

## 2021 Capital Project Detail Report

**Project Title:** Apparatus Replacement-Technical Rescue Truck

**Project Number:** BF1029

**Department:** Barrie Fire & Emergency Services

**Rationale:** This apparatus is a replacement for the present Technical Rescue truck which is currently 26 years old. This vehicle would be at least 28 years old when replaced provided procurement started in 2018. This asset is a replacement for 91-413 of which was a used vehicle when the City obtained it in the mid 90's. There is a large quantity of equipment in this vehicle that is used at the scene of a technical rescue, such as high and low angle rope rescue, confined space and ice/water rescues.

This vehicle was purchased for \$91,500.00 and to date approx. \$109,000.00 has been spent on maintaining it. It will cost over \$50,000.00 to refurbish it to better store equipment, and another \$25,000.00 for body work. Due to it's age parts availability are becoming a concern and if it breaks down, there is no redundancy available to put in it's place. On many occasions a rented or borrowed cube van has been placed in service to cover for this vehicle when it has been OOS, and the van does not have any emergency warning lights or a radio on it. Therefore it will respond non-emergency mode to an emergency which will result in a prolonged response time.

### **PROJECT EXPENDITURE AND FUNDING**

#### **Expenditure (in 000's):**

	<b>Prior Approvals</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>2030</b>	<b>Total</b>
<b>Capital Purchase - Request</b>	<b>\$375</b>	<b>\$375</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$750</b>
<b>Total</b>	\$375	\$375	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$750

#### **Funding (in 000's):**

	<b>Prior Approvals</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>2030</b>	<b>Total</b>
<b>Contribution from Fleet Management Reserve</b>	\$375	\$375	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$750
<b>Contribution from Tax Capital Reserve</b>	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
<b>Total</b>	\$375	\$375	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$750

Expense amounts in **bold text** – 2021 Budget Request

Expense amounts in shaded text – Previously Committed Funding

## 2021 Capital Project Detail Report

**Project Title:** Fire Training Facility Temporary Expansion

**Project Number:** BF1013

**Department:** Barrie Fire & Emergency Services

**Rationale:** BFES is obligated to provide all staff with adequate training. Recommendations, after the line of duty death of Barrie Firefighter Bill Wilkins referenced the need to provide more fire training. Increasing legislative requirements and industry standards across our service delivery areas require us to have adequate training facilities and this addition will be an interim solution until a permanent facility is built.

BFES has rented facilities outside the City, but this becomes problematic.

When attending remote training grounds, it creates extra implications to the training budget, such as travel time, tuition and overtime pay are required to send crews outside the City. On duty personnel are required every day to cover the City, so if training is required outside the City it requires overtime. A normal live fire training session would require a minimum of 8 to 10 firefighters on overtime. The costs of renting an outside facility is another expensive cost and there are limited resources available in the immediate area, therefore compounding the implications of the overtime budget, due to travel times.

The use of a training facility in Barrie would permit BFES to meet it's requirements under the Occupational Health & Safety Act, the Section 21 Committee, FPPA, and NFPA Standards.

Another problem when going outside the City for training is the availability of other sites for our usage. many departments have their sites already booked for their own personnel, if not other outside clients.

This facility could be used as a means of revenue generation by the City by renting it to other local fire services, which would offset some of the operational costs.

It has been identified that the acquisition of a permanent site could be another 8 to 10 years away and thus places BFES in a very precarious position, in not realizing it's training obligations. And such failure will also fall back on the Corporation, if a serious injury to a firefighter were to happen and it was found that it was due to the lack of training, it could lead to charges against the City under the OH&S Act.

Any training props that were acquired for a temporary site could be moved and re-used at the permanent site.

BFES is currently using our temp facility to its full potential and require expansion of the facility to meet best practice and industry standards.

**PROJECT EXPENDITURE AND FUNDING****Expenditure (in 000's):**

	Prior Approvals	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	Total
Construction - Request	\$100	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$100
Capital Purchase - Request	<b>\$150</b>	<b>\$135</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$285</b>
Total	\$250	\$135	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$385

**Funding (in 000's):**

	Prior Approvals	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	Total
Contribution from Tax Capital Reserve	\$250	\$135	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$385
Total	\$250	\$135	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$385

Expense amounts in **bold text** – 2021 Budget Request

Expense amounts in shaded text – Previously Committed Funding

## 2021 Capital Project Detail Report

**Project Title:** Public Space Bin Upgrade Program

**Project Number:** ES1047

**Department:** Business Performance & Environmental Sustainability

**Rationale:** A comprehensive Public Space Bin Rationalization Study was conducted in response to the need to update the Public Space Bin Program. The purpose of which is to reduce contamination rates, increase diversion, find efficiencies and standardization, address changing legislation and its potential impacts, and to implement a second priority initiative within the Sustainable Waste Management Strategy. Of certainty is the fact that the legislation promotes the expansion of diversion programs which will definitely impact this 'Program' and changes are required in order to align with a Circular Economy approach to waste management.

### **PROJECT EXPENDITURE AND FUNDING**

#### **Expenditure (in 000's):**

	Prior Approvals	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	Total
Execute - Request	<b>\$713</b>	<b>\$238</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$950</b>
Total	\$713	\$238	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$950

#### **Funding (in 000's):**

	Prior Approvals	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	Total
Contribution from Tax Capital Reserve	\$713	\$238	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$950
Total	\$713	\$238	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$950

Expense amounts in **bold text** – 2021 Budget Request

Expense amounts in shaded text – Previously Committed Funding



## 2021 Capital Project Detail Report

**Project Title:** Studies for Future Solid Waste Disposal Options

**Project Number:** ES1056

**Department:** Business Performance & Environmental Sustainability

**Rationale:** The City of Barrie Landfill Site is forecasted to no longer have the capacity to accept waste in 2035. The feasibility of various options for alternative waste disposal will need to be analyzed to assist with deciding on a preferred option which would also take into account the Circular Economy approach. Currently, ten to fifteen (10 -15) years has been the estimated average time to obtain compliance approvals. Beginning the project in 2021 may allow for the time required to research and analyze specific options as well as obtain compliance approvals for the preferred option. It may not allow time for implementation of the preferred solution. Delaying the project any further may result in an increased cost as waste would need to be transported and disposed of off-site at an escalating cost. There would also be a time delay in obtaining approvals for this interim solution.

### **PROJECT EXPENDITURE AND FUNDING**

#### **Expenditure (in 000's):**

	<b>Prior Approvals</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>2030</b>	<b>Total</b>
<b>Study - Request</b>	<b>\$100</b>	<b>\$400</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$500</b>
<b>Study - Forecast</b>	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
<b>Total</b>	\$100	\$400	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$500

#### **Funding (in 000's):**

	<b>Prior Approvals</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>2030</b>	<b>Total</b>
<b>Contribution from DC Administration Reserve</b>	\$90	\$400	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$490
<b>Contribution from Landfill Site Closure Reserve</b>	\$10	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$10
<b>Contribution from Tax Rate Stabilization Reserve</b>	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
<b>Total</b>	\$100	\$400	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$500

Expense amounts in **bold text** – 2021 Budget Request

Expense amounts in shaded text – Previously Committed Funding

## 2021 Capital Project Detail Report

**Project Title:** Asset Management Plan Updates - Regulatory Compliance and Program Advancement

**Project Number:** 001038

**Department:** Corporate Asset Management

**Rationale:** In 2017 the Province passed O. Reg. 588/17 – Asset Management Planning for Municipal Infrastructure, which requires municipalities to have proposed level of services outlined in asset management plans (AMPs) for all assets by July 1, 2024. The plans are required to be updated on a five year cycle.

Updating the AMPs will help the City better understand current and long-range investment needs and plan for renewal and growth more effectively. Furthermore, by undertaking this process the City will gain better understanding of how service is impacted by changing infrastructure performance and needs, as well as the risk associated with failure. This is key to effective decision making related to investment in and management of the assets - in particular, in the development of capital and operating and maintenance programs. It is also important to understand the investment required in the newer assets so that they continue to support service delivery at an acceptable level of risk, into the future.

### **PROJECT EXPENDITURE AND FUNDING**

#### **Expenditure (in 000's):**

	Prior Approvals	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	Total
Study - Request	\$0	\$75	\$225	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$300
Study - Forecast	\$0	\$0	\$85	\$275	\$235	\$100	\$150	\$350	\$400	\$150	\$0	\$1,745
<b>Total</b>	\$0	\$75	\$310	\$275	\$235	\$100	\$150	\$350	\$400	\$150	\$0	\$2,045

#### **Funding (in 000's):**

	Prior Approvals	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	Total
Contribution from DC Administration Reserve	\$0	\$8	\$31	\$28	\$19	\$10	\$15	\$35	\$40	\$15	\$0	\$200
Contribution from Tax Capital Reserve	\$0	\$68	\$279	\$248	\$217	\$90	\$135	\$315	\$360	\$135	\$0	\$1,846
<b>Total</b>	\$0	\$75	\$310	\$275	\$235	\$100	\$150	\$350	\$400	\$150	\$0	\$2,045

Expense amounts in **bold text** – 2021 Budget Request

Expense amounts in shaded text – Previously Committed Funding

## 2021 Capital Project Detail Report

**Project Title:** DC Update - Infrastructure Cost Study

**Project Number:** 001039

**Department:** Corporate Asset Management

**Rationale:** The projects and costs from the infrastructure master plan are a key input into the Development Charges Bylaw. These costs have major impact on the City's finances and the development community and therefore need to reflect the best and most current information. As the DC Bylaw is considered for update in 2021, these infrastructure project cost updates are required also.

### **PROJECT EXPENDITURE AND FUNDING**

#### **Expenditure (in 000's):**

	<b>Prior Approvals</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>2030</b>	<b>Total</b>
<b>Study - Request</b>	<b>\$0</b>	<b>\$170</b>	<b>\$55</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$225</b>
<b>Total</b>	<b>\$0</b>	<b>\$170</b>	<b>\$55</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$225</b>

#### **Funding (in 000's):**

	<b>Prior Approvals</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>2030</b>	<b>Total</b>
<b>Contribution from DC Administration Reserve</b>	<b>\$0</b>	<b>\$170</b>	<b>\$55</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$225</b>
<b>Total</b>	<b>\$0</b>	<b>\$170</b>	<b>\$55</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$225</b>

Expense amounts in **bold text** – 2021 Budget Request

Expense amounts in shaded text – Previously Committed Funding

## 2021 Capital Project Detail Report

**Project Title:** Ferndale Drive South Watermain Replacement – Tiffin to Ardagh

**Project Number:** EN1395

**Department:** Corporate Asset Management

**Rationale:** Putting the Ferndale HDPE watermain back into service would provide additional water supply into pressure zone 3S and 2S in the south end of Barrie in case the supply from the Surface Water Treatment Plant is disrupted which has happened a few times in recent years. Also, it will delay expansion of the SwTP as identified in the 2019 Water Supply Master Plan, thereby deferring additional investment.

### **PROJECT EXPENDITURE AND FUNDING**

#### **Expenditure (in 000's):**

	<b>Prior Approvals</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>2030</b>	<b>Total</b>
<b>Design - Request</b>	<b>\$0</b>	<b>\$100</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$100</b>
<b>Total</b>	<b>\$0</b>	<b>\$100</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$100</b>

#### **Funding (in 000's):**

	<b>Prior Approvals</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>2030</b>	<b>Total</b>
<b>Contribution from Water Capital Reserve</b>	<b>\$0</b>	<b>\$100</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$100</b>
<b>Total</b>	<b>\$0</b>	<b>\$100</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$100</b>

Expense amounts in **bold text** – 2021 Budget Request

Expense amounts in shaded text – Previously Committed Funding

## 2021 Capital Project Detail Report

**Project Title:** SWMF / Stormwater Storage Area Safety Review

**Project Number:** 000940

**Department:** Corporate Asset Management

**Rationale:** Roads and berms that are high relative to the creek and result in large volumes of water being stored behind them and/or road overtopping on the regular basis could pose a risk to downstream property and infrastructure. To manage this risk, the City will assess this assess city-owned infrastructure and determine the appropriate mitigation measure as well as subsequent detailed studies (dam safety review or other risk management related activities).

### **PROJECT EXPENDITURE AND FUNDING**

#### **Expenditure (in 000's):**

	<b>Prior Approvals</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>2030</b>	<b>Total</b>
<b>Study - Request</b>	<b>\$0</b>	<b>\$187</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$187</b>
<b>Total</b>	\$0	\$187	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$187

#### **Funding (in 000's):**

	<b>Prior Approvals</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>2030</b>	<b>Total</b>
<b>Contribution from Tax Capital Reserve</b>	\$0	\$187	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$187
<b>Total</b>	\$0	\$187	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$187

Expense amounts in **bold text** – 2021 Budget Request

Expense amounts in shaded text – Previously Committed Funding

## 2021 Capital Project Detail Report

**Project Title:** Wastewater Inflow/Infiltration Reduction Action Plan

**Project Number:** 000931

**Department:** Corporate Asset Management

**Rationale:** Significant I&I flows are currently being experienced at the WwTF. These flows increase the volume of water requiring treatment at the plant, effectively increasing costs to treat rainwater which is combined with raw sewage. Increased flows into the WwTF use available capacity, advancing the need for plant expansion. In addition, higher than expected flows increase the risk of spills to the natural environment.

### **PROJECT EXPENDITURE AND FUNDING**

#### **Expenditure (in 000's):**

	<b>Prior Approvals</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>2030</b>	<b>Total</b>
<b>Study - Request</b>	<b>\$0</b>	<b>\$200</b>	<b>\$200</b>	<b>\$200</b>	<b>\$200</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$800</b>
<b>Study - Forecast</b>	\$0	\$0	\$0	\$0	\$0	\$200	\$200	\$200	\$200	\$200	\$200	\$1,200
<b>Construction - Forecast</b>	\$0	\$0	\$300	\$300	\$300	\$300	\$300	\$300	\$300	\$300	\$300	\$2,700
<b>Total</b>	\$0	\$200	\$500	\$500	\$500	\$500	\$500	\$500	\$500	\$500	\$500	\$4,700

#### **Funding (in 000's):**

	<b>Prior Approvals</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>2030</b>	<b>Total</b>
<b>Contribution from DC Reserves Wastewater</b>	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
<b>Contribution from DC WW Collection FMB Reserve</b>	\$0	\$86	\$215	\$215	\$215	\$215	\$215	\$215	\$215	\$215	\$215	\$2,021
<b>Contribution from WW Capital Reserve</b>	\$0	\$114	\$285	\$285	\$285	\$285	\$285	\$285	\$285	\$285	\$285	\$2,679
<b>Total</b>	\$0	\$200	\$500	\$500	\$500	\$500	\$500	\$500	\$500	\$500	\$500	\$4,700

Expense amounts in **bold text** – 2021 Budget Request

Expense amounts in shaded text – Previously Committed Funding

## 2021 Capital Project Detail Report

**Project Title:** Water and Transportation Asset Management Plans - Update

**Project Number:** EN1429

**Department:** Corporate Asset Management

**Rationale:** A gap assessment and update of the existing Water and Transportation Asset Management Plans is needed to meet legislated requirements, promote informed investment decisions, and identify areas of improvement in regards to the management of associated infrastructure. Failure to do so will also directly affect the City's ability to secure Federal and Provincial grants used to fund capital project and programs.

### **PROJECT EXPENDITURE AND FUNDING**

#### **Expenditure (in 000's):**

	<b>Prior Approvals</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>2030</b>	<b>Total</b>
<b>Study - Request</b>	<b>\$200</b>	<b>\$100</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$300</b>
<b>Total</b>	\$200	\$100	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$300

#### **Funding (in 000's):**

	<b>Prior Approvals</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>2030</b>	<b>Total</b>
<b>Contribution from DC Administration Reserve</b>	\$0	\$10	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$10
<b>Contribution from Tax Rate Stabilization Reserve</b>	\$100	\$45	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$145
<b>Contribution from Water Rate Stabilization Reserve</b>	\$100	\$45	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$145
<b>Total</b>	\$200	\$100	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$300

Expense amounts in **bold text** – 2021 Budget Request

Expense amounts in shaded text – Previously Committed Funding

## 2021 Capital Project Detail Report

**Project Title:** Whiskey Creek - Culvert Crossings - The Boulevard and Brennan Avenue

**Project Number:** EN1433

**Department:** Corporate Asset Management

**Rationale:** Multiple scenarios were investigated in the 2019 Master Drainage Plan to reduce the flooding at the Whiskey Creek outlet including alternative outlet locations and trunk stormsewer alignments.

There are physical and financial challenges with implementing the Master Plan recommendations, therefore this EA is proposed to explore further alternatives. Alternatives being considered will include the Master Plan recommendation of a larger culvert, a smaller culvert (lower standard) or daylighting the creek by eliminating vehicular access. The project will also consider options for relocating the sanitary pump station which is located within the future floodway.

### **PROJECT EXPENDITURE AND FUNDING**

#### **Expenditure (in 000's):**

	<b>Prior Approvals</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>2030</b>	<b>Total</b>
<b>Environmental Assessment - Request</b>	<b>\$120</b>	<b>\$80</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$200</b>
<b>Total</b>	\$120	\$80	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$200

#### **Funding (in 000's):**

	<b>Prior Approvals</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>2030</b>	<b>Total</b>
<b>Contribution from DC Stormwater FMB Reserve</b>	\$54	\$36	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$90
<b>Contribution from Tax Capital Reserve</b>	\$66	\$44	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$110
<b>Total</b>	\$120	\$80	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$200

Expense amounts in **bold text** – 2021 Budget Request

Expense amounts in shaded text – Previously Committed Funding



## 2021 Capital Project Detail Report

**Project Title:** WwTF/BSF/SPS Condition Assessments for Wastewater Asset Management Plan

**Project Number:** EN1331

**Department:** Corporate Asset Management

**Rationale:** The condition assessments, which are being carried out in coordination with the Wastewater Asset Management Plan, are tools to assist in making decisions about infrastructure maintenance, rehabilitation and renewal. Selected wastewater assets have been targeted for this condition assessment based on their criticality and to fill known data gaps.

### **PROJECT EXPENDITURE AND FUNDING**

#### **Expenditure (in 000's):**

	<b>Prior Approvals</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>2030</b>	<b>Total</b>
<b>Study - Request</b>	<b>\$400</b>	<b>\$100</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$500</b>
<b>Total</b>	\$400	\$100	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$500

#### **Funding (in 000's):**

	<b>Prior Approvals</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>2030</b>	<b>Total</b>
<b>Contribution from DC Reserves Tax</b>	\$0	(\$100)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	(\$100)
<b>Contribution from DC WW Serv Facilities Reserve</b>	\$0	\$200	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$200
<b>Contribution from WW Capital Reserve</b>	\$400	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$400
<b>Total</b>	\$400	\$100	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$500

Expense amounts in **bold text** – 2021 Budget Request

Expense amounts in shaded text – Previously Committed Funding

## 2021 Capital Project Detail Report

**Project Title:** Anne Street Right of Way Expansion - Wellington to Dunlop

**Project Number:** EN1377

**Department:** Development Services

**Rationale:** The project is required to address poor traffic operations and poor road condition. Timing is well aligned to address renewal needs.

### PROJECT EXPENDITURE AND FUNDING

#### Expenditure (in 000's):

	Prior Approvals	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	Total
<b>Environmental Assessment - Request</b>	<b>\$75</b>	<b>\$75</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$150</b>
PreDesign - Forecast	\$0	\$0	\$0	\$140	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$140
Design - Forecast	\$0	\$0	\$0	\$0	\$216	\$216	\$0	\$0	\$0	\$0	\$0	\$432
Property - Forecast	\$0	\$0	\$0	\$0	\$0	\$0	\$2,550	\$0	\$0	\$0	\$0	\$2,550
Utilities - Forecast	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$350	\$0	\$0	\$0	\$350
Construction - Forecast	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,690	\$1,690	\$0	\$3,380
<b>Total</b>	<b>\$75</b>	<b>\$75</b>	<b>\$0</b>	<b>\$140</b>	<b>\$216</b>	<b>\$216</b>	<b>\$2,550</b>	<b>\$350</b>	<b>\$1,690</b>	<b>\$1,690</b>	<b>\$0</b>	<b>\$7,002</b>

Expense amounts in **bold text** – 2021 Budget Request

Expense amounts in shaded text – Previously Committed Funding

<b>Funding (in 000's):</b>												
	<b>Prior Approvals</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>2030</b>	<b>Total</b>
<b>Contribution from DC Reserves Tax</b>	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
<b>Contribution from DC Roads Reserve</b>	\$49	\$49	\$0	\$91	\$91	\$91	\$1,658	\$228	\$715	\$715	\$0	\$3,686
<b>Contribution from DC Stormwater FMB Reserve</b>	\$0	\$0	\$0	\$0	\$33	\$33	\$0	\$0	\$254	\$254	\$0	\$572
<b>Contribution from DC Water Dist FMB Reserve</b>	\$0	\$0	\$0	\$0	\$17	\$17	\$0	\$0	\$130	\$130	\$0	\$294
<b>Contribution from Tax Capital Reserve</b>	\$26	\$26	\$0	\$49	\$67	\$67	\$893	\$123	\$522	\$522	\$0	\$2,293
<b>Contribution from WW Capital Reserve</b>	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
<b>Contribution from Water Capital Reserve</b>	\$0	\$0	\$0	\$0	\$9	\$9	\$0	\$0	\$70	\$70	\$0	\$158
<b>Total</b>	\$75	\$75	\$0	\$140	\$216	\$216	\$2,550	\$350	\$1,690	\$1,690	\$0	\$7,002

Expense amounts in **bold text** – 2021 Budget Request

Expense amounts in shaded text – Previously Committed Funding

## 2021 Capital Project Detail Report

**Project Title:** Barrie Heritage Subdivision New Park Development - Neighbourhood Park

**Project Number:** 000915

**Department:** Development Services

**Rationale:** The Developer is required to fulfill their development obligation through the development approval process. The Developer is required to deliver the completed park for public use in 2021. This will ensure that there are no service gaps for new residents. If the park is not delivered within the first year of development construction, the City will not be fulfilling our obligation to provide adequate parkland, for the local residents.

### **PROJECT EXPENDITURE AND FUNDING**

#### **Expenditure (in 000's):**

	<b>Prior Approvals</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>2030</b>	<b>Total</b>
<b>Construction - Request</b>	<b>\$0</b>	<b>\$650</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$650</b>
<b>Construction - Forecast</b>	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
<b>Total</b>	\$0	\$650	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$650

#### **Funding (in 000's):**

	<b>Prior Approvals</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>2030</b>	<b>Total</b>
<b>Developer Front Ending (Annex) - Developer Build</b>	\$0	\$650	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$650
<b>Total</b>	\$0	\$650	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$650

Expense amounts in **bold text** – 2021 Budget Request

Expense amounts in shaded text – Previously Committed Funding

## 2021 Capital Project Detail Report

**Project Title:** County Road 27 New Transmission Watermain - Holly PS to Former Barrie South City Limits (Developer)

**Project Number:** EN1144

**Department:** Development Services

**Rationale:** The new transmission watermain was recommended in the Water Distribution Master Plan to provide potable water, fire protection, system security and redundancy to service growth in Phase 1 of the secondary plan area lands.

### **PROJECT EXPENDITURE AND FUNDING**

#### **Expenditure (in 000's):**

	Prior Approvals	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	Total
Design - Request	\$130	\$122	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$252
Construction - Request	\$445	\$1,200	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,645
<b>Total</b>	\$575	\$1,322	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,897

#### **Funding (in 000's):**

	Prior Approvals	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	Total
Developer Contributions	\$34	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$34
Developer Front Ending (Annex) - Developer Build	\$96	\$1,322	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,418
Contribution from DC Reserves Water (Annex)	\$445	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$445
<b>Total</b>	\$575	\$1,322	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,897

Expense amounts in **bold text** – 2021 Budget Request

Expense amounts in shaded text – Previously Committed Funding

## 2021 Capital Project Detail Report

**Project Title:** Cycle Barrie Infrastructure Program

**Project Number:** EN1265

**Department:** Development Services

**Rationale:** The City's current active transportation modal share is 5% walking and less than 1% cycling; the City has set an aggressive active transportation target of 12% in the Council approved TMP. This represents a 200% increase of the active transportation modal share.

This modal target relies on an increased cycling modal share as the City's sidewalk network is generally built-out. To achieve this target; the City must focus on implementation of cycling infrastructure within the built boundary (cycling infrastructure is being constructed in the secondary plan areas as part of arterial road widening projects and through development approval).

The focus of this program will be the development of an achievable and cost effective plan that provides active transportation linkages and enhanced mobility equity for the residents of the City of Barrie. This study will generally focus on examining solutions that can be implemented in the near term as the current approach of generally linking implementation of AT infrastructure with major road reconstruction projects is resulting in a very low rate of implementation; this will be further exacerbated as financial challenges limit the City's ability to undertake major road projects in the City's built boundary.

Although measurable change will take many years, implementation of an active transportation network with connectivity is critical to help promote and get residents used to using active transportation as well as practically making active transportation a viable alternative. Furthermore; with infill occurring within the built boundary, active transportation is critical to support planned intensification.

### **PROJECT EXPENDITURE AND FUNDING**

#### **Expenditure (in 000's):**

	<b>Prior Approvals</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>2030</b>	<b>Total</b>
<b>Environmental Assessment - Request</b>	<b>\$0</b>	<b>\$175</b>	<b>\$175</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$350</b>
<b>Design - Request</b>	\$60	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$60
<b>Construction - Request</b>	\$1,795	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,795
<b>Total</b>	<b>\$1,855</b>	<b>\$175</b>	<b>\$175</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$2,205</b>

Expense amounts in **bold text** – 2021 Budget Request

Expense amounts in shaded text – Previously Committed Funding

**Funding (in 000's):**

	<b>Prior Approvals</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>2030</b>	<b>Total</b>
<b>Province of Ontario Grant Revenue</b>	\$1,014	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,014
<b>Contribution from Development Charge Reserves</b>	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
<b>Contribution from DC Reserves Tax</b>	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
<b>Contribution from DC Roads Reserve</b>	\$0	\$114	\$114	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$228
<b>Contribution from Tax Capital Reserve</b>	\$841	\$61	\$61	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$964
<b>Total</b>	\$1,855	\$175	\$175	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$2,205

Expense amounts in **bold text** – 2021 Budget Request

Expense amounts in shaded text – Previously Committed Funding

## 2021 Capital Project Detail Report

**Project Title:** Essa Road New Transmission Watermain - Maplevue to Athabaska (Developer)

**Project Number:** EN1250

**Department:** Development Services

**Rationale:** The Multi-Modal Active Transportation Master Plan identified the need to widen the existing 2-lane rural cross-section to a 3-lanes with buffered bike lanes and sidewalks. A Schedule C Environmental Assessment was completed.

The transmission watermain is required to support growth in the Secondary Plan areas.

The road widening project is identified in the Council endorsed Multi-Modal Active Transportation Master Plan. The transmission watermain is identified in the Council endorsed Water Storage and Distribution Master Plan.

### PROJECT EXPENDITURE AND FUNDING

#### Expenditure (in 000's):

	Prior Approvals	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	Total
Design - Request	\$2,772	(\$558)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$2,214
Construction - Request	\$0	\$2,459	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$2,459
<b>Total</b>	\$2,772	\$1,901	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$4,673

#### Funding (in 000's):

	Prior Approvals	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	Total
Developer Front Ending (Annex) - Developer Build	\$1,849	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,849
Debenture Proceeds - Tax	\$129	(\$129)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Contribution from DC Reserves Tax (Annex)	\$731	(\$731)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Contribution from DC Reserves Water (Annex)	\$63	\$2,761	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$2,824
Contribution from DC Roads Annex Reserve	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Contribution from Tax Capital Reserve	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
<b>Total</b>	\$2,772	\$1,901	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$4,673

Expense amounts in **bold text** – 2021 Budget Request

Expense amounts in shaded text – Previously Committed Funding



## 2021 Capital Project Detail Report

**Project Title:** MacMorrison Park Sports Program Replacement Plan

**Project Number:** EN1301

**Department:** Development Services

**Rationale:** This request is in direct response to the design and construction of the storm water management pond that will completely remove the lit softball diamond and lit horseshoe pits in MacMorrison Park. In addition, the SWM Pond preliminary design also notes the removal of the existing washroom building and parking lot but retains the existing playground for neighbourhood use.

Based on the current information available for the Lampman Lane site, the design drawings are expected to be produced in-house with the \$50,000 budget projected for staff time, sub-consultant procurement (electrical lighting, etc.), agency review (LSRCA), survey and any additional testing requirements, permits and fees. The construction costs are based on DC values for baseball diamond retrofits and an approximate cost to reconstruct the horseshoe pits to match the current site design (wooden structure and sand surface). Both facilities will require LED lighting designs.

### **PROJECT EXPENDITURE AND FUNDING**

#### **Expenditure (in 000's):**

	<b>Prior Approvals</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>2030</b>	<b>Total</b>
<b>Design - Request</b>	<b>\$0</b>	<b>\$30</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$30</b>
<b>Construction - Forecast</b>	\$0	\$0	\$150	\$325	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$475
<b>Total</b>	\$0	\$30	\$150	\$325	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$505

#### **Funding (in 000's):**

	<b>Prior Approvals</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>2030</b>	<b>Total</b>
<b>Contribution from Cash-In-Lieu Parkland Reserve</b>	\$0	\$30	\$150	\$325	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$505
<b>Total</b>	\$0	\$30	\$150	\$325	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$505

Expense amounts in **bold text** – 2021 Budget Request

Expense amounts in shaded text – Previously Committed Funding

## 2021 Capital Project Detail Report

**Project Title:** Tiffin/Bradford/Essa Transportation Feasibility Study

**Project Number:** EN1386

**Department:** Development Services

**Rationale:** Bradford Street and Essa Road have been identified as intensification areas. In addition, the 2019 Transportation Master Plan identifies improvements along the Bradford Street corridor, and there are known operational issues at the Bradford/Tiffin/Essa intersection. A transportation study is required to examine opportunities to improve operations at the intersection and along the corridor. This study should be completed now to ensure the City's infrastructure needs can be considered during the redevelopment.

### **PROJECT EXPENDITURE AND FUNDING**

#### **Expenditure (in 000's):**

	<b>Prior Approvals</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>2030</b>	<b>Total</b>
<b>PreDesign - Request</b>	<b>\$100</b>	<b>\$200</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$300</b>
<b>Total</b>	\$100	\$200	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$300

#### **Funding (in 000's):**

	<b>Prior Approvals</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>2030</b>	<b>Total</b>
<b>Contribution from DC Reserves Tax</b>	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
<b>Contribution from DC Roads Reserve</b>	\$65	\$130	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$195
<b>Contribution from Tax Capital Reserve</b>	\$35	\$70	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$105
<b>Total</b>	\$100	\$200	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$300

Expense amounts in **bold text** – 2021 Budget Request

Expense amounts in shaded text – Previously Committed Funding

## 2021 Capital Project Detail Report

**Project Title:** Waterfront, Marina & Parks Master Plan Update

**Project Number:** 001028

**Department:** Development Services

**Rationale:** The Waterfront Strategy (2015) identifies 5 Beaches and 12-15 Parks/Facilities along the Waterfront. Only the beaches offer official direct access to the Lake although informal access is known at other locations. This strategy needs to be updated to reflect what is currently happening on the City's waterfront, both in the formal beach areas and informal waterfront access points across the City. The summer of 2020 has highlighted several operational and environmental matters that continued and excessive use of the City's waterfront. Responses to COVID-19 are not anticipated to be resolved in the near term and at the same time the population of the City continues to grow resulting in many matters that should be identified, explored, developed and implemented through a Master Plan / Strategic Plan update process.

### **PROJECT EXPENDITURE AND FUNDING**

#### **Expenditure (in 000's):**

	<b>Prior Approvals</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>2030</b>	<b>Total</b>
<b>Study - Request</b>	<b>\$0</b>	<b>\$75</b>	<b>\$75</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$150</b>
<b>Total</b>	<b>\$0</b>	<b>\$75</b>	<b>\$75</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$150</b>

#### **Funding (in 000's):**

	<b>Prior Approvals</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>2030</b>	<b>Total</b>
<b>Contribution from Tax Rate Stabilization Reserve</b>	<b>\$0</b>	<b>\$75</b>	<b>\$75</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$150</b>
<b>Total</b>	<b>\$0</b>	<b>\$75</b>	<b>\$75</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$150</b>

Expense amounts in **bold text** – 2021 Budget Request

Expense amounts in shaded text – Previously Committed Funding

## 2021 Capital Project Detail Report

**Project Title:** 5th Floor Data Air Cooling Replacement

**Project Number:** 001041

**Department:** Facilities Department

**Rationale:** The city's central data centre requires a dedicated server room air conditioning system for cooling. The existing server room A/C unit has reached end of its life and failures are occurring more and more often. Given the critical nature of the network equipment to the city's continued operation replacement of the unit is warranted at this time. Furthermore, there is currently only one computer room A/C unit installed in the data centre. This project would replace the end of life A/C unit with a pair of A/C units to provide cooling system redundancy going forward.

### **PROJECT EXPENDITURE AND FUNDING**

#### **Expenditure (in 000's):**

	<b>Prior Approvals</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>2030</b>	<b>Total</b>
<b>Construction - Request</b>	<b>\$0</b>	<b>\$40</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$40</b>
<b>Total</b>	\$0	\$40	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$40

#### **Funding (in 000's):**

	<b>Prior Approvals</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>2030</b>	<b>Total</b>
<b>Contribution from Tax Capital Reserve</b>	\$0	\$40	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$40
<b>Total</b>	\$0	\$40	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$40

Expense amounts in **bold text** – 2021 Budget Request

Expense amounts in shaded text – Previously Committed Funding

## 2021 Capital Project Detail Report

**Project Title:** Allandale Recreation Centre - Pool Grout Rehabilitation

**Project Number:** 001013

**Department:** Facilities Department

**Rationale:** Multiple complaints from patrons have been recorded as they have incurred injuries from exposed tile edges. The grout is eroding leaving exposed edges that create a health and safety hazard and a failure of the grout can cause water penetration to the subfloor and start to degrade the base. Several patches and repairs have been made over the years to prevent water infiltration. Deferring this work is not recommended, as it is important to maintain tank integrity to prevent structural damage as this could result in both a safety hazard and potential unplanned extended shut down.

