,775 | - | - | - | - | 7,775 |
| 2016 Laptops (21 @ \$1555) | - | - | - | - | - | - | - | 32,655 | - | - | - | 32,655 |
| 2017 Laptops (20 @ \$1555) | - | - | - | - | - | - | - | - | 31,100 | - | - | 31,100 |
| 2018 Laptops (12 @ \$1555) | - | - | - | - | - | - | - | - | - | 18,660 | - | 18,660 |
| 2019 Laptops (5 @ \$1555) | - | - | - | - | - | - | - | - | - | - | 7,775 | 7,775 |
| 2013 Tablets - (2 @ \$4266) | - | - | - | - | 8,532 | - | - | - | - | - | - | 8,532 |
| 2014 Tablets - (1 @ \$4,266) | - | - | - | - | - | 4,266 | - | - | - | - | - | 4,266 |
| 2015 Tablets - (22 @ \$4,266) | - | - | - | - | - | - | 93,852 | - | - | - | - | 93,852 |
| 2019 Tablets - (2 @ \$4266) | - | - | - | - | - | - | - | - | - | - | 8,532 | 8,532 |
| Server Replacements | - | - | - | - | 25,000 | - | - | - | - | - | - | 25,000 |
| Replacement of CISCO switches etc | 20,000 | 44,000 | - | 5,000 | - | 20,000 | 20,000 | - | - | | | 109,000 |
| _ | 72,800 | 114,455 | 50,000 | 53,360 | 41,307 | 39,896 | 194,527 | 70,455 | 50,000 | 48,360 | 16,307 | 751,467 |

REPAIR & REPLACEMENT PROJECTS - BUILDING / BYLAW

| | | <u>2015</u> (approved) | <u>2016</u> | <u>2017</u> | <u>2018</u> | <u>2019</u> | <u>2020</u> | <u>2021</u> | <u>2022</u> | <u>2023</u> | <u>2024</u> | <u>2025</u> | <u>Total</u> Project |
|-----------------------------|-------------------------------------|---------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------------------|
| Building and Bylaw 12002 | Services Accessibility Committee | 125,000 | 350,000 | 100,000 | 100,000 | 100,000 | 100,000 | 100,000 | 100,000 | 100,000 | 100,000 | 100,000 | 1,375,000 |
| | | 125,000 | 350,000 | 100,000 | 100,000 | 100,000 | 100,000 | 100,000 | 100,000 | 100,000 | 100,000 | 100,000 | 1,375,000 |

REPAIR & REPLACEMENT PROJECTS - ROADS & RELATED

| | | <u>2015</u> (Approved) | <u>2016</u> | <u>2017</u> | <u>2018</u> | <u>2019</u> | <u>2020</u> | <u>2021</u> | <u>2022</u> | <u>2023</u> | <u>2024</u> | <u>2025</u> | Project <u>Total</u> |
|------------------------------------|----------------|---------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------------------|
| Combined Recon Proj (31103): | Road Const'n | 712,700 | - | 483,712 | - | - | - | - | - | - | - | - | 1,196,412 |
| Centre Street - Yonge to Walton | Water Service | 24,550 | - | 13,950 | - | - | - | - | - | - | - | - | 38,500 |
| | Sanitary Sewer | 14,150 | - | 35,500 | - | - | - | - | - | - | - | - | 49,650 |
| (Fed Gas Tax Funding of \$25,000) | Storm Sewer | 50,600 | - | 36,838 | - | - | - | - | - | - | - | - | 87,438 |
| | TOTAL | 802,000 | - | 570,000 | - | - | - | - | - | - | - | - | 1,372,000 |
| Combined Recon Proj (31117): | Road Const'n | - | - | - | 72,750 | 1,364,893 | - | - | | | - | - | 1,437,643 |
| Corbett Crescent | Water Service | - | - | - | - | - | - | - | | | - | - | - |
| Cossar Drive | Sanitary Sewer | - | - | - | - | 28,177 | - | - | | | - | - | 28,177 |
| Springburn Crescent | Storm Sewer | - | - | - | - | 62,034 | - | - | | | - | - | 62,034 |
| | TOTAL | - | - | - | 72,750 | 1,455,104 | - | - | - | - | - | - | 1,527,854 |
| Combined Recon Proj (31118): | Road Const'n | - | | - | - | - | - | 175,964 | 1,729,265 | - | - | - | 1,905,229 |
| Browning Court | Water Service | - | - | - | - | - | - | - | 790,119 | - | - | - | 790,119 |
| Johnson Road | Sanitary Sewer | - | - | - | - | - | - | - | 25,284 | - | - | - | 25,284 |
| Holman Crescent | Storm Sewer | - | - | - | - | - | - | - | 973,427 | - | - | - | 973,427 |
| | TOTAL | - | - | - | - | - | - | 175,964 | 3,518,095 | - | - | - | 3,694,059 |
| Combined Recon Proj (31096): | Road Const'n | 1,650,000 | | - | - | - | - | - | - | - | - | - | 1,650,000 |
| Bluegrass Drive | Water Service | | | | - | - | - | - | - | - | - | - | - |
| Skyview Lane | Sanitary Sewer | - | | - | - | - | - | - | - | - | - | - | - |
| Steeplechase Ave. | Storm Sewer | 150,000 | | - | - | - | - | - | - | - | - | - | 150,000 |
| (Fed Gas Tax Funding of \$122,800) | TOTAL | 1,800,000 | | - | - | - | - | - | - | - | - | - | 1,800,000 |
| Combined Recon Proj (31105): | Road Const'n | 75,000 | 638,600 | | - | - | - | - | - | - | - | - | 713,600 |
| Haida Dr. (section) | Water Service | - | 68,900 | | - | - | - | - | - | - | - | - | 68,900 |
| Trillium Dr. | Sanitary Sewer | - | 10,200 | | - | - | - | - | - | - | - | - | 10,200 |
| (Fed Gas Tax Funding of \$75,000) | Storm Sewer | - | 168,000 | | - | - | - | - | - | - | - | - | 168,000 |
| | TOTAL | 75,000 | 885,700 | - | - | - | - | - | - | - | - | - | 960,700 |
| Combined Recon Proj (31108): | Road Const'n | 100,000 | - | 752,500 | - | - | - | - | - | - | - | - | 852,500 |
| Haida Dr. (section) | Water Service | - | - | 405,900 | - | - | - | - | - | - | - | - | 405,900 |
| Algonquin Cres. | Sanitary Sewer | - | - | 13,100 | - | - | - | - | - | - | - | - | 13,100 |
| | Storm Sewer | - | - | 500,100 | - | - | - | - | - | - | - | - | 500,100 |
| (Fed Gas Tax Funding of \$100,000) | TOTAL | 100,000 | - | 1,671,600 | - | - | - | - | - | - | - | - | 1,771,600 |

| | | <u>2015</u> (Approved) | <u>2016</u> | <u>2017</u> | <u>2018</u> | <u>2019</u> | <u>2020</u> | <u>2021</u> | <u>2022</u> | <u>2023</u> | <u>2024</u> | <u>2025</u> | Project <u>Total</u> |
|------------------------------------|----------------|---------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------------------|
| Combined Recon Proj (31109): | Road Const'n | - | 105,000 | - | 653,200 | - | - | - | - | - | - | - | 758,200 |
| Kennedy Street West | Water Service | - | - | - | 492,900 | - | - | - | - | - | - | - | 492,900 |
| Temperance Street | Sanitary Sewer | - | - | - | 536,000 | - | - | - | - | - | - | - | 536,000 |
| | Storm Sewer | - | - | - | 459,000 | - | - | - | - | - | - | - | 459,000 |
| | TOTAL | - | 105,000 | - | 2,141,100 | - | - | - | - | - | - | - | 2,246,100 |
| Recon Brookland - | | | | | | | | | | | | | |
| Yonge to Banbury (31107) | Road Const'n | 48,000 | - | 325,000 | - | - | - | - | - | - | - | - | 373,000 |
| | Water Service | - | - | 275,000 | - | - | - | - | - | - | - | - | 275,000 |
| | Sanitary Sewer | - | - | 375,000 | - | - | - | - | - | - | - | - | 375,000 |
| (Fed Gas Tax Funding of \$48,000) | Storm Sewer | - | - | 375,000 | - | - | - | - | - | - | - | - | 375,000 |
| | TOTAL | 48,000 | - | 1,350,000 | - | - | - | - | - | - | - | - | 1,398,000 |
| Recon - Catherine Avenue (31111) | | | | | | | | | | | | | |
| | Road Const'n | 50,000 | 546,400 | | - | - | - | - | - | - | - | - | 596,400 |
| | Water Service | - | 250,000 | - | | - | - | - | - | - | - | - | 250,000 |
| | Sanitary Sewer | - | 11,800 | | - | - | - | - | - | - | - | - | 11,800 |
| (Fed Gas Tax Funding of \$50,000) | Storm Sewer | - | 100,000 | - | | - | - | - | - | - | - | - | 100,000 |
| (Fed Gas Tax Funding of \$226,441) | TOTAL | 50,000 | 908,200 | - | - | - | - | - | - | - | - | - | 958,200 |
| Combined Recon Proj (31112): | Road Const'n | 1,251,400 | 170,390 | - | - | - | - | - | - | - | - | - | 1,421,790 |
| Industrial Parkway North | Water Service | 462,300 | 221,330 | - | - | - | - | - | - | - | - | - | 683,630 |
| Industrial Parkway South | Sanitary Sewer | 126,300 | 62,100 | - | - | - | - | - | - | - | - | - | 188,400 |
| Industry Street | Storm Sewer | 155,000 | 20,300 | - | - | - | - | - | - | - | - | - | 175,300 |
| (Fed Gas Tax Funding of \$80,000) | TOTAL | 1,995,000 | 474,120 | - | - | - | - | - | - | - | - | - | 2,469,120 |
| Combined Recon Proj (31113): | Road Const'n | - | 120,000 | - | 1696500 | - | - | - | - | - | - | - | 1,816,500 |
| Murray Drive-Golf Links Drive | Water Service | - | - | - | - | - | - | - | - | - | - | - | - |
| Pinehurst Court | Sanitary Sewer | - | - | - | 28400 | - | - | - | - | - | - | - | 28,400 |
| | Storm Sewer | - | - | - | 282500 | - | - | - | - | - | - | - | 282,500 |
| | TOTAL | - | 120,000 | - | 2,007,400 | - | - | - | - | - | - | - | 2,127,400 |
| Combined Recon Proj (31114): | Road Const'n | - | 50,000 | 222,600 | | - | - | - | - | - | - | - | 272,600 |
| Ransom Court | Water Service | - | - | 156,000 | | - | - | - | - | - | - | - | 156,000 |
| Ransom Street | Sanitary Sewer | - | - | 5,000 | | - | - | - | - | - | - | - | 5,000 |
| | Storm Sewer | - | - | 17,900 | | - | - | - | - | - | - | - | 17,900 |
| | TOTAL | - | 50,000 | 401,500 | - | - | - | - | - | - | - | - | 451,500 |

| | | <u>2015</u> (Approved) | <u>2016</u> | <u>2017</u> | <u>2018</u> | <u>2019</u> | <u>2020</u> | <u>2021</u> | <u>2022</u> | <u>2023</u> | <u>2024</u> | <u>2025</u> | Project <u>Total</u> |
|----------------------------------|----------------|---------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------------------|
| Combined Recon Proj (31116): | Road Const'n | - | - | - | - | - | 227,762 | 2,426,438 | | - | - | - | 2,654,200 |
| Edward Street | Water Service | - | - | - | - | - | - | 868,100 | | - | - | - | 868,100 |
| Dunning Avenue | Sanitary Sewer | - | - | - | - | - | - | 881,800 | | - | - | - | 881,800 |
| | Storm Sewer | - | - | - | - | - | - | 379,200 | | - | - | - | 379,200 |
| | TOTAL | - | - | - | - | - | 227,762 | 4,555,538 | - | - | - | - | 4,783,300 |
| Combined Recon Proj (31119): | Road Const'n | - | - | - | - | - | - | 133,534 | 1,262,326 | | - | - | 1,395,860 |
| Adair Drive | Water Service | - | - | - | - | - | - | - | 622,021 | | - | - | 622,021 |
| Bailey Crescent | Sanitary Sewer | - | - | - | - | - | - | - | 19,905 | | - | - | 19,905 |
| Davidson Road | Storm Sewer | - | - | - | - | - | - | - | 766,330 | | - | - | 766,330 |
| | TOTAL | - | - | - | - | - | - | 133,534 | 2,670,582 | - | - | - | 2,804,116 |
| Combined Recon Proj (31120): | Road Const'n | - | - | - | 51,152 | 974,045 | - | - | - | - | - | - | 1,025,197 |
| Aurora Heights Drive | Water Service | - | - | - | - | - | - | - | - | - | - | - | - |
| Delayne to Bathurst | Sanitary Sewer | - | - | - | - | 13,785 | - | - | - | - | - | - | 13,785 |
| | Storm Sewer | - | - | - | - | 34,462 | - | - | - | - | - | - | 34,462 |
| | TOTAL | - | - | - | 51,152 | 1,022,292 | - | - | - | - | - | - | 1,073,444 |
| Combined Recon Proj (31121): | Road Const'n | - | - | - | - | - | - | - | 62,675 | 1,166,127 | | - | 1,228,802 |
| Crawford Rose Drive | Water Service | - | - | - | - | - | - | - | - | - | - | - | - |
| Valley Crescent | Sanitary Sewer | - | - | - | - | - | - | - | - | 24,442 | | - | 24,442 |
| | Storm Sewer | - | - | - | - | - | - | - | - | 63,579 | | - | 63,579 |
| | TOTAL | - | - | - | - | - | - | - | 62,675 | 1,254,148 | - | - | 1,316,823 |
| Recon - Golf Links (31122) | Road Const'n | - | - | - | 62,567 | 1,660,018 | - | - | - | - | | - | 1,722,585 |
| | Water Service | - | - | - | - | - | - | - | - | - | - | - | - |
| | Sanitary Sewer | - | - | - | - | 36,304 | - | - | - | - | | - | 36,304 |
| | Storm Sewer | - | - | - | - | 57,933 | - | - | - | - | | - | 57,933 |
| | TOTAL | - | - | - | 62,567 | 1,754,255 | - | - | - | - | - | - | 1,816,822 |
| Recon - Orchard Hts Blvd (31123) | Road Const'n | - | - | - | - | - | - | - | - | 79,582 | 1,526,013 | | 1,605,595 |
| | Water Service | - | - | - | - | - | - | - | - | - | - | - | - |
| | Sanitary Sewer | - | - | - | - | - | - | - | - | - | 23,986 | | 23,986 |
| | Storm Sewer | | - | - | - | - | - | - | - | - | 34,462 | | 34,462 |
| | TOTAL | - | - | - | - | - | - | - | - | 79,582 | 1,584,461 | - | 1,664,043 |

| | | <u>2015</u> (Approved) | <u>2016</u> | <u>2017</u> | <u>2018</u> | <u>2019</u> | <u>2020</u> | <u>2021</u> | <u>2022</u> | <u>2023</u> | <u>2024</u> | <u>2025</u> | Project <u>Total</u> |
|---|------------------|---------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------------------|
| Combined Recon Proj (31124): | Road Const'n | - | - | - | - | - | - | - | 123,974 | 1,606,978 | | - | 1,730,952 |
| Henderson Drive | Water Service | - | - | - | - | - | - | - | - | 361,839 | | - | 361,839 |
| Poplar Crescent | Sanitary Sewer | - | - | - | - | - | - | - | - | 27,155 | | - | 27,155 |
| | Storm Sewer | | - | - | - | - | - | - | - | 482,452 | | - | 482,452 |
| | TOTAL | - | - | - | - | - | - | - | 123,974 | 2,478,424 | - | - | 2,602,398 |
| <u>Recon - Windham Tr (31125)</u> | Road Const'n | - | - | - | - | - | - | - | - | 54,212 | 894,867 | | 949,079 |
| | Water Service | - | - | - | - | - | - | - | - | - | - | - | - |
| | Sanitary Sewer | - | - | - | - | - | - | - | - | - | 19,076 | | 19,076 |
| | Storm Sewer | - | - | - | - | - | - | - | - | - | 169,567 | | 169,567 |
| | TOTAL | - | - | - | - | - | - | - | - | 54,212 | 1,083,510 | - | 1,137,722 |
| Industrial Pkwy N (31145) | Road Const'n | - | | 50,000 | 442,200 | - | - | - | - | - | - | - | 492,200 |
| Wellington to Scanlon Crt | Water Service | - | - | - | - | - | - | - | - | - | - | - | - |
| | Sanitary Sewer | - | - | - | - | - | - | - | - | - | - | - | - |
| | Storm Sewer | - | - | | 221,300 | - | - | - | - | - | - | - | 221,300 |
| | TOTAL | - | - | 50,000 | 663,500 | - | - | - | - | - | - | - | 713,500 |
| Recon - Harriman (31126) | Road Const'n | _ | - | 51,350 | 351,256 | | - | _ | - | _ | - | - | 402,606 |
| <u> </u> | Water Service | - | - | - | 196,892 | | - | - | - | - | - | - | 196,892 |
| | Sanitary Sewer | - | - | - | 236,271 | | - | - | - | - | - | - | 236,271 |
| | Storm Sewer | - | - | - | 242,571 | | - | - | - | - | - | - | 242,571 |
| | TOTAL | - | - | 51,350 | 1,026,990 | - | - | - | - | - | - | - | 1,078,340 |
| <u> Recon - (31140)</u> | Road Const'n | - | - | 48,376 | 818,924 | | - | - | - | - | - | - | 867,300 |
| Westview Dr & Archerhill Crt | Water Service | - | - | - | - | - | - | - | - | - | - | - | - |
| | Sanitary Sewer | - | - | - | - | - | - | - | - | - | - | - | - |
| | Storm Sewer | - | - | - | 148,598 | | - | - | - | - | - | - | 148,598 |
| | TOTAL | - | - | 48,376 | 967,522 | - | - | - | - | - | - | - | 1,015,898 |
| Recon - (31128) | Road Const'n | - | - | - | - | | - | - | - | - | 201,900 | 2,495,500 | 2,697,400 |
| Orchard Hts Blvd-Crawford Rose- Yonge S | St Water Service | - | - | - | - | - | - | - | - | - | - | 75,000 | 75,000 |
| | Sanitary Sewer | - | - | - | - | - | - | - | - | - | - | 39,300 | 39,300 |
| | Storm Sewer | - | - | - | - | | - | - | - | - | - | 156,400 | 156,400 |
| | TOTAL | - | - | - | - | - | - | - | - | - | 201,900 | 2,766,200 | 2,968,100 |

| | | <u>2015</u> (Approved) | <u>2016</u> | <u>2017</u> | <u>2018</u> | <u>2019</u> | <u>2020</u> | <u>2021</u> | <u>2022</u> | <u>2023</u> | <u>2024</u> | <u>2025</u> | Project <u>Total</u> |
|--|-------------------------------|---------------------------|----------------------|----------------------|----------------------|----------------|---------------------|------------------------|------------------------|----------------------|----------------|---------------------|-------------------------|
| <u> Recon - (31149)</u> | Road Const'n | - | - | | - | | 80,000 | 1,600,000 | - | - | - | - | 1,680,000 |
| Tamarac Trail | Water Service | - | - | - | - | - | - | 1,000,000 | - | - | - | - | 1,000,000 |
| | Sanitary Sewer | - | - | - | - | - | - | 75,000 | - | - | - | - | 75,000 |
| | Storm Sewer | - | - | - | - | | - | 75,000 | - | - | - | - | 75,000 |
| | TOTAL | - | - | - | - | - | 80,000 | 2,750,000 | - | - | - | - | 2,830,000 |
| <u>Recon - (31150)</u> | Road Const'n | - | - | - | - | 62,500 | 1,250,000 | - | - | - | | - | 1,312,500 |
| Whispering Pine Tr | Water Service | - | - | - | - | - | 50,000 | - | - | - | - | - | 50,000 |
| | Sanitary Sewer | - | - | - | - | - | 75,000 | - | - | - | - | - | 75,000 |
| | Storm Sewer | - | - | - | - | | 75,000 | - | - | - | - | - | 75,000 |
| | TOTAL | - | - | - | - | 62,500 | 1,450,000 | - | - | - | - | - | 1,512,500 |
| TOTAL MAJOR ROAD RECONSTRUCTION | Road Const'n Water Service | 3,887,100 486,850 | 1,630,390 540,230 | 1,933,538 850,850 | 4,148,549 689,792 | 4,061,456 - | 1,557,762 50,000 | 4,335,936 1,868,100 | 3,178,240 1,412,140 | 2,906,899 361,839 | 2,622,780 - | 2,495,500 75,000 | 32,758,150 6,334,801 |
| | Sanitary Sewer | 140,450 | 84,100 | 428,600 | 800,671 | 78,266 | 75,000 | 956,800 | 45,189 | 51,597 | 43,062 | 39,300 | 2,743,035 |
| | Storm Sewer | 355,600 | 288,300 | 929,838 | 1,353,969 | 154,429 | 75,000 | 454,200 | 1,739,757 | 546,031 | 204,029 | 156,400 | 6,257,553 |
| | TOTAL | 4,870,000 | 2,543,020 | 4,142,826 | 6,992,981 | 4,294,151 | 1,757,762 | 7,615,036 | 6,375,326 | 3,866,366 | 2,869,871 | 2,766,200 | 48,093,539 |
| ROAD RESURFACING | | | | | | | | | | | | | |
| Haida / McDonald-Aurora Hts (3 | 31127) | - | - | 322,000 | - | - | - | - | - | - | - | - | 322,000 |
| Mosley / Yonge-Berczy (3 | 31129) | - | - | - | - | - | 270,000 | | | - | - | - | 270,000 |
| Old Bloomington - Asphalt Paving (3 | 31025) | 25,000 | 630,000 | | - | - | - | - | - | - | - | - | 655,000 |
| Cranberry/Trillium/Highland (3 | 31131) | - | - | 428,400 | | | - | - | - | - | - | - | 428,400 |
| Wiles Ct / Murray to end (3 | 31132) | - | - | 95,000 | - | - | - | - | - | - | - | - | 95,000 |
| Larmont / Wellington-Metcalfe (3 | 31133) | - | - | - | - | - | 135,900 | | | - | - | - | 135,900 |
| Victoria / Wellington-Metcalfe (3 | 31134) | - | - | - | - | - | - | 168,900 | | | - | - | 168,900 |
| Wells / Wellington-Metcalfe (3 | 31135) | - | - | - | - | - | - | 143,400 | | | - | - | 143,400 |
| Metcalfe/ Victoria - Metcalfe (3 | 31136) | - | - | - | - | 170,000 | | | - | - | - | - | 170,000 |
| Mary St / Wellington-Industry (3 | 31137) | - | - | - | - | 375,400 | | | - | - | - | - | 375,400 |
| Industrial/N of Scanlon-S of Industry (3 | 31138) | - | - | - | | 50,000 | 2,300,000 | | - | - | - | - | 2,350,000 |
| TOTAL ROAD RESU | RFACING | 25,000 | 630,000 | 845,400 | - | 595,400 | 2,705,900 | 312,300 | - | - | - | - | 5,114,000 |

| | <u>2015</u> (Approved) | <u>2016</u> | <u>2017</u> | <u>2018</u> | <u>2019</u> | <u>2020</u> | <u>2021</u> | <u>2022</u> | <u>2023</u> | <u>2024</u> | <u>2025</u> | Project <u>Total</u> |
|--|---------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------------------|
| SIDEWALK & BOULEVARD | | | | | | | | | | | | |
| S/W - Henderson/Tamarac-Poplar (34611) | | 25,000 | 410,000 | | | | | | | | | 435,000 |
| S/W - St John's - Gateway to Industrial Pkwy (34613) | | | | 71,100 | | | | | | | | 71,100 |
| S/W - Hennderson/Bathurst - Watts Meadow (34616) | | | | | | | | | | 205,500 | | 205,500 |
| S/W - Edward St - 100 m E of Yonge to | | | | | | | | | | 203,500 | | 203,300 |
| Dunning (34617) | | | | | | 28,000 | 279,500 | | | | | 307,500 |
| S/W - Yonge St - Henderson to Industrial Pkwy S (34634) | | - | | - | | 30,000 | 260,880 | - | - | - | - | 290,880 |
| TOTAL SIDEWALK & BOULEVARD | - | 25,000 | 410,000 | 71,100 | - | 58,000 | 540,380 | - | - | 205,500 | - | 1,309,980 |
| <u>OTHER</u> | | | | | | | | | | | | |
| R/W - Wellington & George (31142) | - | | 150,000 | | - | - | - | - | - | - | - | 150,000 |
| Street Light Poles St John's (34710) | 35,000 | | - | - | - | - | - | - | - | - | - | 35,000 |
| Street Light Poles Bayview (34711) | 75,000 | 150,000 | | | | | | | | | | 225,000 |
| Field Asset Data Wireless Devices (31144) | 90,000 | 62,000 | | - | - | - | - | - | - | - | - | 152,000 |
| Pavement Condition Assessment (31147) | 104,000 | | | | | | | | | | | 104,000 |
| TOTAL OTHER | 304,000 | 212,000 | 150,000 | - | - | - | - | - | - | - | - | 666,000 |
| TOTAL ROADS & RELATED Road Const'n | 4,216,100 | 2,497,390 | 3,338,938 | 4,219,649 | 4,656,856 | 4,321,662 | 5,188,616 | 3,178,240 | 2,906,899 | 2,828,280 | 2,495,500 | 39,848,130 |
| Water Service | 486,850 | 540,230 | 850,850 | 689,792 | - | 50,000 | 1,868,100 | 1,412,140 | 361,839 | - | 75,000 | 6,334,801 |
| Sanitary Sewer | 140,450 | 84,100 | 428,600 | 800,671 | 78,266 | 75,000 | 956,800 | 45,189 | 51,597 | 43,062 | 39,300 | 2,743,035 |
| Storm Sewer | 355,600 | 288,300 | 929,838 | 1,353,969 | 154,429 | 75,000 | 454,200 | 1,739,757 | 546,031 | 204,029 | 156,400 | 6,257,553 |
| TOTAL | 5,199,000 | 3,410,020 | 5,548,226 | 7,064,081 | 4,889,551 | 4,521,662 | 8,467,716 | 6,375,326 | 3,866,366 | 3,075,371 | 2,766,200 | 55,183,519 |

| | | <u>2015</u> (Approved) | <u>2016</u> | <u>2017</u> | <u>2018</u> | <u>2019</u> | <u>2020</u> | <u>2021</u> | <u>2022</u> | <u>2023</u> | <u>2024</u> | <u>2025</u> | Project <u>Total</u> |
|-----------------------------|----------------|---------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------------------|
| TOTAL ROADS & RELATED FUNDI | NG SOURCES: | | | | | | | | | | | | |
| Federal Gas Tax: | | | | | | | | | | | | | |
| Combined Recon Proj (31096) | Reconstruction | (856,000) | | - | - | - | - | - | - | - | - | - | (856,000) |
| Combined Recon Proj (31105) | Reconstruction | (75,000) | | - | | - | - | - | - | - | - | - | (75,000) |
| Combined Recon Proj (31108) | Reconstruction | (100,000) | | - | | - | - | - | - | - | - | - | (100,000) |
| Combined Recon Proj (31107) | Reconstruction | (48,000) | | - | | - | - | - | - | - | - | - | (48,000) |
| Combined Recon Proj (31111) | Reconstruction | (50,000) | (226,441) | - | - | - | - | - | - | - | - | - | (276,441) |
| Unallocated Other | | (411,515) | (1,391,100) | (1,617,541) | (1,694,566) | (1,694,566) | (1,694,566) | (1,694,566) | (1,694,566) | (1,694,566) | (1,694,566) | - | (15,282,118) |
| Total Federal Gas Tax | | (1,540,515) | (1,617,541) | (1,617,541) | (1,694,566) | (1,694,566) | (1,694,566) | (1,694,566) | (1,694,566) | (1,694,566) | (1,694,566) | - | (16,637,559) |
| OCIF | | (234,618) | (234,618) | (234,618) | (234,618) | (234,618) | (234,618) | (234,618) | (234,618) | (234,618) | (234,618) | | (2,346,180) |
| Other | | | (14,000) | | | | | | | | | | (14,000) |
| Water R & R Reserve | | (486,850) | (540,230) | (850,850) | (689,792) | - | (50,000) | (1,868,100) | (1,412,140) | (361,839) | - | (75,000) | (6,334,801) |
| Waste Water R & R Reserve | | (140,450) | (84,100) | (428,600) | (800,671) | (78,266) | (75,000) | (956,800) | (45,189) | (51,597) | (43,062) | (39,300) | (2,743,035) |
| Storm Water R & R Reserve | | (355,600) | (288,300) | (929,838) | (1,353,969) | (154,429) | (75,000) | (454,200) | (1,739,757) | (546,031) | (204,029) | (156,400) | (6,257,553) |
| NET Roads R & R Reserve | | (2,440,967) | (631,231) | (1,486,779) | (2,290,465) | (2,727,672) | (2,392,478) | (3,259,432) | (1,249,056) | (977,715) | (899,096) | (2,495,500) | (20,850,391) |
| | | (5,199,000) | (3,410,020) | (5,548,226) | (7,064,081) | (4,889,551) | (4,521,662) | (8,467,716) | (6,375,326) | (3,866,366) | (3,075,371) | (2,766,200) | (55,183,519) |

REPAIR & REPLACEMENT PROJECTS - WATER SPECIFIC PROJECTS

| | | <u>2015</u> (Approved) | <u>2016</u> | <u>2017</u> | <u>2018</u> | <u>2019</u> | <u>2020</u> | <u>2021</u> | <u>2022</u> | <u>2023</u> | <u>2024</u> | <u>2025</u> | Project <u>Total</u> |
|---------------|-------------------------------|---------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------------------|
| STRUCTURAL W | ATERMAIN RELINING | 6 | | | | | | | | | | | |
| Project 43054 | Water Service | - | - | 700,000 | - | 700,000 | - | 700,000 | - | 700,000 | - | | 2,800,000 |
| | Sanitary Sewer | - | - | - | - | - | - | - | - | - | - | - | - |
| | Storm Sewer | | - | - | - | - | - | - | - | - | - | - | - |
| | TOTAL | - | - | 700,000 | - | 700,000 | - | 700,000 | - | 700,000 | - | - | 2,800,000 |
| DECOMMISSION | WELL HOUSE | | | | | | | | | | | | |
| Project 43047 | Water Service | - | 40,000 | | - | | | | | | | | 40,000 |
| | Sanitary Sewer | - | - | - | - | - | - | - | - | - | - | - | - |
| | Storm Sewer | | - | - | - | - | - | - | - | - | - | - | - |
| | TOTAL | - | 40,000 | - | - | - | - | - | - | - | - | - | 40,000 |
| WATER METER | REPLACEMENT PRO | GRAM | | | | | | | | | | | |
| Project 43038 | Water Service | 300,000 | 300,000 | 300,000 | 300,000 | 300,000 | 300,000 | 300,000 | 300,000 | 300,000 | 300,000 | 300,000 | 3,300,000 |
| | Sanitary Sewer Storm Sewer | - | - | - | - | - | - | - | - | - | - | - | - |
| | TOTAL | 300,000 | 300,000 | 300,000 | 300,000 | 300,000 | 300,000 | 300,000 | 300,000 | 300,000 | 300,000 | 300,000 | 3,300,000 |
| BULK METER IN | ISTALLATION | | | | | | | | | | | | |
| Project 43044 | Water Service | - | 200,000 | 200,000 | 200,000 | - | - | - | - | - | - | | 600,000 |
| | Sanitary Sewer | - | - | - | - | - | - | - | - | - | - | - | - |
| | Storm Sewer | | - | - | - | - | - | - | - | - | - | - | - |
| | TOTAL | - | 200,000 | 200,000 | 200,000 | - | - | - | - | - | - | - | 600,000 |
| BATHURST/ORC | CHARD HTS | | | | | | | | | | | | |
| Project 43053 | Water Service | 70,000 | | | | | | | | | | | 70,000 |
| | Sanitary Sewer | - | - | - | - | - | - | - | - | - | - | - | - |
| | Storm Sewer | | - | - | - | - | - | - | - | - | - | - | - |
| | TOTAL | 70,000 | - | - | - | - | - | - | - | - | - | - | 70,000 |
| TOTAL WATER S | SPECIFIC PROJECTS | | | | | | | | | | | | |
| | Water Service | 370,000 | 540,000 | 1,200,000 | 500,000 | 1,000,000 | 300,000 | 1,000,000 | 300,000 | 1,000,000 | 300,000 | 300,000 | 6,810,000 |
| | Sanitary Sewer | - | - | - | - | - | - | - | - | - | - | - | - |
| | Storm Sewer | | - | - | - | - | - | - | - | - | - | - | - |
| | TOTAL | 370,000 | 540,000 | 1,200,000 | 500,000 | 1,000,000 | 300,000 | 1,000,000 | 300,000 | 1,000,000 | 300,000 | 300,000 | 6,810,000 |

REPAIR & REPLACEMENT PROJECTS - WASTEWATER SPECIFIC PROJECTS

| | | <u>2015</u> (Approved) | <u>2016</u> | <u>2017</u> | <u>2018</u> | <u>2019</u> | <u>2020</u> | <u>2021</u> | <u>2022</u> | <u>2023</u> | <u>2024</u> | <u>2025</u> | Project <u>Total</u> |
|---------------|----------------|---------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------------------|
| DECOMMISSION | I SEWER LINE | | | | | | | | | | | | |
| Project 41007 | Water Service | - | - | - | - | - | - | - | - | - | - | - | - |
| Wells St PS | Sanitary Sewer | 300,000 | - | - | - | - | - | - | | | - | | 300,000 |
| | Storm Sewer | - | - | - | - | - | - | - | - | - | - | - | - |
| 3 PHASE ELECT | RICAL POWER | | | | | | | | | | | | - |
| Project 41009 | Water Service | - | - | - | - | - | - | - | - | - | - | - | - |
| | Sanitary Sewer | 30,000 | 30,000 | 50,000 | - | - | - | - | - | - | - | | 110,000 |
| | Storm Sewer | - | - | - | - | - | - | - | - | - | - | - | - |
| | TOTAL | 330,000 | 30,000 | 50,000 | - | - | - | - | - | - | - | - | 410,000 |

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REPAIR & REPLACEMENT PROJECTS - STORM WATER SPECIFIC PROJECTS

| | | <u>2015</u> (Approved) | <u>2016</u> | <u>2017</u> | <u>2018</u> | <u>2019</u> | <u>2020</u> | <u>2021</u> | <u>2022</u> | <u>2023</u> | <u>2024</u> | <u>2025</u> | <u>Total</u> |
|---------------|--------------------|---------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|--------------|
| CHANNEL IMPR | OVEMENTS | | | | | | | | | | | | |
| Project 42052 | Water Service | - | - | - | - | - | - | - | - | - | - | - | - |
| Child Dr | Sanitary Sewer | - | - | - | - | - | - | - | - | - | - | - | - |
| | Storm Sewer | 721,000 | - | - | - | - | - | - | - | - | - | | 721,000 |
| | TOTAL | 721,000 | - | - | - | - | - | - | - | - | - | - | 721,000 |
| REHABILITATIO | N OF CULVERT | | | | | | | | | | | | |
| Project 42053 | Water Service | - | - | - | - | - | - | - | - | - | - | - | - |
| Yonge St | Sanitary Sewer | - | - | - | - | - | - | - | - | - | - | - | - |
| | Storm Sewer | 445,000 | - | | - | | - | | - | - | - | | 445,000 |
| | TOTAL | 445,000 | - | - | - | - | - | - | - | - | - | - | 445,000 |
| MAINTENANCE | OF CULVERT | | | | | | | | | | | | |
| Project 42054 | Water Service | - | - | - | - | - | - | - | - | - | - | - | - |
| Yonge St | Sanitary Sewer | - | - | - | - | - | - | - | - | - | - | - | - |
| | Storm Sewer | 100,000 | | 200,000 | - | - | - | - | - | - | - | | 300,000 |
| | TOTAL | 100,000 | - | 200,000 | - | - | - | - | - | - | - | - | 300,000 |
| LAKE SIMCOE P | ROTECTION PLAN | | | | | | | | | | | | |
| Project 42056 | Water Service | - | - | - | - | - | - | - | - | - | - | - | - |
| Capital Works | Sanitary Sewer | - | - | - | - | - | - | - | - | - | - | - | - |
| | Storm Sewer | - | - | 600,000 | 600,000 | 600,000 | 600,000 | 600,000 | 600,000 | 600,000 | 600,000 | 600,000 | 5,400,000 |
| | TOTAL | - | - | 600,000 | 600,000 | 600,000 | 600,000 | 600,000 | 600,000 | 600,000 | 600,000 | 600,000 | 5,400,000 |
| BRIDGE ASSESS | SMENT | | | | | | | | | | | | |
| Project 42058 | Water Service | - | - | - | - | - | - | - | - | - | - | - | - |
| | Sanitary Sewer | - | - | - | - | - | - | - | - | - | - | - | - |
| | Storm Sewer | 100,000 | - | 25,000 | - | 25,000 | - | 25,000 | | 25,000 | - | 25,000 | 225,000 |
| | TOTAL | 100,000 | - | 25,000 | - | 25,000 | - | 25,000 | - | 25,000 | - | 25,000 | 225,000 |
| TOTAL STORM W | NATER SPECIFIC PRO | DJECTS | | | | | | | | | | | |
| | Water Service | - | - | - | - | - | - | - | - | - | - | - | - |
| | Sanitary Sewer | - | - | - | - | - | - | - | - | - | - | - | - |
| | Storm Sewer | 1,366,000 | - | 825,000 | 600,000 | 625,000 | 600,000 | 625,000 | 600,000 | 625,000 | 600,000 | 625,000 | 7,091,000 |
| | TOTAL | 1,366,000 | - | 825,000 | 600,000 | 625,000 | 600,000 | 625,000 | 600,000 | 625,000 | 600,000 | 625,000 | 7,091,000 |

REPAIR & REPLACEMENT PROJECTS - PARKS & RECREATION

| | | <u>2015</u> (approved) | <u>2016</u> | <u>2017</u> | <u>2018</u> | <u>2019</u> | <u>2020</u> | <u>2021</u> | <u>2022</u> | <u>2023</u> | <u>2024</u> | <u>2025</u> | Project <u>Total</u> |
|-----------|---|---------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------------------|
| 73189 | Artificial Turf Repair - Soccer goal areas | - | 35,000 | 35,000 | 35,000 | 35,000 | 35,000 | - | - | - | - | - | 175,000 |
| 73190 | Town Park - Bandshell/Washroom Roof & Paint | - | - | - | - | - | - | 25,000 | - | - | - | - | 25,000 |
| 73191 | Basketball Court Resurfacing | - | - | 50,000 | - | - | - | - | - | - | - | - | 50,000 |
| 73192 | Boardwalk Resurface | - | - | - | - | - | - | - | - | 75,000 | - | - | 75,000 |
| 73193 | Bridge Assessment | 50,000 | 15,000 | - | - | - | - | - | - | - | - | - | 65,000 |
| 73196 | Fleury Park Gazebo | - | - | - | - | - | - | - | - | 35,000 | - | - | 35,000 |
| 73198 | Field Renovation - Norm Weller Park | | | - | 350,000 | | | | | - | - | - | 350,000 |
| 73201 | Field Drainage - Diamonds/Soccer - L Wilson Park | - | - | - | - | 80,000 | - | - | - | - | - | - | 80,000 |
| 73203 | James Lloyd Park Shelter- Replace/Repair | - | - | - | - | - | - | - | - | 32,000 | - | - | 32,000 |
| 73204 | L Willson Park - Gazebo | - | - | - | - | - | - | - | - | 70,000 | - | - | 70,000 |
| 73206 | Playground - E Hadar Park | 100,000 | - | - | - | - | - | - | - | - | - | - | 100,000 |
| 73207 | Playground -Wm Kennedy Park | - | - | 125,000 | - | - | - | - | - | - | - | - | 125,000 |
| 73208 | Playground - James Lloyd Park | - | 150,000 | - | - | - | - | - | - | - | - | - | 150,000 |
| 73209 | Playground - Lundy Park | - | - | 75,000 | - | - | - | - | - | - | - | - | 75,000 |
| 73210 | Playground - Wilson Park | - | - | 100,000 | - | - | - | - | - | - | - | - | 100,000 |
| 73211 | Playground - Hamilton Park | - | - | - | 100,000 | - | - | - | - | - | - | - | 100,000 |
| 73212 | Playground - Taylor Park | - | - | - | 175,000 | - | - | - | - | - | - | - | 175,000 |
| 73213 | Playground - Harman Park | - | - | - | - | 150,000 | - | - | - | - | - | - | 150,000 |
| 73214 | Playground - Tamarac Park | - | - | - | - | 85,000 | - | - | - | - | - | - | 85,000 |
| 73215 | Playground - L Willson Park | - | - | - | - | 120,000 | - | - | - | - | - | - | 120,000 |
| 73216 | Playground - Copland Park | - | - | - | | - | 200,000 | - | - | - | - | - | 200,000 |
| 73217 | Playground - Summit Park | - | - | - | - | - | 125,000 | - | - | - | - | - | 125,000 |
| 73218 | Playground - Tom's Park | - | - | - | - | - | 125,000 | - | - | - | - | - | 125,000 |
| 73219 | Playground - Evans Park | - | - | - | - | - | - | 100,000 | - | - | - | - | 100,000 |
| 73220 | Playground - Atkinson Park | - | - | - | - | - | - | 125,000 | - | - | - | - | 125,000 |
| 73221 | Playground - Chapman Park | - | - | - | - | - | - | 120,000 | - | - | - | - | 120,000 |
| 73222 | Playground - Town Park | - | - | - | - | - | - | - | - | 200,000 | - | - | 200,000 |
| 73154 | Playground Surface Restoration Various Parks | 10,000 | 10,300 | 10,600 | 10,900 | 11,300 | 11,600 | 11,900 | 20,000 | 20,000 | 20,000 | 20,000 | 156,600 |
| 73263 | Playground/Boardwalk - Brentwood Park | - | - | - | - | - | - | - | - | - | 200,000 | - | 200,000 |
| 73264 | Playground & Pathway - Optimist Park | - | - | - | - | - | - | - | - | - | 200,000 | - | 200,000 |
| 73265 | Playground & Pathway - Thompson Park | - | - | - | - | - | - | - | - | - | 180,000 | - | 180,000 |
| 73223 | Artificial Turf - Sheppards Bush | - | - | 500,000 | - | - | - | - | - | - | - | - | 500,000 |
| Aurora 10 | Vear Capital Plan - September 2015 | | | | R+F | PRS | | | | | | continue | dPage 28 |

Aurora 10 Year Capital Plan - September, 2015

REPAIR & REPLACEMENT PROJECTS - PARKS & RECREATION - continued

| | | <u>2015</u> (approved) | <u>2016</u> | <u>2017</u> | <u>2018</u> | <u>2019</u> | <u>2020</u> | <u>2021</u> | <u>2022</u> | <u>2023</u> | <u>2024</u> | <u>2025</u> | Project <u>Total</u> |
|---------|--|---------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------------------|
| 73224 | Artificial Turf - St Max | - | - | - | - | - | - | - | - | 600,000 | - | - | 600,000 |
| 73225 | Splash Pad - Ada Johnson Park | - | - | - | - | - | - | - | 30,000 | | - | - | 30,000 |
| 73226 | Splash Pad - Town Park | - | - | 40,000 | - | - | - | - | 40,000 | - | - | - | 80,000 |
| 73227 | Tennis Court - N Weller Park | - | - | 20,000 | - | - | - | - | - | 20,000 | - | - | 40,000 |
| 73228 | Tennis Court - Fleury Park | - | 40,000 | - | - | - | - | - | 40,000 | - | - | - | 80,000 |
| 73229 | Tennis Court - Summit Park | - | 20,000 | - | - | - | - | - | 20,000 | - | - | - | 40,000 |
| 73230 | Tennis Court - McMahon Park | - | 75,000 | - | - | - | - | - | 75,000 | - | - | - | 150,000 |
| 73231 | Tennis Court - David English Park | - | - | - | 20,000 | - | - | - | - | - | 25,000 | - | 45,000 |
| 73232 | Trail/Playground - Jack Wood Park | - | - | - | 100,000 | | - | - | - | - | - | - | 100,000 |
| 73235 | Walkway Repave - Copland Park | - | 50,000 | - | - | - | - | - | - | - | - | - | 50,000 |
| 73236 | Walkway Repave - Wilson Park | - | - | 50,000 | | - | - | - | - | - | - | - | 50,000 |
| 73237 | Walkway Repave - Summit Park | - | - | - | - | - | 75,000 | | - | - | - | - | 75,000 |
| 73238 | Walkway Repave - Tom's Park | - | - | - | - | - | 75,000 | | - | - | - | - | 75,000 |
| 73239 | Walkway Repave - Atkinson Park | - | - | - | - | - | - | 75,000 | - | - | - | - | 75,000 |
| 73240 | Walkway/Basketball Repave - Tamarac Park | - | - | - | 30,000 | - | - | - | - | - | - | - | 30,000 |
| 73241 | Walkway/Basketball Repaving - Wm Kennedy Park | - | - | 25,000 | - | - | - | - | - | - | - | - | 25,000 |
| 73242 | Washroom - Fleury Park * | - | 150,000 | - | - | - | - | - | 30,000 | - | - | - | 180,000 |
| 73134 | Parks/Trails Signage Strategy Study & Implementation | 157,500 | 195,500 | 96,350 | 96,350 | - | - | - | - | - | - | - | 545,700 |
| 73160 | Emerald Ash Borer Mgmt Prog | 235,000 | 235,000 | 235,000 | 235,000 | 235,000 | 235,000 | 240,000 | 235,000 | - | - | - | 1,885,000 |
| 73268 | Wildlife Park - North Dam | 100,000 | 600,000 | - | - | - | - | - | - | - | - | - | 700,000 |
| 73269 | Case Woodlot Perimeter Fencing | 70,000 | - | - | - | - | - | - | - | - | - | - | 70,000 |
| 73272 | Hillary House Heritage Fencing | 20,000 | - | - | - | - | - | - | - | - | - | - | 20,000 |
| | | 742,500 | 1,575,800 | 1,361,950 | 1,152,250 | 716,300 | 881,600 | 696,900 | 490,000 | 1,052,000 | 625,000 | 20,000 | 9,314,300 |
| | | | | | | | | | | | | | |
| Funding | g Sources: | | | | | | | | | | | | |
| R & I | R Infrastructure Reserves | (457,500) | (1,248,300) | (709,450) | (762,250) | (286,300) | (404,100) | (266,900) | (255,000) | (652,000) | (325,000) | (20,000) | (5,386,800) |
| Cash | n in Lieu of Parkland Reserve | (50,000) | (92,500) | (417,500) | (155,000) | (195,000) | (242,500) | (190,000) | - | (400,000) | (300,000) | - | (2,042,500) |
| EAB | Reserve | (235,000) | (235,000) | (235,000) | (235,000) | (235,000) | (235,000) | (240,000) | (235,000) | - | - | - | (1,885,000) |
| Dona | ations | - | - | - | - | - | - | - | - | - | - | - | - |
| | | (742,500) | (1,575,800) | (1,361,950) | (1,152,250) | (716,300) | (881,600) | (696,900) | (490,000) | (1,052,000) | (625,000) | (20,000) | (9,314,300) |