### **PROJECT EXPENDITURE AND FUNDING**

#### **Expenditure (in 000's):**

	<b>Prior Approvals</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>2030</b>	<b>Total</b>
<b>Construction - Request</b>	<b>\$0</b>	<b>\$125</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$125</b>
<b>Total</b>	<b>\$0</b>	<b>\$125</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$125</b>

#### **Funding (in 000's):**

	<b>Prior Approvals</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>2030</b>	<b>Total</b>
<b>Contribution from Cash-In-Lieu Parkland Reserve</b>	<b>\$0</b>	<b>\$125</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$125</b>
<b>Total</b>	<b>\$0</b>	<b>\$125</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$125</b>

Expense amounts in **bold text** – 2021 Budget Request

Expense amounts in shaded text – Previously Committed Funding

## 2021 Capital Project Detail Report

**Project Title:** Allandale Recreation Centre Flooring Replacement

**Project Number:** 000401

**Department:** Facilities Department

**Rationale:** Several areas within the Allandale Recreation Centre have flooring that is beginning to fail. The pool change rooms and fitness areas are the primary point of concern where failed floor finishes could pose slip or trip and fall hazards if not dealt with in a timely fashion. This project would see the replacement of entire areas vs. patching small sections at a time which is neither cost, nor time effective. This project is in addition to recent floor upgrades in the lobby areas of Allandale, which will contribute to an updated look and increase the useful life of the facility.

### **PROJECT EXPENDITURE AND FUNDING**

#### **Expenditure (in 000's):**

	<b>Prior Approvals</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>2030</b>	<b>Total</b>
<b>Construction - Request</b>	<b>\$0</b>	<b>\$150</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$150</b>
<b>Total</b>	<b>\$0</b>	<b>\$150</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$150</b>

#### **Funding (in 000's):**

	<b>Prior Approvals</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>2030</b>	<b>Total</b>
<b>Contribution from Cash-In-Lieu Parkland Reserve</b>	<b>\$0</b>	<b>\$150</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$150</b>
<b>Contribution from Tax Capital Reserve</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>
<b>Total</b>	<b>\$0</b>	<b>\$150</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$150</b>

Expense amounts in **bold text** – 2021 Budget Request

Expense amounts in shaded text – Previously Committed Funding

## 2021 Capital Project Detail Report

**Project Title:** Allandale Recreation Centre Large Pool Heating System Replacement

**Project Number:** 000225

**Department:** Facilities Department

**Rationale:** The Allandale Recreation Centre large pool heating systems are now over 15 years old and require replacement due to decreased functionality and increased maintenance costs. Technological and energy efficiency updates available through this replacement will provide probable savings to the Corporation in the long term. A detailed design and performance plan will be completed in 2021 and construction requested in 2022 with the appropriate dollar value.

### **PROJECT EXPENDITURE AND FUNDING**

#### **Expenditure (in 000's):**

	<b>Prior Approvals</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>2030</b>	<b>Total</b>
<b>Design - Request</b>	<b>\$0</b>	<b>\$50</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$50</b>
<b>Construction - Forecast</b>	\$0	\$0	\$400	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$400
<b>Total</b>	\$0	\$50	\$400	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$450

#### **Funding (in 000's):**

	<b>Prior Approvals</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>2030</b>	<b>Total</b>
<b>Contribution from Cash-In-Lieu Parkland Reserve</b>	\$0	\$50	\$400	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$450
<b>Contribution from Tax Capital Reserve</b>	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
<b>Total</b>	\$0	\$50	\$400	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$450

Expense amounts in **bold text** – 2021 Budget Request

Expense amounts in shaded text – Previously Committed Funding

## 2021 Capital Project Detail Report

**Project Title:** Allandale Recreation Centre Sidewalk Paver Replacement

**Project Number:** 000237

**Department:** Facilities Department

**Rationale:** Large sections of the existing sidewalks and entrance areas are failing. Failing unistone results in holes and heaving walkways that pose potential trip and fall hazards, especially concerning at a facility that over 70,000 seniors enter annually. Minor sections have been repaired over the last few years but with the pavers being original to the building, over 35 years old, it is not cost effective to continue minor repairs. The wholesale removal and replacement of large sections of pavers is required. In lieu of paving stones, concrete will be used to provide a more uniform, longer lasting asset.

### **PROJECT EXPENDITURE AND FUNDING**

#### **Expenditure (in 000's):**

	<b>Prior Approvals</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>2030</b>	<b>Total</b>
<b>Construction - Request</b>	<b>\$0</b>	<b>\$250</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$250</b>
<b>Total</b>	<b>\$0</b>	<b>\$250</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$250</b>

#### **Funding (in 000's):**

	<b>Prior Approvals</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>2030</b>	<b>Total</b>
<b>Contribution from Cash-In-Lieu Parkland Reserve</b>	<b>\$0</b>	<b>\$250</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$250</b>
<b>Contribution from Tax Capital Reserve</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>
<b>Total</b>	<b>\$0</b>	<b>\$250</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$250</b>

Expense amounts in **bold text** – 2021 Budget Request

Expense amounts in shaded text – Previously Committed Funding



## 2021 Capital Project Detail Report

**Project Title:** Allandale Recreation Centre Small Pool Heat Exchanger Replacement

**Project Number:** 000235

**Department:** Facilities Department

**Rationale:** Installed in 1995, the Allandale Recreation Centre small pool heat exchanger has reached the end of its useful life and requires replacement.

### **PROJECT EXPENDITURE AND FUNDING**

#### **Expenditure (in 000's):**

	<b>Prior Approvals</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>2030</b>	<b>Total</b>
<b>Capital Purchase - Request</b>	<b>\$0</b>	<b>\$35</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$35</b>
<b>Total</b>	\$0	\$35	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$35

#### **Funding (in 000's):**

	<b>Prior Approvals</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>2030</b>	<b>Total</b>
<b>Contribution from Tax Capital Reserve</b>	\$0	\$35	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$35
<b>Total</b>	\$0	\$35	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$35

Expense amounts in **bold text** – 2021 Budget Request

Expense amounts in shaded text – Previously Committed Funding

## 2021 Capital Project Detail Report

**Project Title:** Allandale Transit Hub Development

**Project Number:** FC1206

**Department:** Facilities Department

**Rationale:** As outlined in the Allandale Mobility Hub Study completed in May of 2018 and Staff Report TPS003-18 dated June 11, 2018, moving the Transit Hub to a centralized location at the existing GO Train Station has been strategically planned as the location of the Allandale Transit Hub is situated on a natural crossroads at the head of Kempenfelt Bay. Allandale has been an important transportation hub for over 160 years. The return of rail service to Allandale Station in 2012 represented the beginning of the rejuvenation of the area's historic role in Ontario's transportation network. The start of electrified two-way, all-day service in 2024 will continue this progress by providing a fast, frequent and reliable rapid transit connection to the rest of the Greater Golden Horseshoe. The site is ideally situated to host travel connections between the GTA, Simcoe County, Muskoka and cities along the Georgian Bay coast. With it's proximity to Barrie's rapidly growing south and designation by the Province as an Urban Growth Centre, Allandale is also well suited to serve as a central transportation hub for the city of Barrie. An expanded central bus terminal at Allandale Station builds on previous and planned strategic investments to advance the community's evolution into a modern intermodal and inter-regional mobility hub.

The relocation of the transit facility creates space in the downtown for a new farmers market and event space while consolidating the transit hub function at the GO Rail station to coincide with the arrival of all-day rail service. Reducing the footprint of the transit facility in the downtown while maintaining high service levels furthers the City's objectives for downtown revitalization. Investing in transportation and public realm amenities in the Allandale area advances the City's preparation for intensification and development in the area in the future. The new terminal further advances transportation plans to coordinate local and regional transit services with seamless connections.

### **PROJECT EXPENDITURE AND FUNDING**

#### **Expenditure (in 000's):**

	Prior Approvals	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	Total
<b>Construction - Request</b>	<b>\$2,150</b>	<b>\$7,750</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$9,900</b>
<b>Total</b>	\$2,150	\$7,750	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$9,900

#### **Funding (in 000's):**

	Prior Approvals	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	Total
<b>Debenture Proceeds - Tax</b>	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
<b>Province of Ontario Grant Revenue</b>	\$710	\$2,558	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$3,267
<b>Government of Canada Grant Revenue</b>	\$860	\$3,100	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$3,960
<b>Contribution from DC Transit Reserve</b>	\$116	\$419	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$535
<b>Contribution from Tax Capital Reserve</b>	\$464	\$1,674	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$2,138
<b>Total</b>	\$2,150	\$7,750	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$9,900

Expense amounts in **bold text** – 2021 Budget Request

Expense amounts in shaded text – Previously Committed Funding

## 2021 Capital Project Detail Report

**Project Title:** Barrie Fire Station 1 Apparatus Bay Floor Resurfacing

**Project Number:** 000867

**Department:** Facilities Department

**Rationale:** Fire Station 1 is now more than 10 years old and beginning to show its age. If left untreated, the apparatus bay floor will prematurely fail and need complete replacement at a significant capital cost. This project is being proposed to make minor repairs to the concrete, provide additional control joints and a new traffic coating that will protect the existing concrete floor. The traffic coating is expected to provide 10-15 years of protection from salt, brine, water and traffic that would otherwise wear on the concrete floor. This solution will greatly extend the life expectancy of the concrete Apparatus Bay floor at Fire Station 1.

### **PROJECT EXPENDITURE AND FUNDING**

#### **Expenditure (in 000's):**

	Prior Approvals	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	Total
Construction - Request	\$0	\$50	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$50
<b>Total</b>	\$0	\$50	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$50

#### **Funding (in 000's):**

	Prior Approvals	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	Total
Contribution from Tax Capital Reserve	\$0	\$50	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$50
<b>Total</b>	\$0	\$50	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$50

Expense amounts in **bold text** – 2021 Budget Request

Expense amounts in shaded text – Previously Committed Funding

## 2021 Capital Project Detail Report

**Project Title:** Barrie Fire Station 1 Overhead Door Refurbishment

**Project Number:** 000921

**Department:** Facilities Department

**Rationale:** There are 11 existing overhead garage doors that require significant maintenance on a quarterly basis to ensure they are operational at all times. These doors were not designed to operate on the frequency that they do, and therefore fail on a frequent basis. A solution to increase shaft size, install heavy duty springs and add supports has been designed that would extend the useful life of each door.

### **PROJECT EXPENDITURE AND FUNDING**

#### **Expenditure (in 000's):**

	<b>Prior Approvals</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>2030</b>	<b>Total</b>
<b>Construction - Request</b>	<b>\$0</b>	<b>\$75</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$150</b>
<b>Total</b>	\$0	\$75	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$150

#### **Funding (in 000's):**

	<b>Prior Approvals</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>2030</b>	<b>Total</b>
<b>Contribution from Tax Capital Reserve</b>	\$0	\$75	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$75
<b>Total</b>	\$0	\$75	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$75

Expense amounts in **bold text** – 2021 Budget Request

Expense amounts in shaded text – Previously Committed Funding

## 2021 Capital Project Detail Report

**Project Title:** Barrie Molson Centre Sound System Replacement

**Project Number:** 000600

**Department:** Facilities Department

**Rationale:** Over the past few years, the Barrie Molson Centre sound system has been patched and modified in an attempt to maintain its performance and clarity. This project would remove the outdated 22 year old system and replace it with a new modern system capable of hosting a variety of events, most notably the Barrie Colts hockey team. If left as is, the sound system may fail, resulting in reduced enjoyment and potentially reduced attendance until replaced. A failure would also constitute a breach of services agreed to with the building's major tenant.

### **PROJECT EXPENDITURE AND FUNDING**

#### **Expenditure (in 000's):**

	<b>Prior Approvals</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>2030</b>	<b>Total</b>
<b>Capital Purchase - Request</b>	<b>\$0</b>	<b>\$275</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$275</b>
<b>Total</b>	<b>\$0</b>	<b>\$275</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$275</b>

#### **Funding (in 000's):**

	<b>Prior Approvals</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>2030</b>	<b>Total</b>
<b>Contribution from Tax Capital Reserve</b>	<b>\$0</b>	<b>\$275</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$275</b>
<b>Total</b>	<b>\$0</b>	<b>\$275</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$275</b>

Expense amounts in **bold text** – 2021 Budget Request

Expense amounts in shaded text – Previously Committed Funding

## 2021 Capital Project Detail Report

**Project Title:** Circle at the Centre Condenser Replacement

**Project Number:** 000412

**Department:** Facilities Department

**Rationale:** Installed in 1998, the condenser is past its 20 year life expectancy. The air-cooled condenser is part of the primary refrigeration system and will require a replacement by 2021 due to its age. Full removal and replacement of the unit is now required, and deferring the replacement places the overall usability of the refrigeration system at risk. A failure would necessitate the closure of the public skating rink.

### **PROJECT EXPENDITURE AND FUNDING**

#### **Expenditure (in 000's):**

	<b>Prior Approvals</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>2030</b>	<b>Total</b>
<b>Construction - Request</b>	<b>\$0</b>	<b>\$100</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$100</b>
<b>Total</b>	\$0	\$100	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$100

#### **Funding (in 000's):**

	<b>Prior Approvals</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>2030</b>	<b>Total</b>
<b>Contribution from Tax Capital Reserve</b>	\$0	\$100	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$100
<b>Total</b>	\$0	\$100	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$100

Expense amounts in **bold text** – 2021 Budget Request

Expense amounts in shaded text – Previously Committed Funding

## 2021 Capital Project Detail Report

**Project Title:** Collier Street Parkade Sprinkler Replacement Program

**Project Number:** 001035

**Department:** Facilities Department

**Rationale:** Over the last several years, sections of the existing sprinkler piping and sprinkler heads have been replaced on an as required basis. Because the building is an exposed building with all levels open to the elements, and salt is imported into the building via vehicle traffic, deterioration of the building elements is accelerated. In addition, the piping of the sprinkler system consists of iron pipe which is to be replaced every 15 years. Replacing the piping with galvanized piping would greatly increase the life of the system, require much less repair and maintenance. This project would replace the remainder of the cast iron sprinkler piping with galvanized pipe along with associated heads and trace heating equipment.

### **PROJECT EXPENDITURE AND FUNDING**

#### **Expenditure (in 000's):**

	<b>Prior Approvals</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>2030</b>	<b>Total</b>
<b>Construction - Request</b>	<b>\$0</b>	<b>\$125</b>	<b>\$125</b>	<b>\$125</b>	<b>\$125</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$500</b>
<b>Total</b>	<b>\$0</b>	<b>\$125</b>	<b>\$125</b>	<b>\$125</b>	<b>\$125</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$500</b>

#### **Funding (in 000's):**

	<b>Prior Approvals</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>2030</b>	<b>Total</b>
<b>Contribution from Tax Capital Reserve</b>	<b>\$0</b>	<b>\$125</b>	<b>\$125</b>	<b>\$125</b>	<b>\$125</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$500</b>
<b>Total</b>	<b>\$0</b>	<b>\$125</b>	<b>\$125</b>	<b>\$125</b>	<b>\$125</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$500</b>

Expense amounts in **bold text** – 2021 Budget Request

Expense amounts in shaded text – Previously Committed Funding

## 2021 Capital Project Detail Report

**Project Title:** East Bayfield Community Centre Air Cooled Condenser Replacement

**Project Number:** 000975

**Department:** Facilities Department

**Rationale:** Originally installed in 2003, this asset has reached its life expectancy and is becoming costly to repair and maintain. Replacement is recommended as if this fails, there is potentially significant down time to facility services resulting in lost revenue. The EBCC has a geothermal ground loop system. The unit would be upsized to reject additional heat, as the facility's ground loop heat sink is saturated and unable to absorb additional heat waste. The upsized unit would allow additional heat to be dissipated, and allow ice to be created sooner in the year with less energy utilized to cool down the heat sink below the ice surface. Upsizing the unit requires additional structural and pipe upgrades as well

### **PROJECT EXPENDITURE AND FUNDING**

#### **Expenditure (in 000's):**

	<b>Prior Approvals</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>2030</b>	<b>Total</b>
<b>Construction - Request</b>	<b>\$0</b>	<b>\$425</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$425</b>
<b>Total</b>	<b>\$0</b>	<b>\$425</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$425</b>

#### **Funding (in 000's):**

	<b>Prior Approvals</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>2030</b>	<b>Total</b>
<b>Contribution from Cash-In-Lieu Parkland Reserve</b>	<b>\$0</b>	<b>\$425</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$425</b>
<b>Contribution from Tax Capital Reserve</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>
<b>Total</b>	<b>\$0</b>	<b>\$425</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$425</b>

Expense amounts in **bold text** – 2021 Budget Request

Expense amounts in shaded text – Previously Committed Funding



## 2021 Capital Project Detail Report

**Project Title:** Eastview Arena Flat Roof Replacement

**Project Number:** 000376

**Department:** Facilities Department

**Rationale:** Originally installed in 1994, the Eastview Arena flat roof is at the end of its 25 year life expectancy. Several areas where pooling has deteriorated the roof beyond a repairable state and this roof has been identified by the City's roofing consultant as requiring replacement. The budget value is based on the roofing consultant's report.

### **PROJECT EXPENDITURE AND FUNDING**

#### **Expenditure (in 000's):**

	<b>Prior Approvals</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>2030</b>	<b>Total</b>
<b>Construction - Request</b>	<b>\$0</b>	<b>\$225</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$225</b>
<b>Total</b>	\$0	\$225	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$225

#### **Funding (in 000's):**

	<b>Prior Approvals</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>2030</b>	<b>Total</b>
<b>Contribution from Tax Capital Reserve</b>	\$0	\$225	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$225
<b>Total</b>	\$0	\$225	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$225

Expense amounts in **bold text** – 2021 Budget Request

Expense amounts in shaded text – Previously Committed Funding

## 2021 Capital Project Detail Report

**Project Title:** Fire HQ UPS Replacement

**Project Number:** 001029

**Department:** Facilities Department

**Rationale:** The existing 50KVA Uninterruptible Power Supply (UPS) at Fire HQ is approaching its end of life. It is 11 years old and is showing signs of its age as repairs are required yearly to maintain its operation. The UPS is required for the 911 Call Center and is necessary for the continual operation of the Call Center and the existing system does not have any backup should it fail. This project would replace the single 50 KVA UPS with two 30 KVA UPS, plus a bypass switch for use during planned outages. The two UPS units will provide a level of redundancy should one of the units fail.

### **PROJECT EXPENDITURE AND FUNDING**

#### **Expenditure (in 000's):**

	<b>Prior Approvals</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>2030</b>	<b>Total</b>
<b>Construction - Request</b>	<b>\$0</b>	<b>\$60</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$60</b>
<b>Total</b>	<b>\$0</b>	<b>\$60</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$60</b>

#### **Funding (in 000's):**

	<b>Prior Approvals</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>2030</b>	<b>Total</b>
<b>Contribution from Tax Capital Reserve</b>	<b>\$0</b>	<b>\$60</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$60</b>
<b>Total</b>	<b>\$0</b>	<b>\$60</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$60</b>

Expense amounts in **bold text** – 2021 Budget Request

Expense amounts in shaded text – Previously Committed Funding

## 2021 Capital Project Detail Report

**Project Title:** Holly Community Centre Roof Replacement

**Project Number:** FC1230

**Department:** Facilities Department

**Rationale:** Significant sections of the modified bitumen roofing has failed at the Holly Community Centre. Leaks have become more common with patching required on a regular basis. Roof reviews utilizing thermal imaging have identified areas of roofing that need to be restored or replaced completely. This project will address major roof concerns that could cause future damage and disruption to services if not fixed. This project will only address areas of roof that are in poor condition and have failed.

### **PROJECT EXPENDITURE AND FUNDING**

#### **Expenditure (in 000's):**

	<b>Prior Approvals</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>2030</b>	<b>Total</b>
<b>Design - Request</b>	\$150	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$150
<b>Construction - Request</b>	<b>\$0</b>	<b>\$1,500</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$1,500</b>
<b>Total</b>	\$150	\$1,500	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,650

#### **Funding (in 000's):**

	<b>Prior Approvals</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>2030</b>	<b>Total</b>
<b>Contribution from Cash-In-Lieu Parkland Reserve</b>	\$0	\$1,500	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,500
<b>Contribution from Tax Capital Reserve</b>	\$150	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$150
<b>Total</b>	\$150	\$1,500	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,650

Expense amounts in **bold text** – 2021 Budget Request

Expense amounts in shaded text – Previously Committed Funding

## 2021 Capital Project Detail Report

**Project Title:** Lampman Lane Community Centre Interior Washroom and Access Renovation

**Project Number:** Z766

**Department:** Facilities Department

**Rationale:** The Lampman Lane washrooms are dated and do not meet current accessibility requirements. This project will allow better access for all patrons into the washrooms while providing a more functional layout with energy-efficient fixtures.

### **PROJECT EXPENDITURE AND FUNDING**

#### **Expenditure (in 000's):**

	<b>Prior Approvals</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>2030</b>	<b>Total</b>
<b>Construction - Request</b>	<b>\$0</b>	<b>\$50</b>	<b>\$125</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$175</b>
<b>Total</b>	<b>\$0</b>	<b>\$50</b>	<b>\$125</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$175</b>

#### **Funding (in 000's):**

	<b>Prior Approvals</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>2030</b>	<b>Total</b>
<b>Contribution from Federal Gas Tax Reserve</b>	<b>\$0</b>	<b>\$0</b>	<b>\$125</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$125</b>
<b>Contribution from Tax Capital Reserve</b>	<b>\$0</b>	<b>\$50</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$50</b>
<b>Total</b>	<b>\$0</b>	<b>\$50</b>	<b>\$125</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$175</b>

Expense amounts in **bold text** – 2021 Budget Request

Expense amounts in shaded text – Previously Committed Funding

## 2021 Capital Project Detail Report

**Project Title:** Main Library Lobby Terrazzo Refurbishment

**Project Number:** FC1216

**Department:** Facilities Department

**Rationale:** The existing terrazzo is beginning to fail with large cracks and pitting that will soon result in a potential trip and fall hazard. Removal and replacement of the damaged flooring is warranted at this time.

### **PROJECT EXPENDITURE AND FUNDING**

#### **Expenditure (in 000's):**

	Prior Approvals	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	Total
Construction - Request	\$0	\$80	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$80
<b>Total</b>	\$0	\$80	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$80

#### **Funding (in 000's):**

	Prior Approvals	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	Total
Contribution from Tax Capital Reserve	\$0	\$80	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$80
<b>Total</b>	\$0	\$80	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$80

Expense amounts in **bold text** – 2021 Budget Request

Expense amounts in shaded text – Previously Committed Funding

## 2021 Capital Project Detail Report

**Project Title:** Operations Centre Master Plan - Land Purchase

**Project Number:** 001057

**Department:** Facilities Department

**Rationale:** In 2012 Council adopted motion 12-G-315 to support a 'Sustainable Waste Management Strategy'. This 20 year strategy dealt with the future growth of the City into the Annexed Lands as well as creating more efficient and environmentally sustainable ways of addressing the City's solid waste. The approval of this project would allow staff to continue along this path by providing more adequate access to residents in the south end of Barrie as well as expand upon the City's current recycling and waste diversion programs. In addition, Council adopted a motion in June of 2016 based on Staff Report FCT003-16 to accept an Operational Service Delivery Model that was based on having two centralized locations. While the existing 165 Ferndale Drive site would remain the primary site for Roads, Parks, Fleet and Traffic operations and be redeveloped to more adequately provide services to the North and Downtown areas; a new South End Yard is required to support Roads, Parks, Fleet and Traffic operations in a much closer proximity to where the services are being used. The approval of this project would allow staff to purchase an adequate parcel of land in the south end which will provide the residents with better roads, parks and fleet operational services with a future operational cost savings. Staff have identified a centralized property in the south end that not only meets the size requirements, but is already properly zoned and contains an active waste management Environmental Compliance Approval through the Ministry of the Environment, Conservation and Parks. This property will be listed for sale in 2021 and it is crucial that we are prepared to act when that time comes. Acquiring a property with the appropriate paperwork in order to operate a landfill or waste transfer station would save an abundance of time and the lengthy MOE approval process that would otherwise be required.

<b><u>PROJECT EXPENDITURE AND FUNDING</u></b>												
<b><u>Expenditure (in 000's):</u></b>												
	<b>Prior Approvals</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>2030</b>	<b>Total</b>
<b>Property - Request</b>	<b>\$0</b>	<b>\$14,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$14,000</b>
<b>Total</b>	<b>\$0</b>	<b>\$14,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$14,000</b>
<b><u>Funding (in 000's):</u></b>												
	<b>Prior Approvals</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>2030</b>	<b>Total</b>
<b>Contribution from DC Public Works Fac &amp; Fleet Res</b>	<b>\$0</b>	<b>\$14,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$14,000</b>
<b>Total</b>	<b>\$0</b>	<b>\$14,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$14,000</b>

Expense amounts in **bold text** – 2021 Budget Request

Expense amounts in shaded text – Previously Committed Funding

## 2021 Capital Project Detail Report

**Project Title:** Operations Centre Master Plan Implementation

**Project Number:** FC1124

**Department:** Facilities Department

**Rationale:** The Operations Master Plan Project originated in 2015 with an identified need for growth to accommodate the Hewitt and Salem Secondary Plan lands as well as replace aged, inefficient infrastructure on the current 165 Ferndale Drive site. A Master Plan for the City's Roads, Parks, Fleet and Traffic Operations was undertaken and presented to Council in 2016 (FCT003-16) which established the future service delivery model. In 2017, a subsequent study was completed to identify an appropriate parcel of land in the Salem and Hewitt secondary plan lands to fulfill the proposed service delivery model. In June 2018 a report was delivered to the Infrastructure, Investment and Development Services Committee (IIDSC) with motion 18-G-158 providing approval to continue the implementation of the Operations Master Plan. While the original Master Plan report identified a major renovation of the R.A. Archer Centre, the 2018 IIDSC report updated this to a full replacement following a review of the logistics and cost associated with renovating the existing structure. Subsequent to that report, the City has invested as little as possible on the existing facility.

The existing R.A. Archer Operations Centre was built almost 50 years ago when the city was a fraction of its current size. The master plan completed in 2016 looked at several options available to support city growth and concluded that the Ferndale site itself is well placed geographically for continued operations if supported by an operations yard in the Salem area. Core Roads, Parks and Fleet operations will continue to be based out of Ferndale while the south operations yard will provide a local base to house winter control materials and equipment such as sidewalk plows needed to support the Salem and Hewitt communities.

This year staff have completed the design for a much needed Sand / Salt dome that will also house the City's winter roads control vehicles and materials and the 2020 budget request will fund the construction of this building as well as the reconfiguration of site elements to support future redevelopment. Staff are also in the midst of finalizing an updated Operations Master Plan Feasibility Study that will address operational efficiencies, site logistics, security and propose the phased replacement of failed on site infrastructure while maintaining all essential City services to its residents. This project will carry out the entire Operations Master Plan including both a redevelopment of 165 Ferndale Drive as well as the development of a new campus style, south end yard.

**PROJECT EXPENDITURE AND FUNDING**

**Expenditure (in 000's):**

	Prior Approvals	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	Total
PreDesign - Request	\$200	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$200
Design - Request	<b>\$550</b>	<b>\$500</b>	<b>\$2,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$3,050</b>
Construction - Request	<b>\$5,700</b>	<b>\$1,000</b>	<b>\$3,000</b>	<b>\$14,000</b>	<b>\$4,500</b>	<b>\$2,500</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$30,700</b>
PreDesign - Forecast	\$0	\$0	\$0	\$0	\$500	\$0	\$0	\$0	\$0	\$0	\$0	\$500
Design - Forecast	\$0	\$0	\$0	\$0	\$0	\$2,000	\$0	\$0	\$0	\$0	\$0	\$2,000
Construction - Forecast	\$0	\$0	\$0	\$0	\$0	\$6,000	\$11,000	\$11,550	\$0	\$0	\$0	\$28,550
<b>Total</b>	<b>\$6,450</b>	<b>\$1,500</b>	<b>\$5,000</b>	<b>\$14,000</b>	<b>\$5,000</b>	<b>\$10,500</b>	<b>\$11,000</b>	<b>\$11,550</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$65,000</b>

**Funding (in 000's):**

	Prior Approvals	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	Total
Debenture Proceeds - DCs	\$1,935	\$750	\$2,500	\$7,000	\$2,500	\$5,250	\$5,500	\$8,663	\$0	\$0	\$0	\$34,098
Debenture Proceeds - Tax	\$4,515	\$750	\$2,500	\$7,000	\$2,500	\$5,250	\$5,500	\$2,888	\$0	\$0	\$0	\$30,903
Contribution from DC Reserves Tax (Annex)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Contribution from Tax Capital Reserve	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
<b>Total</b>	<b>\$6,450</b>	<b>\$1,500</b>	<b>\$5,000</b>	<b>\$14,000</b>	<b>\$5,000</b>	<b>\$10,500</b>	<b>\$11,000</b>	<b>\$11,550</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$65,000</b>

Expense amounts in **bold text** – 2021 Budget Request

Expense amounts in shaded text – Previously Committed Funding



## 2021 Capital Project Detail Report

**Project Title:** Parkview Community Centre Building Envelope Refurbishment

**Project Number:** 000408

**Department:** Facilities Department

**Rationale:** Several areas of the brick veneer and wood siding have failed leaving the building envelope susceptible to the elements and further deterioration. The brick veneer is original to the building and the wood siding was installed in 1988. Refurbishing larger sections of siding that have failed will prolong the life of the building envelope and the assets inside.

### **PROJECT EXPENDITURE AND FUNDING**

#### **Expenditure (in 000's):**

	<b>Prior Approvals</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>2030</b>	<b>Total</b>
<b>Construction - Request</b>	<b>\$0</b>	<b>\$100</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$100</b>
<b>Total</b>	\$0	\$100	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$100

#### **Funding (in 000's):**

	<b>Prior Approvals</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>2030</b>	<b>Total</b>
<b>Contribution from Tax Capital Reserve</b>	\$0	\$100	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$100
<b>Total</b>	\$0	\$100	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$100

Expense amounts in **bold text** – 2021 Budget Request

Expense amounts in shaded text – Previously Committed Funding

## 2021 Capital Project Detail Report

**Project Title:** Parkview Community Centre DSS Abatement

**Project Number:** 000361

**Department:** Facilities Department

**Rationale:** A Designated Substance Survey report completed in 2016 identified areas and material which contain Asbestos, specifically the original drywall compound and ceiling plaster. The intent of this project is to safely remove asbestos containing materials located in areas that may be subject to damage, which could place visitors and staff at risk.

### **PROJECT EXPENDITURE AND FUNDING**

#### **Expenditure (in 000's):**

	<b>Prior Approvals</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>2030</b>	<b>Total</b>
<b>Construction - Request</b>	<b>\$0</b>	<b>\$150</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$150</b>
<b>Total</b>	\$0	\$150	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$150

#### **Funding (in 000's):**

	<b>Prior Approvals</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>2030</b>	<b>Total</b>
<b>Contribution from Tax Capital Reserve</b>	\$0	\$150	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$150
<b>Total</b>	\$0	\$150	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$150

Expense amounts in **bold text** – 2021 Budget Request

Expense amounts in shaded text – Previously Committed Funding

## 2021 Capital Project Detail Report

**Project Title:** Parkview Community Centre Parking Lot & Curb Replacement

**Project Number:** 000389

**Department:** Facilities Department

**Rationale:** Parking lots and concrete curbing were installed in 1989 and are beginning to fail. Significant patching of top layer of asphalt and damaged concrete curbs is recommended before the asset completely fails. If left too long, the project may require additional funding to repair sub-base granular's prior to repaving. Full replacement can be deferred if these repairs are made. A report in 2019 completed by RJC identified significant areas of concern, and this will be used as basis for design and construction.

### **PROJECT EXPENDITURE AND FUNDING**

#### **Expenditure (in 000's):**

	<b>Prior Approvals</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>2030</b>	<b>Total</b>
<b>Construction - Request</b>	<b>\$0</b>	<b>\$100</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$100</b>
<b>Total</b>	\$0	\$100	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$100

#### **Funding (in 000's):**

	<b>Prior Approvals</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>2030</b>	<b>Total</b>
<b>Contribution from Tax Capital Reserve</b>	\$0	\$100	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$100
<b>Total</b>	\$0	\$100	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$100

Expense amounts in **bold text** – 2021 Budget Request

Expense amounts in shaded text – Previously Committed Funding

## 2021 Capital Project Detail Report

**Project Title:** Sadlon Arena - Fire System Replacement

**Project Number:** 000974

**Department:** Facilities Department

**Rationale:** The existing fire alarm system is original to the 1995 building and has reached its 25 years life expectancy for replacement. Costs to maintain the fire alarm system is increasing and parts are becoming harder to source. Technology, building codes and fire codes have all changed over the past 25 years. Replacing the fire alarm system, including annunciator panel and audible and initiating devices, will also allow the upgrade of existing bells to newer horn/strobe devices, and the relocation of pull stations to meet modern barrier free requirements.