REPAIR & REPLACEMENT PROJECTS - FACILITIES

| | | | | | | 010-1A | | | | | | Project |
|--|---------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-----------|
| | <u>2015</u> (approved) | <u>2016</u> | <u>2017</u> | <u>2018</u> | <u>2019</u> | <u>2020</u> | <u>2021</u> | <u>2022</u> | <u>2023</u> | <u>2024</u> | <u>2025</u> | Total |
| Stronach Aurora Recreation Center: | | | | | | | | | | | | |
| Exterior | | | | | | | | | | | | |
| Re-pave Parking Lot (72136) | - | - | - | - | - | - | - | - | - | - | 1,000,000 | 1,000,000 |
| Replace Asphalt Flat Roof (72137) | - | - | - | - | - | - | - | - | - | - | 750,000 | 750,000 |
| Exterior Lighting Retrofit (72221)* | - | 15,000 | - | - | - | - | - | - | - | - | - | 15,000 |
| Interior | | | | | | | | | | | - | |
| Rubber Flooring (72164) | 134,600 | - | - | - | - | - | - | - | - | - | - | 134,600 |
| Replacement of Floor Scrubber (72240) | - | 18,000 | - | - | - | - | - | - | - | - | - | 18,000 |
| Pool Liner Replacement (72221)* | - | 250,000 | - | - | - | - | - | - | - | | - | 250,000 |
| Electrical | | | | | | | | | | | - | |
| LED Lighting - Pool & Ice Pads (72221)* | | 110,000 | - | - | | | | | | | - | 110,000 |
| Fire Control Panel (72166) | - | - | - | - | - | 46,700 | - | - | - | - | - | 46,700 |
| Equipment | | | | | | | | | | | - | - |
| Chemical Controllers (72165) | - | - | - | - | - | 15,000 | - | - | - | - | - | 15,000 |
| Replace Screw Compressor (72140) | - | - | 200,000 | - | - | - | - | - | - | - | - | 200,000 |
| Ice Plant, Heat Exchanger (72236) | 35,000 | - | - | - | - | - | - | - | - | - | - | 35,000 |
| Replace 2 Original Boilers (72221)* | - | 50,000 | - | - | - | - | - | - | - | - | - | 50,000 |
| Sliding Doors (72223) | - | - | - | - | 75,000 | - | - | - | - | - | - | 75,000 |
| Aurora Recreation Center Total | 169,600 | 443,000 | 200,000 | - | 75,000 | 61,700 | - | - | - | - | 1,750,000 | 2,699,300 |
| Town Hall: | | | | | | | | | | | | |
| Exterior | | | | | | | | | | | | |
| Exterior Windows (72168) | - | - | 172,300 | - | - | - | - | - | - | - | | 172,300 |
| Interior | | | | | | | | | | | | |
| Workstation Refresh, Carpet, Paint (72201) | 90,000 | 90,000 | 90,000 | 90,000 | 90,000 | 90,000 | 90,000 | 90,000 | 90,000 | 90,000 | - | 900,000 |
| Bldg Dept Counter Enhancements (24010) | - | 175,000 | - | - | - | - | - | - | - | - | - | 175,000 |
| Mechanical | | | | | | | | | | | - | |
| LAN Room HVAC (72169) | - | - | - | - | 69,000 | - | - | - | - | - | - | 69,000 |
| Building Humidifiers (72203) | 35,000 | - | - | - | - | - | - | - | - | - | - | 35,000 |
| Elevator Card Access (72205) | 10,000 | - | - | - | - | - | - | - | - | - | - | 10,000 |
| Electrical | | | | | | | | | | | - | |
| CC A/V System Upgrade (72238) | 65,000 | 45,000 | - | - | - | - | - | - | - | - | - | 110,000 |
| Town Hall Total | 200,000 | 310,000 | 262,300 | 90,000 | 159,000 | 90,000 | 90,000 | 90,000 | 90,000 | 90,000 | _ | 1,471,300 |

REPAIR & REPLACEMENT PROJECTS - FACILITIES - continued

| | 2015 (approved) | <u>2016</u> | <u>2017</u> | <u>2018</u> | <u>2019</u> | <u>2020</u> | <u>2021</u> | <u>2022</u> | <u>2023</u> | <u>2024</u> | <u>2025</u> | Project <u>Total</u> |
|---|--------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------------------|
| Aurora Family Leisure Complex: | (approved) | | | | | | | | | | | |
| Exterior | | | | | | | | | | | | |
| Arena Deficiencies Roof, Building | | | | | | | | | | | | |
| Envelope (72242) | 2,000,000 | - | - | - | - | - | - | - | - | - | - | 2,000,00 |
| Interior | | | | | | | | | | | | |
| Arena Floor (72228) | 45,000 | - | - | - | - | - | - | - | - | - | - | 45,00 |
| Men's Washroom (72206) | - | - | 95,000 | - | - | - | - | - | - | - | - | 95,00 |
| 2nd Floor Flooring (72207) | - | - | | 70,000 | - | - | - | - | - | - | - | 70,00 |
| Program Room (72208) | - | - | 125,000 | - | - | - | - | - | - | - | - | 125,00 |
| Pool Tile and Drains (72209) | - | - | 350,000 | - | - | - | - | - | - | - | - | 350,00 |
| Rubber Flooring Arena and Seating (72224 | - | - | 85,000 | - | - | - | - | - | - | - | - | 85,00 |
| Mold Abatement (72243) | 136,580 | - | | - | - | - | - | - | - | - | - | 136,58 |
| Mechanical / Equipment | | | | | | | | | | | | |
| Dasher Board System (72171) | - | - | 300,000 | - | - | - | - | - | - | - | - | 300,00 |
| Duct Work (72210) | - | - | 75,000 | - | - | - | - | - | - | - | - | 75,00 |
| Arena Dehumidifiers (72226) | 135,000 | - | - | - | - | - | - | - | - | - | - | 135,00 |
| Replace Whirlpool and Pool Heaters (72247) | - | 50,000 | - | - | - | - | - | - | - | - | - | 50,00 |
| Fitness Equipment (74007) | - | - | 33,000 | 58,000 | 42,000 | - | - | 35,000 | 60,000 | 44,000 | - | 272,00 |
| Electrical | | | | | | | | | | | | |
| LED Lighting Arena and Pool (72225) | - | - | 50,000 | - | - | - | - | - | - | - | - | 50,00 |
| Family Leisure Complex Total | 2,316,580 | 50,000 | 1,113,000 | 128,000 | 42,000 | - | - | 35,000 | 60,000 | 44,000 | - | 3,788,58 |
| urora Community Center: | | | | | | | | | | | | |
| Exterior | | | | | | | | | | | | |
| Entry Doors (72227) | - | - | - | - | - | - | 95,000 | - | - | - | - | 95,00 |
| Front Exterior Walkways (72229) | - | - | - | - | - | - | 95,000 | - | - | - | - | 95,00 |
| Rooftop H & S (72235) | 48,000 | - | - | - | - | - | - | - | - | - | - | 48,00 |
| Exterior Painting (72175)* | - | 20,000 | - | - | - | - | - | - | - | - | - | 20,00 |
| Interior | | , | | | | | | | | | | , |
| Sport Flooring (72172) | - | | - | - | - | 149,600 | - | - | - | - | - | 149,60 |
| Auditorium Flooring (72173) | - | - | - | - | 18,000 | - | - | - | - | - | - | 18,00 |
| LED Lighting Retrofit (72175)* | - | 55,000 | - | - | - | - | - | - | - | - | - | 55,00 |
| Elevator Cab and Mech Controller Update (72239) | 70,000 | - | - | - | - | - | - | - | - | - | - | 70,00 |
| Mechanical | -, | | | | | | | | | | | -, |
| Compressors (72174) | - | - | - | 233,600 | - | - | - | - | - | - | - | 233,60 |
| Rooftop HVAC (72132) | - | - | 250,000 | - | | | | | | | - | 250,00 |
| Condensors (72175)* | - | 250,000 | - | | - | - | - | - | - | - | - | 250,00 |
| Chiller (72176) | - | - | - | 92,000 | - | - | - | - | - | - | - | 92,00 |
| Replacement of Four Boilers (72175)* | - | 100,000 | - | - | - | - | - | - | - | - | - | 100,00 |
| Site Works | | ., | | | | | | | | | | , |
| Re-pave Lot (72133) | 1,419,500 | - | - | - | - | - | - | - | - | - | - | 1,419,50 |
| , , | | | | | | | | | | | | |
| Aurora Community CenterTotal | 1,537,500 | 425,000 | 250,000 | 325,600 | 18,000 | 149,600 | 190,000 | - | - | - | - | 2,895,70 |

Aurora 10 Year Capital Plan - September, 2015

REPAIR & REPLACEMENT PROJECTS - FACILITIES - continued Project Total <u>2015</u> 2016 <u>2017</u> 2018 <u>2019</u> 2020 <u>2021</u> 2022 <u>2023</u> <u>2024</u> 2025 (approved) 52/56 Victoria Street 52/56 Victoria St Total ------------**215 Industrial Parkway** Hydro Building Total ------------**Factory Theatre** Exterior Exterior Windows (72186) 60.200 60,200 --_ --Roof Coverings (72187) 74,800 74,800 --------**Factory Theatre Total** 135.000 135,000 ----_ _ Lawn Bowling /Tennis Clubhouse Exterior Exterior Windows (72188) 20,000 20,000 -Site Works Parking Lot (72189) 41,400 41,400 ----**Tennis Clubhouse Total** -20,000 -41,400 -------61,400 Office & Garage - 9 Scanlon **Office & Garage Total Equipment Depot - 9 Scanlon Equipment Depot Total** -----------Victoria Hall Exterior Exterior Windows (72190) 15,200 15,200 --Victoria Hall Total 15,200 15,200 ----_ _ ----

| | REPAIR & REPLACEMENT PROJECTS - FACILITIES - continued | | | | | | | | | | | |
|--|---|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------------------|
| | <u>2015</u> (approved) | <u>2016</u> | <u>2017</u> | <u>2018</u> | <u>2019</u> | <u>2020</u> | <u>2021</u> | <u>2022</u> | <u>2023</u> | <u>2024</u> | <u>2025</u> | Project <u>Total</u> |
| 89 Mosley Street | | | | | | | | | | | | |
| Exteriors/Interiors | | | | | | | | | | | | |
| Building Condition (72241)* | 150,000 | 275,000 | - | - | - | - | - | - | - | - | | 425,000 |
| 89 Mosley Street | 150,000 | 275,000 | - | - | - | - | - | - | - | - | - | 425,000 |
| Church Street School / Museum Electrical | | | | | | | | | | | | |
| LED Lighting Retrofit (72218) Exterior | - | - | 15,000 | - | - | - | - | - | - | - | - | 15,000 - |
| Brick Repairs (72121) | - | - | - | 30,000 | - | - | - | - | - | - | - | 30,000 |
| Exterior Doors (72192) 22 Church/Library Drainage and | - | - | - | - | - | - | 86,700 | - | - | - | - | 86,700 |
| Walkway (72219) Interior | 35,000 | 45,000 | - | - | - | - | - | - | - | - | - | 80,000 |
| Elevator (72217) | - | - | - | - | - | 95,000 | - | - | - | - | - | 95,000 |
| School Museum Total | 35,000 | 45,000 | 15,000 | 30,000 | - | 95,000 | 86,700 | - | - | - | - | 306,700 |
| Library - 15145 Yonge Street | | | | | | | | | | | | |
| Electrical | | | | | | | | | | | | |
| LED Lighting (72234) | - | - | 25,000 | - | - | - | - | - | - | - | - | 25,000 |
| Interior | - | - | - | - | - | - | - | - | - | - | - | |
| Horizontal Interior Drain (72233) | 50,000 | - | - | - | - | - | - | - | - | - | - | 50,000 |
| Boiler Replacement (72246) Exterior | - | - | 100,000 | - | - | - | - | - | - | - | - | 100,000 |
| Concrete (72232) | 40,000 | - | - | - | - | - | - | - | - | - | - | 40,000 |
| Brick Repairs (72248) | - | 30,000 | - | - | - | - | - | - | - | - | - | 30,000 |
| Accessible Doors (72258) | - | - | 20,000 | - | - | - | - | - | - | - | - | 20,000 |
| Library Total | 90,000 | 30,000 | 145,000 | - | - | - | - | - | - | - | - | 265,000 |
| Seniors Centre - 90 John West Way Electrical | | | | | | | | | | | | |
| LED Lighting (72213) | - | - | 30,000 | - | - | - | - | - | - | - | - | 30,000 |
| Senior Centre Total | - | - | 30,000 | - | - | - | - | - | - | - | - | 30,000 |
| Euturo Ecolitico Mointenanco (72400) | | | | 4 000 000 | 4 000 000 | 4 000 000 | 4 000 000 | 4 000 000 | 4 000 000 | | | 6 000 000 |
| Future Facilities Maintenance (72196) | - | - | - | 1,000,000 | 1,000,000 | 1,000,000 | 1,000,000 | 1,000,000 | 1,000,000 | - | - | 6,000,000 |
| <u>Cameras - HDIP - (72204)</u> | 25,000 | 25,000 | 25,000 | 25,000 | 25,000 | 25,000 | - | - | - | - | - | 150,000 |
| <u>Electronic Sign - (72244)</u> | 15,000 | - | - | - | - | - | - | - | - | - | - | 15,000 |
| REPAIR & REPLACEMENT TOTAL | 4,538,680 | 1,623,000 | 2,040,300 | 1,640,000 | 1,334,200 | 1,556,300 | 1,366,700 | 1,125,000 | 1,150,000 | 134,000 | 1,750,000 | 18,258,180 |

REPAIR & REPLACEMENT - FLEET

| | FLEET <u>NUMBER</u> | <u>2015</u> (APPROVED) | <u>2016</u> | <u>2017</u> | <u>2018</u> | <u>2019</u> | <u>2020</u> | <u>2021</u> | <u>2022</u> | <u>2023</u> | <u>2024</u> | <u>2025</u> | Project <u>Total</u> |
|----------------------------|------------------------|---------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------------------|
| 1/2 Tonne Pick-Up (34155) | 500 | 30,000 | | | | | | | | | | | 30,000 |
| Kubota/60"ZeroTurn (71093) | 249 | - | - | - | 15,000 | | - | - | - | - | - | - | 15,000 |
| Kubota/60"ZeroTurn (71094) | 254 | - | - | - | 15,000 | | - | - | - | | | | 15,000 |
| Kubota/60"ZeroTurn (71095) | 255 | - | - | - | 15,000 | | - | - | - | | | | 15,000 |
| Kubota/60"ZeroTurn (71096) | 256 | - | - | - | 15,000 | | - | - | - | | | | 15,000 |
| Ice Resurfacer (34156) | 591 | 85,000 | | | | | | | | | | | 85,000 |
| Olympia/ST95 (34186) | 592 | - | 85,000 | | - | - | - | - | - | - | - | - | 85,000 |
| 3 Tonne Truck (34239) | 16 | | 90,000 | - | - | - | - | - | - | - | - | - | 90,000 |
| GMC Savana (34189) | 11 | 45,000 | - | - | - | - | - | - | - | - | - | - | 45,000 |
| GMC Savana (34190) | 12 | 45,000 | - | - | - | - | - | - | - | - | - | - | 45,000 |
| GMC/Savana (34191) | 501 | 35,000 | - | - | - | - | - | - | - | - | - | - | 35,000 |
| Olympia/ST95 (34192) | 594 | - | 85,000 | | - | - | - | - | - | - | - | - | 85,000 |
| Genie lift (34193) | 597 | - | - | 65,000 | - | - | - | - | - | - | - | - | 65,000 |
| Frt/FL80 (34194) | 29 | 180,000 | | - | - | - | - | - | - | - | - | - | 180,000 |
| Frt/FL80 (34236) | 31 | - | 200,000 | - | - | - | - | - | - | - | - | - | 200,000 |
| Ford/F450 (34195) | 19 | - | - | 86,000 | | - | - | - | - | - | - | - | 86,000 |
| GMC/K3500 (34196) | 18 | - | - | 80,000 | | - | - | - | - | - | - | - | 80,000 |
| Ransome/950D (71103) | 243 | - | - | 60,000 | | - | | | | - | - | - | 60,000 |
| Ford F 150 (34197) | 2 | - | - | 30,000 | | - | - | - | - | - | - | - | 30,000 |
| Ford F150 (34198) | 14 | - | - | 30,000 | | - | - | - | - | - | - | - | 30,000 |
| SmithcoEasyLiner (71104) | 230 | - | - | 18,000 | | - | - | - | - | - | - | - | 18,000 |
| AirWay/6' (71105) | 233 | - | - | - | 10,000 | | - | - | - | - | - | - | 10,000 |
| JD/4x4 (71106) | 207 | - | - | - | 145,000 | | - | - | - | - | - | - | 145,000 |
| | | | | | | | | | | | | | |

REPAIR & REPLACEMENT - FLEET - continued

| Shown in \$ 000's | FLEET <u>NUMBER</u> | <u>2015</u> (APPROVED) | <u>2016</u> | <u>2017</u> | <u>2018</u> | <u>2019</u> | <u>2020</u> | <u>2021</u> | <u>2022</u> | <u>2023</u> | <u>2024</u> | <u>2025</u> | Project <u>Total</u> |
|------------------------------------|------------------------|---------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------------------|
| Skid Steer Loader (71107) | 225 | - | - | - | 145,000 | | - | - | - | - | - | - | 145,000 |
| GMC Sierra Crew Cab (71108) | 224 | - | - | - | 65,000 | | - | - | - | - | - | - | 65,000 |
| GMC 1 Ton Dump (71109) | 228 | - | - | - | 55,000 | | - | - | - | - | - | - | 55,000 |
| JD/870 (71110) | 209 | - | - | | 36,000 | | - | - | - | - | - | - | 36,000 |
| GMC Sierra (71111) | 200 | - | - | - | 30,000 | | - | - | - | - | - | - | 30,000 |
| Bartell/SP86/Grinder (34199) | 88 | - | - | - | 25,000 | | - | - | - | - | - | - | 25,000 |
| Hoe Pak (34214) | 14 | - | - | - | 20,000 | | - | - | - | - | - | - | 20,000 |
| Chev pick up (34218) | 503 | - | - | - | 30,000 | | - | - | - | - | - | - | 30,000 |
| Sports Field Top Dresser (73275) | 236 | - | 45,000 | - | - | - | - | - | - | - | - | - | 45,000 |
| GMC/3500 (34220) | 15 | - | - | - | - | 70,000 | - | - | - | - | - | - | 70,000 |
| Chev/Cab (71112) | 205 | - | - | - | - | 50,000 | - | - | - | - | - | - | 50,000 |
| Chev (71113) | 206 | - | - | - | - | 45,000 | - | - | - | - | - | - | 45,000 |
| Kubota 4x4 Tractor (34221) | 599 | - | - | - | - | 40,000 | - | - | - | - | - | - | 40,000 |
| JD/5400 (71114) | 223 | - | - | - | - | 36,000 | | | - | - | - | - | 36,000 |
| Chev/1500 (34222) | 10 | - | - | - | - | 30,000 | | | - | - | - | - | 30,000 |
| Chev/1500 (34223) | 6 | - | - | - | - | 30,000 | | | - | - | - | - | 30,000 |
| Chev/1500 (71115) | 201 | - | - | - | - | 30,000 | | | - | - | - | - | 30,000 |
| Provision for new purchase (34224) | | - | - | - | - | 30,000 | | | - | - | - | - | 30,000 |
| Provision for new purchase (34225) | | - | - | - | - | - | 30,000 | | | - | - | - | 30,000 |
| Toyoto Tacoma pick up (24006) | 403 | - | - | - | 40,000 | | - | - | | - | - | - | 40,000 |
| Cat/416B (34226) | 41 | - | - | - | - | 145,000 | | - | | - | - | - | 145,000 |
| Int/2554 (34227) | 32 | - | - | - | - | - | 275,000 | | | - | - | - | 275,000 |
| Back Hoe 420E IT (71116) | 238 | - | - | - | | - | 155,000 | | | - | - | - | 155,000 |
| Zamboni 525 (34228) | 595 | - | - | - | - | - | 85,000 | | | - | - | - | 85,000 |

continued.....