### **PROJECT EXPENDITURE AND FUNDING**

#### **Expenditure (in 000's):**

	<b>Prior Approvals</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>2030</b>	<b>Total</b>
<b>Construction - Request</b>	<b>\$0</b>	<b>\$225</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$225</b>
<b>Total</b>	\$0	\$225	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$225

#### **Funding (in 000's):**

	<b>Prior Approvals</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>2030</b>	<b>Total</b>
<b>Contribution from Tax Capital Reserve</b>	\$0	\$225	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$225
<b>Total</b>	\$0	\$225	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$225

Expense amounts in **bold text** – 2021 Budget Request

Expense amounts in shaded text – Previously Committed Funding

## 2021 Capital Project Detail Report

**Project Title:** Sadlon Arena - Roof Repairs

**Project Number:** 001011

**Department:** Facilities Department

**Rationale:** The existing modified bitumen roof membrane on the lower portions of the facility is failing and overdue for replacement. The roof membrane was installed in 1995 with a life expectancy of 20 years and has reached the end of its life cycle. In recent years, there have been leaks in this area. The roof membrane will continue to deteriorate as it continues to age it will develop leaks. Failure of the roof membrane becomes more of a risk year after year and can cause water leaks to damage the interior and exterior components and deteriorate the roof and surrounding materials. The cost impact of this damage would result in cancelled events which would mean a loss of revenue to the City. The replacement of the roof membrane will preserve the condition of the building, and result in reduced maintenance costs. The general scope and budget was recommended through a roof assessment completed by a consultant.

### **PROJECT EXPENDITURE AND FUNDING**

#### **Expenditure (in 000's):**

	<b>Prior Approvals</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>2030</b>	<b>Total</b>
<b>Construction - Request</b>	<b>\$0</b>	<b>\$425</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$425</b>
<b>Total</b>	<b>\$0</b>	<b>\$425</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$425</b>

#### **Funding (in 000's):**

	<b>Prior Approvals</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>2030</b>	<b>Total</b>
<b>Contribution from Tax Capital Reserve</b>	<b>\$0</b>	<b>\$425</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$425</b>
<b>Total</b>	<b>\$0</b>	<b>\$425</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$425</b>

Expense amounts in **bold text** – 2021 Budget Request

Expense amounts in shaded text – Previously Committed Funding

## 2021 Capital Project Detail Report

**Project Title:** SWTP-Boiler Replacement and Optimization

**Project Number:** 001008

**Department:** Facilities Department

**Rationale:** The heating water boilers at the Surface Water Treatment plant failed during the winter of 2020 due to a design flaw. Two of the four units were replaced at the time through an emergency purchase, while the remaining two were temporarily patched back together using available parts. These remaining two units continue to be problematic and are not expected to last another heating season. The focus at the time of the failure was to provide heat for the facility for the remainder of the winter but significant control and piping changes are required to correct the underlying flaw that caused the failures. This project will replace the remaining two original boilers, upgrade the controls and control logic to properly stage operation of individual boilers and also decouple the domestic hot water system from the boiler loop. The resulting system will be reliable and considerably more efficient than the system that failed, thereby reducing ongoing operating costs.

### **PROJECT EXPENDITURE AND FUNDING**

#### **Expenditure (in 000's):**

	<b>Prior Approvals</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>2030</b>	<b>Total</b>
<b>Construction - Request</b>	<b>\$0</b>	<b>\$300</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$300</b>
<b>Total</b>	<b>\$0</b>	<b>\$300</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$300</b>

#### **Funding (in 000's):**

	<b>Prior Approvals</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>2030</b>	<b>Total</b>
<b>Contribution from Tax Capital Reserve</b>	<b>\$0</b>	<b>\$300</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$300</b>
<b>Total</b>	<b>\$0</b>	<b>\$300</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$300</b>

Expense amounts in **bold text** – 2021 Budget Request

Expense amounts in shaded text – Previously Committed Funding

## 2021 Capital Project Detail Report

**Project Title:** Transit Downtown Mini Hub

**Project Number:** 000954

**Department:** Facilities Department

**Rationale:** As outlined in the Mobility Hub Feasibility Study completed by WSP and presented in staff report TPS004-19, the Allandale Hub Strategy included for a mini hub that would be located at 24 Maple Ave (Current Transit Terminal). Maintaining a downtown presence is important to the City of Barrie for the following reasons:

- a) Supports local businesses, downtown intensification, and the permanent market project by providing city-wide sustainable mobility.
- b) Enables a place for downtown residence to purchase tickets close to home or work.
- c) Provides a timed transfer location and thus enhanced mobility to downtown residents similar to what is offered today at the existing terminal.
- d) Limits the disruption to existing downtown riders.
- e) Provides a lay-by for routes to terminate downtown resulting in more efficient and flexible transit routing.

### **PROJECT EXPENDITURE AND FUNDING**

#### **Expenditure (in 000's):**

	<b>Prior Approvals</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>2030</b>	<b>Total</b>
<b>Construction - Request</b>	<b>\$0</b>	<b>\$50</b>	<b>\$284</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$334</b>
<b>Total</b>	<b>\$0</b>	<b>\$50</b>	<b>\$284</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$334</b>

#### **Funding (in 000's):**

	<b>Prior Approvals</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>2030</b>	<b>Total</b>
<b>Province of Ontario Grant Revenue</b>	<b>\$0</b>	<b>\$17</b>	<b>\$92</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$109</b>
<b>Government of Canada Grant Revenue</b>	<b>\$0</b>	<b>\$20</b>	<b>\$111</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$131</b>
<b>Contribution from Tax Capital Reserve</b>	<b>\$0</b>	<b>\$13</b>	<b>\$81</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$95</b>
<b>Total</b>	<b>\$0</b>	<b>\$50</b>	<b>\$284</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$334</b>

Expense amounts in **bold text** – 2021 Budget Request

Expense amounts in shaded text – Previously Committed Funding

## 2021 Capital Project Detail Report

**Project Title:** Transit Terminal Canopy Drain Line Replacement

**Project Number:** 001024

**Department:** Facilities Department

**Rationale:** At almost 30 years of age, the original Transit Terminal canopy drain lines are failing due to age. This project will replace the drain lines, covering insulation and trace heating cables.

### **PROJECT EXPENDITURE AND FUNDING**

#### **Expenditure (in 000's):**

	Prior Approvals	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	Total
Construction - Request	\$0	\$60	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$60
<b>Total</b>	\$0	\$60	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$60

#### **Funding (in 000's):**

	Prior Approvals	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	Total
Contribution from Tax Capital Reserve	\$0	\$60	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$60
<b>Total</b>	\$0	\$60	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$60

Expense amounts in **bold text** – 2021 Budget Request

Expense amounts in shaded text – Previously Committed Funding



## 2021 Capital Project Detail Report

**Project Title:** Transit Terminal Exterior Door Replacement

**Project Number:** 001022

**Department:** Facilities Department

**Rationale:** At almost 30 years of age, the exterior doors at the Barrie Transit Terminal are original to the building and have deteriorated due to wear, age and the use of salt or ice melting materials for winter control purposes and continued localized repairs are not cost effective. This project will replace the doors, weather stripping and, where required, door hardware.

### **PROJECT EXPENDITURE AND FUNDING**

#### **Expenditure (in 000's):**

	<b>Prior Approvals</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>2030</b>	<b>Total</b>
<b>Construction - Request</b>	<b>\$0</b>	<b>\$125</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$125</b>
<b>Total</b>	\$0	\$125	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$125

#### **Funding (in 000's):**

	<b>Prior Approvals</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>2030</b>	<b>Total</b>
<b>Contribution from Tax Capital Reserve</b>	\$0	\$125	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$125
<b>Total</b>	\$0	\$125	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$125

Expense amounts in **bold text** – 2021 Budget Request

Expense amounts in shaded text – Previously Committed Funding

## 2021 Capital Project Detail Report

**Project Title:** WWTF Innovation Center

**Project Number:** FC1215

**Department:** Facilities Department

**Rationale:** The existing Administrative Building at the WWTF site was constructed in 1979 over top of existing concrete tanks at the head end of the wastewater inlet side of the existing treatment facility. It includes a laboratory and administrative space as well as a garage, fabrication and storage space. The existing structure is approximately 14,000 square feet including a temporary site trailer that will be replaced as part of this scope of work. The relocation of the Administrative Building and its functions is required to accommodate the additional capacity and flows of wastewater resulting from city growth. As it is currently anticipated the plant will reach capacity by 2031, not only does this relocation project need to be complete but all process projects dependent on the relocation of the Administrative Building will also need to be complete. The Wastewater Operations branch has legislative requirements for advance wastewater treatment, testing, reporting and process controls that cannot be interrupted. The planning, design and construction of a new Administrative Facility will coincide with many other Engineering and Wastewater Operational activities to prepare to meet new legislation and increase capacity. The timing of this project is crucial and has been aligned for completion prior to 2025 in order to allow for the start of the required hydraulic expansion of the WWTF.

### **PROJECT EXPENDITURE AND FUNDING**

#### **Expenditure (in 000's):**

	<b>Prior Approvals</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>2030</b>	<b>Total</b>
<b>PreDesign - Request</b>	<b>\$175</b>	<b>\$1,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$1,175</b>
<b>Design - Request</b>	\$0	\$0	\$1,500	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,500
<b>Construction - Forecast</b>	\$0	\$0	\$4,500	\$6,000	\$2,000	\$0	\$0	\$0	\$0	\$0	\$0	\$12,500
<b>Total</b>	\$175	\$1,000	\$6,000	\$6,000	\$2,000	\$0	\$0	\$0	\$0	\$0	\$0	\$15,175

#### **Funding (in 000's):**

	<b>Prior Approvals</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>2030</b>	<b>Total</b>
<b>Contribution from DC WW Serv Facilities Reserve</b>	\$88	\$640	\$3,840	\$3,840	\$1,280	\$0	\$0	\$0	\$0	\$0	\$0	\$9,688
<b>Contribution from WW Capital Reserve</b>	\$88	\$360	\$2,160	\$2,160	\$720	\$0	\$0	\$0	\$0	\$0	\$0	\$5,488
<b>Total</b>	\$175	\$1,000	\$6,000	\$6,000	\$2,000	\$0	\$0	\$0	\$0	\$0	\$0	\$15,175

Expense amounts in **bold text** – 2021 Budget Request

Expense amounts in shaded text – Previously Committed Funding

## 2021 Capital Project Detail Report

**Project Title:** County of Simcoe Capital Program - Long Term Care & Senior Services

**Project Number:** FI1018

**Department:** Finance Department

**Rationale:** The City of Barrie is party to an agreement with the County of Simcoe that requires the City to contribute funding toward the County's capital plan on a prescribed basis. This project reflects the County's 10 year Capital Plan, as it relates to long term care and senior services needs, at the time of budget preparation. The plan is subject to change.

### **PROJECT EXPENDITURE AND FUNDING**

#### **Expenditure (in 000's):**

	<b>Prior Approvals</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>2030</b>	<b>Total</b>
<b>Service Partner - Request</b>	<b>\$376</b>	<b>\$118</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$494</b>
<b>Service Partner - Forecast</b>	\$0	\$0	\$97	\$33	\$118	\$125	\$74	\$100	\$100	\$100	\$100	\$847
<b>Total</b>	<b>\$376</b>	<b>\$118</b>	<b>\$97</b>	<b>\$33</b>	<b>\$118</b>	<b>\$125</b>	<b>\$74</b>	<b>\$100</b>	<b>\$100</b>	<b>\$100</b>	<b>\$100</b>	<b>\$1,341</b>

#### **Funding (in 000's):**

	<b>Prior Approvals</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>2030</b>	<b>Total</b>
<b>Contribution from Simcoe County Capital Reserve</b>	<b>\$376</b>	<b>\$118</b>	<b>\$97</b>	<b>\$33</b>	<b>\$118</b>	<b>\$125</b>	<b>\$74</b>	<b>\$100</b>	<b>\$100</b>	<b>\$100</b>	<b>\$100</b>	<b>\$1,341</b>
<b>Contribution from Reserves</b>	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
<b>Total</b>	<b>\$376</b>	<b>\$118</b>	<b>\$97</b>	<b>\$33</b>	<b>\$118</b>	<b>\$125</b>	<b>\$74</b>	<b>\$100</b>	<b>\$100</b>	<b>\$100</b>	<b>\$100</b>	<b>\$1,341</b>

Expense amounts in **bold text** – 2021 Budget Request

Expense amounts in shaded text – Previously Committed Funding

## 2021 Capital Project Detail Report

**Project Title:** County of Simcoe Capital Program - Paramedic Services

**Project Number:** FI1019

**Department:** Finance Department

**Rationale:** The City of Barrie is party to an agreement with the County of Simcoe that requires the City to contribute funding toward the County's capital plan on a prescribed basis. This project reflects the County's 10 year Capital Plan, as it relates to paramedic services, at the time of budget preparation. The plan is subject to change.

### **PROJECT EXPENDITURE AND FUNDING**

#### **Expenditure (in 000's):**

	Prior Approvals	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	Total
<b>Service Partner - Request</b>	<b>\$5,531</b>	<b>\$1,698</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$7,229</b>
<b>Service Partner - Forecast</b>	\$0	\$0	\$1,585	\$1,395	\$1,475	\$1,740	\$1,988	\$2,094	\$2,094	\$2,094	\$2,094	\$16,559
<b>Total</b>	\$5,531	\$1,698	\$1,585	\$1,395	\$1,475	\$1,740	\$1,988	\$2,094	\$2,094	\$2,094	\$2,094	\$23,788

#### **Funding (in 000's):**

	Prior Approvals	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	Total
<b>Contribution from DC Reserves Tax</b>	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
<b>Contribution from DC Paramedics Reserve</b>	\$2,510	\$728	\$732	\$888	\$860	\$870	\$819	\$814	\$814	\$814	\$814	\$10,664
<b>Contribution from Simcoe County Capital Reserve</b>	\$3,021	\$970	\$853	\$507	\$615	\$870	\$1,169	\$1,280	\$1,280	\$1,280	\$1,280	\$13,124
<b>Contribution from Reserves</b>	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
<b>Total</b>	\$5,531	\$1,698	\$1,585	\$1,395	\$1,475	\$1,740	\$1,988	\$2,094	\$2,094	\$2,094	\$2,094	\$23,788

Expense amounts in **bold text** – 2021 Budget Request

Expense amounts in shaded text – Previously Committed Funding

## 2021 Capital Project Detail Report

**Project Title:** County of Simcoe Capital Program - Social Housing & Community Services

**Project Number:** F11020

**Department:** Finance Department

**Rationale:** The City of Barrie is party to an agreement with the County of Simcoe that requires the City to contribute funding toward the County's capital plan on a prescribed basis. This project reflects the County's 10 year Capital Plan, as it relates to social housing and community services, at the time of budget preparation. The plan is subject to change.

### **PROJECT EXPENDITURE AND FUNDING**

#### **Expenditure (in 000's):**

	Prior Approvals	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	Total
<b>Service Partner - Request</b>	<b>\$5,521</b>	<b>\$1,826</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$7,347</b>
<b>Service Partner - Forecast</b>	\$0	\$0	\$2,252	\$2,685	\$2,965	\$2,873	\$2,977	\$2,826	\$2,826	\$2,826	\$2,826	\$25,056
<b>Total</b>	\$5,521	\$1,826	\$2,252	\$2,685	\$2,965	\$2,873	\$2,977	\$2,826	\$2,826	\$2,826	\$2,826	\$32,403

#### **Funding (in 000's):**

	Prior Approvals	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	Total
<b>Contribution from DC Reserves Tax</b>	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
<b>Contribution from DC Social Housing Reserve</b>	\$3,538	\$1,405	\$1,689	\$2,014	\$2,400	\$2,298	\$2,165	\$2,153	\$2,153	\$2,153	\$2,153	\$24,122
<b>Contribution from Simcoe County Capital Reserve</b>	\$1,983	\$421	\$563	\$671	\$565	\$575	\$812	\$673	\$673	\$673	\$673	\$8,281
<b>Contribution from Reserves</b>	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
<b>Total</b>	\$5,521	\$1,826	\$2,252	\$2,685	\$2,965	\$2,873	\$2,977	\$2,826	\$2,826	\$2,826	\$2,826	\$32,403

Expense amounts in **bold text** – 2021 Budget Request

Expense amounts in shaded text – Previously Committed Funding

## 2021 Capital Project Detail Report

**Project Title:** ERP Sustainment Program

**Project Number:** CC1000

**Department:** Finance Department

**Rationale:** The new SAP system is slated to go live in 2018, which additional functionality going live in 2019. This system will house the City's, Police, BIA, LSRA and the Library's financial, procurement and HR information. It also contains the City's new business intelligence system (reporting system). We will continue to grow our knowledge base internally and train our staff. However, SAP is a very complex system and external support will be required for at least 3-5 years post-launch to ensure that any problems that cannot be solved by internal staff will be remedied quickly and that we have support for software upgrades and patches.

### **PROJECT EXPENDITURE AND FUNDING**

#### **Expenditure (in 000's):**

	<b>Prior Approvals</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>2030</b>	<b>Total</b>
<b>Execute - Request</b>	<b>\$1,900</b>	<b>\$350</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$2,250</b>
<b>Execute - Forecast</b>	\$0	\$0	\$350	\$350	\$350	\$350	\$350	\$0	\$0	\$0	\$0	\$1,750
<b>Total</b>	\$1,900	\$350	\$350	\$350	\$350	\$350	\$350	\$0	\$0	\$0	\$0	\$4,000

#### **Funding (in 000's):**

	<b>Prior Approvals</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>2030</b>	<b>Total</b>
<b>Contribution from Tax Capital Reserve</b>	\$1,045	\$193	\$193	\$193	\$193	\$193	\$193	\$0	\$0	\$0	\$0	\$2,200
<b>Contribution from WW Capital Reserve</b>	\$380	\$70	\$70	\$70	\$70	\$70	\$70	\$0	\$0	\$0	\$0	\$800
<b>Contribution from Water Capital Reserve</b>	\$380	\$70	\$70	\$70	\$70	\$70	\$70	\$0	\$0	\$0	\$0	\$800
<b>Contribution from Parking Capital Reserve</b>	\$95	\$18	\$18	\$18	\$18	\$18	\$18	\$0	\$0	\$0	\$0	\$200
<b>Total</b>	\$1,900	\$350	\$350	\$350	\$350	\$350	\$350	\$0	\$0	\$0	\$0	\$4,000

Expense amounts in **bold text** – 2021 Budget Request

Expense amounts in shaded text – Previously Committed Funding

## 2021 Capital Project Detail Report

**Project Title:** Stormwater Climate Action Fund

**Project Number:** FI1024

**Department:** Finance Department

**Rationale:** This project is dedicated to the creation of a revenue stream to fund Stormwater infrastructure that is equitable to all residents, versus the traditional approach of using property tax that are based on assessed property value. Assessed property value poorly correlates to consumption (or demand) of stormwater infrastructure.

This steady revenue stream allows for more certainty when planning stormwater infrastructure improvements as well as providing flexibility to develop more efficient operation and maintenance programs of larger scope to leverage economies of scale. Which will in turn, mitigate flooding and public health and safety risks.

### **PROJECT EXPENDITURE AND FUNDING**

#### **Expenditure (in 000's):**

	<b>Prior Approvals</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>2030</b>	<b>Total</b>
<b>Study - Request</b>	<b>\$467</b>	<b>\$467</b>	<b>\$467</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$1,400</b>
<b>Total</b>	\$467	\$467	\$467	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,400

#### **Funding (in 000's):**

	<b>Prior Approvals</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>2030</b>	<b>Total</b>
<b>Contribution from Tax Capital Reserve</b>	\$467	\$467	\$467	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,400
<b>Total</b>	\$467	\$467	\$467	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,400

Expense amounts in **bold text** – 2021 Budget Request

Expense amounts in shaded text – Previously Committed Funding

## 2021 Capital Project Detail Report

**Project Title:** Anne Street Right of Way Expansion - Wellington to Edgehill (outside of CAH limits)

**Project Number:** EN1323

**Department:** Infrastructure Department

**Rationale:** MTO is presently undertaking detailed design for this project and is planning to initiate construction in 2020. This work is required to ensure that improvements are extended to logical termination points. This also achieves economies of scale by including this work with MTO's planned improvements within CAH limits.

### **PROJECT EXPENDITURE AND FUNDING**

#### **Expenditure (in 000's):**

	<b>Prior Approvals</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>2030</b>	<b>Total</b>
<b>Design - Request</b>	<b>\$95</b>	<b>\$200</b>	<b>\$210</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$505</b>
<b>Property - Request</b>	\$0	\$0	\$192	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$192
<b>Utilities - Forecast</b>	\$0	\$0	\$307	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$307
<b>Construction - Forecast</b>	\$0	\$0	\$0	\$1,552	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,552
<b>Total</b>	\$95	\$200	\$709	\$1,552	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$2,555

#### **Funding (in 000's):**

	<b>Prior Approvals</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>2030</b>	<b>Total</b>
<b>Contribution from DC Reserves Tax</b>	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
<b>Contribution from DC Roads Reserve</b>	\$62	\$130	\$461	\$1,009	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,661
<b>Contribution from DC Stormwater FMB Reserve</b>	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
<b>Contribution from Tax Capital Reserve</b>	\$33	\$70	\$248	\$543	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$894
<b>Total</b>	\$95	\$200	\$709	\$1,552	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$2,555

Expense amounts in **bold text** – 2021 Budget Request

Expense amounts in shaded text – Previously Committed Funding



## 2021 Capital Project Detail Report

**Project Title:** Anne Street Right of Way Expansion - Wellington to Edgehill (within CAH limits)

**Project Number:** EN1322

**Department:** Infrastructure Department

**Rationale:** MTO is reconstructing the Anne Street crossing to accommodate the planned expansion of Highway 400 to 10 lanes. The City's TMP identified the need for an additional turning lane, cycling lanes and sidewalks. The City has committed to build the additional infrastructure with MTO's reconstruction project as a joint effort to achieve economies of scale. This approach results in significant cost avoidance as compared to completing the identified works as a separate project.

### **PROJECT EXPENDITURE AND FUNDING**

#### **Expenditure (in 000's):**

	<b>Prior Approvals</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>2030</b>	<b>Total</b>
<b>Design - Request</b>	<b>\$191</b>	<b>\$74</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$266</b>
<b>Construction - Request</b>	<b>\$0</b>	<b>\$83</b>	<b>\$600</b>	<b>\$3,073</b>	<b>\$3,073</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$6,830</b>
<b>Total</b>	<b>\$191</b>	<b>\$157</b>	<b>\$600</b>	<b>\$3,073</b>	<b>\$3,073</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$7,095</b>

#### **Funding (in 000's):**

	<b>Prior Approvals</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>2030</b>	<b>Total</b>
<b>Contribution from DC Reserves Tax</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>
<b>Contribution from DC Roads Reserve</b>	<b>\$124</b>	<b>\$102</b>	<b>\$390</b>	<b>\$1,998</b>	<b>\$1,998</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$4,612</b>
<b>Contribution from Tax Capital Reserve</b>	<b>\$67</b>	<b>\$55</b>	<b>\$210</b>	<b>\$1,076</b>	<b>\$1,076</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$2,483</b>
<b>Total</b>	<b>\$191</b>	<b>\$157</b>	<b>\$600</b>	<b>\$3,073</b>	<b>\$3,073</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$7,095</b>

Expense amounts in **bold text** – 2021 Budget Request

Expense amounts in shaded text – Previously Committed Funding

## 2021 Capital Project Detail Report

**Project Title:** Bayview Drive New Transmission Watermain & Road Expansion - Little Avenue to Big Bay Point Road

**Project Number:** EN1288

**Department:** Infrastructure Department

**Rationale:** The Multi-Modal Active Transportation Master Plan identified the need to widen the existing 2-lane rural cross-section to 3-lanes. A Schedule C Environment Assessment has identified the need for 3-lanes, bike lanes and sidewalk as the preferred alternative. Widening of this link will reinforce the transportation network supporting the Harvie Road / Big Bay Point Road Highway Crossing.

The existing 300mm trunk watermain has been identified for replacement due to corrosion and upsizing requirements to accommodate intensification and growth in the Secondary Plan Lands.

The road widening project is identified in the Council endorsed Multi-Modal Active Transportation Master Plan. The replacement transmission watermain is identified in the Council endorsed Water Storage and Distribution Master Plan.

# **PROJECT EXPENDITURE AND FUNDING**

## **Expenditure (in 000's):**

	<b>Prior Approvals</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>2030</b>	<b>Total</b>
<b>Design - Request</b>	<b>\$1,473</b>	<b>\$648</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$2,121</b>
<b>Property - Request</b>	\$0	\$0	\$205	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$205
<b>Utilities - Forecast</b>	\$0	\$0	\$0	\$491	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$491
<b>Construction - Forecast</b>	\$0	\$0	\$0	\$0	\$3,352	\$3,927	\$982	\$0	\$0	\$0	\$0	\$8,261
<b>Total</b>	<b>\$1,473</b>	<b>\$648</b>	<b>\$205</b>	<b>\$491</b>	<b>\$3,352</b>	<b>\$3,927</b>	<b>\$982</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$11,078</b>

## **Funding (in 000's):**

	<b>Prior Approvals</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>2030</b>	<b>Total</b>
<b>Contribution from DC Reserves Tax</b>	\$921	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$921
<b>Contribution from DC Reserves Water</b>	\$87	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$87
<b>Contribution from DC Roads Reserve</b>	\$0	\$272	\$100	\$240	\$1,414	\$1,915	\$479	\$0	\$0	\$0	\$0	\$4,419
<b>Contribution from DC Stormwater FMB Reserve</b>	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
<b>Contribution from DC Water Dist FMB Reserve</b>	\$0	\$52	\$10	\$23	\$223	\$186	\$46	\$0	\$0	\$0	\$0	\$540
<b>Contribution from DC WW Collection FMB Reserve</b>	\$0	\$46	\$12	\$30	\$283	\$236	\$59	\$0	\$0	\$0	\$0	\$667
<b>Contribution from Tax Capital Reserve</b>	\$464	\$147	\$54	\$129	\$761	\$1,031	\$258	\$0	\$0	\$0	\$0	\$2,844
<b>Contribution from WW Capital Reserve</b>	\$0	\$61	\$16	\$39	\$375	\$313	\$78	\$0	\$0	\$0	\$0	\$884
<b>Contribution from Water Capital Reserve</b>	\$0	\$70	\$13	\$31	\$295	\$246	\$62	\$0	\$0	\$0	\$0	\$716
<b>Total</b>	<b>\$1,473</b>	<b>\$648</b>	<b>\$205</b>	<b>\$491</b>	<b>\$3,352</b>	<b>\$3,927</b>	<b>\$982</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$11,078</b>

Expense amounts in **bold text** – 2021 Budget Request

Expense amounts in shaded text – Previously Committed Funding

## 2021 Capital Project Detail Report

**Project Title:** Big Bay Point Rd., Painswick Bridge B Rehabilitation- (Metrolinx Corridor)- Ashford to Pine

**Project Number:** EN1324

**Department:** Infrastructure Department

**Rationale:** Structural inspection has shown the Painswick Bridge “B” requires construction rehabilitation and a conversion to semi-integral design to reduce the risk of structural failure. The proposed timing allows for the City's rehabilitation to proceed in advance of Metrolinx's project to electrify the rail corridor. Proceeding with this proposal will mitigate increases in repair costs. Furthermore, capital expenditures will be reduced by completing the project prior to Metrolinx construction. Given the age and risk of further deterioration to the substructure, other lifecycle strategies (status quo, do nothing/run to failure, operate/maintain differently, repair, or replace) are not as cost effective and/or not expected to significantly extend the existing life of the asset.

### **PROJECT EXPENDITURE AND FUNDING**

#### **Expenditure (in 000's):**

	<b>Prior Approvals</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>2030</b>	<b>Total</b>
<b>Design - Request</b>	\$260	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$260
<b>Construction - Forecast</b>	\$0	\$0	\$1,609	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,609
<b>Total</b>	\$260	\$0	\$1,609	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,869

#### **Funding (in 000's):**

	<b>Prior Approvals</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>2030</b>	<b>Total</b>
<b>Contribution from Tax Capital Reserve</b>	\$260	\$0	\$1,609	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,869
<b>Total</b>	\$260	\$0	\$1,609	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,869

Expense amounts in **bold text** – 2021 Budget Request

Expense amounts in shaded text – Previously Committed Funding

## 2021 Capital Project Detail Report

**Project Title:** Big Bay Point Road Booster Station VFD Upgrade

**Project Number:** EN1150

**Department:** Infrastructure Department

**Rationale:** The existing mechanical equipment is nearing the end of useful service life providing an opportunity to evaluate potential upgrades. The recommended upgrades include replacement of current pump starters with VFD's, retrofit pump motors, and revision of SCADA programming of pump motors. The proposed upgrades will increase energy efficiency, flow control and overall booster station operability.

### **PROJECT EXPENDITURE AND FUNDING**

#### **Expenditure (in 000's):**

	<b>Prior Approvals</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>2030</b>	<b>Total</b>
<b>Design - Request</b>	<b>\$705</b>	<b>\$75</b>	<b>\$100</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$880</b>
<b>Construction - Request</b>	(\$548)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	(\$548)
<b>Total</b>	\$157	\$75	\$100	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$332

#### **Funding (in 000's):**

	<b>Prior Approvals</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>2030</b>	<b>Total</b>
<b>Contribution from Water Capital Reserve</b>	\$157	\$75	\$100	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$332
<b>Total</b>	\$157	\$75	\$100	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$332

Expense amounts in **bold text** – 2021 Budget Request

Expense amounts in shaded text – Previously Committed Funding

## 2021 Capital Project Detail Report

**Project Title:** Big Bay Point Road ROW Expansion - Bayview to Huronia

**Project Number:** EN1286

**Department:** Infrastructure Department

**Rationale:** The Transportation Master Plan identified the need to construct a highway crossing at Harvie Road / Big Bay Point Road to accommodate existing traffic volumes and planned growth in the Secondary Plan Lands. The construction of this link is needed in conjunction with the Harvie Road / Big Bay Point Road Highway Crossing to provide 5-lanes continuously on Big Bay Point Road from Bayview Drive (east terminus of crossing project) to Huronia Road.

The existing 2-lane rural cross-section is not sufficient to accommodate traffic volumes associated with the planned highway crossing. The City has completed a Schedule C Environmental Assessment; expansion to 5-lanes, buffered bike lanes and sidewalk is identified as the preferred solution. Elements of the improvements were constructed as part of the Harvie Crossing tender.

# **PROJECT EXPENDITURE AND FUNDING**

## **Expenditure (in 000's):**

	Prior Approvals	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	Total
Design - Request	\$1,222	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,222
Property - Request	<b>\$1,220</b>	<b>\$133</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$1,352</b>
Utilities - Request	<b>\$1,108</b>	<b>\$244</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$1,351</b>
Construction - Request	<b>\$1,267</b>	<b>\$1,197</b>	<b>\$5,295</b>	<b>\$3,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$10,759</b>
Property - Forecast	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Utilities - Forecast	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Construction - Forecast	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Total	\$4,816	\$1,573	\$5,295	\$3,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$14,684

## **Funding (in 000's):**

	Prior Approvals	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	Total
Debenture Proceeds - DCs	\$813	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$813
Contribution from DC Reserves Tax	\$814	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$814
Contribution from DC Roads Reserve	\$720	\$638	\$3,010	\$1,950	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$6,318
Contribution from DC Stormwater FMB Reserve	\$834	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$834
Contribution from DC Water Dist FMB Reserve	\$0	\$303	\$432	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$735
Contribution from DC WW Collection FMB Reserve	\$0	\$82	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$82
Contribution from Tax Capital Reserve	\$1,634	\$343	\$1,621	\$1,050	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$4,648
Contribution from WW Capital Reserve	\$0	\$44	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$44
Contribution from Water Capital Reserve	\$0	\$163	\$233	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$396
Total	\$4,816	\$1,573	\$5,295	\$3,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$14,684

Expense amounts in **bold text** – 2021 Budget Request

Expense amounts in shaded text – Previously Committed Funding

## 2021 Capital Project Detail Report

**Project Title:** Bishop Drive Trunk Sanitary Sewer Expansion - Ferndale to Patterson

**Project Number:** EN1132

**Department:** Infrastructure Department

**Rationale:** The flow diversions need to be completed to minimize the likelihood of sewer back up into residential properties. The upstream flow diversions proposed will be a cost-effective long-term approach that will maintain levels of service and decrease the risk of sewer backups.

### **PROJECT EXPENDITURE AND FUNDING**

#### **Expenditure (in 000's):**

	<b>Prior Approvals</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>2030</b>	<b>Total</b>
<b>Design - Request</b>	<b>\$295</b>	<b>\$168</b>	<b>\$168</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$630</b>
<b>Utilities - Forecast</b>	\$0	\$0	\$509	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$509
<b>Construction - Forecast</b>	\$0	\$0	\$0	\$1,227	\$1,227	\$0	\$0	\$0	\$0	\$0	\$0	\$2,454
<b>CSR - Request</b>	\$23	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$23
<b>Total</b>	\$317	\$168	\$677	\$1,227	\$1,227	\$0	\$0	\$0	\$0	\$0	\$0	\$3,615

#### **Funding (in 000's):**

	<b>Prior Approvals</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>2030</b>	<b>Total</b>
<b>Contribution from Development Charge Reserves</b>	\$16	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$16
<b>Contribution from DC Reserves Tax</b>	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
<b>Contribution from DC Reserves Wastewater</b>	\$2	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$2
<b>Contribution from DC Stormwater FMB Reserve</b>	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
<b>Contribution from DC WW Collection FMB Reserve</b>	\$14	\$72	\$291	\$528	\$528	\$0	\$0	\$0	\$0	\$0	\$0	\$1,432
<b>Contribution from Tax Capital Reserve</b>	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
<b>Contribution from WW Capital Reserve</b>	\$285	\$95	\$386	\$699	\$699	\$0	\$0	\$0	\$0	\$0	\$0	\$2,165
<b>Total</b>	\$317	\$168	\$677	\$1,227	\$1,227	\$0	\$0	\$0	\$0	\$0	\$0	\$3,615

Expense amounts in **bold text** – 2021 Budget Request

Expense amounts in shaded text – Previously Committed Funding



## 2021 Capital Project Detail Report

**Project Title:** Bryne Drive and Commerce Park Drive Right of Way Expansion

**Project Number:** Z445

**Department:** Infrastructure Department

**Rationale:** The project is required to address poor road condition and traffic operations that will worsen once Harvie/Big Bay crossing and Bryne Drive Extension are constructed.