REPAIR & REPLACEMENT - FLEET - continued

| <u>Shown in \$ 000's</u> | FLEET <u>NUMBER</u> | <u>2015</u> (APPROVED) | <u>2016</u> | <u>2017</u> | <u>2018</u> | <u>2019</u> | <u>2020</u> | <u>2021</u> | <u>2022</u> | <u>2023</u> | <u>2024</u> | <u>2025</u> | Project <u>Total</u> |
|---------------------------------------|------------------------|---------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------------------|
| Catepillar/420E (71117) | 43 | - | - | - | - | - | 155,000 | | | - | - | - | 155,000 |
| JD/5225 Tractor (71118) | 241 | - | - | - | - | - | 80,000 | | | - | - | - | 80,000 |
| Woodchipper (34229) | 300 | - | - | - | - | - | 48,000 | | | - | - | - | 48,000 |
| Chev Express (34230) | 20 | - | - | 45,000 | | - | - | - | | - | - | - | 45,000 |
| Chev Express (34231) | 21 | - | - | 45,000 | | - | - | - | | - | - | - | 45,000 |
| JD/4320 Tractor (71119) | 240 | - | - | - | - | - | 40,000 | | | - | - | - | 40,000 |
| JD/5500 (71120) | 220 | - | - | - | - | - | 36,000 | | | - | - | - | 36,000 |
| Chev Silverado (71121) | 207 | - | - | - | 35,000 | | - | - | | - | - | - | 35,000 |
| Chev Silverado (34232) | 5 | - | - | - | - | - | 30,000 | | | - | - | - | 30,000 |
| Chev Silverado (34233) | 22 | - | - | - | - | - | 30,000 | | | - | - | - | 30,000 |
| Chev Silverado (71122) | 212 | - | - | - | - | - | 30,000 | | | - | - | - | 30,000 |
| Chev Silverado (34234) | 3 | - | - | - | - | - | 30,000 | | | - | - | - | 30,000 |
| FUTURE Unidentified Allowance (34235) | | - | - | - | - | - | - | 500,000 | 500,000 | 500,000 | 600,000 | 700,000 | 2,800,000 |
| Total Fleet R & R COSTS | | 420,000 | 505,000 | 459,000 | 696,000 | 506,000 | 1,024,000 | 500,000 | 500,000 | 500,000 | 600,000 | 700,000 | 6,410,000 |

REPAIR & REPLACEMENT PROJECTS - PLANNING

| | <u>2015</u> (approved) | <u>2016</u> | <u>2017</u> | <u>2018</u> | <u>2019</u> | <u>2020</u> | <u>2021</u> | <u>2022</u> | <u>2023</u> | <u>2024</u> | <u>2025</u> | Project <u>Total</u> |
|---|---------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-----------------------------|-------------|-----------------------------|
| Repair & Replacement Plotter Equipment (81013) | <u> </u> | <u>-</u> | <u>-</u> | - | | <u>-</u> | <u>-</u> | <u>-</u> | _ | 10,000 | - | 10,000 |
| | - | - | - | - | - | - | - | - | - | 10,000 | - | 10,000 |
| Funding Sources: R & R | <u> </u> | <u>.</u> | | | | - | - | <u> </u> | - | (10,000) (10,000) | - | (10,000) (10,000) |
| | _ | _ | _ | _ | _ | | | _ | _ | (10,000) | - | (10,000) |

GROWTH & NEW ASSETS

(Anticipated Spend of \$95,328,010 over 11 years) Specific Growth & New Assets are at the following pages:

| GROWTH & NEW SUMMARY | Page 39 |
|---|---------|
| Office of the C.A.O. | Page 40 |
| Legal & Legislative Services | Page 41 |
| Corporate & Financial Services | Page 42 |
| Building & By-law Services | Page 43 |
| Fire & Emergency Services | Page 44 |
| Infrastructure & Environmental Services | Page 45 |
| Parks & Recreation Services | Page 46 |
| Facilities & Fleet | Page 48 |
| Planning and Development | Page 49 |



GROWTH AND NEW ASSETS INVESTMENT PLAN - SUMMARY OF CAPITAL NEEDS

| | | | | | | | | | | | > | 10 YEAR |
|-------------------------------|---------------------------|-------------|--------------|-------------|--------------|--------------|-------------|-------------|-------------|-------------|---------------|----------------|
| | <u>2015</u> (Approved) | <u>2016</u> | <u>2017</u> | <u>2018</u> | <u>2019</u> | <u>2020</u> | <u>2021</u> | <u>2022</u> | <u>2023</u> | <u>2024</u> | 2025 | <u>OUTLOOK</u> |
| GROWTH and NEW | , , , | | | | | | | | | | | |
| Administrative Officer | 100,000 | - | - | - | - | - | - | - | - | - | - | - |
| Legal & Legislative | 275,000 | - | - | - | - | - | - | - | - | - | - | - |
| Corporate & Financial Service | 30,000 | 15,000 | 45,000 | 60,000 | - | 10,000 | - | - | - | - | - | 130,000 |
| Building & Bylaw Services | - | 311,000 | 400,000 | 100,000 | - | - | - | - | - | - | - | 811,000 |
| Fire Services | - | 60,000 | 16,065,000 | 175,000 | - | - | - | - | - | - | - | 16,300,000 |
| Infrastructure & Environment | 1,546,500 | 840,660 | 2,541,690 | 2,633,030 | 3,638,440 | 4,088,780 | 371,350 | 303,000 | - | 194,600 | 5,768,110 | 20,379,660 |
| P & R Services | 1,372,000 | 1,575,000 | 4,760,000 | 2,250,000 | 2,575,000 | 1,750,000 | 1,925,000 | 400,000 | 3,150,000 | - | - | 18,385,000 |
| Facilities | 40,000 | 35,000 | 50,000 | 2,165,000 | 10,000,000 | 13,235,000 | 850,000 | - | - | - | - | 26,335,000 |
| Fleet | 110,000 | 300,000 | 435,000 | 140,000 | 70,000 | 150,000 | 150,000 | 150,000 | 150,000 | - | - | 1,545,000 |
| Planning & Development | 200,000 | 970,000 | 1,250,000 | 930,000 | - | - | - | - | - | - | - | 3,150,000 |
| TOTAL GROWTH & NEW | 3,673,500 | 4,106,660 | 25,546,690 | 8,453,030 | 16,283,440 | 19,233,780 | 3,296,350 | 853,000 | 3,300,000 | 194,600 | 5,768,110 | 87,035,660 |
| Water/Sewer Projects | 216,700 | 1,485,000 | 1,444,300 | 135,000 | - | 1,338,000 | - | - | - | | | 4,402,300 |
| _ TOTAL GROWTH & NEW | 3,890,200 | 5,591,660 | 26,990,990 | 8,588,030 | 16,283,440 | 20,571,780 | 3,296,350 | 853,000 | 3,300,000 | 194,600 | 5,768,110 | 91,437,960 |
| - | | | | | | | | | | Total inc | luding 2015 _ | 95,328,160 |
| Funding Sources: | | | | | | | | | | | | |
| Development Charges | (2,797,300) | (2,723,094) | (14,287,771) | (6,421,800) | (14,316,396) | (17,613,402) | (2,798,408) | (767,700) | (2,970,000) | (164,333) | (5,191,299) | (67,254,203) |
| Federal Gax Tax | - | - | - | - | - | - | - | - | - | - | - | - |
| Special Purposes Reserves | (177,200) | (177,500) | (630,500) | (590,000) | (280,000) | (350,000) | (175,000) | (215,000) | (315,000) | - | - | (2,733,000) |
| Growth & New Reserves | (915,700) | (2,691,066) | (2,098,069) | (1,644,480) | (1,512,044) | (2,783,378) | (147,942) | (45,300) | (15,000) | (30,267) | (576,811) | (11,544,357) |
| R & R Reserves | - | - | - | - | - | - | - | - | - | - | - | - |
| Development / Sale of Land | - | - | - | - | - | - | - | - | - | - | - | - |
| Water & Sewer Reserves | - | - | - | - | - | - | - | - | - | - | - | - |
| Internal Borrowing | - | - | - | - | - | - | - | - | - | - | - | - |
| External Funding | - | - | (9,799,650) | (106,750) | - | - | - | - | - | - | - | (9,906,400) |
| - | (3,890,200) | (5,591,660) | (26,815,990) | (8,763,030) | (16,108,440) | (20,746,780) | (3,121,350) | (1,028,000) | (3,300,000) | (194,600) | (5,768,110) | (91,437,960) |
| | | | | | | | | | | | | |

HIT .

GROWTH AND NEW PROJECTS - OFFICE OF THE C.A.O.

| | <u>2015</u> (approved) | <u>2016</u> | <u>2017</u> | <u>2018</u> | <u>2019</u> | <u>2020</u> | <u>2021</u> | <u>2022</u> | <u>2023</u> | <u>2024</u> | <u>2025</u> | Project <u>Total</u> |
|---|---------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------------------|
| Growth & New 12030 Hydro-Seeding of Leslie St Lan | 100,000 | | | | | | | | | | | 100,000 |
| | 100,000 | - | - | - | - | - | - | - | - | - | - | 100,000 |
| Funding Sources: Growth & New | (100,000) | - | - | - | - | - | - | - | - | | | (100,000) |
| | (100,000) | - | - | - | - | - | - | - | - | | | (100,000) |

GROWTH AND NEW PROJECTS - LEGAL & LEGISLATIVE SERVICES

| | <u>2015</u> (approved) | <u>2016</u> | <u>2017</u> | <u>2018</u> | <u>2019</u> | <u>2020</u> | <u>2021</u> | <u>2022</u> | <u>2023</u> | <u>2024</u> | <u>2025</u> | Project <u>Total</u> |
|--------------------------------|---------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------------------|
| Growth & New | | | | | | | | | | | | |
| 13008 Meeting Mgmt Software | 75,000 | - | - | - | - | - | - | - | - | - | - | 75,000 |
| 14035 Records/Information Mgmt | 200,000 | - | - | - | - | - | - | - | - | - | - | 200,000 |
| | 275,000 | - | - | - | - | - | - | - | - | - | - | 275,000 |
| Funding Sources: | | | | | | | | | | | | |
| Development Charges | - | - | - | - | - | - | - | - | - | - | - | - |
| Growth & New Reserve | (275,000) | - | - | - | - | - | - | - | - | - | - | (275,000) |
| | (275,000) | - | - | - | - | - | - | - | - | - | - | (275,000) |

GROWTH & NEW PROJECTS - CORPORATE & FINANCIAL SERVICES

| | <u>2015</u> (approved) | <u>2016</u> | <u>2017</u> | <u>2018</u> | <u>2019</u> | <u>2020</u> | <u>2021</u> | <u>2022</u> | <u>2023</u> | <u>2024</u> | <u>2025</u> | Project <u>Total</u> |
|------------------------------------|---------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------------------|
| Growth & New | | | | | | | | | | | | |
| 14037 Joint Ops LAN room & DR site | - | - | 45,000 | 60,000 | - | 10,000 | - | - | - | - | - | 115,000 |
| 14065 Mobility Solutions | 30,000 | 15,000 | - | - | - | - | - | - | - | - | - | 45,000 |
| | 30,000 | 15,000 | 45,000 | 60,000 | - | 10,000 | - | - | - | - | - | 160,000 |
| Funding Sources: | | | | | | | | | | | | |
| Growth & New Reserve | (30,000) | (15,000) | (45,000) | (60,000) | - | (10,000) | - | - | - | - | - | (160,000) |
| | (30,000) | (15,000) | (45,000) | (60,000) | - | (10,000) | - | - | - | - | - | (160,000) |

GROWTH & NEW PROJECTS - BUILDING & BY-LAW SERVICES

| | <u>2015</u> (approved) | <u>2016</u> | <u>2017</u> | <u>2018</u> | <u>2019</u> | <u>2020</u> | <u>2021</u> | <u>2022</u> | <u>2023</u> | <u>2024</u> | <u>2025</u> | Project <u>Total</u> |
|-------------------------------------|---------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------------------|
| Growth & New | | | | | | | | | | | | |
| 12016 Customer Care Centre | - | 100,000 | 200,000 | 100,000 | - | - | - | - | - | - | - | 400,000 |
| 12025 Customer Relationship Mgmt (C | CRM) | 86,000 | | | | | | | | | | 86,000 |
| 24005 Online Services | - | - | 200,000 | - | - | - | - | - | - | - | - | 200,000 |
| 24011 Mobile Devices for BBS | | 100,000 | | | | | | | | | | 100,000 |
| 24012 Bylaw Permit Parking Program | | 25,000 | | | | | | | | | | 25,000 |
| | - | 311,000 | 400,000 | 100,000 | - | - | - | - | - | - | - | 811,000 |
| Funding Sources: | | | | | | | | | | | | - |
| Development Charges | - | - | - | - | - | - | - | - | - | - | - | - |
| Building Reserve | | | | | | | | | | | | |
| Online Services | - | - | (100,000) | - | - | - | - | - | - | - | - | (100,000) |
| Mobile Devices | | (80,000) | | | | | | | | | | (80,000) |
| Growth & New | - | - | | | | | | | | | | - |
| Customer Care Centre | - | (100,000) | (200,000) | (100,000) | - | - | - | - | - | - | - | (400,000) |
| Customer Relationship Mgmt | | (86,000) | | | | | | | | | | (86,000) |
| Online Services | - | - | (100,000) | | - | - | - | - | - | - | - | (100,000) |
| Mobile Devices | | (20,000) | | | | | | | | | | (20,000) |
| Bylaw Permit Parking Program | | (25,000) | | | | | | | | | | (25,000) |
| | - | (311,000) | (400,000) | (100,000) | - | - | - | - | - | - | - | (811,000) |

GROWTH & NEW PROJECTS - FIRE SERVICES

| | <u>2015</u> (approved) | <u>2016</u> | <u>2017</u> | <u>2018</u> | <u>2019</u> | <u>2020</u> | <u>2021</u> | <u>2022</u> | <u>2023</u> | <u>2024</u> | <u>2025</u> | Project <u>Total</u> |
|--------------------------------------|---------------------------|-------------|--------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------------------|
| Growth & New | · · · · / | | | | | | | | | | | |
| 21005 New Fire Training Facility | - | - | 10,050,000 | - | - | - | - | - | - | - | - | 10,050,000 |
| 21101 CYFS - Access Control Locks | | 28,000 | | | | | | | | | | 28,000 |
| 21102 Pumper for New Fire Stations | | | 565,000 | - | - | - | - | - | - | - | - | 565,000 |
| 21103 CYFS - Water Softeners | | 16,000 | | | | | | | | | | 16,000 |
| 21006 New Fire Station | | | 5,450,000 | - | - | - | - | - | - | - | - | 5,450,000 |
| 21104 Turn Out Gear for New Crews | | | | 175,000 | - | - | - | - | - | - | - | 175,000 |
| 21105 CYFS - Outdoor Electric Displa | y Signs | 16,000 | | | | | | | | | | 16,000 |
| | - | 60,000 | 16,065,000 | 175,000 | - | - | - | - | - | - | - | 16,300,000 |
| Funding Sources: | | | | | | | | | | | | |
| Development Charges | - | - | (6,265,350) | (68,250) | - | - | - | - | - | - | - | (6,333,600) |
| Growth & New | | (60,000) | | | | | | | | | | (60,000) |
| Contribution from Newmarket | | - | (9,799,650) | (106,750) | - | - | - | - | - | - | - | (9,906,400) |
| | - | (60,000) | (16,065,000) | (175,000) | - | - | - | - | - | - | - | (16,300,000) |

| | <u>2015</u> | <u>2016</u> | <u>2017</u> | <u>2018</u> | <u>2019</u> | <u>2020</u> | <u>2021</u> | <u>2022</u> | <u>2023</u> | <u>2024</u> | <u>2025</u> | Total |
|--|-------------|-------------|-------------|-----------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Growth & New Projects: | (approved) | | | | | | | | | | | |
| 31101 Recon & Upgrade - Vandorf Sideroad | 1,200,000 | - | - | - | - | - | - | - | - | - | | 1,200,000 |
| 31151 Streetlights | | 50,000 | | | | | | | | | | 50,000 |
| 34515 Allocation for Growth Related Traffic Congestion | | - | | | 303,000 | | | 303,000 | | | | 606,000 |
| 34516 Yonge St/Church St Signalization | | | | 206,040 | | | | | | | | 206,040 |
| 34518 Pedestrian Crossings as per 2014 DC Study | | | | 72,050 | | | 72,050 | | | 72,050 | | 216,150 |
| 34519 Traffic Calming as per 2014 DC Study | | | | 122,550 | | | 122,550 | | | 122,550 | | 367,650 |
| 34522 Speed Message Board | 12,000 | | | | | | | | | | | 12,000 |
| 34524 Orchard Heights Blvd - west of Yonge | | | | 91,910 | - | | | | | | | 91,910 |
| 34614 S/W - Murray/Kennedy - 225m N | 57,700 | | - | - | - | - | - | - | - | - | - | 57,700 |
| 34615 S/W - Edward/Firehall - Dunning | 109,800 | | - | - | - | - | - | - | - | - | - | 109,800 |
| 34610 S/W, Multi -Use Trail & Illumination Leslie St S | - | - | 182,810 | | | | | | | | | 182,810 |
| 34612 S/W - Bloomington Rd - Bayview to E Town Limit | - | - | - | - | | 1,524,000 | - | - | - | - | - | 1,524,000 |
| 34623 S/W - Bayview - Bloomington to Vandorf | - | - | - | | 1,000,000 | - | - | - | - | - | - | 1,000,000 |
| 34619 S/W - Bayview Ave - Vandorf to Wellington | - | - | - | 70,000 | 1,500,000 | - | - | - | - | - | - | 1,570,000 |
| 34620 S/W, Multi -Use Trail & Illumination Leslie St N | - | - | 361,580 | - | - | - | - | - | - | - | - | 361,580 |
| 34621 S/W - Bayview Ave - Hartwell to St John's | 152,000 | - | - | - | - | - | - | - | - | - | - | 152,000 |
| 34625 S/W - Bayview Ave - St John's to N Town limit | - | - | - | - | - | - | 176,750 | - | - | - | - | 176,750 |
| 34627 S/W - Ind Pkwy N - E. Side, AFLC to St John's | - | 515,660 | | - | - | - | - | - | - | - | - | 515,660 |
| 34629 S/W - Mary - Ind. Pkwy S. to Wellington | - | 75,000 | 586,000 | | - | - | - | - | - | - | - | 661,000 |
| 34630 S/W - Yonge - Batson Dr to 185 m North | - | - | , | 25,000 | 120,440 | | - | - | - | - | - | 145,440 |
| 34631 S/W - Yonge - 185m N of Batson to St John's | _ | _ | | 30,000 | 304,000 | - | _ | _ | _ | - | _ | 334,000 |
| 34632 S/W - E side Yonge - St John's to N Town Limit | _ | _ | | 20,000 | 180,000 | | _ | _ | _ | - | _ | 200,000 |
| 34633 S/W - W side Yonge - St John's to N Town Limit | _ | _ | | 20,000 | 231,000 | _ | _ | _ | _ | _ | _ | 251,000 |
| 34635 S/W - St John's - Bayview To E Town limit | _ | _ | 1,411,300 | - | 201,000 | | | _ | _ | _ | _ | 1,411,300 |
| 34636 S/W - Wellington St E Leslie to First Commerce | - | _ | - | 303,000 | _ | _ | _ | _ | _ | | - | 303,000 |
| - | | - | - | | - | - | - | - | - | - | - | 1,216,100 |
| - | | - | - | 1,216,100 | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | 149,480 | 149,480 |
| 34639 S/W - Bathurst St - Bloomington Sdrd - N Town L | | - | - | - | - | - | - | - | - | - | 5,618,630 | 5,618,630 |
| 34640 S/W - Yonge St - Bloomington GO Bridge, E & W | - | - | - | - | | 1,424,780 | - | - | - | - | - | 1,424,780 |
| 34641 S/W - Industry St - Industrial Pkwy S - Mary St. | - | - | - | 341,380 | - | - | - | - | - | - | - | 341,380 |
| 34642 S/W - Civic Square Gate | 15,000 | - | - | - | - | - | - | - | - | - | - | 15,000 |
| 41005 Yonge St Sanitary Sewer Replacement | - | - | - | 250,000 | - | 2,478,000 | - | - | - | - | - | 2,728,000 |
| 41006 Leslie St Sanitary Sewer - Service to 2C Lands | - | 1,485,000 | - | - | - | - | - | - | - | - | - | 1,485,000 |
| 41010 SCADA Monitoring System | - | 200,000 | - | - | - | - | - | - | - | - | - | 200,000 |
| 43048 St John's Sdrd - Leslie to 2C | 216,700 | - | 1,444,300 | - | - | - | - | - | - | - | - | 1,661,000 |
| | 1,763,200 | 2,325,660 | 3,985,990 | 2,768,030 | 3,638,440 | 5,426,780 | 371,350 | 303,000 | - | 194,600 | 5,768,110 | 26,545,160 |
| Funding Sources: | | | | | | | | | | | | |
| Development Charges - Roads | (1,363,800) | (509,094) | (2,195,121) | (2,209,050) | (3,183,396) | (2,653,902) | (323,408) | (272,700) | - | (164,333) | (5,191,299) | (18,066,103 |
| Development Charges - Sanitary Sewer | - | - | - | · · · · · · · · | - | - | - | - | - | - | , / | - |
| Development Charges - Water | (216,700) | (1,485,000) | (1,444,300) | (135,000) | - | (1,338,000) | - | - | - | - | | (4,619,000 |
| External Funding | (-,) | - | - | - | - | - | - | - | - | - | - | - |
| Federal Gas Tax | - | - | - | - | - | - | - | - | - | - | - | - |
| Growth and New Reserve | (182,700) | (331,566) | (346,569) | (423,980) | (455,044) | (1,434,878) | (47,942) | (30,300) | - | (30,267) | (576,811) | (3,860,057 |
| | (1,763,200) | (2,325,660) | (3,985,990) | (2,768,030) | (3,638,440) | (5,426,780) | (371,350) | (303,000) | - | (194,600) | (5,768,110) | (26,545,160 |

GROWTH AND NEW PROJECTS - PARKS & RECREATION SERVICES

Forecast Excludes Purchases of Parklands

| Growth & New Projects: | <u>2015</u> (approved) | <u>2016</u> | <u>2017</u> | <u>2018</u> | <u>2019</u> | <u>2020</u> | <u>2021</u> | <u>2022</u> | <u>2023</u> | <u>2024</u> | <u>2025</u> | Project <u>Total</u> |
|--|---------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------------------|
| - | | | | | | | | | | | | |
| 73085 Arboretum Development | 100,000 | 100,000 | 100,000 | 100,000 | 100,000 | - | - | - | - | - | - | 500,000 |
| 73177 Pedestrian Underpasses (3 locations on Leslie St and 2 locations on St John's Sdro | - t | 475,000 | - | - | - | - | - | - | - | - | - | 475,000 |
| 73243 Grade Separated crossing Wellington St east of John West Way | - | - | 1,500,000 | - | - | - | - | - | - | - | - | 1,500,000 |
| 73244 Grade Separated crossing Vandorf Road a Archerhill | - | - | - | - | - | - | - | 300,000 | | - | - | 300,000 |
| 73245 Grade Separated crossing Bayview Avenu at Stone Rd and Benville Drive | - | - | - | 600,000 | - | - | - | - | - | - | - | 600,000 |
| 73246 Grade Separated Crossing Yonge street a Elderberrv Trail Construction (Trail Master Plan in 2C | - | - | - | - | - | - | - | - | 1,500,000 | - | - | 1,500,000 |
| 73147 development area based on \$100 per lin. Meter 3 phases 5000 lin meter) Trail Construction (Trail Master Plan in | 150,000 | - | - | - | - | - | - | - | - | - | - | 150,000 |
| 73247 Coutts /Pandolfo development area based on \$100 per lin. Meter 2 phases 100 lin meter ea.phase) | - | | 100,000 | 100,000 | - | - | - | - | - | - | - | 200,000 |
| 73107 Former Kwik Kopy Trail Connection | 35,000 | - | - | - | - | - | - | - | - | - | - | 35,000 |
| 73156 Multi Use Courts per Master Plan | - | - | 130,000 | - | - | - | - | - | - | - | - | 130,000 |
| 73251 GPS Tracking System | - | - | 15,000 | - | - | - | - | - | - | - | - | 15,000 |
| 73248 Rail Crossings at grade McRoberts | - | - | - | - | - | - | - | - | 100,000 | - | - | 100,000 |
| 73249 Rail Crossing at grade Vata Court | - | - | - | - | - | - | - | 100,000 | - | - | - | 100,000 |
| 73252 Queens Diamond Jubilee Park Accessible | P 387,000 | - | - | - | - | - | - | - | - | - | | 387,000 |
| 73174 Additional Playground - 2017 | - | - | 350,000 | - | - | - | - | - | - | - | | 350,000 |
| 73175 Additional Playground - 2019 | - | - | - | - | 350,000 | - | - | - | - | - | | 350,000 |
| 73169 Wildlife Park (Phase I, II & III) | 200,000 | - | 1,000,000 | 1,000,000 | 1,000,000 | 1,000,000 | 1,000,000 | - | - | - | | 5,200,000 |
| 73161 Site Servicing - Stewart Burnett | 200,000 | - | - | - | - | - | - | - | - | - | | 200,000 |

continued.....