### **PROJECT EXPENDITURE AND FUNDING**

#### **Expenditure (in 000's):**

	Prior Approvals	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	Total
Construction - Request	\$0	\$927	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$927
Environmental Assessment - Forecast	\$0	\$0	\$0	\$0	\$0	\$289	\$289	\$0	\$0	\$0	\$0	\$578
PreDesign - Forecast	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$234	\$0	\$0	\$0	\$234
Design - Forecast	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$391	\$391	\$0	\$782
Property - Forecast	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$3,050	\$3,050
<b>Total</b>	\$0	\$927	\$0	\$0	\$0	\$289	\$289	\$234	\$391	\$391	\$3,050	\$5,571

#### **Funding (in 000's):**

	Prior Approvals	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	Total
Developer Contributions	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Contribution from Development Charge Reserves	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Contribution from DC Reserves Tax	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Contribution from DC Roads Reserve	\$0	\$603	\$0	\$0	\$0	\$188	\$188	\$152	\$166	\$166	\$1,983	\$3,446
Contribution from DC Stormwater FMB Reserve	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$61	\$61	\$0	\$122
Contribution from Tax Capital Reserve	\$0	\$324	\$0	\$0	\$0	\$101	\$101	\$82	\$164	\$164	\$1,068	\$2,004
<b>Total</b>	\$0	\$927	\$0	\$0	\$0	\$289	\$289	\$234	\$391	\$391	\$3,050	\$5,571

Expense amounts in **bold text** – 2021 Budget Request

Expense amounts in shaded text – Previously Committed Funding

## 2021 Capital Project Detail Report

**Project Title:** Bryne Drive New Road Construction - Harvie to North of Caplan

**Project Number:** EN1277

**Department:** Infrastructure Department

**Rationale:** The 2013 Council endorsed Transportation Master Plan and Bryne ESR identified the need to construct a highway crossing at Harvie Road / Big Bay Point Road to reduce congestion in the south end of Barrie and to accommodate planned growth. The completion of Bryne Drive from Caplan to Harvie is needed to reduce traffic congestion at the Essa and Mapleview Drive interchanges by redirecting east / west traffic to the Harvie Road / Big Bay Point Road Highway Crossing.

The City has completed a Schedule C Environmental Assessment to determine the preferred alternative for implementation. The project is identified in the Council endorsed Transportation Master Plan

The segment of Bryne immediately south of Harvie was constructed as part of the Harvie Crossing works.

# PROJECT EXPENDITURE AND FUNDING

## Expenditure (in 000's):

	Prior Approvals	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	Total
Design - Request	\$1,045	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,045
Property - Request	<b>\$1,036</b>	<b>\$397</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$1,433</b>
Utilities - Request	<b>\$357</b>	<b>\$601</b>	<b>\$600</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$1,558</b>
Construction - Request	\$667	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$667
Construction - Forecast	\$0	\$0	\$2,054	\$4,107	\$2,913	\$0	\$0	\$0	\$0	\$0	\$0	\$9,075
Total	\$3,106	\$998	\$2,654	\$4,107	\$2,913	\$0	\$0	\$0	\$0	\$0	\$0	\$13,778

## Funding (in 000's):

	Prior Approvals	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	Total
Contribution from Development Charge Reserves	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Contribution from DC Reserves Tax	\$555	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$555
Contribution from DC Roads Reserve	\$1,034	\$586	\$1,643	\$2,505	\$1,729	\$0	\$0	\$0	\$0	\$0	\$0	\$7,497
Contribution from DC Stormwater FMB Reserve	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Contribution from DC Water Dist FMB Reserve	\$0	\$48	\$126	\$253	\$253	\$0	\$0	\$0	\$0	\$0	\$0	\$681
Contribution from DC WW Collection FMB Reserve	\$0	\$48	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$48
Contribution from Tax Capital Reserve	\$1,517	\$316	\$885	\$1,349	\$931	\$0	\$0	\$0	\$0	\$0	\$0	\$4,997
Total	\$3,106	\$998	\$2,654	\$4,107	\$2,913	\$0	\$0	\$0	\$0	\$0	\$0	\$13,778

Expense amounts in **bold text** – 2021 Budget Request

Expense amounts in shaded text – Previously Committed Funding

## 2021 Capital Project Detail Report

**Project Title:** Codrington Street and Lakeview Crescent ROW Replacement - Duckworth to Weldon

**Project Number:** EN1453

**Department:** Infrastructure Department

**Rationale:** The pavement condition is considered to be poor to very poor and the remainder of the buried infrastructure is at or approaching its maximum potential life. The watermains, storm sewer and sanitary sewers were all installed between 1946 and 1965 and all require replacement. The pavement structure has also reached its maximum potential life and requires replacement during construction.

### **PROJECT EXPENDITURE AND FUNDING**

#### **Expenditure (in 000's):**

	<b>Prior Approvals</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>2030</b>	<b>Total</b>
<b>PreDesign - Request</b>	\$45	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$45
<b>Design - Request</b>	<b>\$0</b>	<b>\$413</b>	<b>\$413</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$825</b>
<b>Utilities - Forecast</b>	\$0	\$0	\$0	\$860	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$860
<b>Construction - Forecast</b>	\$0	\$0	\$0	\$0	\$2,236	\$2,236	\$2,236	\$0	\$0	\$0	\$0	\$6,707
<b>Total</b>	\$45	\$413	\$413	\$860	\$2,236	\$2,236	\$2,236	\$0	\$0	\$0	\$0	\$8,437

#### **Funding (in 000's):**

	<b>Prior Approvals</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>2030</b>	<b>Total</b>
<b>Developer Contributions</b>	\$0	\$0	\$0	\$1	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1
<b>Contribution from Tax Capital Reserve</b>	\$45	\$289	\$289	\$859	\$1,425	\$1,425	\$1,425	\$0	\$0	\$0	\$0	\$5,756
<b>Contribution from WW Capital Reserve</b>	\$0	\$62	\$62	\$0	\$306	\$306	\$306	\$0	\$0	\$0	\$0	\$1,042
<b>Contribution from Water Capital Reserve</b>	\$0	\$62	\$62	\$0	\$505	\$505	\$505	\$0	\$0	\$0	\$0	\$1,638
<b>Total</b>	\$45	\$413	\$413	\$860	\$2,236	\$2,236	\$2,236	\$0	\$0	\$0	\$0	\$8,437

Expense amounts in **bold text** – 2021 Budget Request

Expense amounts in shaded text – Previously Committed Funding

## 2021 Capital Project Detail Report

**Project Title:** Dunlop Street Bridge Sanitary - Sarjeant Drive to Anne Street

**Project Number:** 001018

**Department:** Infrastructure Department

**Rationale:** The MTO is replacing the Dunlop Street Interchange; this presents a unique opportunity for the City to cooperatively work with the MTO to construct additional infrastructure required to accommodate planned growth to 2041 in a manner that will reduce costs by pursuing a strategy that only includes key infrastructure elements that must be constructed with the MTO's planned project (wider highway crossing structure), while deferring elements that can be delayed (full corridor widening and intersection improvements at Dunlop Street and Anne Street).

Given the excessive skew of Dunlop Street relative to Highway 400 and considerable property constraints impacting interchange ramp geometry, deferring the widening of the structure would result in prohibitive costs that would likely eliminate the future ability to widen the highway crossing structure.

### **PROJECT EXPENDITURE AND FUNDING**

#### **Expenditure (in 000's):**

	Prior Approvals	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	Total
Design - Request	\$0	\$1,208	\$1,000	\$1,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$3,208
Utilities - Forecast	\$0	\$0	\$0	\$0	\$0	\$2,846	\$0	\$0	\$0	\$0	\$0	\$2,846
Construction - Forecast	\$0	\$0	\$0	\$0	\$0	\$0	\$9,018	\$9,018	\$9,018	\$0	\$0	\$27,054
<b>Total</b>	\$0	\$1,208	\$1,000	\$1,000	\$0	\$2,846	\$9,018	\$9,018	\$9,018	\$0	\$0	\$33,109

#### **Funding (in 000's):**

	Prior Approvals	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	Total
Contribution from DC WW Collection FMB Reserve	\$0	\$785	\$650	\$650	\$0	\$1,850	\$5,862	\$5,862	\$5,862	\$0	\$0	\$21,521
Contribution from WW Capital Reserve	\$0	\$423	\$350	\$350	\$0	\$996	\$3,156	\$3,156	\$3,156	\$0	\$0	\$11,588
<b>Total</b>	\$0	\$1,208	\$1,000	\$1,000	\$0	\$2,846	\$9,018	\$9,018	\$9,018	\$0	\$0	\$33,109

Expense amounts in **bold text** – 2021 Budget Request

Expense amounts in shaded text – Previously Committed Funding

## 2021 Capital Project Detail Report

**Project Title:** Dunlop Street East Corridor Improvements - Toronto to Mulcaster

**Project Number:** EN1167

**Department:** Infrastructure Department

**Rationale:** The Class Environmental Assessment reviewed alternatives to provide a more equitable allocation of road space between all modes of transport in the downtown core. The Preferred Alternative (Reconfigurable Street) has been approved by Council. This option consists of two-way traffic, a reconfigurable boulevard that can be used for pedestrian space or parking and wider permanent sidewalks adjacent to the buildings. Construction work will be coordinated to minimize disruption during the peak summer patio and festival season.

### **PROJECT EXPENDITURE AND FUNDING**

#### **Expenditure (in 000's):**

	<b>Prior Approvals</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>2030</b>	<b>Total</b>
<b>Design - Request</b>	\$540	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$540
<b>Utilities - Request</b>	\$232	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$232
<b>Construction - Request</b>	<b>\$13,908</b>	<b>\$1,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$14,908</b>
<b>Total</b>	\$14,680	\$1,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$15,680

#### **Funding (in 000's):**

	<b>Prior Approvals</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>2030</b>	<b>Total</b>
<b>Debenture Proceeds - Tax</b>	\$4,500	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$4,500
<b>Government of Canada Grant Revenue</b>	\$155	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$155
<b>Other Grant Revenues</b>	\$300	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$300
<b>Contribution from Tourism Reserve</b>	\$345	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$345
<b>Contribution from Tax Capital Reserve</b>	\$8,822	\$988	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$9,810
<b>Contribution from WW Capital Reserve</b>	\$113	\$2	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$115
<b>Contribution from Water Capital Reserve</b>	\$445	\$10	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$455
<b>Total</b>	\$14,680	\$1,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$15,680

Expense amounts in **bold text** – 2021 Budget Request

Expense amounts in shaded text – Previously Committed Funding

## 2021 Capital Project Detail Report

**Project Title:** Dunlop Street Interchange Replacement - Sarjeant Drive to Anne Street

**Project Number:** EN1306

**Department:** Infrastructure Department

**Rationale:** The MTO is replacing the Dunlop Street Interchange; this presents a unique opportunity for the City to cooperatively work with the MTO to construct additional infrastructure required to accommodate planned growth to 2041 in a manner that will reduce costs by pursuing a strategy that only includes key infrastructure elements that must be constructed with the MTO's planned project (wider highway crossing structure), while deferring elements that can be delayed (full corridor widening and intersection improvements at Dunlop Street and Anne Street).

Given the excessive skew of Dunlop Street relative to Highway 400 and considerable property constraints impacting interchange ramp geometry, deferring the widening of the structure would result in prohibitive costs that would likely eliminate the future ability to widen the highway crossing structure.

### **PROJECT EXPENDITURE AND FUNDING**

#### **Expenditure (in 000's):**

	Prior Approvals	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	Total
Environmental Assessment - Request	\$374	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$374
Design - Request	<b>\$821</b>	<b>\$351</b>	<b>\$500</b>	<b>\$800</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$2,472</b>
Property - Forecast	\$0	\$0	\$0	\$451	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$451
Utilities - Forecast	\$0	\$0	\$0	\$0	\$0	\$1,781	\$0	\$0	\$0	\$0	\$0	\$1,781
Construction - Forecast	\$0	\$0	\$0	\$0	\$0	\$0	\$7,038	\$7,038	\$7,038	\$0	\$0	\$21,113
<b>Total</b>	<b>\$1,194</b>	<b>\$351</b>	<b>\$500</b>	<b>\$1,251</b>	<b>\$0</b>	<b>\$1,781</b>	<b>\$7,038</b>	<b>\$7,038</b>	<b>\$7,038</b>	<b>\$0</b>	<b>\$0</b>	<b>\$26,190</b>

#### **Funding (in 000's):**

	Prior Approvals	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	Total
Contribution from DC Reserves Tax	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Contribution from DC Roads Reserve	\$542	\$228	\$325	\$813	\$0	\$1,158	\$4,575	\$4,575	\$4,575	\$0	\$0	\$16,789
Contribution from DC WW Collection FMB Reserve	\$155	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$155
Contribution from Tax Capital Reserve	\$497	\$123	\$175	\$438	\$0	\$623	\$2,463	\$2,463	\$2,463	\$0	\$0	\$9,246
<b>Total</b>	<b>\$1,194</b>	<b>\$351</b>	<b>\$500</b>	<b>\$1,251</b>	<b>\$0</b>	<b>\$1,781</b>	<b>\$7,038</b>	<b>\$7,038</b>	<b>\$7,038</b>	<b>\$0</b>	<b>\$0</b>	<b>\$26,190</b>

Expense amounts in **bold text** – 2021 Budget Request

Expense amounts in shaded text – Previously Committed Funding

## 2021 Capital Project Detail Report

**Project Title:** Dunlop Street West ROW Replacement - Eccles to Toronto

**Project Number:** EN1071

**Department:** Infrastructure Department

**Rationale:** Kidds Creek currently experiences several issues including flooding through many areas of the watershed resulting in loss of use of property and property damage. Increased sedimentation and erosion problems have led to reduced conveyance capacity, a decline in water quality and the alteration of fish and wildlife habitat. The Kidds Creek Master Drainage Plan (MDP) identified improvements necessary to mitigate these issues. To reduce the potential for increased flooding downstream as improvements are made, the MDP recommended that conveyance improvements ideally start at the most downstream portions of the watershed and be implemented in sequential order upstream. The existing drainage system can typically only convey minor storm events at road crossings and channels. This project is at a key downstream location that must be improved before further improvements can be implemented upstream. Fire Station #1 is also located in this flood area and access to Dunlop Street east for emergency response is restricted during local flooding events.

In addition to the drainage concerns, Dunlop Street from Eccles Street to Toronto Street has deficient road surface conditions and the sanitary sewer is in poor structural condition and requires replacement.

The City of Barrie has been approved for a grant under Intake 4 of the National Disaster Mitigation Program (NDMP) in the amount of \$1.5 million for the construction phase of this project, which has to be used by March 31, 2020.



# **PROJECT EXPENDITURE AND FUNDING**

## **Expenditure (in 000's):**

	<b>Prior Approvals</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>2030</b>	<b>Total</b>
<b>Design - Request</b>	\$762	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$762
<b>Property - Request</b>	\$4,300	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$4,300
<b>Construction - Request</b>	<b>\$7,863</b>	<b>\$7,500</b>	<b>\$4,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$19,363</b>
<b>Total</b>	\$12,926	\$7,500	\$4,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$24,426

## **Funding (in 000's):**

	<b>Prior Approvals</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>2030</b>	<b>Total</b>
<b>Government of Canada Grant Revenue</b>	\$3,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$3,000
<b>Contribution from Federal Gas Tax Reserve</b>	\$4,667	\$1,411	\$282	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$6,360
<b>Contribution from Tax Capital Reserve</b>	\$4,682	\$5,577	\$1,873	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$12,132
<b>Contribution from WW Capital Reserve</b>	\$320	\$285	\$1,099	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,704
<b>Contribution from Water Capital Reserve</b>	\$255	\$228	\$746	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,229
<b>Total</b>	\$12,926	\$7,500	\$4,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$24,426

Expense amounts in **bold text** – 2021 Budget Request

Expense amounts in shaded text – Previously Committed Funding

## 2021 Capital Project Detail Report

**Project Title:** Dunlop, Poyntz and Berczy New Watermain and ROW Replacement - Codrington to Mulcaster

**Project Number:** EN1101

**Department:** Infrastructure Department

**Rationale:** The Water Storage and Distribution Master Plan identified the need for the transmission watermain which will provide connectivity between pressure Zone 1 and Zone 2N which is included in this project on Dunlop Street / Poyntz Street / Berczy Street. The Project also includes full roadway reconstruction including the replacement of storm and sanitary infrastructure, sidewalk replacement and streetlighting upgrades.

### **PROJECT EXPENDITURE AND FUNDING**

#### **Expenditure (in 000's):**

	<b>Prior Approvals</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>2030</b>	<b>Total</b>
<b>Design - Request</b>	\$826	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$826
<b>Construction - Request</b>	<b>\$2,260</b>	<b>\$2,770</b>	<b>\$1,221</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$6,251</b>
<b>Total</b>	\$3,086	\$2,770	\$1,221	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$7,077

#### **Funding (in 000's):**

	<b>Prior Approvals</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>2030</b>	<b>Total</b>
<b>Developer Contributions</b>	\$14	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$14
<b>Contribution from Development Charge Reserves</b>	\$48	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$48
<b>Contribution from DC Reserves Water</b>	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
<b>Contribution from DC Water Dist FMB Reserve</b>	\$75	\$250	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$325
<b>Contribution from Tax Capital Reserve</b>	\$1,758	\$1,770	\$831	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$4,359
<b>Contribution from WW Capital Reserve</b>	\$806	\$0	\$195	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,001
<b>Contribution from Water Capital Reserve</b>	\$386	\$750	\$195	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,331
<b>Total</b>	\$3,086	\$2,770	\$1,221	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$7,077

Expense amounts in **bold text** – 2021 Budget Request

Expense amounts in shaded text – Previously Committed Funding

## 2021 Capital Project Detail Report

**Project Title:** Dyments Creek New Storm Pond - North of Dunlop St. W

**Project Number:** EN1279

**Department:** Infrastructure Department

**Rationale:** All downstream road crossing projects are highly dependent upon the stormwater facility providing flow attenuation and reducing peak flow impacts. This will include flood protection for the City Wastewater Treatment Facility located at the outlet of Dyments Creek at Kempenfelt Bay, which would otherwise be vulnerable to flooding impacts resulting in MOE Non Compliance issues. Dyments Creek currently experiences a variety of issues including flooding through several areas of the watershed resulting in both loss of use of property and property damage, increased sedimentation and erosion problems leading to reduced conveyance capacities, a decline in water quality and the alteration of fish and wildlife habitat. The Dyments Creek Master Drainage Plan (2006) (MDP) was initiated to determine the conveyance improvements necessary to mitigate these issues. The study identified major peak flow conveyance deficiencies in the current creek infrastructure, and recommended strategic conveyance and stream water quality upgrades to support the present and future drainage servicing needs of the City and reduce flooding on private property. Flooding of approximately 30 buildings and private property throughout the watershed has been identified in the MDP. Stake holder meetings were held with City staff, Conservation Authority and property owners to discuss possible solutions and project opportunities through the Municipal Class EA Schedule "B" process. Solutions/recommendations have been adopted by Council and direction given to staff to proceed with implementation of the recommendations. The City is committed to meet all the requirements of the Lake Simcoe Protection Plan Policy 4.5 including determining and developing effective SWM works that will reduce negative impacts of stormwater on the environment. The Dyments Creek MDP and Class EA documents are available in the Engineering Department on the 6th Floor of City Hall.

**PROJECT EXPENDITURE AND FUNDING****Expenditure (in 000's):**

	<b>Prior Approvals</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>2030</b>	<b>Total</b>
<b>Design - Request</b>	<b>\$147</b>	<b>\$125</b>	<b>\$125</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$397</b>
<b>Property - Forecast</b>	\$0	\$0	\$900	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$900
<b>Utilities - Forecast</b>	\$0	\$0	\$0	\$669	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$669
<b>Construction - Forecast</b>	\$0	\$0	\$0	\$0	\$1,953	\$1,953	\$1,953	\$0	\$0	\$0	\$0	\$5,859
<b>CSR - Request</b>	\$92	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$92
<b>Total</b>	\$239	\$125	\$1,025	\$669	\$1,953	\$1,953	\$1,953	\$0	\$0	\$0	\$0	\$7,917

**Funding (in 000's):**

	<b>Prior Approvals</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>2030</b>	<b>Total</b>
<b>Contribution from Federal Gas Tax Reserve</b>	\$232	\$0	\$0	\$0	\$1,074	\$1,074	\$1,074	\$0	\$0	\$0	\$0	\$3,454
<b>Contribution from DC Stormwater FMB Reserve</b>	\$0	\$56	\$461	\$301	\$879	\$879	\$879	\$0	\$0	\$0	\$0	\$3,455
<b>Contribution from Tax Capital Reserve</b>	\$8	\$69	\$564	\$368	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,008
<b>Total</b>	\$239	\$125	\$1,025	\$669	\$1,953	\$1,953	\$1,953	\$0	\$0	\$0	\$0	\$7,917

Expense amounts in **bold text** – 2021 Budget Request

Expense amounts in shaded text – Previously Committed Funding

## 2021 Capital Project Detail Report

**Project Title:** End of Life Pavement Replacement Program

**Project Number:** EN1308

**Department:** Infrastructure Department

**Rationale:** The program will address Barrie's worst pavement surfaces by replacing the surfaces or managing localized trouble areas to help reduce continuous operational dependencies. There are many streets that require larger scale asphalt replacements but due to budget constraints, these repairs are usually avoided and left until reconstruction. Reconstruction is often years away or there may be no plans for reconstruction as subsurface infrastructure is still in acceptable condition. These road sections are beyond preservation or rehabilitation and require regular pothole patching and provide poor ride quality.

### **PROJECT EXPENDITURE AND FUNDING**

#### **Expenditure (in 000's):**

	Prior Approvals	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	Total
Design - Request	<b>\$70</b>	<b>\$25</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$95</b>
Construction - Request	<b>\$1,325</b>	<b>\$625</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$1,950</b>
Design - Forecast	\$0	\$0	\$30	\$30	\$30	\$30	\$30	\$30	\$30	\$30	\$30	\$270
Construction - Forecast	\$0	\$0	\$625	\$625	\$625	\$625	\$625	\$625	\$625	\$625	\$625	\$5,625
<b>Total</b>	<b>\$1,395</b>	<b>\$650</b>	<b>\$655</b>	<b>\$655</b>	<b>\$655</b>	<b>\$655</b>	<b>\$655</b>	<b>\$655</b>	<b>\$655</b>	<b>\$655</b>	<b>\$655</b>	<b>\$7,940</b>

#### **Funding (in 000's):**

	Prior Approvals	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	Total
Contribution from Federal Gas Tax Reserve	\$1,125	\$625	\$625	\$625	\$625	\$625	\$625	\$625	\$625	\$625	\$625	\$7,375
Contribution from Tax Capital Reserve	\$270	\$25	\$30	\$30	\$30	\$30	\$30	\$30	\$30	\$30	\$30	\$565
<b>Total</b>	<b>\$1,395</b>	<b>\$650</b>	<b>\$655</b>	<b>\$655</b>	<b>\$655</b>	<b>\$655</b>	<b>\$655</b>	<b>\$655</b>	<b>\$655</b>	<b>\$655</b>	<b>\$655</b>	<b>\$7,940</b>

Expense amounts in **bold text** – 2021 Budget Request

Expense amounts in shaded text – Previously Committed Funding

## 2021 Capital Project Detail Report

**Project Title:** Essa Road Expansion - Athabaska to Salem (Developer)

**Project Number:** EN1456

**Department:** Infrastructure Department

**Rationale:** This project encompasses work that will be completed on the stormwater, wastewater and road assets. The benefit of this project will result in providing:

- Service to future development of annexed lands as determined in the transportation master plan
- Sanitary services for future development along Salem Road and to the south secondary plan areas.
- An urbanized road cross-section which will convey runoff to storm outlets and draining to Bear Creek Tributary.

### **PROJECT EXPENDITURE AND FUNDING**

#### **Expenditure (in 000's):**

	<b>Prior Approvals</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>2030</b>	<b>Total</b>
<b>Design - Request</b>	<b>\$0</b>	<b>\$375</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$375</b>
<b>Total</b>	<b>\$0</b>	<b>\$375</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$375</b>

#### **Funding (in 000's):**

	<b>Prior Approvals</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>2030</b>	<b>Total</b>
<b>Developer Front Ending (Annex) - Developer Build</b>	<b>\$0</b>	<b>\$319</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$319</b>
<b>Debenture Proceeds - Tax</b>	<b>\$0</b>	<b>\$56</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$56</b>
<b>Total</b>	<b>\$0</b>	<b>\$375</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$375</b>

Expense amounts in **bold text** – 2021 Budget Request

Expense amounts in shaded text – Previously Committed Funding

## 2021 Capital Project Detail Report

**Project Title:** Essa Road Expansion - Mapleview to Athabaska (Developer)

**Project Number:** EN1455

**Department:** Infrastructure Department

**Rationale:** The Multi-Modal Active Transportation Master Plan identified the need to widen the existing 2-lane rural cross-section to a 3-lanes with buffered bike lanes and sidewalks. A Schedule C Environmental Assessment was completed.

### **PROJECT EXPENDITURE AND FUNDING**

#### **Expenditure (in 000's):**

	<b>Prior Approvals</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>2030</b>	<b>Total</b>
<b>Design - Request</b>	<b>\$0</b>	<b>\$225</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$225</b>
<b>Total</b>	<b>\$0</b>	<b>\$225</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$225</b>

#### **Funding (in 000's):**

	<b>Prior Approvals</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>2030</b>	<b>Total</b>
<b>Developer Front Ending (Annex) - Developer Build</b>	<b>\$0</b>	<b>\$191</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$191</b>
<b>Debenture Proceeds - Tax</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>
<b>Contribution from Tax Capital Reserve</b>	<b>\$0</b>	<b>\$34</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$34</b>
<b>Total</b>	<b>\$0</b>	<b>\$225</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$225</b>

Expense amounts in **bold text** – 2021 Budget Request

Expense amounts in shaded text – Previously Committed Funding

## 2021 Capital Project Detail Report

**Project Title:** Essa Road New Transmission Watermain - Athabaska to Salem (Developer)

**Project Number:** EN1275

**Department:** Infrastructure Department

**Rationale:** Increases in traffic volumes resulting from growth in the secondary plan area justify increasing the number of lanes and urbanizing Essa Road. This project only includes the trunk watermain needed to provide potable water and fire protection in Phase 1 of the Salem Secondary Plan. Funding for this project is partially front-ended by Developers to provide servicing required for Phase 1 of growth-related development in the secondary plan area.

### **PROJECT EXPENDITURE AND FUNDING**

#### **Expenditure (in 000's):**

	<b>Prior Approvals</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>2030</b>	<b>Total</b>
<b>Design - Request</b>	<b>\$760</b>	<b>(\$595)</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$165</b>
<b>Utilities - Request</b>	<b>\$0</b>	<b>\$118</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$118</b>
<b>Construction - Request</b>	\$1,509	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,509
<b>Total</b>	\$2,269	(\$477)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,792

#### **Funding (in 000's):**

	<b>Prior Approvals</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>2030</b>	<b>Total</b>
<b>Developer Front Ending (Annex) - Developer Build</b>	\$2,170	(\$378)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,792
<b>Debenture Proceeds - Tax</b>	\$73	(\$73)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
<b>Contribution from Development Charge Reserves</b>	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
<b>Contribution from Reserves</b>	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
<b>Contribution from Tax Capital Reserve</b>	\$25	(\$25)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
<b>Total</b>	\$2,269	(\$477)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,792

Expense amounts in **bold text** – 2021 Budget Request

Expense amounts in shaded text – Previously Committed Funding



## 2021 Capital Project Detail Report

**Project Title:** Essa Road Right of Way Expansion - Bryne to Fairview (outside of CAH limits)

**Project Number:** EN1015

**Department:** Infrastructure Department

**Rationale:** MTO is presently undertaking detailed design for this project and is planning to initiate construction in 2022. This work is required to ensure that improvements are extended to logical termination points. This also achieves economies of scale by including this work with MTO's planned improvements within CAH limits.

# **PROJECT EXPENDITURE AND FUNDING**

## **Expenditure (in 000's):**

	<b>Prior Approvals</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>2030</b>	<b>Total</b>
Environmental Assessment - Request	\$80	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$80
Design - Request	<b>\$5,319</b>	<b>\$946</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$6,265</b>
Property - Request	<b>\$0</b>	<b>\$747</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$747</b>
Utilities - Forecast	\$0	\$0	\$593	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$593
Construction - Forecast	\$0	\$0	\$0	\$4,302	\$4,302	\$0	\$0	\$0	\$0	\$0	\$0	\$8,604
<b>Total</b>	<b>\$5,399</b>	<b>\$1,693</b>	<b>\$593</b>	<b>\$4,302</b>	<b>\$4,302</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$16,289</b>

## **Funding (in 000's):**

	<b>Prior Approvals</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>2030</b>	<b>Total</b>
Developer Contributions	\$450	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$450
Debenture Proceeds - Tax	\$460	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$460
Contribution from Development Charge Reserves	\$2,970	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$2,970
Contribution from DC Reserves Tax	\$22	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$22
Contribution from DC Roads Reserve	\$184	\$1,101	\$385	\$2,796	\$2,796	\$0	\$0	\$0	\$0	\$0	\$0	\$7,262
Contribution from DC Stormwater FMB Reserve	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Contribution from DC WW Collection FMB Reserve	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Contribution from Revenue Fund	\$40	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$40
Contribution from Tax Capital Reserve	\$1,234	\$593	\$208	\$1,506	\$1,506	\$0	\$0	\$0	\$0	\$0	\$0	\$5,045
Contribution from WW Capital Reserve	\$41	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$41
Contribution from Water Capital Reserve	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
<b>Total</b>	<b>\$5,399</b>	<b>\$1,693</b>	<b>\$593</b>	<b>\$4,302</b>	<b>\$4,302</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$16,289</b>

Expense amounts in **bold text** – 2021 Budget Request

Expense amounts in shaded text – Previously Committed Funding

## 2021 Capital Project Detail Report

**Project Title:** Essa Road Right of Way Expansion - Bryne to Fairview (within CAH limits)

**Project Number:** EN1392

**Department:** Infrastructure Department

**Rationale:** The Ministry of Transportation (MTO) plans to reconstruct the Highway 400/Essa Road interchange beginning in 2022. The City's Transportation Master Plan identifies the need for additional lanes on Essa Road, and sidewalks. The City is collaborating with MTO to build the additional infrastructure as part of MTO's reconstruction project as a joint effort to achieve economies of scale. This approach results in significant cost avoidance as compared to completing the identified works as a separate project.

### **PROJECT EXPENDITURE AND FUNDING**

#### **Expenditure (in 000's):**

	Prior Approvals	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	Total
Design - Request	\$1,120	\$911	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$2,031
Utilities - Request	\$0	\$797	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$797
Construction - Forecast	\$0	\$0	\$6,488	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$6,488
<b>Total</b>	\$1,120	\$1,708	\$6,488	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$9,316

#### **Funding (in 000's):**

	Prior Approvals	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	Total
Contribution from DC Reserves Tax	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Contribution from DC Roads Reserve	\$728	\$1,110	\$4,217	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$6,055
Contribution from Tax Capital Reserve	\$392	\$598	\$2,271	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$3,261
<b>Total</b>	\$1,120	\$1,708	\$6,488	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$9,316

Expense amounts in **bold text** – 2021 Budget Request

Expense amounts in shaded text – Previously Committed Funding

## 2021 Capital Project Detail Report

**Project Title:** Essa Road ROW Expansion - Coughlin to Mapleview

**Project Number:** EN1170

**Department:** Infrastructure Department

**Rationale:** A 2017 Environmental Assessment recommended the widening to 5 lanes to accommodate traffic growth which will otherwise result in poor level of service (congestion). The project will also address the lack of active transportation infrastructure in this priority corridor, and poor condition of the existing pavement.

# PROJECT EXPENDITURE AND FUNDING

## Expenditure (in 000's):

	Prior Approvals	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	Total
Environmental Assessment - Request	\$90	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$90
Design - Request	<b>\$282</b>	<b>\$714</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$996</b>
Utilities - Forecast	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$565	\$0	\$0	\$0	\$565
Construction - Forecast	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$2,088	\$2,763	\$0	\$4,851
<b>Total</b>	<b>\$372</b>	<b>\$714</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$565</b>	<b>\$2,088</b>	<b>\$2,763</b>	<b>\$0</b>	<b>\$6,502</b>

## Funding (in 000's):

	Prior Approvals	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	Total
Contribution from Development Charge Reserves	\$59	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$59
Contribution from DC Reserves Tax	(\$268)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	(\$268)
Contribution from DC Roads Reserve	\$407	\$441	\$0	\$0	\$0	\$0	\$0	\$0	\$1,289	\$1,694	\$0	\$3,831
Contribution from DC Stormwater FMB Reserve	(\$27)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	(\$27)
Contribution from DC Water Dist FMB Reserve	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$45	\$67	\$0	\$112
Contribution from DC WW Collection FMB Reserve	\$0	\$15	\$0	\$0	\$0	\$0	\$0	\$243	\$0	\$0	\$0	\$258
Contribution from Tax Capital Reserve	\$202	\$237	\$0	\$0	\$0	\$0	\$0	\$0	\$694	\$912	\$0	\$2,046
Contribution from WW Capital Reserve	\$0	\$20	\$0	\$0	\$0	\$0	\$0	\$322	\$0	\$0	\$0	\$342
Contribution from Water Capital Reserve	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$60	\$89	\$0	\$149
<b>Total</b>	<b>\$372</b>	<b>\$714</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$565</b>	<b>\$2,088</b>	<b>\$2,763</b>	<b>\$0</b>	<b>\$6,502</b>

Expense amounts in **bold text** – 2021 Budget Request

Expense amounts in shaded text – Previously Committed Funding

## 2021 Capital Project Detail Report

**Project Title:** Eugenia Street ROW Reconstruction and New Transmission Watermain - Berczy to Duckworth

**Project Number:** EN1319

**Department:** Infrastructure Department

**Rationale:** There are two primary drivers for this project: the first is that the subsurface infrastructure along Eugenia St. (and surrounding neighbourhoods) is approaching its maximum potential life (MPL) and experiencing age-related deterioration, along with physical failure (watermain/sewer breaks, sanitary intrusions, etc.). Subsurface assets beneath Eugenia St. are rated fair to poor and do not meet current design standards for capacity, safety, and performance. The road surface is rated poor to very poor and there is a lack of sidewalks along Eugenia St. which poses accessibility concerns for City residents. Given the age and deteriorated condition of infrastructure, other lifecycle strategies (status quo, do nothing/run to failure, operate/maintain differently, and/or rehabilitate/refurbish) are not expected to significantly extend the existing remaining life of current assets or deliver expected service levels. Secondly, future growth and intensification forecasting has shown the need to increase the water capacity and supply network security of pressure zone 2N. Installing a 300mm transmission watermain along Eugenia St. will better connect the 2N pressure zone to the existing network, meet the potable water and fire flow capacity requirements for safe growth, and provide the level of service residents expect.

### **PROJECT EXPENDITURE AND FUNDING**

#### **Expenditure (in 000's):**

	<b>Prior Approvals</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>2030</b>	<b>Total</b>
<b>Design - Request</b>	<b>\$344</b>	<b>\$281</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$625</b>
<b>Utilities - Forecast</b>	\$0	\$0	\$762	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$762
<b>Construction - Forecast</b>	\$0	\$0	\$0	\$2,964	\$2,964	\$0	\$0	\$0	\$0	\$0	\$0	\$5,928
<b>Total</b>	\$344	\$281	\$762	\$2,964	\$2,964	\$0	\$0	\$0	\$0	\$0	\$0	\$7,315

#### **Funding (in 000's):**

	<b>Prior Approvals</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>2030</b>	<b>Total</b>
<b>Contribution from Tax Capital Reserve</b>	\$191	\$194	\$762	\$2,134	\$2,134	\$0	\$0	\$0	\$0	\$0	\$0	\$5,415
<b>Contribution from WW Capital Reserve</b>	\$68	\$45	\$0	\$474	\$474	\$0	\$0	\$0	\$0	\$0	\$0	\$1,061
<b>Contribution from Water Capital Reserve</b>	\$85	\$42	\$0	\$356	\$356	\$0	\$0	\$0	\$0	\$0	\$0	\$839
<b>Total</b>	\$344	\$281	\$762	\$2,964	\$2,964	\$0	\$0	\$0	\$0	\$0	\$0	\$7,315

Expense amounts in **bold text** – 2021 Budget Request

Expense amounts in shaded text – Previously Committed Funding

## 2021 Capital Project Detail Report

**Project Title:** Grove Street East Watermain Replacement and Road Renewal – Duckworth to Fletcher

**Project Number:** EN1355

**Department:** Infrastructure Department

**Rationale:** The watermain along Grove Street East, from Duckworth St. to Davies Cres. and from Cook St. to Fletcher Dr. are in poor condition, resulting in operational challenges and a high risk of failure and service disruptions. The pavement on Grove Street East is within a window where full-depth asphalt removal and replacement is expected to be an effective strategy to renew the road surface and defer more costly reconstruction. Timely renewal of the watermain and road is recommended to ensure adequate levels of service.

### **PROJECT EXPENDITURE AND FUNDING**

#### **Expenditure (in 000's):**

	<b>Prior Approvals</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>2030</b>	<b>Total</b>
<b>PreDesign - Request</b>	\$100	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$100
<b>Design - Request</b>	<b>\$0</b>	<b>\$324</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$324</b>
<b>Utilities - Forecast</b>	\$0	\$0	\$125	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$125
<b>Construction - Forecast</b>	\$0	\$0	\$0	\$2,917	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$2,917
<b>Total</b>	\$100	\$324	\$125	\$2,917	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$3,466

#### **Funding (in 000's):**

	<b>Prior Approvals</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>2030</b>	<b>Total</b>
<b>Contribution from Tax Capital Reserve</b>	\$100	\$180	\$0	\$1,712	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,992
<b>Contribution from Water Capital Reserve</b>	\$0	\$144	\$125	\$1,205	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,474
<b>Total</b>	\$100	\$324	\$125	\$2,917	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$3,466

Expense amounts in **bold text** – 2021 Budget Request

Expense amounts in shaded text – Previously Committed Funding

## 2021 Capital Project Detail Report

**Project Title:** Gunn Street ROW Replacement - Peel to St. Vincent

**Project Number:** EN1172

**Department:** Infrastructure Department

**Rationale:** Gunn Street between Peel Street and St. Vincent Street is in very poor condition. The Right of Way was constructed between 1947 and 1958 and nearly every piece of infrastructure has experienced severe deterioration and no longer provides reliable service. Given the age and deteriorated condition of all infrastructure within this Right of Way, other lifecycle strategies (status quo, do nothing/run to failure, maintain differently, and/or rehabilitate) are not expected to significantly extend the existing remaining life of current assets. The proposed solution will ensure safe drinking water and adequate fire protection, adequate drainage and reduced risk of flooding, reliable wastewater collection, and improved road safety.



# **PROJECT EXPENDITURE AND FUNDING**

## **Expenditure (in 000's):**

	<b>Prior Approvals</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>2030</b>	<b>Total</b>
<b>Design - Request</b>	\$500	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$500
<b>Utilities - Request</b>	\$450	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$450
<b>Construction - Request</b>	<b>(\$20)</b>	<b>\$1,093</b>	<b>\$4,917</b>	<b>\$4,917</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$10,907</b>
<b>Total</b>	\$930	\$1,093	\$4,917	\$4,917	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$11,857

## **Funding (in 000's):**

	<b>Prior Approvals</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>2030</b>	<b>Total</b>
<b>Contribution from Development Charge Reserves</b>	\$18	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$18
<b>Contribution from DC Reserves Tax</b>	\$18	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$18
<b>Contribution from Federal Gas Tax Reserve</b>	\$0	\$186	\$836	\$836	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,858
<b>Contribution from DC Roads Reserve</b>	\$10	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$10
<b>Contribution from DC Stormwater FMB Reserve</b>	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
<b>Contribution from Tax Capital Reserve</b>	\$770	\$470	\$2,114	\$2,114	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$5,469
<b>Contribution from WW Capital Reserve</b>	\$60	\$219	\$983	\$983	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$2,245
<b>Contribution from Water Capital Reserve</b>	\$55	\$219	\$983	\$983	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$2,240
<b>Total</b>	\$930	\$1,093	\$4,917	\$4,917	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$11,857

Expense amounts in **bold text** – 2021 Budget Request

Expense amounts in shaded text – Previously Committed Funding

## 2021 Capital Project Detail Report

**Project Title:** Hotchkiss Creek Storm Ponds at Wood Street and Associated Culvert Improvements

**Project Number:** EN1396

**Department:** Infrastructure Department

**Rationale:** Construction of two new stormwater attenuation facilities, and associated culvert improvements is required to attenuate stormwater flows. This will reduce the risk of flooding downstream including at the Wastewater Treatment Facility. By attenuating the flows the size of the downstream culverts can be reduced, this in turn reduces costs of infrastructure.

### **PROJECT EXPENDITURE AND FUNDING**

#### **Expenditure (in 000's):**

	Prior Approvals	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	Total
<b>Design - Request</b>	<b>\$251</b>	<b>\$1,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$1,251</b>
<b>Property - Forecast</b>	\$0	\$0	\$3,831	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$3,831
<b>Utilities - Forecast</b>	\$0	\$0	\$0	\$938	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$938
<b>Construction - Forecast</b>	\$0	\$0	\$0	\$0	\$2,004	\$4,008	\$8,015	\$6,011	\$0	\$0	\$0	\$20,038
<b>Total</b>	\$251	\$1,000	\$3,831	\$938	\$2,004	\$4,008	\$8,015	\$6,011	\$0	\$0	\$0	\$26,058

#### **Funding (in 000's):**

	Prior Approvals	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	Total
<b>Contribution from DC Stormwater FMB Reserve</b>	\$113	\$450	\$1,724	\$422	\$902	\$1,929	\$3,607	\$2,705	\$0	\$0	\$0	\$11,852
<b>Contribution from Tax Capital Reserve</b>	\$138	\$550	\$2,107	\$516	\$1,102	\$2,078	\$4,408	\$3,306	\$0	\$0	\$0	\$14,206
<b>Total</b>	\$251	\$1,000	\$3,831	\$938	\$2,004	\$4,008	\$8,015	\$6,011	\$0	\$0	\$0	\$26,058

Expense amounts in **bold text** – 2021 Budget Request

Expense amounts in shaded text – Previously Committed Funding

## 2021 Capital Project Detail Report

**Project Title:** Huronia Road New Trunk Sanitary Sewer and Road Replacement - Lockhart to McKay (City)

**Project Number:** EN1255

**Department:** Infrastructure Department

**Rationale:** The Transportation Master Plan identified the need to widen the existing 2-lane rural cross-section to 3-lanes, buffered bike lanes and sidewalks. A Schedule C Class EA was completed as part of the Annexation Transportation EA Studies. The Wastewater Collection Master Plan identified a trunk sanitary sewer to support growth in the Secondary Plan Lands.

# **PROJECT EXPENDITURE AND FUNDING**

## **Expenditure (in 000's):**

	Prior Approvals	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	Total
Design - Request	\$2,006	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$2,006
Property - Request	<b>\$2,000</b>	<b>\$49</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$2,049</b>
Utilities - Request	\$890	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$890
Construction - Request	<b>\$1,360</b>	<b>(\$2,186)</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>(\$826)</b>
Construction - Forecast	\$0	\$0	\$0	\$0	\$2,674	\$7,459	\$7,459	\$7,158	\$0	\$0	\$0	\$24,751
CSR - Request	(\$820)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	(\$820)
<b>Total</b>	<b>\$5,435</b>	<b>(\$2,137)</b>	<b>\$0</b>	<b>\$0</b>	<b>\$2,674</b>	<b>\$7,459</b>	<b>\$7,459</b>	<b>\$7,158</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$28,049</b>

## **Funding (in 000's):**

	Prior Approvals	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	Total
Developer Front Ending (Annex) - Developer Build	\$1,360	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,360
Debenture Proceeds - DCs	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Debenture Proceeds - Tax	\$536	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$536
Contribution from Development Charge Reserves	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Contribution from DC Reserves Tax (Annex)	\$2,282	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$2,282
Contribution from DC Reserves Wastewater (Annex)	\$425	(\$1,321)	\$0	\$0	\$2,636	\$3,953	\$3,953	\$2,636	\$0	\$0	\$0	\$12,282
Contribution from DC Stormwater FMB Reserve	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Contribution from DC Roads Annex Reserve	\$757	(\$693)	\$0	\$0	\$32	\$2,980	\$2,980	\$3,844	\$0	\$0	\$0	\$9,900
Contribution from Reserves	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Contribution from Tax Capital Reserve	\$0	(\$122)	\$0	\$0	\$6	\$526	\$526	\$678	\$0	\$0	\$0	\$1,614
Contribution from WW Capital Reserve	\$75	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$75
<b>Total</b>	<b>\$5,435</b>	<b>(\$2,137)</b>	<b>\$0</b>	<b>\$0</b>	<b>\$2,674</b>	<b>\$7,459</b>	<b>\$7,459</b>	<b>\$7,158</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$28,049</b>

Expense amounts in **bold text** – 2021 Budget Request

Expense amounts in shaded text – Previously Committed Funding

## 2021 Capital Project Detail Report

**Project Title:** Interim Watermain Replacement Pilot Program

**Project Number:** EN1178

**Department:** Infrastructure Department

**Rationale:** Throughout the City there are many small and/or galvanized watermain, many of them dead ends, that are below the 150mm recommended minimum diameter as per City standards. Water Operations staff are regularly required to perform maintenance activities in attempts to improve service to residents in these areas. Many of the mains are old and require upsizing and replacement. Through this program, watermain with deficient flows will be corrected by installing an interim watermain until a full watermain reconstruction can occur. This project will utilize trenchless technologies such as directional drilling to reduce the construction disruptions in the area. This project will reduce overall operational costs by reducing the need for frequent maintenance activities. The use of directional drilling will minimize road restoration costs.

### **PROJECT EXPENDITURE AND FUNDING**

#### **Expenditure (in 000's):**

	<b>Prior Approvals</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>2030</b>	<b>Total</b>
<b>Design - Request</b>	<b>\$115</b>	<b>\$63</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$177</b>
<b>Construction - Request</b>	<b>\$2,690</b>	<b>\$450</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$3,140</b>
<b>Total</b>	<b>\$2,805</b>	<b>\$513</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$3,317</b>

#### **Funding (in 000's):**

	<b>Prior Approvals</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>2030</b>	<b>Total</b>
<b>Contribution from Water Capital Reserve</b>	<b>\$2,805</b>	<b>\$513</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$3,317</b>
<b>Total</b>	<b>\$2,805</b>	<b>\$513</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$3,317</b>

Expense amounts in **bold text** – 2021 Budget Request

Expense amounts in shaded text – Previously Committed Funding

## 2021 Capital Project Detail Report

**Project Title:** Jean and Tyndale Sanitary Servicing Installation

**Project Number:** 000141

**Department:** Infrastructure Department

**Rationale:** Jean and Tyndale requires rehabilitation work in advance of the proposed full reconstruction and urbanization of these two roads. The schedule for the proposed reconstruction/urbanization work has been deferred in the Capital Plan due to financial constraints. The asphalt work will address problems on the surface of the roadway by providing a quality top layer of asphalt pavement. This will be a cost-effective short-term approach that will maintain levels of service and decrease the risk assumed by the City.

### **PROJECT EXPENDITURE AND FUNDING**

#### **Expenditure (in 000's):**

	<b>Prior Approvals</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>2030</b>	<b>Total</b>
<b>Construction - Request</b>	<b>\$0</b>	<b>\$303</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$303</b>
<b>PreDesign - Forecast</b>	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$90	\$0	\$0	\$0	\$90
<b>Design - Forecast</b>	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$470	\$0	\$0	\$470
<b>Utilities - Forecast</b>	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$375	\$0	\$375
<b>Construction - Forecast</b>	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$3,685	\$3,685
<b>Total</b>	\$0	\$303	\$0	\$0	\$0	\$0	\$0	\$90	\$470	\$375	\$3,685	\$4,923

#### **Funding (in 000's):**

	<b>Prior Approvals</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>2030</b>	<b>Total</b>
<b>Contribution from Tax Capital Reserve</b>	\$0	\$303	\$0	\$0	\$0	\$0	\$0	\$90	\$220	\$375	\$2,055	\$3,043
<b>Contribution from WW Capital Reserve</b>	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$125	\$0	\$830	\$955
<b>Contribution from Water Capital Reserve</b>	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$125	\$0	\$800	\$925
<b>Total</b>	\$0	\$303	\$0	\$0	\$0	\$0	\$0	\$90	\$470	\$375	\$3,685	\$4,923

Expense amounts in **bold text** – 2021 Budget Request

Expense amounts in shaded text – Previously Committed Funding

## 2021 Capital Project Detail Report

**Project Title:** Johnson Street wastewater pump station valve chamber, back up pump and flow meter

**Project Number:** 000061

**Department:** Infrastructure Department

**Rationale:** Johnson Street Pump Station requires immediate retrofit work in order for operations to access the pump for maintenance and switch forcemains. The retrofit includes a valve chamber, new back-up pump, piping reconfiguration, valving, structural covers, confined space entry hatches, instrumentation and associated appurtenances. The proposed upgrades will improve the operation and maintenance of this pump station, which minimizes service disruption to the Johnson's Beach Washrooms and other users.

### **PROJECT EXPENDITURE AND FUNDING**

#### **Expenditure (in 000's):**

	<b>Prior Approvals</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>2030</b>	<b>Total</b>
<b>PreDesign - Request</b>	<b>\$0</b>	<b>\$225</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$225</b>
<b>Total</b>	\$0	\$225	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$225

#### **Funding (in 000's):**

	<b>Prior Approvals</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>2030</b>	<b>Total</b>
<b>Contribution from WW Capital Reserve</b>	\$0	\$225	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$225
<b>Total</b>	\$0	\$225	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$225

Expense amounts in **bold text** – 2021 Budget Request

Expense amounts in shaded text – Previously Committed Funding

## 2021 Capital Project Detail Report

**Project Title:** Kidds and Sophia Creek Storm Pond Upgrades - Irwin (KD03), Ford (KD06), and Ottaway (SP03)

**Project Number:** EN1269

**Department:** Infrastructure Department

**Rationale:** The Sophia Creek Master Drainage Plan, the City Wide Master Drainage Plan as well as the City Growth Stormwater Management study identified several stormwater management facilities that could be expanded and upgraded to minimize flooding, property damage, and safety issues downstream and also reduce phosphorus loading to Lake Simcoe. The Sophia and Kidds Creek watersheds are underserved for water conveyance and water quality controls. The identified stormwater management facilities are critical conveyance peak flow controls and can also provide stream water quality enhancements to support the present and future drainage servicing needs of the City.

### **PROJECT EXPENDITURE AND FUNDING**

#### **Expenditure (in 000's):**

	Prior Approvals	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	Total
<b>Design - Request</b>	<b>\$210</b>	<b>\$150</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$360</b>
<b>Property - Request</b>	\$900	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$900
<b>Construction - Request</b>	<b>\$1,800</b>	<b>\$2,837</b>	<b>\$1,347</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$5,984</b>
<b>Utilities - Forecast</b>	\$0	\$0	\$0	\$0	\$0	\$993	\$0	\$0	\$0	\$0	\$0	\$993
<b>Construction - Forecast</b>	\$0	\$0	\$0	\$0	\$0	\$0	\$3,425	\$3,425	\$3,425	\$0	\$0	\$10,276
<b>CSR - Request</b>	\$183	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$183
<b>Total</b>	\$3,093	\$2,987	\$1,347	\$0	\$0	\$993	\$3,425	\$3,425	\$3,425	\$0	\$0	\$18,696

#### **Funding (in 000's):**

	Prior Approvals	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	Total
<b>Debenture Proceeds - DCs</b>	\$900	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$900
<b>Contribution from Development Charge Reserves</b>	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
<b>Contribution from DC Reserves Tax</b>	\$393	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$393
<b>Contribution from DC Stormwater FMB Reserve</b>	\$810	\$1,344	\$606	\$0	\$0	\$447	\$1,541	\$1,541	\$1,541	\$0	\$0	\$7,832
<b>Contribution from Tax Capital Reserve</b>	\$990	\$1,643	\$741	\$0	\$0	\$546	\$1,884	\$1,884	\$1,884	\$0	\$0	\$9,572
<b>Total</b>	\$3,093	\$2,987	\$1,347	\$0	\$0	\$993	\$3,425	\$3,425	\$3,425	\$0	\$0	\$18,696

Expense amounts in **bold text** – 2021 Budget Request

Expense amounts in shaded text – Previously Committed Funding



## 2021 Capital Project Detail Report

**Project Title:** Kidd's Creek marina sediment removal

**Project Number:** 001052

**Department:** Infrastructure Department

**Rationale:** Removal of sediment within the Marina at the mouth of Kidd's creek. Sediment is blocking fish passage, impacting the marina operations and is required for ECA compliance.

### **PROJECT EXPENDITURE AND FUNDING**

#### **Expenditure (in 000's):**

	<b>Prior Approvals</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>2030</b>	<b>Total</b>
<b>Design - Request</b>	<b>\$0</b>	<b>\$200</b>	<b>\$200</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$400</b>
<b>Construction - Forecast</b>	\$0	\$0	\$1,135	\$2,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$3,135
<b>Total</b>	\$0	\$200	\$1,335	\$2,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$3,535

#### **Funding (in 000's):**

	<b>Prior Approvals</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>2030</b>	<b>Total</b>
<b>Contribution from Tax Capital Reserve</b>	\$0	\$200	\$1,335	\$2,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$3,535
<b>Total</b>	\$0	\$200	\$1,335	\$2,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$3,535

Expense amounts in **bold text** – 2021 Budget Request

Expense amounts in shaded text – Previously Committed Funding

## 2021 Capital Project Detail Report

**Project Title:** Lampman to Anne New Transmission Watermain and Lampman to Leacock ROW Rehabilitation

**Project Number:** EN1263

**Department:** Infrastructure Department

**Rationale:** The proposed 300mm watermain is the preferred solution required to provide water distribution system improvements for pressure Zone 3N. Pressure Zone 3N currently only has one pumping station and requires a second pumping station with an associated transmission watermain to provide supply redundancy and system reinforcement in the event of a pumping station or watermain failure. The roadway noted for full-depth resurfacing is in very poor to poor condition and is deteriorating rapidly. By conducting this work the City of Barrie will improve service levels to the community and provide capacity requirements for future growth.

### **PROJECT EXPENDITURE AND FUNDING**

#### **Expenditure (in 000's):**

	<b>Prior Approvals</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>2030</b>	<b>Total</b>
<b>Design - Request</b>	\$105	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$105
<b>Utilities - Request</b>	\$315	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$315
<b>Construction - Request</b>	<b>\$126</b>	<b>\$922</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$1,048</b>
<b>Construction - Forecast</b>	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$2,214
<b>Total</b>	\$2,760	\$922	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$3,682

#### **Funding (in 000's):**

	<b>Prior Approvals</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>2030</b>	<b>Total</b>
<b>Contribution from Tax Capital Reserve</b>	\$921	\$922	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,843
<b>Contribution from Water Capital Reserve</b>	\$1,839	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,839
<b>Total</b>	\$2,760	\$922	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$3,682

Expense amounts in **bold text** – 2021 Budget Request

Expense amounts in shaded text – Previously Committed Funding

## 2021 Capital Project Detail Report

**Project Title:** Lovers Creek Mapleview LSRCA Compensation

**Project Number:** 001005

**Department:** Infrastructure Department

**Rationale:** In order to meet the conditions of the original LSRCA Permit, the City agreed to provide compensation. The details of the work to satisfy the conditions have been agreed to with LSRCA and funding is required to construct the footbridge and undertake the remedial work to the regulated ditch on private property. The work is critical to meeting the conditions of the LSRCA Permit.

### **PROJECT EXPENDITURE AND FUNDING**

#### **Expenditure (in 000's):**

	<b>Prior Approvals</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>2030</b>	<b>Total</b>
<b>Construction - Request</b>	<b>\$0</b>	<b>\$87</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$87</b>
<b>Total</b>	<b>\$0</b>	<b>\$87</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$87</b>

#### **Funding (in 000's):**

	<b>Prior Approvals</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>2030</b>	<b>Total</b>
<b>Contribution from DC Stormwater FMB Reserve</b>	<b>\$0</b>	<b>\$39</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$39</b>
<b>Contribution from Tax Capital Reserve</b>	<b>\$0</b>	<b>\$48</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$48</b>
<b>Total</b>	<b>\$0</b>	<b>\$87</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$87</b>

Expense amounts in **bold text** – 2021 Budget Request

Expense amounts in shaded text – Previously Committed Funding

## 2021 Capital Project Detail Report

**Project Title:** Lovers Creek New Bridge - Tollendal Mill, 150m West of Coxmill

**Project Number:** EN1169

**Department:** Infrastructure Department

**Rationale:** The existing Lovers Creek culvert under Tollendal Mill Road is in structurally poor condition. This large diameter culvert requires biennial inspection by a professional engineer as per the Ontario Structure Inspection Manual (OSIM); as a result of the most recent inspections, it was noted that the culvert barrels exhibited more severe invert deterioration and excessive deformations and that high velocity creek flows had compromised the stability of the Lovers Creek channel. The consultant recommended that replacement work be completed as quickly as possible to ensure that the culvert structure was physically sound. Engineering staff have also identified that the culvert is hydraulically deficient. Therefore replacement with a bridge structure is required along with creek restoration. There is no watermain on this section of Tollendal Mill Road and it should be installed as part of this project to reinforce the water distribution system in the area. Completion of the work is expected to improve stormwater conveyance capacity, and will help to safeguard local road networks and private property from flood damage.

# PROJECT EXPENDITURE AND FUNDING

## Expenditure (in 000's):

	Prior Approvals	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	Total
Design - Request	\$245	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$245
Utilities - Request	\$175	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$175
Construction - Request	<b>\$2,735</b>	<b>\$1,995</b>	<b>\$1,203</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$5,932</b>
Total	\$3,155	\$1,995	\$1,203	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$6,352

## Funding (in 000's):

	Prior Approvals	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	Total
Debenture Proceeds - DCs	\$1,495	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,495
Contribution from Development Charge Reserves	\$146	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$146
Contribution from DC Reserves Tax	\$33	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$33
Contribution from Federal Gas Tax Reserve	\$805	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$805
Contribution from DC Stormwater FMB Reserve	\$81	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$81
Contribution from Tax Capital Reserve	\$370	\$1,797	\$1,203	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$3,370
Contribution from Water Capital Reserve	\$225	\$197	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$422
Total	\$3,155	\$1,995	\$1,203	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$6,352

Expense amounts in **bold text** – 2021 Budget Request

Expense amounts in shaded text – Previously Committed Funding

## 2021 Capital Project Detail Report

**Project Title:** Lovers Creek Watershed, LV05 SWMF- Rehabilitation

**Project Number:** RP1154

**Department:** Infrastructure Department

**Rationale:** This SWMF is not functioning as designed due to major erosion along the inlet channel. Eroded material is collecting within the SWMF which was cleaned in 2015 and now needs to be cleaned again. In comparison, other SWMFs across the City do not require cleaning for up to 25 years. This project will ensure compliance with the Stormwater Management System Environmental Compliance Approval (ECA) with the Province. As a requirement of the ECA, the City is to act in resolving operational and maintenance noncompliance when identified. This project is deemed to be a required repair under the ECA.

### **PROJECT EXPENDITURE AND FUNDING**

#### **Expenditure (in 000's):**

	<b>Prior Approvals</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>2030</b>	<b>Total</b>
<b>Design - Request</b>	\$150	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$150
<b>Construction - Request</b>	<b>\$0</b>	<b>\$1,923</b>	<b>\$3,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$4,923</b>
<b>Total</b>	\$150	\$1,923	\$3,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$5,073

#### **Funding (in 000's):**

	<b>Prior Approvals</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>2030</b>	<b>Total</b>
<b>Contribution from DC Stormwater FMB Reserve</b>	\$0	\$865	\$1,350	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$2,215
<b>Contribution from Tax Capital Reserve</b>	\$150	\$1,058	\$1,650	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$2,858
<b>Total</b>	\$150	\$1,923	\$3,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$5,073

Expense amounts in **bold text** – 2021 Budget Request

Expense amounts in shaded text – Previously Committed Funding

## 2021 Capital Project Detail Report

**Project Title:** LT04 Storm Pond repairs and retrofit

**Project Number:** 001050

**Department:** Infrastructure Department

**Rationale:** The storm pond requires maintenance, and repair to bring the storm pond in compliance with the City's Environmental Compliance Approval.

### **PROJECT EXPENDITURE AND FUNDING**

#### **Expenditure (in 000's):**

	<b>Prior Approvals</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>2030</b>	<b>Total</b>
<b>Design - Request</b>	<b>\$0</b>	<b>\$325</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$325</b>
<b>Construction - Forecast</b>	\$0	\$0	\$1,550	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,550
<b>Total</b>	\$0	\$325	\$1,550	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,875

#### **Funding (in 000's):**

	<b>Prior Approvals</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>2030</b>	<b>Total</b>
<b>Contribution from Tax Capital Reserve</b>	\$0	\$325	\$1,550	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,875
<b>Total</b>	\$0	\$325	\$1,550	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,875

Expense amounts in **bold text** – 2021 Budget Request

Expense amounts in shaded text – Previously Committed Funding

## 2021 Capital Project Detail Report

**Project Title:** LT14 (JC Massey Way) Emergency Storm Water Pond Repair

**Project Number:** 001047

**Department:** Infrastructure Department

**Rationale:** This pond was constructed in 2014/2015. In 2019, the pond failed due to deficiencies with the pond liner and a complete failure of the berm wall. Recommendation for full retrofit of the pond including the removal and replacement of the pond liner, removal and repair of the berm wall as well as some minor volume improvements and slope repairs. This is deemed an emergency repair and should be completed in 2021.

### **PROJECT EXPENDITURE AND FUNDING**

#### **Expenditure (in 000's):**

	Prior Approvals	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	Total
Construction - Request	\$0	\$2,000	\$800	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$2,800
<b>Total</b>	\$0	\$2,000	\$800	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$2,800

#### **Funding (in 000's):**

	Prior Approvals	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	Total
Contribution from Tax Capital Reserve	\$0	\$2,000	\$800	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$2,800
<b>Total</b>	\$0	\$2,000	\$800	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$2,800

Expense amounts in **bold text** – 2021 Budget Request

Expense amounts in shaded text – Previously Committed Funding



## 2021 Capital Project Detail Report

**Project Title:** Mapleview Dr E New Sanitary Sewer & Road Expansion - Prince William to Phase 1 Boundary (Developer)

**Project Number:** EN1270

**Department:** Infrastructure Department

**Rationale:** Different sanitary servicing alternatives were examined in the Wastewater Collection MP for the Salem Secondary Plan area. The preferred alternative was to drain this sewer shed to the Hewitt's Trunk Sewer because this sewer has spare capacity. Anticipated increases in traffic volumes and active transportation resulting from growth in the Secondary Plan area justifies urbanizing Mapleview Drive east of Prince William Way. The Transportation MP recommended three lanes plus buffered bike lanes. Within former Barrie the existing road is relatively new but the south side has not been urbanized. In consideration of this the project scope was adjusted to include a multi-use trail to retain as much of the existing road as possible. Funding for this project is partially front-ended by Developers to provide servicing required for Phase 1 of growth-related development in the secondary plan area.

# **PROJECT EXPENDITURE AND FUNDING**

## **Expenditure (in 000's):**

	Prior Approvals	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	Total
Design - Request	\$2,822	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$2,822
Property - Request	\$1,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,000
Utilities - Request	\$656	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$656
Construction - Request	<b>\$2,293</b>	<b>\$1,076</b>	<b>\$2,100</b>	<b>\$2,648</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$8,117</b>
Total	\$6,771	\$1,076	\$2,100	\$2,648	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$12,595

## **Funding (in 000's):**

	Prior Approvals	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	Total
Developer Front Ending (Annex) - Developer Build	\$6,359	\$926	\$1,820	\$2,251	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$11,356
Debenture Proceeds - Tax	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Contribution from Development Charge Reserves	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Contribution from DC Stormwater FMB Reserve	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Contribution from DC Roads Annex Reserve	\$41	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$41
Contribution from Reserves	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Contribution from Tax Capital Reserve	\$371	\$150	\$280	\$397	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,198
Total	\$6,771	\$1,076	\$2,100	\$2,648	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$12,595

Expense amounts in **bold text** – 2021 Budget Request

Expense amounts in shaded text – Previously Committed Funding

## 2021 Capital Project Detail Report

**Project Title:** Mapleview Dr E Road Expansion - East of Yonge to Prince William (City)

**Project Number:** EN1271

**Department:** Infrastructure Department

**Rationale:** The Transportation Master Plan identified the need to widen Mapleview to 5 lanes between Yonge and Prince William with a grade separated railway crossing. The grade separated crossing has been deferred and is subject to funding from Metrolinx. The Water Distribution Master Plan and Waste Collection Master Plan recommends the installation of a trunk watermain and a local sanitary sewer. A Schedule C Class Environmental Assessment was completed. The watermain is required to provide potable water and fire flow in Phase 1 of the Hewitt's Secondary Plan area. The Road widening will initially be implemented with an at-grade crossing.

**PROJECT EXPENDITURE AND FUNDING**

**Expenditure (in 000's):**

	Prior Approvals	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	Total
Design - Request	\$5,924	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$5,924
Property - Request	<b>\$6,591</b>	<b>(\$6,591)</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>
Property - Forecast	\$0	\$0	\$1,323	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,323
Utilities - Forecast	\$0	\$0	\$0	\$1,931	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,931
Construction - Forecast	\$0	\$0	\$0	\$0	\$3,460	\$6,920	\$6,920	\$6,920	\$6,920	\$3,702	\$0	\$34,841
<b>Total</b>	<b>\$12,515</b>	<b>(\$6,591)</b>	<b>\$1,323</b>	<b>\$1,931</b>	<b>\$3,460</b>	<b>\$6,920</b>	<b>\$6,920</b>	<b>\$6,920</b>	<b>\$6,920</b>	<b>\$3,702</b>	<b>\$0</b>	<b>\$44,018</b>

**Funding (in 000's):**

	Prior Approvals	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	Total
Debenture Proceeds - Tax	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Contribution from Development Charge Reserves	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Contribution from DC Reserves Tax (Annex)	\$2,862	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$2,862
Contribution from DC Reserves Water (Annex)	\$0	\$0	\$66	\$97	\$0	\$1,153	\$1,153	\$1,153	\$0	\$0	\$0	\$3,623
Contribution from DC Reserves Wastewater (Annex)	\$0	\$0	\$66	\$97	\$0	\$1,153	\$1,153	\$1,153	\$0	\$0	\$0	\$3,623
Contribution from DC Stormwater FMB Reserve	\$40	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$40
Contribution from DC Roads Annex Reserve	\$7,736	(\$5,602)	\$1,012	\$1,477	\$2,941	\$3,921	\$3,921	\$3,921	\$5,882	\$3,147	\$0	\$28,355
Contribution from Reserves	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Contribution from Tax Capital Reserve	\$1,877	(\$989)	\$179	\$261	\$519	\$692	\$692	\$692	\$1,038	\$555	\$0	\$5,516
<b>Total</b>	<b>\$12,515</b>	<b>(\$6,591)</b>	<b>\$1,323</b>	<b>\$1,931</b>	<b>\$3,460</b>	<b>\$6,920</b>	<b>\$6,920</b>	<b>\$6,920</b>	<b>\$6,920</b>	<b>\$3,702</b>	<b>\$0</b>	<b>\$44,018</b>

Expense amounts in **bold text** – 2021 Budget Request

Expense amounts in shaded text – Previously Committed Funding

## 2021 Capital Project Detail Report

**Project Title:** Mapleview Drive East Improvements - Country Lane to Yonge (City)

**Project Number:** EN1097

**Department:** Infrastructure Department

**Rationale:** Mapleview Drive East between Country Lane and Yonge is deficient with respect to traffic capacity, sidewalks, bicycle transportation, streetlights, domestic watermain and storm sewers. There is a transmission watermain and a sanitary trunk sewer required on this section of Mapleview Drive East. The proposed work will increase traffic capacity and resolve transportation and other servicing deficiencies, thereby allowing the City to provide the expected levels of service to the community while reducing risk associated with physically deteriorated and under-capacity roads and subsurface infrastructure.