GROWTH AND NEW PROJECTS - PARKS & RECREATION SERVICES

Forecast Excludes Purchases of Parklands

| | | | i ci codot | <u>Exolutes</u> i v | | i undundo | | | | | | Project |
|---|---------------------------|-------------|-------------|---------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|--------------|
| | <u>2015</u> (approved) | <u>2016</u> | <u>2017</u> | <u>2018</u> | <u>2019</u> | <u>2020</u> | <u>2021</u> | <u>2022</u> | <u>2023</u> | <u>2024</u> | <u>2025</u> | <u>Total</u> |
| 73162 Hard Ball Diamond | - | | 1,200,000 | - | - | - | - | - | - | - | | 1,200,000 |
| 73165 BMX Park | - | - | - | 450,000 | - | - | - | - | - | - | | 450,000 |
| 73271 Hartwell Way Overpass Contribution | 300,000 | | | | | | | | | | | 300,000 |
| 73253 Beach Volleyball Court | - | - | 40,000 | - | - | - | - | - | - | - | | 40,000 |
| 73254 Pond Water Feature | - | - | 40,000 | - | - | - | - | - | - | - | | 40,000 |
| 74009 Museum Curator | - | - | 60,000 | - | - | - | - | - | - | - | - | 60,000 |
| 73279 Leslie Street Underpass A | - | 1,000,000 | - | - | - | - | - | - | - | - | | 1,000,000 |
| 73256 Sand Based Field (Harmon Park) | - | - | - | - | 200,000 | - | - | - | - | - | | 200,000 |
| 73171 Rail Crossings - Grade Separated Loraview Ln, St Johns Sdrd, Walton Dr, Milgate Pl | - | - | - | - | 750,000 | 750,000 | 750,000 | - | 750,000 | - | | 3,000,000 |
| 73257 Outdoor Rink with boards and refridgeration | - | - | - | - | - | - | - | - | 800,000 | - | | 800,000 |
| 73258 Oak Ridges/Nokiidaa Trail Extension | - | - | 50,000 | - | - | - | - | - | - | - | | 50,000 |
| 73119 Street Tree Planting | - | - | 175,000 | - | 175,000 | - | 175,000 | - | - | - | | 525,000 |
| | 1,372,000 | 1,575,000 | 4,760,000 | 2,250,000 | 2,575,000 | 1,750,000 | 1,925,000 | 400,000 | 3,150,000 | - | - | 19,757,000 |
| Funding Sources: | | | | | | | | | | | | |
| Development Charges - Parks Dev | (1,144,800) | (427,500) | (3,991,500) | (1,935,000) | (2,070,000) | (1,575,000) | (1,575,000) | (360,000) | (2,835,000) | - | - | (15,913,800) |
| Cash in Lieu - Parkland | (177,200) | (97,500) | (530,500) | (265,000) | (280,000) | (175,000) | (175,000) | (40,000) | (315,000) | - | - | (2,055,200) |
| Parks Master Plan | - | - | - | - | - | - | - | - | - | - | - | - |
| Landscape Fee Reserve | - | - | (175,000) | - | (175,000) | - | (175,000) | - | - | - | - | (525,000) |
| Growth & New Reserve | (50,000) | (1,050,000) | (63,000) | (50,000) | (50,000) | - | - | - | - | - | - | (1,263,000) |
| Region of York | - | - | - | - | - | - | - | - | - | - | - | - |
| School Board Funding | - | - | - | - | - | - | - | - | - | - | - | - |
| | (1,372,000) | (1,575,000) | (4,760,000) | (2,250,000) | (2,575,000) | (1,750,000) | (1,925,000) | (400,000) | (3,150,000) | - | - | (19,757,000) |

GROWTH AND NEW PROJECTS - FACILITIES & FLEET

| | | <u>2015</u> (approved) | <u>2016</u> | <u>2017</u> | <u>2018</u> | <u>2019</u> | <u>2020</u> | <u>2021</u> | <u>2022</u> | <u>2023</u> | <u>2024</u> | <u>2025</u> | Project <u>Total</u> |
|--------------------|------------------------------------|---|-------------|-------------|-------------|--------------|--------------|-------------|-------------|-------------|-------------|-------------|-------------------------|
| owth and Facilitie | | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | | | | | | | | | | | |
| 72113 | New Recreation Facility | - | - | - | - | 2,400,000 | 12,000,000 | 850,000 | | - | - | - | 15,250,000 |
| 72114 | New Library | - | - | - | 665,000 | 7,600,000 | 1,235,000 | | - | - | - | - | 9,500,000 |
| 73168 | Artificial Ice Rink | - | - | - | 1,500,000 | | | - | - | - | - | - | 1,500,000 |
| 72194 | Water Bottle Fill Stations | 40,000 | - | - | - | - | - | - | - | - | - | - | 40,000 |
| 72111 | Bldg Automation System Network | - | - | 50,000 | - | - | - | - | - | - | - | - | 50,000 |
| 72250 | AFLC - Roof Top Unit | | 35,000 | | | | | | | | | | 35,000 |
| | Total Facilities | 40,000 | 35,000 | 50,000 | 2,165,000 | 10,000,000 | 13,235,000 | 850,000 | - | - | - | - | 26,375,000 |
| Fleet: | | | | | | | | | | | | | |
| 34162 | Additions to the Town Fleet | - | - | - | 100,000 | - | 150,000 | 150,000 | 150,000 | 150,000 | | | 700,000 |
| 24009 | Pick-up Truck - By Law Services | 30,000 | | - | - | - | - | - | - | - | - | - | 30,000 |
| 34182 | 2 Tonne Flat Bed Salt, Sander Plov | 80,000 | | - | - | - | - | - | - | - | - | - | 80,000 |
| 71090 | Mini Excavator - Parks | - | - | - | 40,000 | | - | - | - | - | - | - | 40,000 |
| 71091 | Skid Steer and Tracks - Parks | - | - | 65,000 | - | - | - | - | - | - | - | - | 65,000 |
| 71092 | Truck and Float - Parks | - | - | 100,000 | | - | - | - | - | - | - | - | 100,000 |
| 34168 | New 6 Ton Dump Truck with Plow | - | - | 180,000 | | | | | | | | | 180,000 |
| 34184 | Water Truck | - | - | - | - | 70,000 | | | - | - | - | - | 70,000 |
| 34187 | 3 Tonne Truck | - | - | 90,000 | - | - | - | - | - | - | - | - | 90,000 |
| 34238 | Street Sweeper | - | 300,000 | - | - | - | - | - | - | - | - | - | 300,000 |
| | Total Fleet | 110,000 | 300,000 | 435,000 | 140,000 | 70,000 | 150,000 | 150,000 | 150,000 | 150,000 | - | - | 1,655,000 |
| Tot | al Facilities and Fleet | 150,000 | 335,000 | 485,000 | 2,305,000 | 10,070,000 | 13,385,000 | 1,000,000 | 150,000 | 150,000 | - | - | 28,030,000 |
| Fundin | g Sources: | | | | | | | | | | | | |
| | Development Charges | (72,000) | (301,500) | (391,500) | (2,074,500) | (9.063.000) | (12,046,500) | (900,000) | (135,000) | (135,000) | - | - | (25,119,000) |
| | Special Purposes | - | - | - | (150,000) | - | - | - | - | - | - | - | (150,000) |
| | Water & Sewer Reserves | - | - | - | - | - | - | - | - | - | - | - | - |
| | Parks Master Plan | - | - | - | - | - | - | - | - | - | - | - | - |
| | Land Sales Proceeds | - | - | - | - | - | - | - | - | - | - | - | - |
| | Repair & Replacement Reserve | - | - | - | - | - | - | - | - | - | - | - | - |
| | Growth & New Reserve | (78,000) | (33,500) | (93,500) | (80,500) | (1,007,000) | (1,338,500) | (100,000) | (15,000) | (15,000) | - | - | (2,761,000) |
| | Financing | - | - | - | - | - | - | - | - | - | - | - | - |
| | - | (150,000) | (335,000) | (485,000) | (2,305,000) | (10.070.000) | (13,385,000) | (1,000,000) | (150,000) | (150,000) | - | - | (28,030,000) |

GROWTH & NEW PROJECTS - PLANNING & DEVELOPMENT SERVICES

| | <u>2015</u> (approved | 2 <u>016</u> d) | <u>2017</u> | <u>2018</u> | <u>2019</u> | <u>2020</u> | <u>2021</u> | <u>2022</u> | <u>2023</u> | <u>2024</u> | <u>2025</u> | Project <u>Total</u> |
|--------------------------------------|--------------------------|--------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------------------|
| Growth & New | | | | | | | | | | | | |
| Community Improvement Plan (81015) | 200,000 | 200,000 | 200,000 | 200,000 | | - | - | - | - | - | - | 800,000 |
| Aurora Promenade Streetscape (81016) | 1 | 770,000 | 1,050,000 | 730,000 | | | | | | | | 2,550,000 |
| | 200,000 | 970,000 | 1,250,000 | 930,000 | - | - | - | - | - | - | - | 3,350,000 |
| | | | | | | | | | | | | - |
| 5 | | | | | | | | | | | | |
| Funding Sources: | | | | | | | | | | | | |
| Growth & New | (200,000) | (970,000) | (1,250,000) | (930,000) | - | - | - | - | - | - | - | (3,350,000) |
| | (200,000) | (970,000) | (1,250,000) | (930,000) | - | - | - | - | - | - | - | (3,350,000) |

STUDIES & OTHER ASSETS

(Anticipated Spend of \$3,507,000 over 11 years)

Specific Studies & Other Assets are at the following pages:

| STUDIES & OTHER SUMMARY | Page 51 |
|---|---------|
| Office of the C.A.O. | Page 52 |
| Corporate & Financial Services | Page 53 |
| Planning & Development | Page 54 |
| Infrastructure & Environmental Services | Page 55 |
| Parks & Recreation Services | Page 56 |



STUDIES AND OTHER PROJECTS INVESTMENT PLAN - SUMMARY OF CAPITAL NEEDS

| | | | | | | | | | | | > | 10 YEAR |
|-------------------------------------|---------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| | <u>2015</u> (Approved) | <u>2016</u> | <u>2017</u> | <u>2018</u> | <u>2019</u> | <u>2020</u> | <u>2021</u> | <u>2022</u> | <u>2023</u> | <u>2024</u> | <u>2025</u> | OUTLOOK |
| STUDIES and OTHER | | | | | | | | | | | | |
| Chief Administrative Officer | 150,000 | - | - | 30,000 | 80,000 | 30,000 | - | 30,000 | - | 110,000 | - | 280,000 |
| Financial Services | 90,000 | - | - | 125,000 | - | 80,000 | - | - | - | - | 80,000 | 285,000 |
| Planning | - | 300,000 | - | - | - | - | 300,000 | - | - | - | - | 600,000 |
| Infrastructure & Environment | 465,000 | 50,000 | 450,000 | 250,000 | 200,000 | - | - | 270,000 | 250,000 | - | - | 1,470,000 |
| Parks & Recreation | 125,000 | - | - | 42,000 | - | - | - | - | - | - | - | 42,000 |
| | 830,000 | 350,000 | 450,000 | 447,000 | 280,000 | 110,000 | 300,000 | 300,000 | 250,000 | 110,000 | 80,000 | 2,677,000 |
| | | | | | | | | | | Total inclu | ding 2015 | 3,507,000 |
| Funding Sources: | | | | | | | | | | | | |
| Studies & Other Reserve | (632,500) | (30,000) | (250,000) | (234,500) | (180,000) | (38,000) | (30,000) | (100,000) | (150,000) | (110,000) | (8,000) | (1,130,500) |
| Development Charges | (22,500) | (270,000) | - | (112,500) | - | (72,000) | (270,000) | - | - | - | (72,000) | (796,500) |
| Special Purposes Reserves | (175,000) | - | (200,000) | (100,000) | (100,000) | - | - | (200,000) | (100,000) | - | - | (700,000) |
| Infrastructure Sustainability (Tax) | - | - | - | - | - | - | - | - | - | - | - | - |
| Water/Sewer/Storm Res | - | (50,000) | - | - | - | - | - | - | - | - | - | (50,000) |
| External Grants | _ | - | - | - | - | - | - | - | - | - | - | - |
| | | | | | | | | | | | | |
| | (830,000) | (350,000) | (450,000) | (447,000) | (280,000) | (110,000) | (300,000) | (300,000) | (250,000) | (110,000) | (80,000) | (2,677,000) |

STUDIES AND OTHER PROJECTS - CHIEF ADMINISTRATIVE OFFICER

| | 2015 (approved) | <u>2016</u> | <u>2017</u> | <u>2018</u> | <u>2019</u> | <u>2020</u> | <u>2021</u> | <u>2022</u> | <u>2023</u> | <u>2024</u> | <u>2025</u> | Project <u>Total</u> |
|-------------------------------------|--------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------------------|
| Studies & Other | | | | | | | | | | | | |
| 12015 Town of Aurora Strategic Plan | 50,000 | - | - | - | 80,000 | - | - | - | - | 80,000 | - | 210,000 |
| 12026 Organization Structure Review | 100,000 | - | - | - | - | - | - | - | - | - | - | 100,000 |
| 12032 Resident Survey 2016 - 2024 | | - | - | 30,000 | | 30,000 | | 30,000 | | 30,000 | | 120,000 |
| | 150,000 | - | - | 30,000 | 80,000 | 30,000 | - | 30,000 | - | 110,000 | - | 430,000 |
| Funding Sources: Studies & Other | (150,000) | _ | - | (30,000) | (80,000) | (30,000) | _ | (30,000) | _ | (110,000) | _ | (430,000) |
| | (150,000) | - | - | (30,000) | (80,000) | (30,000) | - | (30,000) | - | (110,000) | - | (430,000) |
| | | | | | | | | | | | | |

STUDIES AND OTHER PROJECTS - CORPORATE & FINANCIAL SERVICES

| | <u>2015</u> (approved) | <u>2016</u> | <u>2017</u> | <u>2018</u> | <u>2019</u> | <u>2020</u> | <u>2021</u> | <u>2022</u> | <u>2023</u> | <u>2024</u> | <u>2025</u> | Project <u>Total</u> |
|---|---------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------------------|
| Studies & Other | (| | | | | | | | | | | |
| 14061 DC Background Study | - | - | - | 125,000 | | - | - | - | - | - | - | 125,000 |
| 14062 Business Continuity/Disaster Recove | 25,000 | - | - | - | - | - | - | - | - | - | - | 25,000 |
| 14063 IT Strategic Plan | - | - | - | - | - | 80,000 | | - | - | - | 80,000 | 160,000 |
| 14064 Contamination Investigations (PSAB | 65,000 | - | - | - | - | - | - | - | - | - | - | 65,000 |
| | 90,000 | - | - | 125,000 | - | 80,000 | - | - | - | - | 80,000 | 375,000 |
| Funding Sources: | | | | | | | | | | | | |
| Development Charges | (22,500) | - | - | (112,500) | - | (72,000) | - | - | - | - | (72,000) | (279,000) |
| Studies & Other | (67,500) | - | - | (12,500) | - | (8,000) | - | - | - | - | (8,000) | (96,000) |
| | (90,000) | - | - | (125,000) | - | (80,000) | - | - | - | - | (80,000) | (375,000) |

STUDIES & OTHER PROJECTS - PLANNING & DEVELOPMENT SERVICES

| Studies 8 Other | <u>2015</u> (approved) | <u>2016</u> | <u>2017</u> | <u>2018</u> | <u>2019</u> | <u>2020</u> | <u>2021</u> | <u>2022</u> | <u>2023</u> | <u>2024</u> | <u>2025</u> | Project <u>Total</u> |
|----------------------------|---------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------------------|
| Studies & Other | | 200.000 | | | | | 200.000 | | | | | 000 000 |
| 81001 Official Plan Review | - | 300,000 | - | - | - | - | 300,000 | - | - | - | - | 600,000 |
| | - | 300,000 | - | - | - | - | 300,000 | - | - | - | - | 600,000 |
| | | | | | | | | | | | | |
| Funding Sources: | | | | | | | | | | | | |
| Development Charges | - | (270,000) | - | - | - | - | (270,000) | - | - | - | - | (540,000) |
| Studies & Other | - | (30,000) | | - | - | - | (30,000) | - | - | - | - | (60,000) |
| | - | (300,000) | - | - | - | - | (300,000) | - | - | - | - | (600,000) |

STUDIES & OTHER PROJECTS - INFRASTRUCTURE & ENVIRONMENTAL SERVICES

| | | <u>2015</u> (approved) | <u>2016</u> | <u>2017</u> | <u>2018</u> | <u>2019</u> | <u>2020</u> | <u>2021</u> | <u>2022</u> | <u>2023</u> | <u>2024</u> | <u>2025</u> | Project <u>Total</u> |
|-----------|--|---------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------------------|
| Studies a | and Other | | | | | | | | | | | | |
| 31053 | Salt Management Plan | - | - | - | 100,000 | - | - | - | - | 100,000 | - | - | 200,000 |
| 31106 | Assess Retaining Walls Condition | | | 200,000 | - | - | - | - | 20,000 | - | - | | 220,000 |
| 42057 | Town-Wide Stream Erosion | 100,000 | - | - | - | - | - | - | - | - | - | | 100,000 |
| 72191 | Green Facilities Operating Policies | - | - | 50,000 | - | - | - | - | 50,000 | | - | | 100,000 |
| 34185 | Green Fleet Operating Policies | - | - | - | 50,000 | - | - | - | - | 50,000 | | | 100,000 |
| 34513 | Update Master Transportation Study | - | - | - | 100,000 | - | - | - | - | 100,000 | - | | 200,000 |
| 43040 | Water Hydraulic Model | 100,000 | - | - | - | 100,000 | - | - | - | - | - | | 200,000 |
| 41004 | Wastewater Hydraulic Model | 100,000 | - | - | - | 100,000 | - | - | - | - | - | | 200,000 |
| 42059 | Storm Sewer Reserve Fund and Rates Study | | 50,000 | | | | - | | | | | | 50,000 |
| 43046 | Water System Leak Detection Study | - | - | 200,000 | - | - | - | - | 200,000 | | - | | 400,000 |
| 72202 | Building Condition Report | 150,000 | - | - | - | - | - | - | - | - | - | | 150,000 |
| 72237 | Library, LED Light Study | 15,000 | - | - | - | - | - | - | - | - | - | | 15,000 |
| | | 465,000 | 50,000 | 450,000 | 250,000 | 200,000 | - | - | 270,000 | 250,000 | - | - | 1,935,000 |
| Funding | Sources: | | | | | | | | | | | | |
| Engir | neering Fees | (100,000) | - | (200,000) | (100,000) | (100,000) | | - | (200,000) | (100,000) | - | | (800,000) |
| Infras | structure Sustainability - Roads | - | - | - | - | - | - | - | - | - | - | - | - |
| Infras | structure Sustainability - Water | - | - | - | - | - | - | - | - | - | - | - | - |
| Infras | structure Sustainability - Wastewater | - | - | - | - | - | - | - | - | - | - | - | - |
| Infras | structure Sustainability - Storm | - | (50,000) | - | - | - | - | - | - | - | - | - | (50,000) |
| Studi | es & Other | (365,000) | - | (250,000) | (150,000) | (100,000) | - | - | (70,000) | (150,000) | - | | (1,085,000) |
| | | (465,000) | (50,000) | (450,000) | (250,000) | (200,000) | - | - | (270,000) | (250,000) | - | - | (1,935,000) |

STUDIES & OTHER PROJECTS - PARKS & RECREATION SERVICES

| | <u>2015</u> (approved) | <u>2016</u> | <u>2017</u> | <u>2018</u> | <u>2019</u> | <u>2020</u> | <u>2021</u> | <u>2022</u> | <u>2023</u> | <u>2024</u> | <u>2025</u> | Project <u>Total</u> |
|--------------------------------------|---------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------------------|
| STUDIES & OTHER | | | | | | | | | | | | |
| 73131 Parks Maintenance Standards | - | - | - | 42,000 | | - | - | - | - | - | | 42,000 |
| 73195 Community Buildings Use Study | 50,000 | - | - | - | - | - | - | - | - | - | | 50,000 |
| 73270 Parks & Recreation Master Plan | 75,000 | - | - | - | - | - | - | - | - | - | | 75,000 |
| | 125,000 | - | - | 42,000 | - | - | - | - | - | - | - | 167,000 |
| Funding Sources: | | | | | | | | | | | | |
| Cash in Lieu of Parkland | (75,000) | - | - | - | - | - | - | - | - | - | | (75,000) |
| Studies and Other | (50,000) | - | - | (42,000) | - | - | - | - | - | - | | (92,000) |
| | (125,000) | - | - | (42,000) | - | - | - | - | - | - | - | (167,000) |

FUNDING SOURCES / RESERVE BALANCES / CASH FLOWS

SOURCES OF CAPITAL PLAN FUNDING:

| - Consolidated | Page 58 |
|------------------------|---------|
| - Repair & Replacement | Page 59 |
| - Growth & New | Page 60 |
| - Studies & Other | Page 61 |

10 YEAR RESERVE FORECASTS & CASH FLOW:

| - Repair & Replacement, TAX Funded | Pages 62 to 68 |
|--------------------------------------|----------------|
| - Repair & Replacement, RATES Funded | Page 69 |
| - Growth & New | Page 70 |
| - Studies & Other | Page 71 |

10 YEAR DEVELOPMENT CHARGE BALANCES & CASH FLOW:

- Consolidated D.C. Reserves & Cash Flow Page 72



ESTIMATED SOURCES OF FUNDING - CONSOLIDATED

The Sources of Funding Are Estimates at this Time and May Change When Projects Are Presented for Approval

| | Base | | | | j = | | j | | | | | ▶ 10 YEAR |
|--|--------------------|--------------|----------------------------|---------------------|--------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------|---------------|
| | 2015 (approved) | 2016 Yr 1 | <u>2017</u> Yr 2 | <u>2018</u> Yr 3 | 2019 Yr 4 | <u>2020</u> Yr 5 | <u>2021</u> Yr 6 | <u>2022</u> Yr 7 | <u>2023</u> Yr 8 | <u>2024</u> Yr 9 | 2025 Yr 10 | OUTLOOK |
| Total Capital Needs: | | | | | | | | | | | | |
| Repair & Replacement Program | 13,163,980 | 8,248,275 | 12,234,476 | 11,805,691 | 9,212,358 | 9,023,458 | 12,950,843 | 9,560,781 | 8,343,366 | 5,492,731 | 6,277,507 | 93,149,486 |
| Growth & New Total | 3,890,200 | 5,591,660 | 26,990,990 | 8,588,030 | 16,283,440 | 20,571,780 | 3,296,350 | 853,000 | 3,300,000 | 194,600 | 5,768,110 | 91,437,960 |
| Studies & Other Total | 830,000 | 350,000 | 450,000 | 447,000 | 280,000 | 110,000 | 300,000 | 300,000 | 250,000 | 110,000 | 80,000 | 2,677,000 |
| TOTAL CAPITAL NEEDS (see Page 10) | 17,884,180 | 14,189,935 | 39,675,466 | 20,840,721 | 25,775,798 | 29,705,238 | 16,547,193 | 10,713,781 | 11,893,366 | 5,797,331 | 12,125,617 | 187,264,446 |
| = | , , | , , | | | | , , | | | | | luding 2015 | 205,148,626 |
| | | | | | | | | | | | iuuiiig 2013 | 203,140,020 |
| CONSOLIDATED FUNDING SOURCES: | | | | | | | | | | | | |
| Repair & Replacement Reserve - Tax | (7,648,347) | (3,988,886) | (5,445,529) | (5,542,075) | (4,995,479) | (5,516,774) | (5,687,559) | (3,299,511) | (3,429,715) | (2,116,456) | (5,081,807) | (45,103,791) |
| Repair & Replacement Reserve - Rates | (3,455,500) | (1,532,630) | (4,284,288) | (3,944,432) | (1,857,695) | (1,100,000) | (4,904,100) | (4,097,086) | (2,584,467) | (1,147,091) | (1,195,700) | (26,647,489) |
| Growth & New Reserve | (915,700) | (2,691,066) | (2,098,069) | (1,644,480) | (1,512,044) | (2,783,378) | (147,942) | (45,300) | (15,000) | (30,267) | (576,811) | (11,544,357) |
| Studies & Other Reserve | (632,500) | (30,000) | (250,000) | (234,500) | (180,000) | (38,000) | (30,000) | (100,000) | (150,000) | (110,000) | (8,000) | (1,130,500) |
| Development Charges | (2,819,800) | (2,993,094) | (14,287,771) | (6,534,300) | (14,316,396) | (17,685,402) | (3,068,408) | (767,700) | (2,970,000) | (164,333) | (5,263,299) | (68,050,703) |
| Development / Sale of Land | - | - | - | - | - | - | - | - | - | - | - | - |
| Special Purposes Reserves * (see below) | (871,818) | (914,618) | (1,717,618) | (1,314,618) | (1,044,618) | (1,062,118) | (839,618) | (884,618) | (1,049,618) | (534,618) | - | (9,362,062) |
| Federal / Provincial Grants (incl Gas Tax) | (1,540,515) | (1,617,541) | (1,617,541) | (1,694,566) | (1,694,566) | (1,694,566) | (1,694,566) | (1,694,566) | (1,694,566) | (1,694,566) | - | (15,097,044) |
| External Funding (Region / Newmarket) | - | - | (9,799,650) | (106,750) | - | - | - | - | - | - | - | (9,906,400) |
| Other External Funding (Donations) | - | (422,100) | - | - | - | - | - | - | - | - | - | (422,100) |
| TOTAL FUNDING SOURCES | (17,884,180) | (14,189,935) | (39,500,466) | (21,015,721) | (25,600,798) | (29,880,238) | (16,372,193) | (10,888,781) | (11,893,366) | (5,797,331) | (12,125,617) | (187,264,446) |
| | | | | | | | | | | Total inc | luding 2015 | (205,148,626) |
| * Special Purposes Reserves: | | | | | | | | | | | | |
| Building Dept | - | (255,000) | (100,000) | - | - | - | - | - | - | - | - | (355,000) |
| Cash in Lieu of Parkland | (302,200) | (190,000) | (948,000) | (570,000) | (475,000) | (417,500) | (365,000) | (40,000) | (715,000) | (300,000) | - | (4,020,500) |
| Council Discretionary Reserve | - | - | - | - | - | - | - | - | - | - | - | - |
| EAB Reserve | (235,000) | (235,000) | (235,000) | (410,000) | (235,000) | (410,000) | (240,000) | (410,000) | - | - | - | (2,175,000) |
| Landscape Reserve Fee | - | - | - | - | - | - | - | - | - | - | - | - |
| | (871,818) | | | (1,314,618) | | | | | | | | (9,362,062) |