### **PROJECT EXPENDITURE AND FUNDING**

#### **Expenditure (in 000's):**

	<b>Prior Approvals</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>2030</b>	<b>Total</b>
<b>Design - Request</b>	\$884	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$884
<b>Property - Request</b>	\$400	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$400
<b>Utilities - Request</b>	\$1,100	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,100
<b>Construction - Request</b>	<b>\$13,600</b>	<b>\$1,726</b>	<b>\$3,565</b>	<b>\$362</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$19,252</b>
<b>Construction - Forecast</b>	\$0	\$0	\$500	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$500
<b>Total</b>	\$15,984	\$1,726	\$4,065	\$362	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$22,136

Expense amounts in **bold text** – 2021 Budget Request

Expense amounts in shaded text – Previously Committed Funding

**Funding (in 000's):**

	Prior Approvals	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	Total
Tax Additions	\$75	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$75
Debenture Proceeds - Tax	\$1,290	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,290
Local Improvements Revenue	\$100	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$100
Contribution from Development Charge Reserves	\$619	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$619
Contribution from DC Reserves Tax (Annex)	\$4,463	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$4,463
Contribution from DC Reserves Water (Annex)	\$4,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$4,000
Contribution from DC Reserves Wastewater (Annex)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Contribution from Federal Gas Tax Reserve	\$1,400	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,400
Contribution from DC Stormwater FMB Reserve	\$0	\$98	\$228	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$325
Contribution from DC Water Dist FMB Reserve	\$0	\$434	\$1,013	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,448
Contribution from DC WW Collection FMB Reserve	\$0	\$56	\$31	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$88
Contribution from DC Roads Annex Reserve	\$3,188	\$705	\$1,736	\$235	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$5,863
Contribution from Tax Capital Reserve	\$190	\$432	\$1,057	\$127	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,806
Contribution from WW Capital Reserve	\$655	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$655
Contribution from Water Capital Reserve	\$5	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$5
<b>Total</b>	<b>\$15,984</b>	<b>\$1,726</b>	<b>\$4,065</b>	<b>\$362</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$22,136</b>

Expense amounts in **bold text** – 2021 Budget Request

Expense amounts in shaded text – Previously Committed Funding

## 2021 Capital Project Detail Report

**Project Title:** McDonald Municipal Parking Lot Reconstruction

**Project Number:** EN1337

**Department:** Infrastructure Department

**Rationale:** Clean and rehabilitate Primary Digester 3 at the Barrie Wastewater Treatment Facility. The project will begin with a study to determine how to take Primary Digester 3 offline so that it may be cleaned and rehabilitated, followed by a condition assessment, and construction phase to rehab the tank.

### **PROJECT EXPENDITURE AND FUNDING**

#### **Expenditure (in 000's):**

	<b>Prior Approvals</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>2030</b>	<b>Total</b>
<b>Design - Request</b>	\$77	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$77
<b>Construction - Request</b>	<b>\$830</b>	<b>\$200</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$1,030</b>
<b>Total</b>	\$907	\$200	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,107

#### **Funding (in 000's):**

	<b>Prior Approvals</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>2030</b>	<b>Total</b>
<b>Contribution from Parking Capital Reserve</b>	\$907	\$200	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,107
<b>Total</b>	\$907	\$200	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,107

Expense amounts in **bold text** – 2021 Budget Request

Expense amounts in shaded text – Previously Committed Funding

## 2021 Capital Project Detail Report

**Project Title:** McKay Road New Interchange - Highway 400 (City)

**Project Number:** EN1251

**Department:** Infrastructure Department

**Rationale:** McKay Road is currently a two lane rural road in poor condition except for the crossing over Highway 400 which was recently reconstructed by MTO with financial contribution from the City so that it will accommodate a future interchange and structure widening.

The proposed McKay Interchange is located in the Secondary Plan lands between Maplevue Drive and Innisfil Beach Road, the Transportation Master Plan indicates that McKay is required to service growth in the area and is a critical infrastructure service growth in the Hewitt and salem secondary Planning areas.

The Transportation Master Plan recommends that with increased traffic volumes the construction of an interchange at McKay Road and widening of the crossing from two to five lanes with buffered bike lanes and sidewalks is needed .

The existing Maplevue Drive / Highway 400 interchange operates at a poor level of service and without the McKay Interchange, traffic congestion will worsen with growth.

The McKay Schedule C Class Environmental Assessment is scheduled was completed in 2018.



# PROJECT EXPENDITURE AND FUNDING

## Expenditure (in 000's):

	Prior Approvals	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	Total
Design - Request	\$3,657	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$3,657
Property - Request	<b>\$7,864</b>	<b>\$2,136</b>	<b>\$2,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$12,000</b>
Property - Forecast	\$0	\$0	\$0	\$0	\$0	\$7,000	\$0	\$0	\$0	\$0	\$0	\$7,000
Utilities - Forecast	\$0	\$0	\$0	\$0	\$0	\$0	\$945	\$0	\$0	\$0	\$0	\$945
Construction - Forecast	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$9,898	\$9,898	\$14,848	\$10,470	\$45,114
Total	\$11,521	\$2,136	\$2,000	\$0	\$0	\$7,000	\$945	\$9,898	\$9,898	\$14,848	\$10,470	\$68,716

## Funding (in 000's):

	Prior Approvals	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	Total
Contribution from DC Reserves Tax (Annex)	\$1,592	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,592
Contribution from DC Reserves Water (Annex)	\$88	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$88
Contribution from DC Stormwater FMB Reserve	\$1,441	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,441
Contribution from DC Roads Annex Reserve	\$6,684	\$1,816	\$1,700	\$0	\$0	\$5,950	\$803	\$8,414	\$8,414	\$12,620	\$8,899	\$55,300
Contribution from Tax Capital Reserve	\$1,715	\$320	\$300	\$0	\$0	\$1,050	\$142	\$1,485	\$1,485	\$2,227	\$1,570	\$10,294
Total	\$11,521	\$2,136	\$2,000	\$0	\$0	\$7,000	\$945	\$9,898	\$9,898	\$14,848	\$10,470	\$68,716

Expense amounts in **bold text** – 2021 Budget Request

Expense amounts in shaded text – Previously Committed Funding

## 2021 Capital Project Detail Report

**Project Title:** McKay Road New Trunk Sanitary Sewer - Hwy 400 to Huronia (City)

**Project Number:** EN1256

**Department:** Infrastructure Department

**Rationale:** The City of Barrie Transportation Master Plan identified McKay Road as a rural road in poor condition, with no current City subsurface infrastructure. The Wastewater Collection Master Plan indicated that the development of the Salem Secondary plan is fully dependent upon the installation of a trunk sanitary sewer from Huronia Road west to Highway 400. The Wastewater Collection Master Plan recommended drainage of the Salem Secondary Plan sewershed to the Lover's Trunk Sewer as it has significant available spare capacity. Road reconstruction as a result of the sewer installation will improve the safety and drivability, with increases in traffic volume necessitating an expansion from two lanes to four. Additional expansion and urbanization of the right of way to support later phases of development will not be required until post 2031, and is recommended to occur with future watermain construction. A Schedule C Class Environmental Assessment was completed. The two infrastructure elements have been included in both the Infrastructure Implementation Plan and the Memorandum of Understanding with developers. Project timing is dependent on availability of funding and the timing of developments within the Salem Secondary Plan Area.

**PROJECT EXPENDITURE AND FUNDING**

**Expenditure (in 000's):**

	Prior Approvals	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	Total
Design - Request	\$2,771	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$2,771
Property - Request	\$4,205	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$4,205
Construction - Request	<b>\$8,561</b>	<b>(\$8,561)</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>
Utilities - Forecast	\$0	\$0	\$0	\$1,758	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,758
Construction - Forecast	\$0	\$0	\$0	\$0	\$6,612	\$12,000	\$12,000	\$0	\$0	\$0	\$0	\$30,612
CSR - Request	(\$1,683)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	(\$1,683)
<b>Total</b>	<b>\$13,853</b>	<b>(\$8,561)</b>	<b>\$0</b>	<b>\$1,758</b>	<b>\$6,612</b>	<b>\$12,000</b>	<b>\$12,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$37,662</b>

**Funding (in 000's):**

	Prior Approvals	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	Total
Developer Front Ending (Annex) - Developer Build	\$8,561	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$8,561
Debenture Proceeds - DCs	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Debenture Proceeds - Tax	\$756	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$756
Contribution from Development Charge Reserves	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Contribution from DC Reserves Tax (Annex)	\$4,286	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$4,286
Contribution from DC Reserves Water (Annex)	\$0	(\$561)	\$0	\$35	\$612	\$0	\$0	\$0	\$0	\$0	\$0	\$87
Contribution from DC Reserves Wastewater (Annex)	\$250	(\$8,000)	\$0	\$1,723	\$6,000	\$12,000	\$12,000	\$0	\$0	\$0	\$0	\$23,972
Contribution from Reserves	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Contribution from Tax Capital Reserve	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
<b>Total</b>	<b>\$13,853</b>	<b>(\$8,561)</b>	<b>\$0</b>	<b>\$1,758</b>	<b>\$6,612</b>	<b>\$12,000</b>	<b>\$12,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$37,662</b>

Expense amounts in **bold text** – 2021 Budget Request

Expense amounts in shaded text – Previously Committed Funding

## 2021 Capital Project Detail Report

**Project Title:** McKay Road Road Expansion - Hwy 400 to Huronia (City)

**Project Number:** EN1345

**Department:** Infrastructure Department

**Rationale:** The City of Barrie Multi-Modal Active Transportation Master Plan identified McKay Road as a rural road in poor condition, with no current City subsurface infrastructure. The Wastewater Collection Master Plan indicated that the development of the Salem Secondary plan is fully dependent upon the installation of a trunk sanitary sewer from Huronia Road west to Highway 400. The Wastewater Collection Master Plan recommended drainage of the Salem Secondary Plan sewershed to the Lover's Trunk Sewer as it has significant available spare capacity. Road reconstruction as a result of the sewer installation will improve the safety and drivability, with increases in traffic volume necessitating an expansion from two lanes to four. Additional expansion and urbanization of the right of way to support later phases of development will not be required until post 2031, and is recommended to occur with future watermain construction. A Schedule C Environmental Assessment was completed. The two infrastructure elements have been included in both the Infrastructure Implementation Plan and the Memorandum of Understanding with developers. Property costs reflect estimated value to implement interim design and these will be further refined through the detailed design.

### **PROJECT EXPENDITURE AND FUNDING**

#### **Expenditure (in 000's):**

	Prior Approvals	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	Total
Design - Request	\$0	\$44	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$44
Utilities - Request	\$1,467	(\$1,465)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$3
Utilities - Forecast	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$522	\$522
<b>Total</b>	\$1,467	(\$1,421)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$522	\$568

#### **Funding (in 000's):**

	Prior Approvals	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	Total
Debenture Proceeds - DCs	\$1,247	(\$1,245)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$2
Debenture Proceeds - Tax	\$220	(\$220)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Contribution from DC Roads Annex Reserve	\$0	\$37	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$443	\$481
Contribution from Tax Capital Reserve	\$0	\$7	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$78	\$85
<b>Total</b>	\$1,467	(\$1,421)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$522	\$568

Expense amounts in **bold text** – 2021 Budget Request

Expense amounts in shaded text – Previously Committed Funding

## 2021 Capital Project Detail Report

**Project Title:** McKay Road ROW Expansion - Reid Drive to West of Highway 400 (Developer)

**Project Number:** EN1257

**Department:** Infrastructure Department

**Rationale:** The City of Barrie Growth Studies and Transportation Master Plan identified McKay Road as a rural road in poor condition, with no current City subsurface infrastructure. Installation of a sanitary sewer, trunk watermain and associated transportation improvements are included in both the Infrastructure Implementation Plan and the MOU with developers in Phase 1 of the secondary plan area. The Wastewater Collection Master Plan recommended drainage of the Salem Secondary Plan sewershed to Lover's Trunk Sewer as it has significant available spare capacity, while the Water Distribution Master Plan identified a need for a trunk watermain to provide potable water and fire protection in Phase 1 development. The Transportation Master Plan noted increases in traffic volume, and with construction of the proposed McKay Interchange necessitates an expansion from two lanes to three (west of Reid) and five (Reid to Highway 400) lanes. Funding for this project is partially front-ended by Developers to provide servicing required for Phase 1 of growth-related development in the secondary plan area.

# PROJECT EXPENDITURE AND FUNDING

## Expenditure (in 000's):

	Prior Approvals	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	Total
Design - Request	\$2,803	\$2,408	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$5,210
Property - Request	\$4,994	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$4,994
Utilities - Request	\$234	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$234
Construction - Request	\$11,212	\$0	\$3,763	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$14,975
Design - Forecast	\$0	\$0	\$0	\$0	\$0	\$0	\$44	\$0	\$0	\$0	\$0	\$44
Property - Forecast	\$0	\$0	\$321	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$321
Utilities - Forecast	\$0	\$0	\$0	\$3,074	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$3,074
Construction - Forecast	\$0	\$0	\$0	\$0	\$0	\$7,659	\$7,659	\$0	\$0	\$0	\$0	\$15,317
Total	\$19,243	\$2,408	\$4,084	\$3,074	\$0	\$7,659	\$7,703	\$0	\$0	\$0	\$0	\$44,170

## Funding (in 000's):

	Prior Approvals	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	Total
Developer Front Ending (Annex) - Developer Build	\$17,738	\$2,267	\$4,078	\$2,891	\$0	\$6,590	\$6,628	\$0	\$0	\$0	\$0	\$40,193
Debenture Proceeds - Tax	\$856	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$856
Contribution from Development Charge Reserves	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Contribution from DC Stormwater FMB Reserve	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Contribution from DC Roads Annex Reserve	\$254	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$254
Contribution from Reserves	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Contribution from Tax Capital Reserve	\$394	\$141	\$6	\$183	\$0	\$1,069	\$1,075	\$0	\$0	\$0	\$0	\$2,867
Total	\$19,243	\$2,408	\$4,084	\$3,074	\$0	\$7,659	\$7,703	\$0	\$0	\$0	\$0	\$44,170

Expense amounts in **bold text** – 2021 Budget Request

Expense amounts in shaded text – Previously Committed Funding

## 2021 Capital Project Detail Report

**Project Title:** NRP- HNS Allandale A Neighbourhood Reconstruction

**Project Number:** EN1282

**Department:** Infrastructure Department

**Rationale:** Most of the infrastructure in this neighbourhood was constructed in the early to mid 1950s and is at or approaching the end of its maximum potential life. It has experienced age-related deterioration or physical failure (watermain breaks, etc.), and is in need of replacement. This neighbourhood was identified as a candidate for full Right of Way reconstruction based on aggregated risk associated with surface and subsurface infrastructure. Given the age and deteriorated condition of infrastructure, other lifecycle strategies (status quo, do nothing/run to failure, operate/maintain differently, and/or rehabilitate/refurbish) are not expected to significantly extend the existing remaining life of current assets or deliver expected service levels.

Full reconstruction of the Right of Way will improve service levels to the community, allow the City to monitor the performance of the assets over time, and bundle the application of future lifecycle activities together. This will reduce capital and operating costs in the long term, minimize disruption to the community, and limit environmental damages from construction.

**PROJECT EXPENDITURE AND FUNDING****Expenditure (in 000's):**

	Prior Approvals	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	Total
PreDesign - Request	\$70	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$70
Design - Request	<b>\$942</b>	<b>\$361</b>	<b>\$361</b>	<b>\$361</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$2,023</b>
Property - Request	\$650	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$650
Utilities - Forecast	\$0	\$0	\$1,272	\$1,272	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$2,544
Construction - Forecast	\$0	\$0	\$0	\$0	\$5,269	\$5,269	\$5,269	\$5,269	\$0	\$0	\$0	\$21,077
CSR - Request	\$1	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1
<b>Total</b>	<b>\$1,663</b>	<b>\$361</b>	<b>\$1,633</b>	<b>\$1,633</b>	<b>\$5,269</b>	<b>\$5,269</b>	<b>\$5,269</b>	<b>\$5,269</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$26,365</b>

**Funding (in 000's):**

	Prior Approvals	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	Total
Developer Contributions	\$0	\$0	\$0	\$0	\$22	\$6	\$0	\$0	\$0	\$0	\$0	\$28
Contribution from Tax Capital Reserve	\$1,296	\$260	\$1,532	\$1,532	\$3,772	\$3,788	\$3,794	\$3,794	\$0	\$0	\$0	\$19,766
Contribution from WW Capital Reserve	\$182	\$58	\$58	\$58	\$843	\$843	\$843	\$843	\$0	\$0	\$0	\$3,727
Contribution from Water Capital Reserve	\$185	\$44	\$44	\$44	\$632	\$632	\$632	\$632	\$0	\$0	\$0	\$2,844
<b>Total</b>	<b>\$1,663</b>	<b>\$361</b>	<b>\$1,633</b>	<b>\$1,633</b>	<b>\$5,269</b>	<b>\$5,269</b>	<b>\$5,269</b>	<b>\$5,269</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$26,365</b>

Expense amounts in **bold text** – 2021 Budget Request

Expense amounts in shaded text – Previously Committed Funding



## 2021 Capital Project Detail Report

**Project Title:** NRP- HNS Allandale B Neighbourhood Reconstruction

**Project Number:** EN1281

**Department:** Infrastructure Department

**Rationale:** Much of the infrastructure in this area is approaching the end of its useful life and needs to be replaced. This neighbourhood was identified as a candidate for full Right of Way reconstruction based on aggregated risk associated with surface and subsurface infrastructure. Given the age and deteriorated condition of infrastructure, other lifecycle strategies (status quo, do nothing/run to failure, operate/maintain differently, and/or rehabilitate/refurbish) are not expected to significantly extend the existing remaining life of current assets or deliver expected service levels. In addition, numerous assets in the project area are undersized based on current City standards.

Full reconstruction of the Right of Ways in this neighbourhood will improve service levels to the community and reduce the risk of asset failures and service disruptions. This will reduce capital and operating costs in the long term, minimize disruption to the community, and limit environmental damage from construction.

**PROJECT EXPENDITURE AND FUNDING****Expenditure (in 000's):**

	Prior Approvals	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	Total
PreDesign - Request	\$70	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$70
Design - Request	<b>\$420</b>	<b>\$160</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$580</b>
Utilities - Forecast	\$0	\$0	\$0	\$0	\$2,442	\$0	\$0	\$0	\$0	\$0	\$0	\$2,442
Construction - Forecast	\$0	\$0	\$0	\$0	\$0	\$3,182	\$5,051	\$5,051	\$0	\$0	\$0	\$13,285
CSR - Request	\$23	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$23
Total	\$513	\$160	\$0	\$0	\$2,442	\$3,182	\$5,051	\$5,051	\$0	\$0	\$0	\$16,400

**Funding (in 000's):**

	Prior Approvals	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	Total
Developer Contributions	\$0	\$0	\$0	\$0	\$0	\$6	\$4	\$0	\$0	\$0	\$0	\$9
Contribution from Federal Gas Tax Reserve	\$54	\$0	\$0	\$0	\$0	\$1,757	\$3,296	\$3,300	\$0	\$0	\$0	\$8,408
Contribution from Tax Capital Reserve	\$254	\$160	\$0	\$0	\$2,442	\$139	\$451	\$451	\$0	\$0	\$0	\$3,897
Contribution from WW Capital Reserve	\$101	\$0	\$0	\$0	\$0	\$640	\$650	\$650	\$0	\$0	\$0	\$2,041
Contribution from Water Capital Reserve	\$105	\$0	\$0	\$0	\$0	\$640	\$650	\$650	\$0	\$0	\$0	\$2,045
Total	\$513	\$160	\$0	\$0	\$2,442	\$3,182	\$5,051	\$5,051	\$0	\$0	\$0	\$16,400

Expense amounts in **bold text** – 2021 Budget Request

Expense amounts in shaded text – Previously Committed Funding

## 2021 Capital Project Detail Report

**Project Title:** NRP- HNS Brock Park Neighbourhood Reconstruction

**Project Number:** EN1318

**Department:** Infrastructure Department

**Rationale:** Most of the infrastructure in this neighbourhood was constructed in the early to mid 1950s and is at or approaching the end of its maximum potential life. It has experienced age-related deterioration or physical failure (watermain breaks, etc.), and is in need of replacement. This neighbourhood was identified as a candidate for full Right of Way reconstruction based on aggregated risk associated with surface and subsurface infrastructure. Given the age and deteriorated condition of infrastructure, other lifecycle strategies (status quo, do nothing/run to failure, operate/maintain differently, and/or rehabilitate/refurbish) are not expected to significantly extend the existing remaining life of current assets or deliver expected service levels.

Full reconstruction of the Right of Ways in this neighbourhood will improve service levels to the community and reduce the risk of asset failures and service disruptions. This will reduce capital and operating costs in the long term, minimize disruption to the community, and limit environmental damage from construction.

### **PROJECT EXPENDITURE AND FUNDING**

#### **Expenditure (in 000's):**

	Prior Approvals	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	Total
<b>Design - Request</b>	<b>\$513</b>	<b>\$540</b>	<b>\$307</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$1,360</b>
<b>Utilities - Request</b>	<b>\$0</b>	<b>\$1,490</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$1,490</b>
<b>Utilities - Forecast</b>	\$0	\$0	\$0	\$0	\$1,490	\$0	\$0	\$0	\$0	\$0	\$0	\$1,490
<b>Construction - Forecast</b>	\$0	\$0	\$4,627	\$0	\$0	\$5,698	\$5,841	\$0	\$0	\$0	\$0	\$16,166
<b>Total</b>	<b>\$513</b>	<b>\$2,030</b>	<b>\$4,934</b>	<b>\$0</b>	<b>\$1,490</b>	<b>\$5,698</b>	<b>\$5,841</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$20,506</b>

#### **Funding (in 000's):**

	Prior Approvals	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	Total
<b>Contribution from Tax Capital Reserve</b>	\$393	\$1,915	\$3,819	\$0	\$1,490	\$4,508	\$4,651	\$0	\$0	\$0	\$0	\$16,776
<b>Contribution from WW Capital Reserve</b>	\$121	\$55	\$505	\$0	\$0	\$570	\$570	\$0	\$0	\$0	\$0	\$1,820
<b>Contribution from Water Capital Reserve</b>	\$0	\$60	\$610	\$0	\$0	\$620	\$620	\$0	\$0	\$0	\$0	\$1,910
<b>Total</b>	<b>\$513</b>	<b>\$2,030</b>	<b>\$4,934</b>	<b>\$0</b>	<b>\$1,490</b>	<b>\$5,698</b>	<b>\$5,841</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$20,506</b>

Expense amounts in **bold text** – 2021 Budget Request

Expense amounts in shaded text – Previously Committed Funding

## 2021 Capital Project Detail Report

**Project Title:** NRP- HNS Queens Park A1 Neighbourhood Reconstruction

**Project Number:** EN1280

**Department:** Infrastructure Department

**Rationale:** Sophia Creek runs just north of Sophia St. W, and flow is directed southwest toward Toronto Street via two box culverts installed between 1920 and 1950. These culverts run beneath several residential properties and two businesses. Both are in poor to very poor condition, and pose significant flooding and safety risks. Other buried infrastructure in the neighbourhood, including watermains, sanitary sewers, and storm sewers, is in poor to very poor physical condition and much of it is under-sized. This infrastructure has a high probability of failure. This neighbourhood was identified as a candidate for full Right of Way reconstruction based on aggregated risk associated with surface and subsurface infrastructure. Given the age and deteriorated condition of infrastructure, other life-cycle strategies (status quo, do nothing/run to failure, operate/maintain differently, and/or rehabilitate/refurbish) are not expected to significantly extend the remaining life of current assets or deliver expected service levels.

Full reconstruction of the Right of Ways in this neighbourhood will improve service levels to the community and reduce the risk of asset failures and service disruptions. This will reduce capital and operating costs in the long term, minimize disruption to the community, and limit environmental damage from construction.

<b><u>PROJECT EXPENDITURE AND FUNDING</u></b>												
<b><u>Expenditure (in 000's):</u></b>												
	<b>Prior Approvals</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>2030</b>	<b>Total</b>
<b>PreDesign - Request</b>	\$70	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$70
<b>Design - Request</b>	<b>\$285</b>	<b>\$330</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$615</b>
<b>Utilities - Request</b>	<b>\$975</b>	<b>\$591</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$1,566</b>
<b>Construction - Forecast</b>	\$0	\$0	\$3,565	\$4,095	\$1,000	\$0	\$0	\$0	\$0	\$0	\$0	\$8,660
<b>Total</b>	\$1,330	\$921	\$3,565	\$4,095	\$1,000	\$0	\$0	\$0	\$0	\$0	\$0	\$10,911
<b><u>Funding (in 000's):</u></b>												
	<b>Prior Approvals</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>2030</b>	<b>Total</b>
<b>Contribution from Tax Capital Reserve</b>	\$1,263	\$846	\$2,015	\$3,413	\$1,000	\$0	\$0	\$0	\$0	\$0	\$0	\$8,536
<b>Contribution from WW Capital Reserve</b>	\$34	\$35	\$800	\$275	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,144
<b>Contribution from Water Capital Reserve</b>	\$34	\$40	\$750	\$407	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,231
<b>Total</b>	\$1,330	\$921	\$3,565	\$4,095	\$1,000	\$0	\$0	\$0	\$0	\$0	\$0	\$10,911

Expense amounts in **bold text** – 2021 Budget Request

Expense amounts in shaded text – Previously Committed Funding

## 2021 Capital Project Detail Report

**Project Title:** NRP- HNS Queens Park B Neighbourhood Reconstruction

**Project Number:** EN1336

**Department:** Infrastructure Department

**Rationale:** Most of the subsurface infrastructure in this neighbourhood was constructed in the early 1910's to 1930's and is at or approaching the end of its maximum potential life. It has experienced age-related deterioration or physical failure (watermain breaks, sanitary lateral backups, etc.), and is in need of replacement. Roadways in this area were identified as candidates for full Right of Way reconstruction based on aggregated risk associated with surface and subsurface infrastructure. Although the MPL for roadways in this area should generally be acceptable, actual PCI values rate the physical condition of these roadways in the range of fair to very poor, the majority of which are poor. Given the age and deteriorated condition of infrastructure, other lifecycle strategies (status quo, do nothing/run to failure, operate/maintain differently, and/or rehabilitate/refurbish) are not expected to significantly extend the existing remaining life of current assets.

Full reconstruction of the Right of Way will improve service levels to the community, allow the City to monitor the performance of the assets over time, and bundle the application of future lifecycle activities together. This will reduce capital and operating costs in the long term, minimize disruption to the community, and limit environmental damages from construction.

**PROJECT EXPENDITURE AND FUNDING****Expenditure (in 000's):**

	Prior Approvals	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	Total
PreDesign - Request	\$100	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$100
Design - Request	<b>\$591</b>	<b>\$25</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$616</b>
Property - Request	<b>\$0</b>	<b>\$1,092</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$1,092</b>
Utilities - Forecast	\$0	\$0	\$0	\$0	\$1,679	\$2,518	\$0	\$0	\$0	\$0	\$0	\$4,197
Construction - Forecast	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$4,197	\$8,394	\$8,394	\$0	\$20,984
<b>Total</b>	<b>\$691</b>	<b>\$1,117</b>	<b>\$0</b>	<b>\$0</b>	<b>\$1,679</b>	<b>\$2,518</b>	<b>\$0</b>	<b>\$4,197</b>	<b>\$8,394</b>	<b>\$8,394</b>	<b>\$0</b>	<b>\$26,989</b>

**Funding (in 000's):**

	Prior Approvals	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	Total
Contribution from Federal Gas Tax Reserve	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Contribution from Tax Capital Reserve	\$543	\$1,117	\$0	\$0	\$1,679	\$2,518	\$0	\$3,197	\$6,504	\$6,504	\$0	\$22,061
Contribution from WW Capital Reserve	\$100	\$0	\$0	\$0	\$0	\$0	\$0	\$500	\$950	\$950	\$0	\$2,500
Contribution from Water Capital Reserve	\$48	\$0	\$0	\$0	\$0	\$0	\$0	\$500	\$940	\$940	\$0	\$2,428
<b>Total</b>	<b>\$691</b>	<b>\$1,117</b>	<b>\$0</b>	<b>\$0</b>	<b>\$1,679</b>	<b>\$2,518</b>	<b>\$0</b>	<b>\$4,197</b>	<b>\$8,394</b>	<b>\$8,394</b>	<b>\$0</b>	<b>\$26,989</b>

Expense amounts in **bold text** – 2021 Budget Request

Expense amounts in shaded text – Previously Committed Funding

## 2021 Capital Project Detail Report

**Project Title:** NRP- Wellington D1 Neighbourhood Reconstruction

**Project Number:** EN1238

**Department:** Infrastructure Department

**Rationale:** This neighbourhood contains some of the City's oldest subsurface infrastructure outside of the downtown core. This neighbourhood was identified as a candidate for full Right of Way reconstruction based on aggregated risk associated with surface and subsurface infrastructure. Given the age and deteriorated condition of infrastructure, other lifecycle strategies (status quo, do nothing/run to failure, operate/maintain differently, and/or rehabilitate/refurbish) are not expected to significantly extend the existing remaining life of current assets or deliver expected service levels.

Full reconstruction of the Right of Ways in this neighbourhood will improve service levels to the community and reduce the risk of asset failures and service disruptions. This will reduce capital and operating costs in the long term, minimize disruption to the community, and limit environmental damage from construction.

### **PROJECT EXPENDITURE AND FUNDING**

#### **Expenditure (in 000's):**

	<b>Prior Approvals</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>2030</b>	<b>Total</b>
<b>PreDesign - Request</b>	\$70	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$70
<b>Design - Request</b>	<b>\$324</b>	<b>\$242</b>	<b>\$242</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$807</b>
<b>Utilities - Request</b>	\$900	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$900
<b>Utilities - Forecast</b>	\$0	\$0	\$375	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$375
<b>Construction - Forecast</b>	\$0	\$0	\$0	\$3,788	\$3,788	\$0	\$0	\$0	\$0	\$0	\$0	\$7,576
<b>Total</b>	\$1,294	\$242	\$617	\$3,788	\$3,788	\$0	\$0	\$0	\$0	\$0	\$0	\$9,728

#### **Funding (in 000's):**

	<b>Prior Approvals</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>2030</b>	<b>Total</b>
<b>Contribution from Tax Capital Reserve</b>	\$1,113	\$174	\$549	\$2,727	\$2,727	\$0	\$0	\$0	\$0	\$0	\$0	\$7,291
<b>Contribution from WW Capital Reserve</b>	\$113	\$39	\$39	\$606	\$606	\$0	\$0	\$0	\$0	\$0	\$0	\$1,403
<b>Contribution from Water Capital Reserve</b>	\$68	\$29	\$29	\$455	\$455	\$0	\$0	\$0	\$0	\$0	\$0	\$1,035
<b>Total</b>	\$1,294	\$242	\$617	\$3,788	\$3,788	\$0	\$0	\$0	\$0	\$0	\$0	\$9,728

Expense amounts in **bold text** – 2021 Budget Request

Expense amounts in shaded text – Previously Committed Funding

## 2021 Capital Project Detail Report

**Project Title:** NRP- Wellington D2 Neighbourhood Reconstruction

**Project Number:** EN1240

**Department:** Infrastructure Department

**Rationale:** Most of the infrastructure in this neighbourhood was constructed in the early to mid 1950s and is at or approaching the end of its maximum potential life. It has experienced age-related deterioration or physical failure (watermain breaks, etc.), and is in need of replacement. This neighbourhood was identified as a candidate for full Right of Way reconstruction based on aggregated risk associated with surface and subsurface infrastructure. Given the age and deteriorated condition of infrastructure, other lifecycle strategies (status quo, do nothing/run to failure, operate/maintain differently, and/or rehabilitate/refurbish) are not expected to significantly extend the existing remaining life of current assets or deliver expected service levels.

Full reconstruction of the Right of Ways in this neighbourhood will improve service levels to the community and reduce the risk of asset failures and service disruptions. This will reduce capital and operating costs in the long term, minimize disruption to the community, and limit environmental damage from construction.

### **PROJECT EXPENDITURE AND FUNDING**

#### **Expenditure (in 000's):**

	<b>Prior Approvals</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>2030</b>	<b>Total</b>
<b>PreDesign - Request</b>	\$70	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$70
<b>Design - Request</b>	<b>\$458</b>	<b>\$235</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$693</b>
<b>Utilities - Forecast</b>	\$0	\$0	\$0	\$0	\$0	\$1,323	\$0	\$0	\$0	\$0	\$0	\$1,323
<b>Construction - Forecast</b>	\$0	\$0	\$0	\$0	\$0	\$0	\$4,418	\$4,418	\$0	\$0	\$0	\$8,835
<b>Total</b>	\$528	\$235	\$0	\$0	\$0	\$1,323	\$4,418	\$4,418	\$0	\$0	\$0	\$10,921

#### **Funding (in 000's):**

	<b>Prior Approvals</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>2030</b>	<b>Total</b>
<b>Contribution from Tax Capital Reserve</b>	\$346	\$169	\$0	\$0	\$0	\$1,323	\$3,181	\$3,181	\$0	\$0	\$0	\$8,199
<b>Contribution from WW Capital Reserve</b>	\$96	\$38	\$0	\$0	\$0	\$0	\$707	\$707	\$0	\$0	\$0	\$1,547
<b>Contribution from Water Capital Reserve</b>	\$86	\$28	\$0	\$0	\$0	\$0	\$530	\$530	\$0	\$0	\$0	\$1,175
<b>Total</b>	\$528	\$235	\$0	\$0	\$0	\$1,323	\$4,418	\$4,418	\$0	\$0	\$0	\$10,921

Expense amounts in **bold text** – 2021 Budget Request

Expense amounts in shaded text – Previously Committed Funding



## 2021 Capital Project Detail Report

**Project Title:** Penetang Street ROW Replacement - Mulcaster to Duckworth

**Project Number:** 000069

**Department:** Infrastructure Department

**Rationale:** Penetang St requires rehabilitation work in advance of the proposed full reconstruction of this road. The schedule for the proposed reconstruction work has been deferred in the Capital Plan due to financial constraints. The asphalt work will address problems on the surface of the roadway by providing a quality top layer of asphalt pavement. This will be a cost-effective short-term approach that will maintain levels of service and decrease the risk assumed by the City.