ESTIMATED SOURCES OF FUNDING - REPAIR & REPLACEMENT

| ТІ | The Sources of Funding Are Estimates at this Time and May Change When Projects Are Presented for Approval Base | | | | | | | | | | | | |
|--|--|--------------|----------------------------|---------------------|---------------------|---------------------|---------------------|----------------------------|---------------------|---------------------|----------------------|----------------------|--|
| | Base <u>2015</u> (approved) | 2016 Yr 1 | <u>2017</u> Yr 2 | <u>2018</u> Yr 3 | <u>2019</u> Yr 4 | <u>2020</u> Yr 5 | <u>2021</u> Yr 6 | <u>2022</u> Yr 7 | <u>2023</u> Yr 8 | <u>2024</u> Yr 9 | 2025 Yr 10 | ► 10 YEAR OUTLOOK | |
| Repair & Replacement Requirement (Pg 13) | 13,163,980 | 8,248,275 | 12,234,476 | 11,805,691 | 9,212,358 | 9,023,458 | 12,950,843 | 9,560,781 | 8,343,366 | 5,492,731 | 6,277,507 | 93,149,486 | |
| | | | | | | | | | | Total inc | luding 2015 | 106,313,466 | |
| FUNDING SOURCES - TAX BASED: | | | | | | | | | | | | | |
| Repair & Replacement Reserve - Tax | (7,648,347) | (3,988,886) | (5,445,529) | (5,542,075) | (4,995,479) | (5,516,774) | (5,687,559) | (3,299,511) | (3,429,715) | (2,116,456) | (5,081,807) | (45,103,791) | |
| Special Purposes Reserves * (see below) | (519,618) | (1,159,218) | (887,118) | (624,618) | (664,618) | (712,118) | (664,618) | (469,618) | (634,618) | (534,618) | - | (6,351,162) | |
| Federal Gas Tax | (1,540,515) | (1,617,541) | (1,617,541) | (1,694,566) | (1,694,566) | (1,694,566) | (1,694,566) | (1,694,566) | (1,694,566) | (1,694,566) | - | (15,097,044) | |
| Other External Funding | | - | - | - | - | - | - | - | - | - | - | - | |
| | (9,708,480) | (6,765,645) | (7,950,188) | (7,861,259) | (7,354,663) | (7,923,458) | (8,046,743) | (5,463,695) | (5,758,899) | (4,345,640) | (5,081,807) | (66,551,997) | |
| FUNDING SOURCES - RATES BASED: | | | | | | | | | | | | | |
| Repair & Replacement Reserve - Rates: | | | | | | | | | | | | | |
| Water Project Funding | (856,850) | (1,080,230) | (2,050,850) | (1,189,792) | (1,000,000) | (350,000) | (2,868,100) | (1,712,140) | (1,361,839) | (300,000) | (375,000) | (12,287,951) | |
| Waste Water Project Funding | (470,450) | (114,100) | (478,600) | (800,671) | (78,266) | (75,000) | (956,800) | (45,189) | (51,597) | (43,062) | (39,300) | (2,682,585) | |
| Storm Water Project Funding | (2,128,200) | (288,300) | (1,754,838) | (1,953,969) | (779,429) | (675,000) | (1,079,200) | (2,339,757) | (1,171,031) | (804,029) | (781,400) | (11,626,953) | |
| | (3,455,500) | (1,482,630) | (4,284,288) | (3,944,432) | (1,857,695) | (1,100,000) | (4,904,100) | (4,097,086) | (2,584,467) | (1,147,091) | (1,195,700) | (26,597,489) | |
| TOTAL 'R & R' FUNDING SOURCES | (13,163,980) | (8,248,275) | (12,234,476) | (11,805,691) | (9,212,358) | (9.023.458) | (12,950,843) | (9,560,781) | (8,343,366) | (5,492,731) | (6,277,507) | (93,149,486) | |
| | (10,100,000) | (-,,, | (1=,=0,1,1,0) | (11,000,000) | (0,202,000) | (0,0-0,000) | (,,,,,,,,,,,,,- | (0,000,00) | (0,010,000) | | | | |
| | | | | | | | | | | i otal inc | luding 2015 | (106,313,466) | |
| * Special Purposes Reserves & Other: | | | | | | | | | | | | | |
| Building Department | - | (175,000) | - | - | - | - | - | - | - | - | - | (175,000) | |
| Proceeds from Land Sales | - | - | - | - | - | - | - | - | - | - | - | - | |
| Cash in Lieu of Parkland | (50,000) | (92,500) | (417,500) | (155,000) | (195,000) | (242,500) | (190,000) | - | (400,000) | (300,000) | - | (1,992,500) | |
| EAB Reserve | (235,000) | (235,000) | (235,000) | (235,000) | (235,000) | (235,000) | (240,000) | (235,000) | - | - | - | (1,650,000) | |
| | (519,618) | (1,159,218) | (887,118) | (624,618) | (664,618) | (712,118) | (664,618) | (469,618) | (634,618) | (534,618) | - | (6,351,162) | |

ESTIMATED SOURCES OF FUNDING - GROWTH & NEW

| Т | he Sources of | f Funding Ar | e Estimates a | The Sources of Funding Are Estimates at this Time and May Change When Projects Are Presented for Approval | | | | | | | | | | | | |
|--|-----------------------------------|--------------|---------------|---|--------------|--------------|---------------------|--------------|---------------------|----------------------------|---------------|--------------|--|--|--|--|
| | Base <u>2015</u> (approved) | 2016 Yr 1 | 2017 Yr 2 | <u>2018</u> Үг З | 2019 Yr 4 | 2020 Yr 5 | <u>2021</u> Yr 6 | 2022 Yr 7 | <u>2023</u> Үг 8 | <u>2024</u> Yr 9 | 2025 Yr 10 | 0UTLOOK | | | | |
| Growth & New Requirement (Pg 38) | 3,890,200 | 5,591,660 | 26,990,990 | 8,588,030 | 16,283,440 | 20,571,780 | 3,296,350 | 853,000 | 3,300,000 | 194,600 | 5,768,110 | 91,437,960 | | | | |
| | | | | | | | | | | Total inc | luding 2015 | 95,328,160 | | | | |
| 'GROWTH & NEW' FUNDING SOURCES: | | | | | | | | | | | | | | | | |
| Growth & New Reserve | (915,700) | (2,691,066) | (2,098,069) | (1,644,480) | (1,512,044) | (2,783,378) | (147,942) | (45,300) | (15,000) | (30,267) | (576,811) | (11,544,357) | | | | |
| Development Charges | (2,797,300) | (2,723,094) | (14,287,771) | (6,421,800) | (14,316,396) | (17,613,402) | (2,798,408) | (767,700) | (2,970,000) | (164,333) | (5,191,299) | (67,254,203) | | | | |
| Special Purposes Reserves * (see below) | (177,200) | (177,500) | (630,500) | (590,000) | (280,000) | (350,000) | (175,000) | (215,000) | (315,000) | - | - | (2,733,000) | | | | |
| Federal Gas Tax | - | - | - | - | - | - | - | - | - | - | - | - | | | | |
| External Funding (Newmarket for Fire) | - | - | (9,799,650) | (106,750) | - | - | - | - | - | - | - | (9,906,400) | | | | |
| Development / Sale of Land Repair & Replacement Reserve - Tax | - | - | - | - | - | - | - | - | - | - | - | - | | | | |
| Repair & Replacement Reserve - Rates | - | - | - | - | - | - | - | - | - | - | - | - | | | | |
| | - | - | - | - | - | - | - | - | - | - | - | - | | | | |
| TOTAL GROWTH & NEW FUNDING | (3,890,200) | (5,591,660) | (26,815,990) | (8,763,030) | (16,108,440) | (20,746,780) | (3,121,350) | (1,028,000) | (3,300,000) | (194,600) | (5,768,110) | (91,437,960) | | | | |
| | | | | | | | | | | Total inc | luding 2015 _ | (95,328,160) | | | | |
| * Special Purposes Reserves: | | | | | | | | | | | | | | | | |
| Engineering Fees | - | - | - | - | - | - | - | - | - | - | - | - | | | | |
| Building Dept | - | (80,000) | (100,000) | - | - | - | - | - | - | - | - | (180,000) | | | | |
| Tax Rate Stabilization | - | - | - | - | - | - | - | - | - | - | - | - | | | | |
| Cash in Lieu of Parkland | (177,200) | (97,500) | (530,500) | (415,000) | (280,000) | (175,000) | (175,000) | (40,000) | (315,000) | - | - | (2,028,000) | | | | |
| Landscape Fees | - | - | - | (175,000) | - | (175,000) | - | (175,000) | - | - | - | (525,000) | | | | |
| | (177,200) | (177,500) | (630,500) | (590,000) | (280,000) | (350,000) | (175,000) | (215,000) | (315,000) | - | - | (2,733,000) | | | | |

The Sources of Funding Are Estimates at this Time and May Change When Projects Are Presented for Approval

ESTIMATED SOURCES OF FUNDING - STUDIES & OTHER

| | Base | i unung / i e | Louinatoo a | | ia may ena | inge menne | | | nppioral | | | 10 YEAR |
|---|--------------------|---------------|----------------------------|----------------------------|----------------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------|-------------|
| | 2015 (approved) | 2016 Yr 1 | <u>2017</u> Yr 2 | <u>2018</u> Yr 3 | <u>2019</u> Yr 4 | <u>2020</u> Yr 5 | <u>2021</u> Yr 6 | <u>2022</u> Yr 7 | <u>2023</u> Yr 8 | <u>2024</u> Yr 9 | 2025 Yr 10 | OUTLOOK |
| Studies & Other Requirement (Pg 50) | 830,000 | 350,000 | 450,000 | 447,000 | 280,000 | 110,000 | 300,000 | 300,000 | 250,000 | 110,000 | 80,000 | 2,677,000 |
| | | | | | | | | | | Total inclu | uding 2015 | 3,507,000 |
| 'STUDIES & OTHER' FUNDING SOURCES: | | | | | | | | | | | | |
| Studies & Other Reserve | (632,500) | (30,000) | (250,000) | (234,500) | (180,000) | (38,000) | (30,000) | (100,000) | (150,000) | (110,000) | (8,000) | (1,130,500) |
| Development Charges | (22,500) | (270,000) | - | (112,500) | - | (72,000) | (270,000) | - | - | - | (72,000) | (796,500) |
| Special Purposes Reserves * (see below) | (175,000) | - | (200,000) | (100,000) | (100,000) | - | - | (200,000) | (100,000) | - | - | (700,000) |
| External Grants Repair & Replacement Reserve - Tax | - | - | - | - | - | - | - | - | - | - | - | - |
| Repair & Replacement Reserve - Rates | | (50,000) | - | - | - | - | - | - | - | - | - | (50,000) |
| TOTAL STUDIES & OTHER FUNDING | (830,000) | (350,000) | (450,000) | (447,000) | (280,000) | (110,000) | (300,000) | (300,000) | (250,000) | (110,000) | (80,000) | (2,677,000) |
| | | | | | | | | | | Total inclu | uding 2015 _ | (3,507,000) |
| <u>* Special Purposes Reserves:</u> | | | | | | | | | | | | |
| Engineering Fees | (100,000) | - | (200,000) | (100,000) | (100,000) | - | - | (200,000) | (100,000) | - | - | (700,000) |
| Cash in Lieu of Parkland | (75,000) | - | - | - | - | - | - | - | - | - | - | - |
| Landscape Reserve Fee | - | - | - | - | - | - | - | - | - | - | - | - |
| | (175,000) | - | (200,000) | (100,000) | (100,000) | - | - | (200,000) | (100,000) | - | - | (700,000) |

The Sources of Funding Are Estimates at this Time and May Change When Projects Are Presented for Approval

RESERVE FORECAST & CASH FLOW - TOTAL TAX BASED R & R RESERVE

| Shown in \$ 000's | 2015 | <u>2016</u> | <u>2017</u> | <u>2018</u> | <u>2019</u> | <u>2020</u> | <u>2021</u> | 2022 | <u>2023</u> | 2024 | <u>2025</u> | 11 Year TOTAL |
|------------------------------------|-----------------|-------------|-------------|-------------|-------------|--------------|-------------|-----------------|-------------|---------|-------------|-------------------------------|
| Opening R & R Reserve Balance | 6,690.7 | 2,222.0 | 1,659.3 | (66.0) | (1,581.4) | (2,211.2) | (2,994.7) | (3,565.2) | (1,314.8) | 1,289.7 | 5,970.5 | Opening Bal 6,690.7 |
| Reserve 'Revenue': | | | | | | | | | | | | |
| Share of Cash to Capital | 3,082.7 | 3,384.0 | 3,702.9 | 4,044.5 | 4,406.9 | 4,790.0 | 5,188.5 | 5,603.1 | 6,034.5 | 6,718.3 | 7,185.3 | 54,140.7 |
| Reserve Balance Interest (@ 2.20%) | 97.0 | 42.2 | 17.3 | (17.9) | (41.2) | (56.7) | (71.4) | (53.2) | (0.3) | 78.9 | 154.5 | 149.2 |
| Total Revenue/Funding | 3,179.7 | 3,426.2 | 3,720.2 | 4,026.6 | 4,365.7 | 4,733.3 | 5,117.1 | 5,549.9 | 6,034.2 | 6,797.2 | 7,339.8 | 54,289.9 |
| Funding Requests: | | | | | | | | | | | | |
| From R & R Reserves | 7,648.3 | 3,988.9 | 5,445.5 | 5,542.1 | 4,995.5 | 5,516.8 | 5,687.6 | 3,299.5 | 3,429.7 | 2,116.5 | 5,081.8 | 52,752.1 |
| Total Funding Requests | 7,648.3 | 3,988.9 | 5,445.5 | 5,542.1 | 4,995.5 | 5,516.8 | 5,687.6 | 3,299.5 | 3,429.7 | 2,116.5 | 5,081.8 | 47,670.3 |
| Closing R&R Reserve Balance | 2,222.0 | 1,659.3 | (66.0) | (1,581.4) | (2,211.2) | (2,994.7) | (3,565.2) | (1,314.8) | 1,289.7 | 5,970.5 | 8,228.5 | 8,228.5 |
| Made up of: | | | | | | | | | | | | |
| Roads | 1,941.1 | 2,686.3 | 2,724.7 | 2,088.4 | 1,141.0 | 664.8 | (538.7) | 429.7 | 1,866.6 | 3,688.2 | 4,123.1 | 4,123.1 |
| Facilities | (1,813.8) | (1,772.1) | (2,649.6) | (3,028.8) | (2,987.5) | (3,043.1) | (2,776.5) | (2,122.6) | (1,336.9) | 719.3 | 1,341.3 | 1,341.3 |
| Information Technology | 896.1 | 822.6 | 833.4 | 646.9 | 693.1 | 263.9 | 404.2 | 598.7 | 850.7 | 1,091.4 | 1,294.0 | 1,294.0 |
| Fleet | 1,112.2 | 223.6 | (106.9) | (462.8) | (308.0) | (229.3) | 30.8 | 351.5 | 322.3 | 693.7 | 1,429.7 | 1,429.7 |
| Parks & Recreation | 115.8 | (2.7) | (555.1) | (506.8) | (434.9) | (349.2) | (406.6) | (328.2) | (215.1) | (78.6) | 106.6 | 106.6 |
| Council Discretionary | (29.4) | (298.5) | (312.6) | (318.3) | (314.9) | (301.8) | (278.3) | (243.9) | (197.9) | (143.6) | (66.3) | (66.3) |
| | 2,222.0 | 1,659.3 | (66.0) | (1,581.4) | (2,211.2) | (2,994.7) | (3,565.2) | (1,314.8) | 1,289.7 | 5,970.5 | 8,228.5 | 8,228.5 |
| | | | | | | | | | | | | |
| 10,000.0 | | | | | | | | | | | | |
| 8,000.0 | | | | | | | | | | | | |
| 6,000.0 |) <mark></mark> | | | | | | | | | | | |
| 4,000.0 | | | | | | | | | | | - | |
| 2,000.0 | | | | | | | | | | | | |
| (2,000.0 |) | | | | | | | | | | | |
| (4,000.0 |) | | | | | | | | | | | |
| (6,000.0 |) | | : | | | | : : | | : | | | |
| | | I | Capital Spe | nd | Rese | erve Balance | _ | Contribution to | Reserves | | | |

RESERVE FORECAST & CASH FLOW - TAX BASED 'R & R' RESERVE - ROADS

| Shown in \$ 000's | _ | <u>2015</u> | <u>2016</u> | <u>2017</u> | <u>2018</u> | <u>2019</u> | <u>2020</u> | <u>2021</u> | <u>2022</u> | <u>2023</u> | <u>2024</u> | <u>2025</u> | 11 Year TOTAL |
|------------------------------------|---|-------------|-------------|-------------|-------------|-------------|-----------------|-------------|-------------|------------------|-------------|-------------|------------------|
| Opening R & R Reserve Balance | | 3,106.5 | 1,941.1 | 2,686.3 | 2,724.7 | 2,088.4 | 1,141.0 | 664.8 | (538.7) | 429.7 | 1,866.6 | 3,688.2 | 3,106.5 |
| Reserve 'Revenue': | | | | | | | | | | | | | |
| Share of Cash to Capital | | 1,220.7 | 1,340.0 | 1,466.4 | 1,601.6 | 1,745.1 | 1,896.8 | 2,054.6 | 2,218.8 | 2,389.7 | 2,660.4 | 2,845.4 | 21,439.5 |
| Reserve Balance Interest (@ 2.20%) | | 54.9 | 50.4 | 58.8 | 52.5 | 35.2 | 19.5 | 1.3 | (1.3) | 24.9 | 60.3 | 85.0 | 441.5 |
| Total Revenue/Funding | | 1,275.6 | 1,390.4 | 1,525.2 | 1,654.1 | 1,780.3 | 1,916.3 | 2,055.9 | 2,217.5 | 2,414.6 | 2,720.7 | 2,930.4 | 21,881.0 |
| Funding Requests: | | | | | | | | | | | | | |
| Total Funding Requests | | 2,441.0 | 645.2 | 1,486.8 | 2,290.5 | 2,727.7 | 2,392.5 | 3,259.4 | 1,249.1 | 977.7 | 899.1 | 2,495.5 | 20,864.4 |
| Closing R&R Reserve Balance | _ | 1,941.1 | 2,686.3 | 2,724.7 | 2,088.4 | 1,141.0 | 664.8 | (538.7) | 429.7 | 1,866.6 | 3,688.2 | 4,123.1 | 4,123.1 |
| 2 | 5,000.0 4,000.0 3,000.0 2,000.0 1,000.0 | | | | | | | | | | | | |
| | | | | Capit | al Spend | _ | Reserve Balance | | Contrib | ution to Reserve | | | |

RESERVE FORECAST & CASH FLOW - TAX BASED 'R & R' RESERVE - FACILITIES

| Shown in \$ 000's | <u>2015</u> | <u>2016</u> | <u>2017</u> | <u>2018</u> | <u>2019</u> | <u>2020</u> | <u>2021</u> | <u>2022</u> | <u>2023</u> | <u>2024</u> | <u>2025</u> | 11 Year TOTAL |
|--|--|-------------|-------------|-------------|-------------|-----------------|-------------|-------------|-------------------|-------------|-------------|------------------|
| Opening R & R Reserve Balance | 1,315.7 | (1,813.8) | (1,772.1) | (2,649.6) | (3,028.8) | (2,987.5) | (3,043.1) | (2,776.5) | (2,122.6) | (1,336.9) | 719.3 | 1,315.7 |
| Reserve 'Revenue': | | | | | | | | | | | | |
| Share of Cash to Capital | 1,008.0 | 1,106.6 | 1,210.9 | 1,322.6 | 1,441.0 | 1,566.3 | 1,696.6 | 1,832.2 | 1,973.3 | 2,196.9 | 2,349.6 | 17,704.0 |
| Reserve Balance Interest (@ 2.20%) | (5.4) | (39.0) | (48.1) | (61.8) | (65.5) | (65.6) | (63.3) | (53.3) | (37.6) | (6.7) | 22.4 | (423.9) |
| Total Revenue/Funding | 1,002.6 | 1,067.6 | 1,162.8 | 1,260.8 | 1,375.5 | 1,500.7 | 1,633.3 | 1,778.9 | 1,935.7 | 2,190.2 | 2,372.0 | 17,280.1 |
| Funding Requests: | | | | | | | | | | | | |
| Total Funding Requests | 4,132.1 | 1,025.9 | 2,040.3 | 1,640.0 | 1,334.2 | 1,556.3 | 1,366.7 | 1,125.0 | 1,150.0 | 134.0 | 1,750.0 | 17,254.5 |
| Closing R&R Reserve Balance | (1,813.8) | (1,772.1) | (2,649.6) | (3,028.8) | (2,987.5) | (3,043.1) | (2,776.5) | (2,122.6) | (1,336.9) | 719.3 | 1,341.3 | 1,341.3 |
| 5,00 4,00 3,00 2,00 1,00 (1,00 (2,00 (3,00 (4,00 | 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 | | | | | | | | | | | |
| | | | Capi | tal Spend | | Reserve Balance | | Contril | oution to Reserve | | | |

RESERVE FORECAST & CASH FLOW - TAX BASED 'R & R' RESERVE - FLEET

| Shown in \$ 000's | <u>2015</u> | <u>2016</u> | <u>2017</u> | <u>2018</u> | <u>2019</u> | <u>2020</u> | <u>2021</u> | <u>2022</u> | <u>2023</u> | <u>2024</u> | <u>2025</u> | 11 Year TOTAL |
|---|-------------|-------------|-------------|-------------|-------------|-----------------|-------------|-------------|------------------|-------------|-------------|------------------|
| Opening R & R Reserve Balance | 920.2 | 896.1 | 822.6 | 833.4 | 646.9 | 693.1 | 263.9 | 404.2 | 598.7 | 850.7 | 1,091.4 | 920.2 |
| Reserve 'Revenue': | | | | | | | | | | | | |
| Share of Cash to Capital | 376.1 | 412.8 | 451.8 | 493.4 | 537.6 | 584.4 | 633.0 | 683.6 | 736.2 | 819.6 | 876.6 | 6,605.1 |
| Reserve Balance Interest (@ 2.20%) | 19.8 | 18.7 | 18.0 | 16.1 | 14.6 | 10.4 | 7.3 | 10.9 | 15.8 | 21.1 | 26.0 | 178.7 |
| Total Revenue/Funding | 395.9 | 431.5 | 469.8 | 509.5 | 552.2 | 594.8 | 640.3 | 694.5 | 752.0 | 840.7 | 902.6 | 6,783.8 |
| Funding Requests: | | | | | | | | | | | | |
| Total Funding Requests | 420.0 | 505.0 | 459.0 | 696.0 | 506.0 | 1,024.0 | 500.0 | 500.0 | 500.0 | 600.0 | 700.0 | 6,410.0 |
| Closing R&R Reserve Balance | 896.1 | 822.6 | 833.4 | 646.9 | 693.1 | 263.9 | 404.2 | 598.7 | 850.7 | 1,091.4 | 1,294.0 | 1,294.0 |
| 1,400.0 1,200.0 1,000.0 800.0 600.0 400.0 200.0 | | | | | | | | | | | | |
| | | | Capita | I Spend | | Reserve Balance | | Contribu | ution to Reserve | | | |

RESERVE FORECAST & CASH FLOW - TAX BASED 'R & R' RESERVE - PARKS & RECREATION

| Shown in \$ 000's | <u>2015</u> | <u>2016</u> | <u>2017</u> | <u>2018</u> | 2019 | <u>2020</u> | <u>2021</u> | <u>2022</u> | <u>2023</u> | <u>2024</u> | <u>2025</u> | 11 Year TOTAL |
|--|--|---------------|--------------|----------------|----------------|----------------|----------------|--------------|------------------------|---------------|---------------|------------------|
| Opening R & R Reserve Balance | 1,229.8 | 1,112.2 | 223.6 | (106.9) | (462.8) | (308.0) | (229.3) | 30.8 | 351.5 | 322.3 | 693.7 | 1,229.8 |
| Reserve 'Revenue': | | | | | | | | | | | | |
| Share of Cash to Capital Reserve Balance Interest (@ 2.20%) | 314.4 25.5 | 345.2 14.5 | 377.7 1.3 | 412.5 (6.2) | 449.5 (8.4) | 488.6 (5.8) | 529.2 (2.2) | 571.5 4.2 | 615.5 7.3 | 685.3 11.1 | 732.9 23.1 | 5,522.3 64.4 |
| Total Revenue/Funding | 339.9 | 359.7 | 379.0 | 406.3 | 441.1 | 482.8 | 527.0 | 575.7 | 622.8 | 696.4 | 756.0 | 5,586.7 |
| Funding Requests: | | | | | | | | | | | | |
| Total Funding Requests | 457.5 | 1,248.3 | 709.5 | 762.3 | 286.3 | 404.1 | 266.9 | 255.0 | 652.0 | 325.0 | 20.0 | 5,386.8 |
| Closing R&R Reserve Balance | 1,112.2 | 223.6 | (106.9) | (462.8) | (308.0) | (229.3) | 30.8 | 351.5 | 322.3 | 693.7 | 1,429.7 | 1,429.7 |
| 1,, 1, , , | 000.0 500.0 500.0 500.0 - 500.0 500.0) | | | | | | | | | | | |
| | | | | Capital Spend | c | Reserve Bala | ance | | Contribution to Reserv | e | | |

RESERVE FORECAST & CASH FLOW - TAX BASED 'R & R' RESERVE - INFORMATION TECHNOLOGY

| Shown in \$ 000's | <u>2015</u> | <u>2016</u> | <u>2017</u> | <u>2018</u> | <u>2019</u> | <u>2020</u> | <u>2021</u> | <u>2022</u> | <u>2023</u> | <u>2024</u> | <u>2025</u> | 11 Year TOTAL |
|---|-------------|-------------|-------------|-------------|-------------|-----------------|-------------|-------------|------------------|-------------|-------------|------------------|
| Opening R & R Reserve Balance | 100.0 | 115.8 | (2.7) | (555.1) | (506.8) | (434.9) | (349.2) | (406.6) | (328.2) | (215.1) | (78.6) | 100.0 |
| Reserve 'Revenue': | | | | | | | | | | | | |
| Share of Cash to Capital | 86.3 | 94.8 | 103.7 | 113.2 | 123.4 | 134.1 | 145.3 | 156.9 | 169.0 | 188.1 | 201.2 | 1,516.0 |
| Reserve Balance Interest (@ 2.20%) | 2.3 | 1.2 | (6.1) | (11.6) | (10.2) | (8.5) | (8.2) | (8.0) | (5.9) | (3.2) | 0.3 | (57.9) |
| Total Revenue/Funding | 88.6 | 96.0 | 97.6 | 101.6 | 113.2 | 125.6 | 137.1 | 148.9 | 163.1 | 184.9 | 201.5 | 1,458.1 |
| Funding Requests: | | | | | | | | | | | | |
| Total Funding Requests | 72.8 | 214.5 | 650.0 | 53.4 | 41.3 | 39.9 | 194.5 | 70.5 | 50.0 | 48.4 | 16.3 | 1,451.5 |
| Closing R&R Reserve Balance | 115.8 | (2.7) | (555.1) | (506.8) | (434.9) | (349.2) | (406.6) | (328.2) | (215.1) | (78.6) | 106.6 | 106.6 |
| 800.0 600.0 400.0 200.0 - (200.0 (400.0 (600.0 (800.0 |) | | | | | | | | | | | |
| | | | Capita | al Spend | _ | Reserve Balance | | Contrib | ution to Reserve | | | |

RESERVE FORECAST & CASH FLOW - TAX BASED 'R & R' RESERVE - DISCRETIONARY

| Shown in \$ 000's | <u>2015</u> | <u>2016</u> | <u>2017</u> | <u>2018</u> | <u>2019</u> | <u>2020</u> | <u>2021</u> | <u>2022</u> | <u>2023</u> | <u>2024</u> | <u>2025</u> | 11 Year TOTAL |
|---|-------------|-------------|-------------|-------------|-------------|-----------------|-------------|-------------|------------------|-------------|-------------|------------------|
| Opening R & R Reserve Balance | 18.5 | (29.4) | (298.5) | (312.6) | (318.3) | (314.9) | (301.8) | (278.3) | (243.9) | (197.9) | (143.6) | 18.5 |
| Reserve 'Revenue': | | | | | | | | | | | | |
| Share of Cash to Capital | 77.2 | 84.6 | 92.4 | 101.2 | 110.3 | 119.8 | 129.8 | 140.1 | 150.8 | 168.0 | 179.6 | 1,353.8 |
| Reserve Balance Interest (@ 2.20%) | (0.1) | (3.6) | (6.6) | (6.9) | (6.9) | (6.7) | (6.3) | (5.7) | (4.8) | (3.7) | (2.3) | (53.6) |
| Total Revenue/Funding | 77.1 | 81.0 | 85.8 | 94.3 | 103.4 | 113.1 | 123.5 | 134.4 | 146.0 | 164.3 | 177.3 | 1,300.2 |
| Funding Requests: | | | | | | | | | | | | |
| Accessibility Committee Projects (pg 16) | 125.0 | 350.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 110.0 | 100.0 | 1,385.0 |
| - Closing R&R Reserve Balance | (29.4) | (298.5) | (312.6) | (318.3) | (314.9) | (301.8) | (278.3) | (243.9) | (197.9) | (143.6) | (66.3) | (66.3) |
| 400.0 300.0 200.0 100.0 - (100.0) (200.0) (300.0) (400.0) | | | | | | | | | | | | |
| | | | Capita | al Spend | | Reserve Balance | | Contrib | ution to Reserve | | | |

RESERVE FORECAST & CASH FLOW - RATE BASED RESERVE BALANCES

| Shown in \$ 000's | <u>2015</u> | <u>2016</u> | <u>2017</u> | <u>2018</u> | <u>2019</u> | 2020 | <u>2021</u> | 2022 | 2023 | <u>2024</u> | <u>2025</u> | 11 Year TOTAL |
|--|---------------|-------------|-------------|--------------|-------------|---------------|-------------|---------|-----------------------|-------------|-------------|------------------|
| Water / Wastewater Reserve Balance | (119.9) | 658.6 | 1,791.0 | 1,800.6 | 2,557.6 | 4,253.4 | 6,647.0 | 5,655.9 | 6,733.4 | 8,182.2 | 10,745.2 | (119.9) |
| Storm Water Reserve Balance | 4,148.8 | 3,099.5 | 3,887.2 | 3,209.6 | 2,315.7 | 2,589.7 | 2,975.2 | 2,960.6 | 1,671.2 | 1,535.1 | 1,766.9 | 4,148.8 |
| Total "Rates" Reserve Balances | 4,028.9 | 3,758.1 | 5,678.2 | 5,010.2 | 4,873.3 | 6,843.1 | 9,622.2 | 8,616.5 | 8,404.6 | 9,717.3 | 12,512.1 | 4,028.9 |
| Reserve 'Revenue': | | | | | | | | | | | | |
| NET From Water User Charges | 1,500.0 | 1,600.0 | 1,700.0 | 1,800.0 | 1,800.0 | 1,800.0 | 1,800.0 | 1,800.0 | 1,800.0 | 1,800.0 | 1,800.0 | 19,200.0 |
| NET From Wastewater User Charges | 600.0 | 700.0 | 800.0 | 900.0 | 900.0 | 900.0 | 900.0 | 900.0 | 900.0 | 900.0 | 900.0 | 9,300.0 |
| From Storm Water User Charges (Commencing in 2018 increasing at 2.5% per year | 1,000.0 ') | 1,000.0 | 1,000.0 | 1,000.0 | 1,000.0 | 1,000.0 | 1,000.0 | 1,000.0 | 1,000.0 | 1,000.0 | 1,000.0 | 11,000.0 |
| Water / Wastewater Reserve Bal Int @ 2.20% | 5.8 | 26.7 | 39.1 | 47.4 | 74.1 | 118.6 | 133.8 | 134.8 | 162.3 | 206.0 | 261.5 | 1,210.1 |
| Storm Water Reserve Bal Int @ 2.20% | 78.9 | 76.0 | 77.2 | 60.1 | 53.4 | 60.5 | 64.6 | 50.4 | 34.9 | 35.9 | 41.3 | 633.2 |
| Total Revenue/Funding | 3,184.7 | 3,402.7 | 3,616.3 | 3,807.5 | 3,827.5 | 3,879.1 | 3,898.4 | 3,885.2 | 3,897.2 | 3,941.9 | 4,002.8 | 41,343.3 |
| Funding Requests: | | | | | | | | | | | | |
| Water / Wastewater Funding Needs | 1,327.3 | 1,194.3 | 2,529.5 | 1,990.5 | 1,078.3 | 425.0 | 3,824.9 | 1,757.3 | 1,413.4 | 343.1 | 414.3 | 16,297.8 |
| Storm Water Funding Needs | 2,128.2 | 288.3 | 1,754.8 | 1,954.0 | 779.4 | 675.0 | 1,079.2 | 2,339.8 | 1,171.0 | 804.0 | 781.4 | 13,755.2 |
| Total Funding Requests | 3,455.5 | 1,532.6 | 4,284.3 | 3,944.4 | 1,857.7 | 1,100.0 | 4,904.1 | 4,097.1 | 2,584.5 | 1,147.1 | 1,195.7 | 30,053.0 |
| Ending R&R Reserve Balance | 3,758.1 | 5,628.2 | 5,010.2 | 4,873.3 | 6,843.1 | 9,622.2 | 8,616.5 | 8,404.6 | 9,717.3 | 12,512.1 | 15,319.2 | 15,319.2 |
| 18,000.0 16,000.0 14,000.0 12,000.0 10,000.0 8,000.0 6,000.0 4,000.0 2,000.0 | | | | | | | | | | | | |
| | | | Ca | apital Spend | _ | Reserve Balan | ce | Co | ntribution to Reserve | | | |

RESERVE FORECAST & CASH FLOW - GROWTH & NEW RESERVE

| Shown in \$ 000's | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 11 Year TOTAL |
|---------------------------------------|---------|------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|---------|---------|------------------|
| | | | | | | | | | | | | |
| Opening G & N Reserve Balance | 1,367 | .1 1,263.6 | (565.0) | (1,758.3) | (2,437.6) | (2,911.4) | (4,589.5) | (3,544.9) | (2,274.6) | (842.6) | 712.6 | 1,367.1 |
| Opening Federal Gas Tax Reserve Balar | | - | - | - | - | - | - | - | - | - | - | - |
| Total R & R Reserve Balance | 1,367 | .1 1,263.6 | (565.0) | (1,758.3) | (2,437.6) | (2,911.4) | (4,589.5) | (3,544.9) | (2,274.6) | (842.6) | 712.6 | 1,367.1 |
| Reserve 'Revenue': | | | | | | | | | | | | |
| Share of Cash to Capital | 783 | .6 854.8 | 930.1 | 1,010.8 | 1,096.4 | 1,186.9 | 1,281.0 | 1,379.0 | 1,480.9 | 1,586.9 | 1,697.2 | 13,287.6 |
| Reserve Balance Interest (@ 2.20%) | 28 | .6 7.6 | (25.3) | (45.7) | (58.2) | (81.6) | (88.5) | (63.3) | (33.9) | (1.4) | 28.0 | (333.7) |
| Total Revenue/Funding | 812 | .2 862.4 | 904.8 | 965.1 | 1,038.2 | 1,105.3 | 1,192.5 | 1,315.7 | 1,447.0 | 1,585.5 | 1,725.2 | 12,953.9 |
| Funding Requests: | | | | | | | | | | | | |
| From G & N Reserve Only (page 49) | 915 | .7 2,691.1 | 2,098.1 | 1,644.5 | 1,512.0 | 2,783.4 | 147.9 | 45.3 | 15.0 | 30.3 | 576.8 | 12,460.1 |
| Total Funding Requests | 915 | | 2,098.1 | 1,644.5 | 1,512.0 | 2,783.4 | 147.9 | 45.3 | 15.0 | 30.3 | 576.8 | 12,460.1 |
| | | | | 1 | <i></i> | | | | | | | |
| Ending R&R Reserve Balance | 1,263 | .6 (565.0) | (1,758.3) | (2,437.6) | (2,911.4) | (4,589.5) | (3,544.9) | (2,274.6) | (842.6) | 712.6 | 1,860.9 | 1,860.9 |
| | | | | | | | | | | | | |
| 4 | ,000.0 | | | | | | | | | | | |
| 3 | ,000.0 | | | | | | | | | | | |
| | 2,000.0 | | | | | | | | | | | |
| 1 | ,000.0 | | | | | | | | | | | |
| (1 | ,000.0) | ` | | | | | | | | | | |
| · | ,000.0) | | | | | | | | | | | |
| | ,000.0) | | | | | | | | | | | |
| | ,000.0) | | | | | | | | | | | |
| (3 | ,000.0) | | | | | | | | | | | |

Capital Spend

Reserve Balance

----- Contribution to Reserve

RESERVE FORECAST & CASH FLOW - STUDIES & OTHER RESERVE

| Shown in \$ 000's | <u>2015</u> | <u>2016</u> | <u>2017</u> | <u>2018</u> | <u>2019</u> | <u>2020</u> | <u>2021</u> | <u>2022</u> | <u>2023</u> | <u>2024</u> | <u>2025</u> | 11 Year TOTAL |
|------------------------------------|---|-------------|-------------|---------------|-------------|-------------|-------------|-------------|-----------------------|-------------|-------------|------------------|
| Opening S & O Reserve Balance | 405.0 | (113.4) | (24.0) | (144.2) | (239.8) | (270.3) | (144.9) | 4.9 | 101.2 | 163.6 | 283.1 | 405.0 |
| Total R & R Reserve Balance | 405.0 | (113.4) | (24.0) | (144.2) | (239.8) | (270.3) | (144.9) | 4.9 | 101.2 | 163.6 | 283.1 | 405.0 |
| Reserve 'Revenue': | | | | | | | | | | | | |
| Share of Cash to Capital | 110.9 | 120.9 | 131.6 | 143.0 | 155.1 | 167.9 | 181.3 | 195.1 | 209.5 | 224.5 | 240.1 | 1,880.1 |
| Reserve Balance Interest (@ 2.20%) | 3.2 | (1.5) | (1.8) | (4.2) | (5.6) | (4.5) | (1.5) | 1.2 | 2.9 | 4.9 | 8.8 | 1.9 |
| Total Revenue/Funding | 114.1 | 119.4 | 129.8 | 138.8 | 149.5 | 163.4 | 179.8 | 196.3 | 212.4 | 229.4 | 248.9 | 1,882.0 |
| Funding Requests: | | | | | | | | | | | | |
| From S & O Reserve Only (page 49) | 632.5 | 30.0 | 250.0 | 234.5 | 180.0 | 38.0 | 30.0 | 100.0 | 150.0 | 110.0 | 8.0 | 1,763.0 |
| Total Funding Requests | 632.5 | 30.0 | 250.0 | 234.5 | 180.0 | 38.0 | 30.0 | 100.0 | 150.0 | 110.0 | 8.0 | 1,763.0 |
| Ending R&R Reserve Balance | (113.4) | (24.0) | (144.2) | (239.8) | (270.3) | (144.9) | 4.9 | 101.2 | 163.6 | 283.1 | 524.0 | 524.0 |
| | 700.0 600.0 500.0 400.0 200.0 100.0 (100.0) (200.0) (300.0) (400.0) | | | | | | | | | | | |
| | | | | Capital Spend | | Reserve Ba | alance | | Contribution to Reser | rve | | |

Aurora 10 Year Capital Plan - September, 2015

DEVELOPMENT CHARGES - LONG TERM CASH FLOW AND RESERVE BALANCES

| <u>TOTAL</u> | <u>2015</u> | <u>2016</u> | <u>2017</u> | <u>2018</u> | <u>2019</u> | <u>2020</u> | <u>2021</u> | <u>2022</u> | <u>2023</u> | <u>2024</u> | <u>2025</u> | Project <u>Total</u> |
|------------------------------------|---|-------------|-------------|---------------------|-------------|-----------------|-------------|-------------|---------------|-------------|-------------|-------------------------|
| Opening Balance | (8,891.6) | 6,649.0 | 18,757.9 | 17,798.3 | 23,253.0 | 14,816.0 | 2,105.5 | 5,942.0 | 11,071.7 | 13,958.2 | 19,850.0 | (8,891.6) |
| Reserve 'Revenue': | | | | | | | | | | | | |
| Contribution from Developers | 21,094.0 | 17,854.2 | 15,939.9 | 14,530.2 | 8,446.2 | 7,765.3 | 7,885.9 | 6,485.7 | 6,352.3 | 6,451.6 | 6,552.9 | 119,358.2 |
| Reserve Balance Interest (@ 2.20%) | (24.4) | 276.4 | 397.7 | 446.7 | 414.2 | 184.1 | 87.6 | 185.1 | 272.3 | 367.8 | 442.5 | 3,050.1 |
| Total Revenue | 21,069.6 | 18,130.6 | 16,337.6 | 14,976.8 | 8,860.4 | 7,949.4 | 7,973.5 | 6,670.8 | 6,624.7 | 6,819.5 | 6,995.5 | 122,408.4 |
| Funding Requests: | | | | | | | | | | | | |
| Capital Requirement | 2,934.8 | 3,108.1 | 14,402.8 | 6,649.3 | 14,431.4 | 17,800.4 | 3,183.4 | 882.7 | 3,085.0 | 279.3 | 5,378.3 | 72,135.5 |
| Operating Requirement | 2,594.2 | 1,013.7 | 994.5 | 972.9 | 966.0 | 959.5 | 953.5 | 658.4 | 653.2 | 648.3 | 643.8 | 11,058.0 |
| Developer DC Credible Work | - | 1,900.0 | 1,900.0 | 1,900.0 | 1,900.0 | 1,900.0 | - | - | - | - | - | 9,499.8 |
| Total Requirements | 5,529.0 | 6,021.7 | 17,297.2 | 9,522.1 | 17,297.3 | 20,659.9 | 4,136.9 | 1,541.1 | 3,738.2 | 927.7 | 6,022.1 | 92,693.3 |
| Ending R&R Reserve Balance | 6,649.0 | 18,757.9 | 17,798.3 | 23,253.0 | 14,816.0 | 2,105.5 | 5,942.0 | 11,071.7 | 13,958.2 | 19,850.0 | 20,823.4 | 20,823.4 |
| | 25,000.0 20,000.0 15,000.0 5,000.0 | | Capital | Funding Requirement | | Reserve Balance | | Annual DC | C Collections | | | |