### **PROJECT EXPENDITURE AND FUNDING**

#### **Expenditure (in 000's):**

	Prior Approvals	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	Total
Construction - Request	\$0	\$1,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,000
PreDesign - Forecast	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$170	\$170
<b>Total</b>	\$0	\$1,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$170	\$1,170

#### **Funding (in 000's):**

	Prior Approvals	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	Total
Contribution from Tax Capital Reserve	\$0	\$1,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$170	\$1,170
Contribution from WW Capital Reserve	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Contribution from Water Capital Reserve	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
<b>Total</b>	\$0	\$1,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$170	\$1,170

Expense amounts in **bold text** – 2021 Budget Request

Expense amounts in shaded text – Previously Committed Funding

## 2021 Capital Project Detail Report

**Project Title:** PRV Chamber Replacement Program

**Project Number:** EN1252

**Department:** Infrastructure Department

**Rationale:** The City of Barrie has 29 Pressure Reducing Valves (PRVs) and chambers, excluding those installed in the last 1 to 2 years, on the water distribution system supplying water between pressure zones. They reduce pressure spikes and increase fire water supply. They are a critical component of the water supply, with some of the pressure zones having only one PRV. Many PRV chambers throughout the City are deficient and require significant maintenance to keep running, and do not have SCADA capabilities. The City has also adopted a new standard for PRV chambers, which the older assets do not meet. Staff recently completed a condition assessment and strategic plan for its existing PRVs and chambers to determine their current condition, remaining useful life, major maintenance and/or replacement needs. The proposed solution includes immediate (0-2 years), medium (3-5 years), and long term (6-10 years) replacement requirements. The PRVs in need of immediate replacement were replaced in 2015. This program is to replace the PRV chambers where the replacement was noted as medium and long term in the 2014 PRV Condition Assessment Report. This will minimize risk of PRV and chamber failure, and ensure safe and adequate drinking water and fire protection supplies for the community.

### **PROJECT EXPENDITURE AND FUNDING**

#### **Expenditure (in 000's):**

	Prior Approvals	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	Total
Design - Request	\$205	\$137	\$137	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$479
Construction - Request	\$2,105	\$676	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$2,781
Design - Forecast	\$0	\$0	\$0	\$372	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$372
Construction - Forecast	\$0	\$0	\$0	\$1,130	\$1,695	\$0	\$0	\$0	\$0	\$0	\$0	\$2,824
<b>Total</b>	\$2,310	\$813	\$137	\$1,501	\$1,695	\$0	\$0	\$0	\$0	\$0	\$0	\$6,456

#### **Funding (in 000's):**

	Prior Approvals	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	Total
Contribution from Water Capital Reserve	\$2,310	\$813	\$137	\$1,501	\$1,695	\$0	\$0	\$0	\$0	\$0	\$0	\$6,456
<b>Total</b>	\$2,310	\$813	\$137	\$1,501	\$1,695	\$0	\$0	\$0	\$0	\$0	\$0	\$6,456

Expense amounts in **bold text** – 2021 Budget Request

Expense amounts in shaded text – Previously Committed Funding

## 2021 Capital Project Detail Report

**Project Title:** Queen St. ROW Reconstruction- St. Vincent Street to Berczy Street

**Project Number:** EN1398

**Department:** Infrastructure Department

**Rationale:** The infrastructure in the proposed area is experiencing age-related deterioration (watermain breaks, holes in sanitary sewer, pothole in the road, etc.) and physical failure. Multiple assets are approaching the end of their expected useful lives, and are in poor to very poor condition and are in need of replacement, however the water main in particular is driving the urgency of this project. Queen St. was identified as a candidate for full right-of-way reconstruction based on the aggregated risk associated with surface and subsurface infrastructure. Furthermore, capacity deficiencies (fire flow, road width, storm sewer size) can only be met through the replacement and reconstruction of these assets. Given the age, material, condition, and size of the infrastructure, other lifecycle strategies (status quo, do nothing/run to failure, operate/maintain differently, and/or rehabilitate/refurbish) are not expected to significantly extend the existing remaining life of current assets or deliver expected service levels.

Full reconstruction of the right-of-way will improve service levels to the community and reduce the risk of asset failures and service disruptions. This will reduce capital and operating costs in the long term, and minimize disruption to the community.

### **PROJECT EXPENDITURE AND FUNDING**

#### **Expenditure (in 000's):**

	<b>Prior Approvals</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>2030</b>	<b>Total</b>
<b>Design - Request</b>	<b>\$310</b>	<b>\$407</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$717</b>
<b>Utilities - Forecast</b>	\$0	\$0	\$758	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$758
<b>Construction - Forecast</b>	\$0	\$0	\$0	\$2,948	\$2,948	\$0	\$0	\$0	\$0	\$0	\$0	\$5,896
<b>Total</b>	\$310	\$407	\$758	\$2,948	\$2,948	\$0	\$0	\$0	\$0	\$0	\$0	\$7,371

#### **Funding (in 000's):**

	<b>Prior Approvals</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>2030</b>	<b>Total</b>
<b>Contribution from Tax Capital Reserve</b>	\$192	\$281	\$758	\$2,122	\$2,122	\$0	\$0	\$0	\$0	\$0	\$0	\$5,475
<b>Contribution from WW Capital Reserve</b>	\$59	\$65	\$0	\$472	\$472	\$0	\$0	\$0	\$0	\$0	\$0	\$1,068
<b>Contribution from Water Capital Reserve</b>	\$59	\$61	\$0	\$354	\$354	\$0	\$0	\$0	\$0	\$0	\$0	\$828
<b>Total</b>	\$310	\$407	\$758	\$2,948	\$2,948	\$0	\$0	\$0	\$0	\$0	\$0	\$7,371

Expense amounts in **bold text** – 2021 Budget Request

Expense amounts in shaded text – Previously Committed Funding

## 2021 Capital Project Detail Report

**Project Title:** Road Resurfacing Program

**Project Number:** EN1289

**Department:** Infrastructure Department

**Rationale:** The City owns and maintains over 1600 lane km of roads all of which require renewal activities at various points in their life-cycle to ensure that service levels to the public are met in the most financially efficient way possible. Timely application of road resurfacing activities preserves and protects the road structure, thereby preventing rapid deterioration in pavement condition and the need for costly reconstruction. Risks due to unsafe driving conditions are also reduced. Resurfacing has been demonstrated to be effective in reducing the life-cycle cost of roads when applied at the right time as a part of a comprehensive pavement preservation approach.

### **PROJECT EXPENDITURE AND FUNDING**

#### **Expenditure (in 000's):**

	Prior Approvals	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	Total
Design - Request	<b>\$700</b>	<b>\$250</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$950</b>
Construction - Request	<b>\$15,472</b>	<b>\$4,500</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$20,125</b>
Design - Forecast	\$0	\$0	\$300	\$325	\$375	\$400	\$400	\$400	\$400	\$400	\$0	\$3,000
Construction - Forecast	\$0	\$0	\$5,500	\$6,500	\$7,500	\$8,000	\$8,000	\$8,000	\$8,000	\$8,000	\$0	\$59,500
<b>Total</b>	<b>\$16,325</b>	<b>\$4,750</b>	<b>\$5,800</b>	<b>\$6,825</b>	<b>\$7,875</b>	<b>\$8,400</b>	<b>\$8,400</b>	<b>\$8,400</b>	<b>\$8,400</b>	<b>\$8,400</b>	<b>\$0</b>	<b>\$83,575</b>

#### **Funding (in 000's):**

	Prior Approvals	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	Total
Contribution from Federal Gas Tax Reserve	\$15,540	\$4,500	\$5,500	\$6,500	\$7,500	\$8,000	\$8,000	\$8,000	\$8,000	\$8,000	\$0	\$79,540
Contribution from Tax Capital Reserve	\$785	\$250	\$300	\$325	\$375	\$400	\$400	\$400	\$400	\$400	\$0	\$4,035
<b>Total</b>	<b>\$16,325</b>	<b>\$4,750</b>	<b>\$5,800</b>	<b>\$6,825</b>	<b>\$7,875</b>	<b>\$8,400</b>	<b>\$8,400</b>	<b>\$8,400</b>	<b>\$8,400</b>	<b>\$8,400</b>	<b>\$0</b>	<b>\$83,575</b>

Expense amounts in **bold text** – 2021 Budget Request

Expense amounts in shaded text – Previously Committed Funding

## 2021 Capital Project Detail Report

**Project Title:** Salem Road New Transmission Watermain and Road Expansion - County Road 27 to Dunn (Developer)

**Project Number:** EN1276

**Department:** Infrastructure Department

**Rationale:** The City of Barrie Growth Studies and Transportation Master Plan identified Salem Road as a rural road in poor condition, with no current City subsurface infrastructure. The Water Distribution Master plan recommends the installation of a trunk watermain along with the associated local wastewater collection and transportation improvements be implemented. Salem Road is a rural road in poor condition, and anticipated traffic volume increases associated with Phase 1 development in the secondary plan area have resulted in a need to proactively address capacity issues. Transportation improvements are included in both the Infrastructure Implementation Plan and the MOU with developers in the secondary plan area, as well as the Transportation Master Plan. Road widening will increase traffic capacity, and construction of the sidewalks adjacent to developing areas will allow for safer and accessible movement of pedestrians. The Water Distribution Master Plan calls for additional potable water and fire protection to service growth related to Phase 1 of the Salem Secondary Plan. Funding for this project is partially front-ended by Developers to provide servicing required for Phase 1 of growth-related development in the secondary plan area.

# PROJECT EXPENDITURE AND FUNDING

## Expenditure (in 000's):

	Prior Approvals	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	Total
Design - Request	\$1,839	\$15	\$226	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$2,080
Property - Request	\$3,430	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$3,430
Construction - Forecast	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$250	\$250
Total	\$5,269	\$15	\$226	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$250	\$5,760

## Funding (in 000's):

	Prior Approvals	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	Total
Developer Front Ending (Annex) - Developer Build	\$4,511	\$15	\$226	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$213	\$4,964
Debenture Proceeds - Tax	\$758	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$758
Contribution from Development Charge Reserves	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Contribution from DC Stormwater FMB Reserve	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Contribution from DC Roads Annex Reserve	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Contribution from Reserves	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Contribution from Tax Capital Reserve	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$38	\$38
Total	\$5,269	\$15	\$226	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$250	\$5,760

Expense amounts in **bold text** – 2021 Budget Request

Expense amounts in shaded text – Previously Committed Funding

## 2021 Capital Project Detail Report

**Project Title:** Secondary Plan Area New Trail Development (Developer)

**Project Number:** EN1442

**Department:** Infrastructure Department

**Rationale:** Design for the Phase 1 trails ahead of construction implementation by the developer. Projected timelines will be adjusted depending on how fast the Phases 1 and 2 subdivisions are being implemented (partly impacted by market demands and infrastructure implementation).

<b>PROJECT EXPENDITURE AND FUNDING</b>												
<b><u>Expenditure (in 000's):</u></b>												
	<b>Prior Approvals</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>2030</b>	<b>Total</b>
<b>Construction - Request</b>	<b>\$210</b>	<b>\$875</b>	<b>\$875</b>	<b>\$841</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$2,801</b>
<b>Total</b>	\$210	\$875	\$875	\$841	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$2,801
<b><u>Funding (in 000's):</u></b>												
	<b>Prior Approvals</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>2030</b>	<b>Total</b>
<b>Developer Front Ending (Annex) - Developer Build</b>	\$179	\$744	\$744	\$715	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$2,381
<b>Contribution from DC Parks and Recreation Reserve</b>	\$30	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$30
<b>Contribution from Reserves</b>	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
<b>Contribution from Cash-In-Lieu Parkland Reserve</b>	\$2	\$131	\$131	\$126	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$390
<b>Contribution from Tax Capital Reserve</b>	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
<b>Total</b>	\$210	\$875	\$875	\$841	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$2,801

Expense amounts in **bold text** – 2021 Budget Request

Expense amounts in shaded text – Previously Committed Funding

## 2021 Capital Project Detail Report

**Project Title:** Sewer Rehabilitation Program

**Project Number:** EN1184

**Department:** Infrastructure Department

**Rationale:** Throughout the City there are many sanitary sewers that require rehabilitation. A program of sanitary rehabilitation using trenchless technologies will minimize capital costs by reducing road restoration requirements and will also reduce future operational costs and staff time associated with repeated maintenance activities or emergency repairs.

### **PROJECT EXPENDITURE AND FUNDING**

#### **Expenditure (in 000's):**

	<b>Prior Approvals</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>2030</b>	<b>Total</b>
<b>Design - Request</b>	<b>\$85</b>	<b>\$20</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$105</b>
<b>Construction - Request</b>	<b>\$1,050</b>	<b>\$300</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$1,350</b>
<b>Design - Forecast</b>	\$0	\$0	\$20	\$20	\$20	\$20	\$20	\$20	\$20	\$0	\$0	\$140
<b>Construction - Forecast</b>	\$0	\$0	\$300	\$300	\$300	\$300	\$300	\$300	\$300	\$300	\$0	\$2,400
<b>Total</b>	\$1,135	\$320	\$320	\$320	\$320	\$320	\$320	\$320	\$320	\$300	\$0	\$3,995

#### **Funding (in 000's):**

	<b>Prior Approvals</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>2030</b>	<b>Total</b>
<b>Contribution from WW Capital Reserve</b>	\$1,135	\$320	\$320	\$320	\$320	\$320	\$320	\$320	\$320	\$300	\$0	\$3,995
<b>Total</b>	\$1,135	\$320	\$320	\$320	\$320	\$320	\$320	\$320	\$320	\$300	\$0	\$3,995

Expense amounts in **bold text** – 2021 Budget Request

Expense amounts in shaded text – Previously Committed Funding



## 2021 Capital Project Detail Report

**Project Title:** Sidewalk Infill Program

**Project Number:** EN1185

**Department:** Infrastructure Department

**Rationale:** Sidewalks are an integral part of the community and allow people of all abilities to safely traverse the Right of Way. Under the Accessibility for Ontarians with Disabilities Act, specifically the Integrated Accessibility Standards Regulation (Ontario Regulation 191/11), municipalities are required to improve accessibility in both new and existing areas as of January 1st, 2015. The secondary significant benefit of this program is that these projects are relatively low cost allowing numerous projects throughout the City to be completed on a yearly basis. The infill program will also generate operational efficiencies in snow removal, and will reduce public health and safety risks by providing well-connected active transportation networks.

### **PROJECT EXPENDITURE AND FUNDING**

#### **Expenditure (in 000's):**

	<b>Prior Approvals</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>2030</b>	<b>Total</b>
<b>Design - Request</b>	<b>\$118</b>	<b>\$50</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$168</b>
<b>Construction - Request</b>	\$1,250	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,250
<b>Design - Forecast</b>	\$0	\$0	\$50	\$50	\$50	\$50	\$50	\$50	\$0	\$0	\$0	\$300
<b>Construction - Forecast</b>	\$0	\$0	\$350	\$350	\$450	\$450	\$450	\$450	\$0	\$0	\$0	\$2,500
<b>Total</b>	\$1,368	\$50	\$400	\$400	\$500	\$500	\$500	\$500	\$0	\$0	\$0	\$4,218

#### **Funding (in 000's):**

	<b>Prior Approvals</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>2030</b>	<b>Total</b>
<b>Contribution from Development Charge Reserves</b>	\$64	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$64
<b>Contribution from DC Reserves Tax</b>	\$1,205	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,205
<b>Contribution from DC Roads Reserve</b>	\$0	\$48	\$380	\$380	\$475	\$475	\$475	\$475	\$0	\$0	\$0	\$2,708
<b>Contribution from Tax Capital Reserve</b>	\$98	\$3	\$20	\$20	\$25	\$25	\$25	\$25	\$0	\$0	\$0	\$241
<b>Total</b>	\$1,368	\$50	\$400	\$400	\$500	\$500	\$500	\$500	\$0	\$0	\$0	\$4,218

Expense amounts in **bold text** – 2021 Budget Request

Expense amounts in shaded text – Previously Committed Funding

## 2021 Capital Project Detail Report

**Project Title:** Sophia Creek Culvert Expansion - Grove, 130m East of Davidson

**Project Number:** EN1186

**Department:** Infrastructure Department

**Rationale:** The culvert replacement is required to minimize the likelihood of culvert failure which could result in flooding and damage to both public and private property. The culvert replacement will maintain existing conditions, minimize the likelihood of flooding and decrease the risk assumed by the City.

# **PROJECT EXPENDITURE AND FUNDING**

## **Expenditure (in 000's):**

	Prior Approvals	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	Total
Design - Request	\$189	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$189
Utilities - Request	<b>\$225</b>	<b>\$240</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$465</b>
Construction - Request	<b>\$0</b>	<b>\$1,144</b>	<b>\$826</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$1,970</b>
CSR - Request	\$35	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$35
Total	\$449	\$1,384	\$826	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$2,659

## **Funding (in 000's):**

	Prior Approvals	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	Total
Contribution from Development Charge Reserves	\$21	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$21
Contribution from DC Reserves Tax	\$9	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$9
Contribution from Federal Gas Tax Reserve	\$247	\$561	\$399	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,207
Contribution from DC Roads Reserve	\$0	\$164	\$45	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$209
Contribution from DC Stormwater FMB Reserve	\$0	\$459	\$327	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$786
Contribution from DC WW Collection FMB Reserve	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Contribution from Tax Capital Reserve	\$172	\$200	\$55	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$427
Contribution from WW Capital Reserve	\$1	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1
Total	\$449	\$1,384	\$826	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$2,659

Expense amounts in **bold text** – 2021 Budget Request

Expense amounts in shaded text – Previously Committed Funding

## 2021 Capital Project Detail Report

**Project Title:** Sophia Creek New Storm Pond - MacMorrison Park

**Project Number:** EN1242

**Department:** Infrastructure Department

**Rationale:** The construction of a stormwater attenuation facility in MacMorrison Park will result in approximately 30,000 cubic metres of storage for storm water. The resulting reduction in the flows downstream of the facility during a 100-year storm will be approximately 17%. Reducing peak flows will mitigate flooding through residential areas and the downtown core during storm events. The existing baseball diamond within the park will be relocated to another location in the City, through a separate capital project.

### **PROJECT EXPENDITURE AND FUNDING**

#### **Expenditure (in 000's):**

	Prior Approvals	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	Total
PreDesign - Request	\$21	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$21
Design - Request	<b>\$0</b>	<b>\$262</b>	<b>\$242</b>	<b>\$100</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$604</b>
Utilities - Forecast	\$0	\$0	\$0	\$198	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$198
Construction - Forecast	\$0	\$0	\$0	\$0	\$3,437	\$3,040	\$0	\$0	\$0	\$0	\$0	\$6,477
<b>Total</b>	\$21	\$262	\$242	\$298	\$3,437	\$3,040	\$0	\$0	\$0	\$0	\$0	\$7,300

#### **Funding (in 000's):**

	Prior Approvals	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	Total
Contribution from DC Reserves Tax	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Contribution from DC Stormwater FMB Reserve	\$9	\$118	\$109	\$134	\$1,547	\$1,368	\$0	\$0	\$0	\$0	\$0	\$3,285
Contribution from Tax Capital Reserve	\$12	\$144	\$133	\$164	\$1,890	\$1,672	\$0	\$0	\$0	\$0	\$0	\$4,015
<b>Total</b>	\$21	\$262	\$242	\$298	\$3,437	\$3,040	\$0	\$0	\$0	\$0	\$0	\$7,300

Expense amounts in **bold text** – 2021 Budget Request

Expense amounts in shaded text – Previously Committed Funding

## 2021 Capital Project Detail Report

**Project Title:** Sophia Creek Owen Tributary storm outlet from Memorial Square

**Project Number:** 000558

**Department:** Infrastructure Department

**Rationale:** The Sophia Creek Master Drainage Plan MDP EA update Problem/Opportunity Statement identified downstream of Peel Street, runoff from minor and major storm events will surcharge the trunk storm sewer and flood private and municipal property along Sophia Street from Peel to Bayfield, Owen, Clapperton and Bayfield Street from Sophia Street to Kempenfelt Bay. The flooding has caused historic damage to both private and municipal property and is a concern for public safety. The MDP is recommending the addition of tributary trunk storm sewers along Clapperton and Owen Streets to supplement the Bayfield Street trunk sewer.

These drainage works support the storm trunk sewer works constructed in Memorial Square 2018 (EN1111), Dunlop Street renewal 2019 (EN1167) and future Development and renewal works along Owen Street from Dunlop to Sophia Street including renewal project HNS The Grove A1 Neighbourhood Reconstruction. Projects 000798, 000046, and 000864 depend on this project being completed first.

### **PROJECT EXPENDITURE AND FUNDING**

#### **Expenditure (in 000's):**

	<b>Prior Approvals</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>2030</b>	<b>Total</b>
<b>PreDesign - Request</b>	<b>\$0</b>	<b>\$56</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$56</b>
<b>Design - Forecast</b>	\$0	\$0	\$195	\$585	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$780
<b>Utilities - Forecast</b>	\$0	\$0	\$0	\$0	\$361	\$0	\$0	\$0	\$0	\$0	\$0	\$361
<b>Construction - Forecast</b>	\$0	\$0	\$0	\$0	\$0	\$2,187	\$2,187	\$0	\$0	\$0	\$0	\$4,374
<b>Total</b>	\$0	\$56	\$195	\$585	\$361	\$2,187	\$2,187	\$0	\$0	\$0	\$0	\$5,570

#### **Funding (in 000's):**

	<b>Prior Approvals</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>2030</b>	<b>Total</b>
<b>Contribution from Tax Capital Reserve</b>	\$0	\$56	\$195	\$585	\$361	\$2,187	\$2,187	\$0	\$0	\$0	\$0	\$5,570
<b>Total</b>	\$0	\$56	\$195	\$585	\$361	\$2,187	\$2,187	\$0	\$0	\$0	\$0	\$5,570

Expense amounts in **bold text** – 2021 Budget Request

Expense amounts in shaded text – Previously Committed Funding

## 2021 Capital Project Detail Report

**Project Title:** Sophia Trunk Storm Sewers - Clapperton, Owen & Sophia (Dunlop to Peel)

**Project Number:** 000798

**Department:** Infrastructure Department

**Rationale:** Storm sewer improvements are needed to convey the 100 year controlled storm flows on Sophia Creek from Peel Street along Sophia St. and south along Owen and Clapperton to Dunlop. Under existing conditions there is significant flooding through downtown Barrie during major rainfall events. Currently, rainfall events greater than the 1:5 year storm are conveyed overland to Lake Simcoe. The proposed storm sewer will convey the 1:100 year return interval rain event to Lake Simcoe, mitigating the risk of future flooding through downtown Barrie.

In addition to the storm conveyance needs, a large portion of the infrastructure within these streets is approaching or past its anticipated useful life.

### **PROJECT EXPENDITURE AND FUNDING**

#### **Expenditure (in 000's):**

	Prior Approvals	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	Total
PreDesign - Request	\$0	\$91	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$91
Design - Forecast	\$0	\$0	\$894	\$810	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,704
Utilities - Forecast	\$0	\$0	\$0	\$0	\$946	\$946	\$0	\$0	\$0	\$0	\$0	\$1,891
Construction - Forecast	\$0	\$0	\$0	\$0	\$0	\$687	\$6,098	\$7,536	\$5,973	\$0	\$0	\$20,294
<b>Total</b>	\$0	\$91	\$894	\$810	\$946	\$1,633	\$6,098	\$7,536	\$5,973	\$0	\$0	\$23,980

#### **Funding (in 000's):**

	Prior Approvals	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	Total
Contribution from DC Stormwater FMB Reserve	\$0	\$0	\$225	\$225	\$0	\$0	\$1,076	\$2,064	\$2,120	\$0	\$0	\$5,710
Contribution from Tax Capital Reserve	\$0	\$91	\$479	\$479	\$946	\$946	\$3,232	\$4,132	\$2,792	\$0	\$0	\$13,096
Contribution from WW Capital Reserve	\$0	\$0	\$96	\$96	\$0	\$0	\$850	\$653	\$620	\$0	\$0	\$2,315
Contribution from Water Capital Reserve	\$0	\$0	\$94	\$9	\$0	\$687	\$941	\$687	\$441	\$0	\$0	\$2,859
<b>Total</b>	\$0	\$91	\$894	\$810	\$946	\$1,633	\$6,098	\$7,536	\$5,973	\$0	\$0	\$23,980

Expense amounts in **bold text** – 2021 Budget Request

Expense amounts in shaded text – Previously Committed Funding

## 2021 Capital Project Detail Report

**Project Title:** Sunnidale: Letitia-Wellington Transmission Watermain

**Project Number:** EN1013

**Department:** Infrastructure Department

**Rationale:** The new 600mm transmission watermain will provide security of supply to and from the Sunnidale Road reservoir to downtown Barrie. There are existing 500mm diameter watermain sections at Wellington and at Letitia ready to be interconnected. The 250 domestic watermain, storm and sanitary sewers require relocation around the proposed new structure.

MTO is proposing to reconstruct the Sunnidale Highway 400 Crossing starting in 2024.

**PROJECT EXPENDITURE AND FUNDING**

**Expenditure (in 000's):**

	Prior Approvals	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	Total
Design - Request	\$1,149	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,149
Property - Request	\$500	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$500
Utilities - Request	\$68	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$68
Construction - Request	<b>\$1,638</b>	<b>\$2,085</b>	<b>\$2,850</b>	<b>\$2,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$8,573</b>
Total	\$3,354	\$2,085	\$2,850	\$2,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$10,289

**Funding (in 000's):**

	Prior Approvals	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	Total
Contribution from Development Charge Reserves	(\$65)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	(\$65)
Contribution from DC Reserves Water	\$275	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$275
Contribution from DC Stormwater FMB Reserve	\$0	\$123	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$123
Contribution from DC Water Dist FMB Reserve	\$877	\$581	\$1,226	\$860	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$3,543
Contribution from DC WW Collection FMB Reserve	\$0	\$193	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$193
Contribution from Tax Capital Reserve	\$60	\$162	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$222
Contribution from WW Capital Reserve	\$0	\$255	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$255
Contribution from Water Capital Reserve	\$2,207	\$770	\$1,625	\$1,140	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$5,742
Total	\$3,354	\$2,085	\$2,850	\$2,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$10,289

Expense amounts in **bold text** – 2021 Budget Request

Expense amounts in shaded text – Previously Committed Funding



## 2021 Capital Project Detail Report

**Project Title:** SWTP Control System Upgrade

**Project Number:** 001016

**Department:** Infrastructure Department

**Rationale:** The Surface Water Treatment Plant (SWTP) as with all Membrane filtration plants, is reliant on computerized programmable logic controllers (PLCs) to continually control and actively assess the high level of treatment needed for the City's potable water supply.

The PLCs, as with all computerized systems, have a limited life due to obsolescence, technological advancements, software improvements and diminishing technology service supports. Replacement of these systems is required before 2025, when the PLCs are expected to reach their end-of-life.

### **PROJECT EXPENDITURE AND FUNDING**

#### **Expenditure (in 000's):**

	<b>Prior Approvals</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>2030</b>	<b>Total</b>
<b>Design - Request</b>	\$0	\$655	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$655
<b>Construction - Request</b>	\$0	\$247	\$2,224	\$2,471	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$4,942
<b>Total</b>	\$0	\$902	\$2,224	\$2,471	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$5,597

#### **Funding (in 000's):**

	<b>Prior Approvals</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>2030</b>	<b>Total</b>
<b>Contribution from Water Capital Reserve</b>	\$0	\$902	\$2,224	\$2,471	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$5,597
<b>Total</b>	\$0	\$902	\$2,224	\$2,471	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$5,597

Expense amounts in **bold text** – 2021 Budget Request

Expense amounts in shaded text – Previously Committed Funding

## 2021 Capital Project Detail Report

**Project Title:** Tiffin Street - Well 7 to Ferndale

**Project Number:** EN1016

**Department:** Infrastructure Department

**Rationale:** The transmission watermain is required to provide adequate fire flows as well as increase domestic supply. The proposed solution also improves the existing roadway condition and will be a cost-effective long-term approach that will help increase levels of service.

### **PROJECT EXPENDITURE AND FUNDING**

#### **Expenditure (in 000's):**

	<b>Prior Approvals</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>2030</b>	<b>Total</b>
<b>Design - Request</b>	<b>\$90</b>	<b>\$342</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$432</b>
<b>Construction - Forecast</b>	\$0	\$0	\$2,700	\$3,461	\$233	\$0	\$0	\$0	\$0	\$0	\$0	\$6,394
<b>Total</b>	\$90	\$342	\$2,700	\$3,461	\$233	\$0	\$0	\$0	\$0	\$0	\$0	\$6,826

#### **Funding (in 000's):**

	<b>Prior Approvals</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>2030</b>	<b>Total</b>
<b>Contribution from DC Reserves Water</b>	\$64	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$64
<b>Contribution from DC Water Dist FMB Reserve</b>	\$0	\$147	\$1,161	\$1,488	\$100	\$0	\$0	\$0	\$0	\$0	\$0	\$2,896
<b>Contribution from Water Capital Reserve</b>	\$26	\$195	\$1,539	\$1,973	\$133	\$0	\$0	\$0	\$0	\$0	\$0	\$3,865
<b>Total</b>	\$90	\$342	\$2,700	\$3,461	\$233	\$0	\$0	\$0	\$0	\$0	\$0	\$6,826

Expense amounts in **bold text** – 2021 Budget Request

Expense amounts in shaded text – Previously Committed Funding

## 2021 Capital Project Detail Report

**Project Title:** Veterans Drive New Trunk Watermain - Salem to McKay (Developer)

**Project Number:** EN1258

**Department:** Infrastructure Department

**Rationale:** The Water Distribution Master plan recommends the installation of a trunk watermain along with the associated local wastewater collection and transportation improvements recommended. These infrastructure elements are included in the Infrastructure Implementation Plan and the MOU with developers in the secondary plan area. This project only includes the watermains required to provide potable water and fire flow in Phase 1 of the Salem Secondary Plan area. Funding for this project is partially front-ended by Developers to provide servicing required for Phase 1 of growth-related development in the secondary plan area.

# PROJECT EXPENDITURE AND FUNDING

## Expenditure (in 000's):

	Prior Approvals	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	Total
Design - Request	\$1,832	(\$1,112)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$720
Property - Request	\$4,806	(\$4,806)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Utilities - Request	\$252	(\$252)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Construction - Request	\$2,334	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$2,334
Utilities - Forecast	\$0	\$0	\$0	\$0	\$914	\$0	\$0	\$0	\$0	\$0	\$0	\$914
Construction - Forecast	\$0	\$0	\$0	\$0	\$0	\$3,280	\$3,000	\$0	\$0	\$0	\$0	\$6,280
<b>Total</b>	\$9,224	(\$6,170)	\$0	\$0	\$914	\$3,280	\$3,000	\$0	\$0	\$0	\$0	\$10,248

## Funding (in 000's):

	Prior Approvals	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	Total
Developer Front Ending (Annex) - Developer Build	\$8,237	(\$5,218)	\$0	\$0	\$914	\$3,280	\$3,000	\$0	\$0	\$0	\$0	\$10,213
Debenture Proceeds - Tax	\$591	(\$592)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Contribution from Development Charge Reserves	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Contribution from DC Stormwater FMB Reserve	\$2	(\$2)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Contribution from DC Roads Annex Reserve	\$282	(\$282)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Contribution from Reserves	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Contribution from Tax Capital Reserve	\$112	(\$77)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$35
<b>Total</b>	\$9,224	(\$6,170)	\$0	\$0	\$914	\$3,280	\$3,000	\$0	\$0	\$0	\$0	\$10,248

Expense amounts in **bold text** – 2021 Budget Request

Expense amounts in shaded text – Previously Committed Funding

## 2021 Capital Project Detail Report

**Project Title:** Wastewater Peak Flow Attenuation Facility

**Project Number:** EN1390

**Department:** Infrastructure Department

**Rationale:** The wet weather flows to the WwTF have been steadily increasing over the last few years. The sewer surcharge capacity has been reducing due to the additional hydraulic loads, especially during intense storm events and rapid snow melts. If the WwTF is not properly protected then the biological treatment processes would be affected, causing operational and compliance challenges. The Wastewater Master Plan recommended to construct a flow attenuation tank at the south side of the WwTF. The new tank, in combination with the existing tanks, that could be available after the MBR treatment technology, would assist in equalizing the flows for a steady state biological treatment. The flow attenuation tank would also provide an optimal design point for the MBR system by not oversizing the system. This work should proceed in coordination with the MBR construction so that it can be used to help protect the biological processes during construction, when there will be reduced operational flexibility at the plant. This project could also benefit residents near the plant since the tanks would mitigate the risk of wastewater flooding the streets and basements near the WwTF.