APPENDIX 4 - 18 YEAR VEHICLE/EQUIPMENT REPLACEMENT SCHEDULE

IES OPERATIONS VEHICLE REPLACEMENT SCHEDULE – 2006 TO 2023

| Year | MakeModel | Attachments | Dpt | Life C | ⊃tv | Cost | Reserve | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 |
|--|--|--|--|---|--|--|--|--|---|---|---|--|--|---|---|--|--|---|---|---|---|---|---|--|---|---|---|------------------|
| | | | | | , | | | | | | | | | | | | | | | | | | | | | | | |
| 2007 | 72 1 on Ford F 150 | | P | 10 | 1 | 30 | 3 | | | | | | | | | | | | 30 | | | | | | | | | |
| | | lo | R | 10 | 1 | 30 | 3 | | | | | | | | | | | | 30 | | | 30 | | | | | | |
| 2010 | Chev Silverad | lo | R | 10 | 1 | 30 | 3 | | | | | | | | | | | | | | | 30 | | | | | | |
| | | | | | 1 | | | | | | 30 | | | | | | | | | | 30 | | | | | | | |
| | | | | | 1 | | | | | | | | | | | 30 | | | | | | | | | | | | |
| | | - | | | 1 | | | | | | | | | | | | | | 30 | | | 20 | | | | | | |
| | | | R | 10 | - 1 | 30 | 3 | | | | | | | | | | | | | | | 30 | | | | | | |
| 2003 | Ford/E250 | Plow Sander | R | 10 | 1 | 45 | 4.5 | | | | | | | | 45 | | | | | | | | | | 45 | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1999 | Chev/1500 | | vv | 10 | 1 | 30 | 3 | | | | 30 | | | | | | | | | | 30 | | | | | | | |
| | | r | \mathbf{v} | 10 | 1 | 30 | 3 | | | 30 | | | 30 | | | | | | | 30 | | | | | | | | |
| | | | | | 1 | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | 1 | | | | | | | | | | | | 45 | | | | | | | | | | | |
| | | | | | 1 | | | | | | | | | | | | | | | | | | | | | | | |
| | | | ~~ | 10 | - 1 | 45 | 4.5 | | | | | | | | | | | | | | | 45 | | | | | | |
| | | <u>P</u> | w | 10 | 1 | 70 | 7 | | | | 70 | | | | | | | | | | 70 | | | | | | | |
| 2007 | GMC/5500 3 | ton dump | R | 10 | 1 | 80 | 8 | | | | | | | | | | | | | | | | | | | | | |
| 1999 | GMC/K3500 | HoistPlowSdr | R | 10 | 1 | 80 | 8 | | | | 80 | | | | | | | | 80 | | 80 | | | | | | | |
| Truck | <u>K</u> | | _ | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2005 | Ford/F450 | Sign Body | R | 12 | 1 | 90 | 7.500 | | | | | | | | | | | | 86 | | | | | | | | | |
| ck 6 T | on | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2008 | Freightliner | | R | 15 | 1 | | | | | | | | | | | | | | | | | | | | | | | |
| 1999 | Int/4900 | Plow,Spread | R | 15 | 1 | 180 | 12 | | | | | | 190 | | | 180 | | | | | | | | | | | | |
| 2010 | Freightliner | Plow/Spreader | R | 15 | 1 | | | | | | | | | | | | | | 100 | | | | | | | | 190 | |
| | | | | | 1 | | | | | | | | | | | | | | 180 | 400 | | | | | | | | |
| | | | | | 1 | | | | | | | | | | | | | | | 180 | 180 | | | | | | | |
| | | | | | 1 | | | | | | | | | | | | | | | | 100 | | | 180 | | | | |
| sher | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Int/2554 | Pumps,Tanks | vv | 12 | 1 | 250 | 20.833 | | 275 | | | | | | | | | | | | | 275 | | | | | | |
| eper | Dellerer | | - | 10 | | 200 | 40.007 | | | | | | | | | | | | _ | | | | | 200 | | | | _ |
| der | Pelican | | R | 12 | | 200 | 16.667 | | | - | | | | | _ | | | | | | | | | 200 | - | | | |
| 1970 | Champ/D600 | Plow, Wing | R | 35 | 1 | 0 | 0.000 | | | | | | | | | | | | | | | | | | | | | |
| Loade | ar. | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1993 | Cat/416B | | | | 1 | | | | 145 | | | | 145 | | | | | | | | 145 | | | | | | | |
| | | | | | 1 | | | | | | | | | | | | | | | | | 155 | | | | | | |
| 2001 | Cat/924G | 2.5 Loader | R | 12 | 1 | 180 | 15 | | | | | | | | 180 | | | | | | | | | | | | | |
| 2002 | Translatere | 0 | - | 10 | | 440 | 0.407 | | | | | | | | | | 440 | | | _ | _ | | | _ | | | | |
| | | Spreader | | | 1 | | | | | | | | | | | 26 | 110 | | | | | | | | | | | _ |
| | | | R | | 1 | | 3.000 | | | | | | | | | | | | | | | | | | | | | |
| ressor | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1991 | GardDen | Jhammer#52 | R | 20 | 1 | 10 | 0.500 | | | | | | 10 | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1996 | Thompson | SteamJenny | R | 15 | 1 | 15 | 1 | | | | | | 15 | | | | | | | | | | | | | | | |
| 1008 | Botoob | | 101 | 16 | - 1 | 15 | 1 000 | | | | | | | | 16 | | | | | | | | | | | | | |
| 1998 | Ratech | | | 13 | | 13 | 1.000 | | | | | | | | 13 | | | | - | | | | | | | | | |
| 1988 | /Tandem | | R | 20 | 1 | 10 | 0.5 | | | 10 | | | | | | | | | | | | | | | | | | |
| quipm | ent | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1988 | Bomag/Rolle | | R | 20 | 1 | 15 | 0.750 | | | 15 | | | 15 | | | | | | | | | | | | | | | |
| 1998 | Bartell/SP86 | /Grinder | R | 20 | 1 | 25 | 1.250 | | | | | | | | | | | | | 25 | | | | | | | | |
| - | nont | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1008 | Hoe Pak | for # 41 | w/ | 20 | 1 | 20 | 1 000 | | | | | | | | | | | | | 20 | | | | | | | | |
| acer | . ide Fak | 0.741 | | 20 | - 1 | 20 | 1.000 | | | | | | | | | | | | | 20 | | | | | | | | |
| mall E | auipment | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | < \$10,000 ea | ch | | 5 | | 50 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | | | |
| | < \$10,000 ea | ch | R | 5 | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 10% | salvade | | | | 41 | 3442 | | | | | | | | | | | | | | | | | | | | | | |
| | | 824 5 | | | | | 260 | 23 | 401 | 12 | 212 | 23 | 367 | 23 | 239 | 210 | 203 | 23 | 200 | 202 | 304 | 512 | 23 | 305 | 03 | | | |
| | , and pic | 224.0 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | - | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | or int | eres | | <u> </u> | | | | | | | | | | | | | | | | | | | | | |
| R | 221.50 | 199.44 | | | | 184.28 | | | | | | | | | | | | | | | | | | | | | | |
| P | 0.00 | 0.00 | | | | 0 | | | | | | | | | | | | | | | | | | | | | | |
| L | 0.00 | 0.00 | | | | 0 | | | | | | | | | | | | | | | | | | | | | | |
| | 288.33 | 259.62 | | | | 239.9 | | | | | | | | | | | | | | | | | | | | | | |
| | | 0.4 | on T | ruck - | - 10, | Sweeper | /Loader/Flu | sher/T | ractor - | 12, D | ump Ti | ruck/La | arge M | lowers/ | /Trailer | - 15 | | | | | | | | | | | | |
| Equipm Total q The \$\$ The Re The col | uantity of equilibrium of equilibrium of each y eserve contribrium total an | 05 and prior ar ipment does n rear for "small ution for each i d the "User Gr | nd no not in equi unit oup | ot repl nclude ipmen will au Sumn | the t"re utom | "varius s presents atically re " will reca | mall equipr an average scalculate i alculate wh | nent" replac if the lif en the | ement fe or rep numbe | placem rs in th | nent co ne colu | stis c mns a | hange re cha | d naed o | r move | d. The | numbe | rs in the | year | colum | nns mi | ust be | altered | manua | lly. | | | |
| Equipm Total q The \$\$ The Re The col The "life | nent due in20 uantity of equ under each y serve contrib lumn total an le" chosen for | 05 and prior ar lipment does n vear for "small ution for each d the "User Gr the "small equ | nd no not in equi unit oup | ot repl nclude ipmen will au Sumn | the t"re utom | "varius s presents atically re " will reca | mall equipr an average scalculate i alculate wh | nent" replac if the lif en the | ement fe or rep numbe | placem rs in th | nent co ne colu | stis c mns a | hange re cha | d naed o | r move | d. The | numbe | rs in the ate the | year ndivic | colum tual ur | nns mu nits an | ust be d prepa | altered are an a | l manua annual j | lly. blan. | | | |
| Equipm Total q The \$\$ The Re The col The "life All cos | nent due in20 uantity of equ under each y eserve contrib lumn total an le" chosen for it figures are | 05 and prior ar ipment does n rear for "small ution for each i d the "User Gr | nd no iot ir equi unit oup uipm | ot repl nclude ipmen will au Sumn nent gi | e the it" re utom nary roups | "varius s presents atically re " will reca s" is an e | mall equipr an average scalculate i alculate wh | nent" replac if the lif en the | ement fe or rep numbe | placem rs in th | nent co ne colu | stis c mns a | hange re cha | d naed o | r move | d. The | numbe | rs in the ate the | year ndivic | colum tual ur | nns mi nits an | ust be d prepa | altered are an a | l manua annual j | lly. plan. | | | |
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PARKS/IES FACILITIES VEHICLE/EQUIPMENT REPLACEMENT SCHEDULE - 2006 TO 2023

| Number Year MakeModel Attachments Dpt | Life | Qty Cost | F | Reserve OD | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 31 |
|--|----------------|----------|----------|----------------|----------|----|----|---|----|----|----|----|----|----|----|----|-----|----------|-----|----|----|----|----|----|---------------|--------|---------------|----|---------|
| BY-LAW VEHICLES | | | | | | | | | | | | | | | | | | | | | | | | | | | \downarrow | _ | \perp |
| | 10 | | 19 | 1.9 | | | | | | | | | | | | | 30 | | | | | | | | | | 30 | | ╇ |
| 403 2009 Toyota Tacoma, 1/2ton p/up B/L | | | 25 | 2.5 | \vdash | | | | | 30 | | | | | | | | | | 30 | | | | | _ | _ | \rightarrow | + | + |
| 404 2013 Ford Escape SUV B/L | 10 | 1 | 28 | 2.8 | | | | | | 30 | | | | | | _ | | | | 30 | | | | | _ | _ | + | _ | + |
| Biak un Truck 4/0 Tan | | | | | \vdash | | | | | | _ | | | | | _ | | | | | | | | | | | + | + | + |
| Pick-up Truck 1/2 Ton 200 2008 GMC Sierra P | 10 | 1 | 30 | 3 | | | | | _ | | _ | | | _ | | | 30 | | | | | | | | _ | _ | 30 | + | +- |
| | | 1 | 30 30 | 3 | | | | | | 30 | _ | | | | | _ | 00 | | | 30 | | | | | - | - | - 00 | + | +- |
| 212 2010 Chev Silverado P 224 2008 GMC Sierra-Crew Cab P | | 1 | 50 50 | 5 5 | | | | | | 30 | _ | | | _ | | | 65 | | | 30 | | | | | \rightarrow | - | 65 | + | +- |
| 248 2002 Ford/F150 P | 10 | 1 | 30 30 | 3 | | | | | | | 30 | | | | | _ | 00 | | | | 30 | | | | | | 00 | + | +- |
| 240 2002 Ford/F150 P | 10 10 | 1 | 30 30 | 3 3 | | | | | | | 30 | | 30 | | | _ | | | | | 30 | | 24 | | + | + | + | + | +- |
| 500 2003 Ford/F150 F | | 1 | 30 30 | 3 | | | | | | | _ | 30 | JU | _ | | | | | | | | 30 | | | \rightarrow | + | + | + | +- |
| 503 2008 Chev pick up F | | 1 | 30 30 | 3 | \vdash | | | | | | _ | JU | | _ | | _ | 30 | | | | | 30 | _ | | | | + | + | + |
| 504 2010 Chev Silvera 1/2 Ton p/up F | 10 | | 30 30 | 3 | \vdash | | | | | | _ | | | | | | 30 | | | | | 30 | | | + | - | + | + | + |
| Pick-up Truck 3/4,1Ton ,4x4,CC | 10 | I | 30 | 0 | | | | | | | _ | | | _ | | | 00 | | | | | 30 | | | + | + | + | + | +- |
| 201 2012 Ford/F150 3/4 ton p/up P | 10 | 4 | 35 | 3.5 | \vdash | | | | | | _ | | | _ | | _ | | 25 | | | | | | | - | | + | + | + |
| 201 2012 Ford/F150 Sr4101 prup P 202 2003 Ford/F350 Plow P | 10 10 | 1 | 50 50 | 3.0 5 | \vdash | | | | | _ | | 50 | | | | | | 35 | | | | 50 | | | + | + | + | + | + |
| 202 2003 Ford/F350 Plow P 203 2011 Ford/F350 p/up crewcab P | | 1 | 50 50 | 5 5 | \vdash | | | | | _ | | JU | | | | | | | | | | 00 | | | - | + | + | + | +- |
| 203 2011 Foro/F350 prup clewcab P 204 2011 Chev Silvera 3/4 ton p/up P | | 1 | 50 35 | о 3.5 | \vdash | | | | _ | _ | | | | | | | | | | | | | | | | + | + | + | + |
| 204 2011 Criev Silvera 3/4 ton p/up p 205 2013 Ford F250 3/4 ton p/up p | | 1 | 30 35 | 3.5 3.5 | \vdash | | | | _ | _ | _ | | | _ | | _ | | 35 | | | | | | | _ | _ | + | + | + |
| 206 2013 Ford F250 3/4 ton p/up P | | 1 | 35 35 | 3.5 3.5 | | | | | | | _ | | | _ | | | | 30 35 | | | | | | | - | _ | + | + | +- |
| 207 2010 GMC Sierra 3500HD P | | 1 | 50 50 | 0.0 5 | \vdash | | | | _ | | _ | | | _ | | _ | 50 | 30 | | | | | | | - | _ | + | + | + |
| 207 2010 GNIC SIENA SOUDED P | 10 | | JU | 0 | | | | | | | _ | | | _ | | | 50 | | | | | | | | + | - | + | + | +- |
| Van | | | | | | | | | | | _ | | | | | | | | | | | | | | - | _ | + | + | +- |
| 501 2005 GMC/Savan: 3/4 Ton F | 10 | 4 | 35 | 3.5 | | | | | | | _ | | | 35 | | _ | | | | | | | | 35 | + | + | + | + | + |
| JUT 2000 GMC/OdVdHc0/4 TOTT F | 10 | I | 00 | 0.0 | | | | | | | | | | 30 | | | | | | | | | | 00 | | | | | |
| 505 2012 Nissan NV251/2 Ton F | 10 | 1 | 35 | 3.500 | | | | | | | 35 | | | | | | | | | | 35 | | | | | | — | | — |
| Truck 1 Ton, Stake, Flat, Dump | 10 | | 00 | 0.000 | \vdash | | | | | | | | | | | | | | | | | | | | + | + | + | + | + |
| 226 2011 Ford F350 1 ton dump bx P | 10 | 1 | 50 | 5 | \vdash | | | | | | | | | | | | | | 50 | | | | | | + | - | + | + | + |
| 228 2008 Chev Sierra GMC 1 Ton DLP | | 1 | 55 | 5.500 | \vdash | | 55 | | | | | | | | | | 55 | | ~~~ | | | | | | + | + | 55 | + | ┿ |
| 251 2004 Chev Silvera Dump P | | 1 | 45 | 4.5 | \vdash | | ~~ | | | | | | 45 | | | | ~~~ | | | | | | 45 | | + | - | | + | ┿ |
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| 242 1999 Chev/1 Ton Garbage Comr P | 15 | 1 | 90 | 6.000 | | | | | | | | | 90 | | | | | | | | | | | | | | + | 90 | ┿ |
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| Dump Truck 6 Ton | | | | | | | | | | | | | | | | | | | | | | | | | | | + | + | ┿ |
| Sewer Flusher | | | | | | | | | | | | | | | | | | | | | | | | | | | + | + | ╈ |
| Road Sweeper | | | | | | | | | | | | | | | | | | | | | | | | | | | + | ╈ | ┿ |
| Road Grader | | | | | | | | | | | | | | | | | | | | | | | | | | | + | + | ┿ |
| Backhoe Loader | | | | | | | | | | | | | | | | | | | | | | | | | | | + | + | ╈ |
| 225 2007 CAT 24B-24 Skid Steer Loa P | 12 | 1 | 50 | 4.167 | | | | | | | | | | | | | 145 | | | | | | | | | | + | 1 | 45 |
| 238 2008 Back Hoe 420E IT P | | | | | | | | | | | | | | | | | | | 155 | | | | | | | | + | Ť | + |
| Tractor | | | | 12.011 | | | | | | | | | | | | | | | | | | | | | | | + | + | ╈ |
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| 219 2002 New Holland 4x4.Loader P | 12 | 1 | 60 | 5.000 | | | | | | | | | 60 | | | | | | | | | | | | | | + | + | ╈ |
| 221 2002 New Holland 4x4, Loader P | | 1 | 60 | 5.000 | | | | | | | | | 60 | | | | | | | | | | | | 60 | + | + | + | + |
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| 223 1995 JD/5400 P | | | | | | | | | | | | | | | | | | | 40 | | | | - | | - | - | + | + | + |
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APPENDIX 5 - ASSET MANAGEMENT RELATED SOFTWARE

WORKPLACE ASSET MANAGEMENT SYSTEM (WAMS): MAXIMO

Goal: The intent of a developing a new Workplace Asset Management System (WAMS) for the Town was to assist in the planning, management and administrative functions that are essential for the successful maintenance and management of the Town's assets. The WAMS is intended to be used by multiple Town departments and will serve as an operational and management tool for managing work orders and their transactional workflows. The selected tool for the WAMS is Maximo, an enterprise asset management software solution by IBM.

Implementation Date: Maximo was implemented in May 2013

Status: Maximo is being used for work and maintenance management and is integrated with GIS. Staff are creating and closing work orders and tying them to Town assets. The Customer Service team is using the Self Service component to submit service requests for staff to review and take action. Staff will be piloting mobile devices in 2015 that will allow users to connect to Maximo in the field in real time. This will allow users to complete work orders as the work is being done and not after-the-fact in the office.

GEOGRAPHIC INFORMATION SYSTEM: ESRI ARCGIS

Goal: Capture all infrastructure data sets digitally.

Implementation Date: ESRI ArcGIS was first utilized in the Planning and Development Services Department in 2002. In 2008, the Infrastructure & Environmental Services (IES) Department began to track the asset data spatially. These data sets include: water (e.g. valves, water mains), wastewater (e.g. pipes, manholes), storm (e.g. pipes, manholes, swmp) and streets (e.g. lighting, signs). All other data sets outside of IES are maintained by Planning.

Status: Asset data is represented spatially and currently undergoing QA/QC to populate the attribute data. This is being done on a street by street basis, and all assets on the street are being reviewed and updated where applicable. ArcGIS has been used to create an IES Infrastructure web map that can be used internally by Staff to show asset locations. When users click on an assets, a list of attributes are displayed in the table and there are hyperlinks that will open the design drawings and any CCTV video files as applicable.

REFERENCE INFORMATION MANAGEMENT: DRAWINGS DATABASE

Goal: Digital repository of all construction and as-built infrastructure drawings.

Implementation Date: 2009

Status: Microsoft Access Database maintained by IES that catalogues all drawing sets. The drawings have been scanned as PDF and or TIF images. The images are geo-referenced and can be brought into ArcGIS for asset digitization purposes. New drawings are added based on development and reconstruction projects. Starting in 2015, facility drawings are being scanned and added to the database.

AUTOMATED VEHICLE LOCATION (AVL): WEBTECH WIRELESS

Goal: GPS monitoring of sidewalk and snow plow truck routes during the winter maintenance season.

Implementation Date: Winter Season 2012/13

Status: Third year of program, ability to track plows in real-time or select historical data based on user-defined requirements. Query all vehicles or specific ones, run reports (activity summary, stops) and utilize breadcrumbs to playback route progress. New for the 2014/15 winter season was the development and implementation of the "Where's My Snowplow" web map. This public facing website allowed residents and Staff to see what roads had been plowed and when they were completed.

CONDITION ASSESSMENT TOOLS

Goal: Review/assign asset condition rating based on field observations

Implementation Date:Roads – InfraPave Pavement Condition Index (PCI), 2002
Roads – Pavement Condition Data Collection and Stantec RoadMatrix software, Target
2015/2016
Sanitary & Storm – CCTV, digital records initiated in 2008 and ongoing
Sidewalk – RoutePatrol Manager for Sidewalks, 2013

Status:

Roads – InfraPave is software developed by Aecom (formerly EarthTech) that is used to assess the condition of pavement distresses on accordance with the Canadian Public Works Association's Pavement Condition Index (PCI) rating. The PCI is a 0 to 100-scale measurement to describe pavement condition. Inspections began in 2002 and have been reinspected on a 3-5 year cycle (2005, 2010). The Town is currently reviewing other options to assess pavement conditions

Roads – Road Matrix is software developed by Stantec that is used to assess the condition of pavement distresses. This software was purchased in 2015 to replace the outdated InfraPave system. The Town is undergoing a data collection exercise wherein the vendor will use their vehicles to inspect Town's road network, identifying, classifying and measuring individual pavement distresses. Right-of-Way (ROW) images will also be collected. The data will be imported into Road Matrix and this software and its built-in decision support tools will be configured to analyse the data to generate new PCI ratings that will guide and or support the Town's 10 Year Road Reconstruction Plans.

Sanitary & Storm – CCTV video inspections for sanitary pipes, maintenance holes, storm pipes and maintenance holes is being collected annually. Data is being stored on a network computer and is used to assess underground infrastructure. The CCTV video files are being linked to the applicable GIS asset feature(s). Through the use of the IES Infrastructure web map, Staff can now click on an asset and open the video for review as needed.

Sidewalk – Route Patrol Manager (RPM) is GPS integrated road patrolling and maintenance management software from R. J. Burnside. RPM identifies deficiencies with Town related assets such as roads, sidewalks and light poles. It also captures road conditions, air and pavement temperature. RPM tracks these deficiencies and conditions from the time they are added in the field to the time they are completed, ensuring compliance with the Town's level of

service. RPM also provides detailed reports and maps showing when roads were patrolled and the exact time the deficiencies were identified and repaired. You can also use RPM to view previous patrol routes and historical asset deficiencies.

Trimble GPS Unit – The Trimble GPS Unit provides field workers with a reliable tool to collect, verify, maintain and locate various Town owned assets with high precision and accuracy. A GPS Unit can be used to collect GIS asset data such as Sanitary Pipes, Hydrants, Sidewalks, etc. in real time situations. It also gives you the ability to locate buried or snow covered assets. It not only allows you to capture the spatial component but also gives you the option of entering as much attribute information about an asset as you wish. This improves the accuracy and reliability of data in various Town applications. With this tool in place, the service levels provided by our IES Operations and Parks Divisions will be enhanced. These employees will have the ability to make better decisions by accessing current and accurate asset related data through the GPS device while out in the field.

MOBILE DEVICES

Goal: Acquire & configure mobile devices for field inspections and work orders

Implementation Date: Panasonic ToughPad tablets 2015

Status: Through a reliable and secure virtual private network (VPN) connection, Staff is able to use the ToughPad tablets to receive Maximo Service Requests and Work Orders in real-time while out in the field. Staff can also connect to the network to retrieve drawings, CCTV videos, and other documents. The tablets will also be used to pilot software for on-demand water meter readings. UniPro is software developed by Sensus in conjunction with the UniPro Communicator. These tools will allow users to down load meter readings at the meter and generate reports that may be used to detect anomalies in the system (private side leaks, inflow and infiltration) that require rehabilitation.

FUTURE PROJECTS

Water Hydraulic Modelling: Water Modelling Software

Goal: Create a hydraulic model to analyze the Town's water system. The model will utilize physical network information from GIS (pipes, nodes, valves) engineering drawings, and manufacturer specifications in conjunction with network demands (pumping records/stations, treatment records, population). The model can be used to support decisions on master planning, pumping station sizing, infrastructure rehabilitation, system expansion and improvements.

Implementation Date: Target 2015/2016

Status: Currently reviewing software options

Wastewater Hydraulic Modelling: Wastewater Modelling Software

Goal: Create a hydraulic model to analyze the Town's wastewater system. The model will utilize physical network information from GIS (pipes, nodes, valves) engineering drawings, and manufacturer specifications in conjunction with network demands (pumping records/stations, treatment records, population). The model can be used to

support decisions on master planning, pumping station sizing, infrastructure rehabilitation, system expansion and improvements.

Implementation Date: Target 2015/2016

Status: Currently reviewing software options