### **PROJECT EXPENDITURE AND FUNDING**

#### **Expenditure (in 000's):**

	Prior Approvals	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	Total
Design - Request	\$337	\$473	\$1,346	\$1,009	\$200	\$0	\$0	\$0	\$0	\$0	\$0	\$3,366
Construction - Forecast	\$0	\$0	\$0	\$0	\$0	\$0	\$2,215	\$8,862	\$8,862	\$2,215	\$0	\$22,154
<b>Total</b>	\$337	\$473	\$1,346	\$1,009	\$200	\$0	\$2,215	\$8,862	\$8,862	\$2,215	\$0	\$25,520

#### **Funding (in 000's):**

	Prior Approvals	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	Total
Contribution from DC WW Serv Facilities Reserve	\$138	\$194	\$552	\$414	\$82	\$0	\$908	\$3,633	\$3,633	\$908	\$0	\$10,463
Contribution from WW Capital Reserve	\$199	\$279	\$794	\$596	\$118	\$0	\$1,307	\$5,228	\$5,228	\$1,307	\$0	\$15,057
<b>Total</b>	\$337	\$473	\$1,346	\$1,009	\$200	\$0	\$2,215	\$8,862	\$8,862	\$2,215	\$0	\$25,520

Expense amounts in **bold text** – 2021 Budget Request

Expense amounts in shaded text – Previously Committed Funding

## 2021 Capital Project Detail Report

**Project Title:** Water Service and Backflow Prevention Upgrades for Parks and Open Spaces

**Project Number:** EN1152

**Department:** Infrastructure Department

**Rationale:** Water services for many Parks and Open Spaces pose a potential risk for contamination of the drinking water system due to the lack of backflow prevention devices and/or the improper installation of devices. The City's Backflow Prevention By-law 2010-102 (as amended) requires the City to upgrade these Parks and Open Spaces water service connections to comply with this municipal standard and ensure the protection of the municipal drinking water system from potential cross connections. Additionally, over 90% of all Parks and Open Spaces water services are un-metered resulting in a large quantity of water that is un-accounted for. This lack of metering significantly impacts the ability to accurately calculate water loss values and subsequently the leakage index for the water distribution system.

### **PROJECT EXPENDITURE AND FUNDING**

#### **Expenditure (in 000's):**

	<b>Prior Approvals</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>2030</b>	<b>Total</b>
<b>Design - Request</b>	<b>\$60</b>	<b>\$30</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$90</b>
<b>Construction - Request</b>	<b>\$1,256</b>	<b>\$195</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$1,451</b>
<b>Design - Forecast</b>	\$0	\$0	\$30	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$30
<b>Construction - Forecast</b>	\$0	\$0	\$195	\$195	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$390
<b>Total</b>	\$1,316	\$225	\$225	\$195	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,961

#### **Funding (in 000's):**

	<b>Prior Approvals</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>2030</b>	<b>Total</b>
<b>Contribution from Water Rate Capital Holding Res</b>	\$26	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$26
<b>Contribution from Water Capital Reserve</b>	\$1,290	\$225	\$225	\$195	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,935
<b>Total</b>	\$1,316	\$225	\$225	\$195	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,961

Expense amounts in **bold text** – 2021 Budget Request

Expense amounts in shaded text – Previously Committed Funding

## 2021 Capital Project Detail Report

**Project Title:** Watermain Cathodic Protection Program

**Project Number:** EN1189

**Department:** Infrastructure Department

**Rationale:** Ductile iron watermain pipes are more prone to corrosion than non-ferrous pipes. This results in damage to the pipe surface, including pitting, scaling, and other depressions, which eventually leads to cracks, holes and other physical failures. Such damage substantially reduces the maximum potential life of these mains, resulting in increased operational and emergency repair costs as well as service disruptions.

Cast Iron pipes, similarly prone to corrosion-related failure, can also be protected via cathodic protection; however it is not intended that these assets will receive such treatment as it is likely that the City will replace them before a return on investment for cathodic protection would be realized.

This program is intended to apply cathodic protection to all ductile iron mains that are not otherwise proposed for replacement in other capital projects, and that fall within the recommended age (40 years or younger) to maximize the benefit of cathodic protection. Installation of cathodic protection is expected to increase the life of ductile iron watermain pipes by up to 15 years.

### **PROJECT EXPENDITURE AND FUNDING**

#### **Expenditure (in 000's):**

	<b>Prior Approvals</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>2030</b>	<b>Total</b>
<b>Design - Request</b>	<b>\$120</b>	<b>\$40</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$160</b>
<b>Construction - Request</b>	<b>\$3,160</b>	<b>\$960</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$4,120</b>
<b>Design - Forecast</b>	\$0	\$0	\$40	\$40	\$40	\$0	\$0	\$0	\$0	\$0	\$0	\$120
<b>Construction - Forecast</b>	\$0	\$0	\$960	\$960	\$960	\$960	\$0	\$0	\$0	\$0	\$0	\$3,840
<b>Total</b>	\$3,280	\$1,000	\$1,000	\$1,000	\$1,000	\$960	\$0	\$0	\$0	\$0	\$0	\$8,240

#### **Funding (in 000's):**

	<b>Prior Approvals</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>2030</b>	<b>Total</b>
<b>Debt Proceeds - Water</b>	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
<b>Contribution from Water Capital Reserve</b>	\$3,280	\$1,000	\$1,000	\$1,000	\$1,000	\$960	\$0	\$0	\$0	\$0	\$0	\$8,240
<b>Total</b>	\$3,280	\$1,000	\$1,000	\$1,000	\$1,000	\$960	\$0	\$0	\$0	\$0	\$0	\$8,240

Expense amounts in **bold text** – 2021 Budget Request

Expense amounts in shaded text – Previously Committed Funding

## 2021 Capital Project Detail Report

**Project Title:** Watermain Renewal Program

**Project Number:** EN1294

**Department:** Infrastructure Department

**Rationale:** As the City continues to address major infrastructure needs of some of our oldest infrastructure through stand alone right of way reconstruction projects, neighbourhood reconstruction projects, and renewal programs such as road resurfacing, cathodic protection, and sewer rehabilitation, the need still exists to address failing and aging watermain throughout the City. By addressing these watermain through the appropriate renewal efforts, the City will be restoring levels of service, reducing risk, and lower unexpected and costly reactive maintenance and repairs.

### **PROJECT EXPENDITURE AND FUNDING**

#### **Expenditure (in 000's):**

	Prior Approvals	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	Total
Design - Request	\$187	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$187
Construction - Request	<b>\$2,190</b>	<b>\$1,713</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$3,903</b>
Design - Forecast	\$0	\$0	\$290	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$290
Construction - Forecast	\$0	\$0	\$0	\$1,767	\$1,000	\$0	\$0	\$0	\$0	\$0	\$0	\$2,767
<b>Total</b>	<b>\$2,377</b>	<b>\$1,713</b>	<b>\$290</b>	<b>\$1,767</b>	<b>\$1,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$7,147</b>

#### **Funding (in 000's):**

	Prior Approvals	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	Total
Debt Proceeds - Water	\$1,020	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,020
Contribution from Water Capital Reserve	\$1,357	\$1,713	\$290	\$1,767	\$1,000	\$0	\$0	\$0	\$0	\$0	\$0	\$6,127
<b>Total</b>	<b>\$2,377</b>	<b>\$1,713</b>	<b>\$290</b>	<b>\$1,767</b>	<b>\$1,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$7,147</b>

Expense amounts in **bold text** – 2021 Budget Request

Expense amounts in shaded text – Previously Committed Funding



## 2021 Capital Project Detail Report

**Project Title:** WwTF 96 MLD Expansion Program, Comprehensive Site Strategy Plan & ESR

**Project Number:** EN1431

**Department:** Infrastructure Department

**Rationale:** The City has conducted a 2019 Wastewater Master Plan for the WwTF. The City is expected to reach a combined population of 460,000 in 2071 resulting in an increase of wastewater flow to the City's WwTF to 96 MLD by 2041 and 115 MLD by 2071. This will also result in an increase to the sludge production and the biosolids generation at the WwTF.

To address the growth projections as per the Master Plan, the WwTF will have to expand its capacity to meet the population growth. This project is key to the City's growth and regulatory compliance. The initial planning step would meet the Class EA requirements and develop an efficient strategy to implement the subsequent expansion following the MBR project.

### **PROJECT EXPENDITURE AND FUNDING**

#### **Expenditure (in 000's):**

	<b>Prior Approvals</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>2030</b>	<b>Total</b>
<b>Study - Request</b>	<b>\$1,000</b>	<b>\$600</b>	<b>\$657</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$2,257</b>
<b>Environmental Assessment - Forecast</b>	\$0	\$0	\$0	\$505	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$505
<b>Design - Forecast</b>	\$0	\$0	\$0	\$2,497	\$3,745	\$3,745	\$2,497	\$0	\$0	\$0	\$0	\$12,484
<b>Total</b>	\$1,000	\$600	\$657	\$3,001	\$3,745	\$3,745	\$2,497	\$0	\$0	\$0	\$0	\$15,246

#### **Funding (in 000's):**

	<b>Prior Approvals</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>2030</b>	<b>Total</b>
<b>Contribution from DC WW Serv Facilities Reserve</b>	\$640	\$384	\$640	\$3,001	\$3,745	\$3,745	\$2,497	\$0	\$0	\$0	\$0	\$14,653
<b>Contribution from WW Capital Reserve</b>	\$360	\$216	\$17	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$593
<b>Total</b>	\$1,000	\$600	\$657	\$3,001	\$3,745	\$3,745	\$2,497	\$0	\$0	\$0	\$0	\$15,246

Expense amounts in **bold text** – 2021 Budget Request

Expense amounts in shaded text – Previously Committed Funding

## 2021 Capital Project Detail Report

**Project Title:** WwTF Biosolids Storage Tank Mixers

**Project Number:** EN1127

**Department:** Infrastructure Department

**Rationale:** Replacement of the BSF mixers with an advanced jet mixing system will improve operations at the Biosolids Facility. In 2016, the preliminary design phase identified upgrades to the Hydro One power line and electrical upgrades to the BSF distribution system are recommended in 2018 to support the proposed jet mixing system upgrades. The BSF Mixer Replacement Project will improve mixing efficiency in the circular tanks, reduce operating and maintenance costs, reduce transportation costs, and provide operation flexibility at the BSF to provide a better quality Biosolids for land application and compliance with the Nutrient Management Act.

### **PROJECT EXPENDITURE AND FUNDING**

#### **Expenditure (in 000's):**

	Prior Approvals	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	Total
<b>Design - Request</b>	\$1,148	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,148
<b>Construction - Request</b>	<b>\$3,951</b>	<b>(\$2,599)</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$1,352</b>
<b>Construction - Forecast</b>	\$0	\$0	\$0	\$1,582	\$2,582	\$2,582	\$2,582	\$0	\$0	\$0	\$0	\$9,330
<b>Total</b>	\$5,099	(\$2,599)	\$0	\$1,582	\$2,582	\$2,582	\$2,582	\$0	\$0	\$0	\$0	\$11,830

#### **Funding (in 000's):**

	Prior Approvals	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	Total
<b>Debenture Proceeds - Tax</b>	\$800	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$800
<b>Debenture Proceeds - Wastewater</b>	\$2,748	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$2,748
<b>Contribution from WW Capital Reserve</b>	\$1,551	(\$2,599)	\$0	\$1,582	\$2,582	\$2,582	\$2,582	\$0	\$0	\$0	\$0	\$8,282
<b>Total</b>	\$5,099	(\$2,599)	\$0	\$1,582	\$2,582	\$2,582	\$2,582	\$0	\$0	\$0	\$0	\$11,830

Expense amounts in **bold text** – 2021 Budget Request

Expense amounts in shaded text – Previously Committed Funding

## 2021 Capital Project Detail Report

**Project Title:** WwTF Chemical Building Upgrade

**Project Number:** EN1245

**Department:** Infrastructure Department

**Rationale:** Achieving regulatory compliance is increasingly difficult given the aging asset portfolio. The obligations include requirements related to fire and life safety requirements, hazardous substances, and environmental protection. Within the context of managing assets, the existing chemical building currently houses (on different levels) two incompatible chemicals without a scrubber for the off gases, and there is no odour control. The proposed study will recommend preferred location where one of the chemicals could be stored until the future MBR project is fully implemented.

### **PROJECT EXPENDITURE AND FUNDING**

#### **Expenditure (in 000's):**

	Prior Approvals	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	Total
PreDesign - Request	\$50	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$50
Design - Request	\$0	<b>\$164</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$164</b>
Construction - Request	\$0	<b>\$200</b>	<b>\$876</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$1,076</b>
<b>Total</b>	\$50	\$364	\$876	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,290

#### **Funding (in 000's):**

	Prior Approvals	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	Total
Contribution from DC WW Serv Facilities Reserve	\$0	\$233	\$561	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$794
Contribution from WW Capital Reserve	\$50	\$131	\$315	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$496
<b>Total</b>	\$50	\$364	\$876	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,290

Expense amounts in **bold text** – 2021 Budget Request

Expense amounts in shaded text – Previously Committed Funding

## 2021 Capital Project Detail Report

**Project Title:** WwTF Cleaning and Rehab of Primary Digester 3 Overflow Box and Interior Condition Assessment

**Project Number:** EN1330

**Department:** Infrastructure Department

**Rationale:** The Primary Digester 3 overflow box is severely corroded and liquids have been observed leaking into the adjacent pump room. This project was identified as necessary and efforts are underway to install a temporary stainless steel liner in the overflow box. If the Primary Digester is not cleaned out and inspected there is increased risk of further deterioration and if the leaking into the pump room is not corrected an ongoing health and safety issue. Furthermore, it is recommended good practice to clean out these tanks every 5 to 7 years. This project supports Council's strategic goal of responsible spending by understanding the current condition the tank and equipment are in and taking steps to extend the useful life of the asset.

### **PROJECT EXPENDITURE AND FUNDING**

#### **Expenditure (in 000's):**

	<b>Prior Approvals</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>2030</b>	<b>Total</b>
<b>Design - Request</b>	<b>\$300</b>	<b>\$100</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$400</b>
<b>Construction - Forecast</b>	\$0	\$0	\$0	\$1,380	\$920	\$0	\$0	\$0	\$0	\$0	\$0	\$2,300
<b>Total</b>	\$300	\$100	\$0	\$1,380	\$920	\$0	\$0	\$0	\$0	\$0	\$0	\$2,700

#### **Funding (in 000's):**

	<b>Prior Approvals</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>2030</b>	<b>Total</b>
<b>Contribution from WW Capital Reserve</b>	\$300	\$100	\$0	\$1,380	\$920	\$0	\$0	\$0	\$0	\$0	\$0	\$2,700
<b>Total</b>	\$300	\$100	\$0	\$1,380	\$920	\$0	\$0	\$0	\$0	\$0	\$0	\$2,700

Expense amounts in **bold text** – 2021 Budget Request

Expense amounts in shaded text – Previously Committed Funding

## 2021 Capital Project Detail Report

**Project Title:** WwTF Cogeneration Building Ventilation Upgrades

**Project Number:** EN1243

**Department:** Infrastructure Department

**Rationale:** The Cogenerator building ventilation is not meeting current capacity needs. A study was undertaken that identified a preferred solution that would resolve issues associated with poor ventilation, high temperatures, noise mitigation and safety. The proposed upgrades will: extend the useful life of the major equipment (e.g., co-generators, boilers, etc.); ensure compliance with legislation /standards with respect to noise originating from the building and the effects on the waterfront; and improve safety for the public.

### **PROJECT EXPENDITURE AND FUNDING**

#### **Expenditure (in 000's):**

	<b>Prior Approvals</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>2030</b>	<b>Total</b>
<b>Design - Request</b>	\$100	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$100
<b>Construction - Request</b>	<b>\$0</b>	<b>\$300</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$300</b>
<b>Total</b>	\$100	\$300	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$400

#### **Funding (in 000's):**

	<b>Prior Approvals</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>2030</b>	<b>Total</b>
<b>Contribution from WW Capital Reserve</b>	\$100	\$300	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$400
<b>Total</b>	\$100	\$300	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$400

Expense amounts in **bold text** – 2021 Budget Request

Expense amounts in shaded text – Previously Committed Funding

## 2021 Capital Project Detail Report

**Project Title:** WwTF Digester Capacity Expansion

**Project Number:** EN1438

**Department:** Infrastructure Department

**Rationale:** The 2019 Wastewater Treatment Master Plan analyzed the sludge digestion capacity at the WwTF. Based on the analysis of the historical and projected sludge production rates, it was concluded that the WwTF needs two additional primary digesters by 2041.

Currently there are three primary digesters (PDs) which are part of the overall biosolids treatment process. This project proposes a fourth primary digester(PD4) to be implemented as part of the overall program to implement the MBR upgrades.

The treated biosolids are applied as a nutrient and as soil conditioner on agricultural lands. As such, it is critical to provide an adequate treatment of the biosolids to meet NASM (non-agricultural source material) requirements under the Nutrient Management Act.

### **PROJECT EXPENDITURE AND FUNDING**

#### **Expenditure (in 000's):**

	Prior Approvals	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	Total
Design - Request	<b>\$800</b>	<b>\$500</b>	<b>\$1,110</b>	<b>\$733</b>	<b>\$633</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$3,775</b>
Construction - Forecast	\$0	\$0	\$0	\$0	\$0	\$2,775	\$8,325	\$8,325	\$5,550	\$2,775	\$0	\$27,750
<b>Total</b>	<b>\$800</b>	<b>\$500</b>	<b>\$1,110</b>	<b>\$733</b>	<b>\$633</b>	<b>\$2,775</b>	<b>\$8,325</b>	<b>\$8,325</b>	<b>\$5,550</b>	<b>\$2,775</b>	<b>\$0</b>	<b>\$31,525</b>

#### **Funding (in 000's):**

	Prior Approvals	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	Total
Contribution from Development Charge Reserves	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Contribution from DC Reserves Wastewater	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Contribution from DC WW Serv Facilities Reserve	\$800	\$500	\$1,110	\$733	\$633	\$2,775	\$8,325	\$8,325	\$5,550	\$2,775	\$0	\$31,525
<b>Total</b>	<b>\$800</b>	<b>\$500</b>	<b>\$1,110</b>	<b>\$733</b>	<b>\$633</b>	<b>\$2,775</b>	<b>\$8,325</b>	<b>\$8,325</b>	<b>\$5,550</b>	<b>\$2,775</b>	<b>\$0</b>	<b>\$31,525</b>

Expense amounts in **bold text** – 2021 Budget Request

Expense amounts in shaded text – Previously Committed Funding

## 2021 Capital Project Detail Report

**Project Title:** WwTF Electrical Substation and Transformer Upgrade

**Project Number:** EN1297

**Department:** Infrastructure Department

**Rationale:** The existing electrical substation and transformers were installed in 1984 and have a typical lifespan of 25 to 30 years. Recent maintenance reports have observed leaking that has resulted in ongoing clean up and monitoring since 2015 to mitigate environmental contamination. Further the proposed MBR will require additional power requirements above what is existing to run the plant resulting in the eventual upgrade of the electrical substation and transformers. To lessen the schedule impacts to the MBR project it is proposed to replace the electrical infrastructure now in coordination with the electrical requirements for the MBR project. The substation and transformer replacements are needed to keep the equipment in a state of good repair. At this time temporary measures have been instituted to ensure the operation of the equipment to cover the duration to design and construct. The WwTF is dependent upon this equipment to remain in compliance with the Environmental Protection Act and in particular, the Environmental Compliance Approval.

### **PROJECT EXPENDITURE AND FUNDING**

#### **Expenditure (in 000's):**

	<b>Prior Approvals</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>2030</b>	<b>Total</b>
<b>Design - Request</b>	<b>\$710</b>	<b>\$570</b>	<b>\$600</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$1,880</b>
<b>Construction - Request</b>	\$820	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$820
<b>Construction - Forecast</b>	\$0	\$0	\$0	\$2,967	\$3,709	\$4,450	\$3,349	\$0	\$0	\$0	\$0	\$14,474
<b>Total</b>	\$1,530	\$570	\$600	\$2,967	\$3,709	\$4,450	\$3,349	\$0	\$0	\$0	\$0	\$17,174

#### **Funding (in 000's):**

	<b>Prior Approvals</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>2030</b>	<b>Total</b>
<b>Contribution from DC WW Serv Facilities Reserve</b>	\$781	\$365	\$384	\$1,899	\$2,373	\$2,848	\$2,143	\$0	\$0	\$0	\$0	\$10,793
<b>Contribution from WW Capital Reserve</b>	\$749	\$205	\$216	\$1,068	\$1,335	\$1,602	\$1,205	\$0	\$0	\$0	\$0	\$6,381
<b>Total</b>	\$1,530	\$570	\$600	\$2,967	\$3,709	\$4,450	\$3,349	\$0	\$0	\$0	\$0	\$17,174

Expense amounts in **bold text** – 2021 Budget Request

Expense amounts in shaded text – Previously Committed Funding

## 2021 Capital Project Detail Report

**Project Title:** WwTF New Advanced Nutrient Removal

**Project Number:** EN1091

**Department:** Infrastructure Department

**Rationale:** Implementation of the MBR process and associated upgrades is essential to meeting the requirements of Lake Simcoe Protection Act and servicing future growth. The WwTF is a live plant without any redundancy. The effluent quality management during construction while changing the process treatment train. The proposed solution would be implemented by first retrofitting UNOX tanks with fine bubble aeration. Once UNOX conversion is completed, remaining secondary clarifiers tanks would be converted to fine bubble aeration while the RBC process is decommissioned to make room for the MBR process. Hydro supply upgrades and peak flow attenuation upgrades are also required. Once MBR is fully retrofitted with new UV irradiation system, the existing sand filtration system would be decommissioned.

<b><u>PROJECT EXPENDITURE AND FUNDING</u></b>												
<b><u>Expenditure (in 000's):</u></b>												
	Prior Approvals	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	Total
Design - Request	\$6,949	\$2,500	\$7,024	\$4,683	\$3,841	\$0	\$0	\$0	\$0	\$0	\$0	\$24,997
Construction - Forecast	\$0	\$0	\$0	\$0	\$6,889	\$13,779	\$13,779	\$13,779	\$27,557	\$27,557	\$27,557	\$130,896
<b>Total</b>	\$6,949	\$2,500	\$7,024	\$4,683	\$10,731	\$13,779	\$13,779	\$13,779	\$27,557	\$27,557	\$27,557	\$155,893
<b><u>Funding (in 000's):</u></b>												
	Prior Approvals	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	Total
Debenture Proceeds - DCs	\$650	\$340	\$2,920	\$1,422	\$6,238	\$8,818	\$8,818	\$8,818	\$17,636	\$17,636	\$17,636	\$90,934
Contribution from DC Reserves Tax	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Contribution from DC Reserves Wastewater	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Contribution from DC WW Serv Facilities Reserve	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Contribution from WW Capital Reserve	\$6,299	\$2,160	\$4,104	\$3,261	\$4,493	\$4,960	\$4,960	\$4,960	\$9,921	\$9,921	\$9,921	\$64,959
<b>Total</b>	\$6,949	\$2,500	\$7,024	\$4,683	\$10,731	\$13,779	\$13,779	\$13,779	\$27,557	\$27,557	\$27,557	\$155,893

Expense amounts in **bold text** – 2021 Budget Request

Expense amounts in shaded text – Previously Committed Funding



## 2021 Capital Project Detail Report

**Project Title:** WwTF New Cogeneration and Biogas Treatment System

**Project Number:** Z162

**Department:** Infrastructure Department

**Rationale:** The current biogas utilization at the WwTF is not optimized and a significant amount of biogas is flared as waste gas. A study was undertaken to identify available alternatives to optimize the energy recovery from the cogeneration system. A condition assessment of the existing biogas treatment system is required to ensure that the quality of biogas currently generated will meet the specifications of the proposed new cogeneration system. This will ensure longevity of the proposed new biogas system and minimize future maintenance costs.

### **PROJECT EXPENDITURE AND FUNDING**

#### **Expenditure (in 000's):**

	<b>Prior Approvals</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>2030</b>	<b>Total</b>
<b>Study - Request</b>	<b>\$0</b>	<b>\$80</b>	<b>\$220</b>	<b>\$200</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$500</b>
<b>Total</b>	\$0	\$80	\$220	\$200	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$500

#### **Funding (in 000's):**

	<b>Prior Approvals</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>2030</b>	<b>Total</b>
<b>Debenture Proceeds - DCs</b>	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
<b>Contribution from Development Charge Reserves</b>	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
<b>Contribution from DC Reserves Wastewater</b>	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
<b>Contribution from DC WW Serv Facilities Reserve</b>	\$0	\$80	\$220	\$200	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$500
<b>Contribution from WW Capital Reserve</b>	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
<b>Total</b>	\$0	\$80	\$220	\$200	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$500

Expense amounts in **bold text** – 2021 Budget Request

Expense amounts in shaded text – Previously Committed Funding

## 2021 Capital Project Detail Report

**Project Title:** WwTF Sludge Thickening System Process - Polymer System Replacement

**Project Number:** EN1237

**Department:** Infrastructure Department

**Rationale:** The existing dry polymer batching system poses health and safety concerns to the operators and require them to wear their personal protective equipment when they make a new batch. There is not enough space to safely operate a forklift and heating and ventilation upgrades are required to bring the room up to code. Changing to a liquid polymer system will improve polymer delivery and reduce operating costs.

### **PROJECT EXPENDITURE AND FUNDING**

#### **Expenditure (in 000's):**

	<b>Prior Approvals</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>2030</b>	<b>Total</b>
<b>Design - Request</b>	<b>\$330</b>	<b>\$91</b>	<b>\$100</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$521</b>
<b>Construction - Forecast</b>	\$0	\$0	\$0	\$594	\$2,288	\$0	\$0	\$0	\$0	\$0	\$0	\$2,882
<b>Total</b>	<b>\$330</b>	<b>\$91</b>	<b>\$100</b>	<b>\$594</b>	<b>\$2,288</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$3,403</b>

#### **Funding (in 000's):**

	<b>Prior Approvals</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>2030</b>	<b>Total</b>
<b>Contribution from WW Capital Reserve</b>	<b>\$330</b>	<b>\$91</b>	<b>\$100</b>	<b>\$594</b>	<b>\$2,288</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$3,403</b>
<b>Total</b>	<b>\$330</b>	<b>\$91</b>	<b>\$100</b>	<b>\$594</b>	<b>\$2,288</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$3,403</b>

Expense amounts in **bold text** – 2021 Budget Request

Expense amounts in shaded text – Previously Committed Funding

## 2021 Capital Project Detail Report

**Project Title:** WwTF Ventilation Upgrades at Ultraviolet Disinfection Building

**Project Number:** EN1335

**Department:** Infrastructure Department

**Rationale:** At the Wastewater Treatment Facility, currently there are concerns related to excessive heat and moisture in the Ultraviolet Process Area. This has led to equipment corrosion and performance issues due to overheating. The Scope of work includes the investigation of alternatives including increased ventilation and dehumidification.

The benefits of this project include extending the life of equipment, increased capture of chemical cleaning materials, increased capture of heat for other purposes, and improved ventilation to keep UV equipment and instruments cool.

### **PROJECT EXPENDITURE AND FUNDING**

#### **Expenditure (in 000's):**

	<b>Prior Approvals</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>2030</b>	<b>Total</b>
<b>PreDesign - Request</b>	<b>\$0</b>	<b>\$100</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$100</b>
<b>Design - Request</b>	\$110	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$110
<b>Total</b>	\$110	\$100	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$210

#### **Funding (in 000's):**

	<b>Prior Approvals</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>2030</b>	<b>Total</b>
<b>Contribution from WW Capital Reserve</b>	\$110	\$100	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$210
<b>Total</b>	\$110	\$100	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$210

Expense amounts in **bold text** – 2021 Budget Request

Expense amounts in shaded text – Previously Committed Funding

## 2021 Capital Project Detail Report

**Project Title:** Yonge Street ROW Expansion - Mapleview to Madelaine (City)

**Project Number:** EN1261

**Department:** Infrastructure Department

**Rationale:** The Transportation Master Plan identified the need to widen Yonge Street to accommodate planned growth in the Secondary Plan lands, which will support the proposed mixed-use development that is identified for this corridor in the Hewitt's Secondary Plan.

The existing 2 lane rural cross-section is not sufficient to accommodate traffic volumes associated with planned growth. The preferred alternative identified the need to widen Yonge Street to 5 lanes and include buffered bike lanes and sidewalks.

# **PROJECT EXPENDITURE AND FUNDING**

## **Expenditure (in 000's):**

	<b>Prior Approvals</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>2030</b>	<b>Total</b>
<b>Design - Request</b>	\$687	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$687
<b>Property - Request</b>	<b>\$770</b>	<b>\$286</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$1,056</b>
<b>Utilities - Request</b>	\$93	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$93
<b>Utilities - Forecast</b>	\$0	\$0	\$0	\$0	\$0	\$0	\$414	\$0	\$0	\$0	\$0	\$414
<b>Construction - Forecast</b>	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$3,326	\$4,101	\$0	\$0	\$7,427
<b>Total</b>	\$1,550	\$286	\$0	\$0	\$0	\$0	\$414	\$3,326	\$4,101	\$0	\$0	\$9,677

## **Funding (in 000's):**

	<b>Prior Approvals</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>2030</b>	<b>Total</b>
<b>Debenture Proceeds - Tax</b>	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
<b>Contribution from Development Charge Reserves</b>	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
<b>Contribution from DC Reserves Tax (Annex)</b>	\$757	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$757
<b>Contribution from DC Reserves Water (Annex)</b>	\$0	\$14	\$0	\$0	\$0	\$0	\$18	\$141	\$212	\$0	\$0	\$385
<b>Contribution from DC Reserves Wastewater (Annex)</b>	\$0	\$14	\$0	\$0	\$0	\$0	\$18	\$141	\$212	\$0	\$0	\$385
<b>Contribution from DC Stormwater FMB Reserve</b>	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
<b>Contribution from DC Roads Annex Reserve</b>	\$565	\$215	\$0	\$0	\$0	\$0	\$317	\$2,544	\$3,062	\$0	\$0	\$6,703
<b>Contribution from Reserves</b>	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
<b>Contribution from Tax Capital Reserve</b>	\$227	\$38	\$0	\$0	\$0	\$0	\$56	\$449	\$540	\$0	\$0	\$1,310
<b>Contribution from WW Capital Reserve</b>	\$0	\$2	\$0	\$0	\$0	\$0	\$3	\$25	\$37	\$0	\$0	\$68
<b>Contribution from Water Capital Reserve</b>	\$0	\$2	\$0	\$0	\$0	\$0	\$3	\$25	\$37	\$0	\$0	\$68
<b>Total</b>	\$1,550	\$286	\$0	\$0	\$0	\$0	\$414	\$3,326	\$4,101	\$0	\$0	\$9,677

Expense amounts in **bold text** – 2021 Budget Request

Expense amounts in shaded text – Previously Committed Funding

## 2021 Capital Project Detail Report

**Project Title:** Municipal Innovation Exchange (MiX) Project

**Project Number:** IO1000

**Department:** Innovation

**Rationale:** The City of Barrie, in partnership with the cities of London and Guelph, as well as MaRS Discovery District (MaRS), embarked on an exciting three-year Municipal Innovation Exchange (MIX) project. starting in 2019. This program is based on the successful Civic Accelerator model in Guelph, and the MaRS' Innovation Partnership: Procurement by Co-Design health innovation program. These programs have developed successful new products to improve service delivery, as well as key learnings from the co-design process for products that were not implemented.

### **PROJECT EXPENDITURE AND FUNDING**

#### **Expenditure (in 000's):**

	<b>Prior Approvals</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>2030</b>	<b>Total</b>
<b>Study - Request</b>	<b>\$280</b>	<b>\$70</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$350</b>
<b>Total</b>	\$280	\$70	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$350

#### **Funding (in 000's):**

	<b>Prior Approvals</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>2030</b>	<b>Total</b>
<b>Province of Ontario Grant Revenue</b>	\$140	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$140
<b>Contribution from Strategic Priority Reserve</b>	\$140	\$70	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$210
<b>Total</b>	\$280	\$70	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$350

Expense amounts in **bold text** – 2021 Budget Request

Expense amounts in shaded text – Previously Committed Funding

## 2021 Capital Project Detail Report

**Project Title:** Barrie Fire and Emergency Services Technology Program

**Project Number:** IT1044

**Department:** Information Technology

**Rationale:** Required to modernize and maintain essential City services provided by the Barrie Fire and Emergency Services. This program is directly required to support critical services and benefits the entire City. Some of existing technical data infrastructure has reached end of lifecycle and is required to ensure dependability.

### **PROJECT EXPENDITURE AND FUNDING**

#### **Expenditure (in 000's):**

	Prior Approvals	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	Total
Plan - Request	\$225	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$225
Capital Purchase - Request	<b>\$150</b>	<b>\$50</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$200</b>
Capital Purchase - Forecast	\$0	\$0	\$75	\$75	\$50	\$50	\$0	\$0	\$0	\$0	\$0	\$250
Total	\$375	\$50	\$75	\$75	\$50	\$50	\$0	\$0	\$0	\$0	\$0	\$675

#### **Funding (in 000's):**

	Prior Approvals	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	Total
Contribution from Tax Capital Reserve	\$375	\$50	\$75	\$75	\$50	\$50	\$0	\$0	\$0	\$0	\$0	\$675
Total	\$375	\$50	\$75	\$75	\$50	\$50	\$0	\$0	\$0	\$0	\$0	\$675

Expense amounts in **bold text** – 2021 Budget Request

Expense amounts in shaded text – Previously Committed Funding

## 2021 Capital Project Detail Report

**Project Title:** BFES Next Gen 911 Phone System

**Project Number:** IT1050

**Department:** Information Technology

**Rationale:** Telephone companies will be responsible for the construction, operation, and maintenance of the NG9-1-1 networks, with CRTC oversight. City of Barrie will be required to update the BFES dispatch phone system to be compatible with NG 911.

<b>PROJECT EXPENDITURE AND FUNDING</b>												
<b><u>Expenditure (in 000's):</u></b>												
	<b>Prior Approvals</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>2030</b>	<b>Total</b>
<b>Capital Purchase - Request</b>	<b>\$200</b>	<b>\$100</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$300</b>
<b>Capital Purchase - Forecast</b>	\$0	\$0	\$100	\$50	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$150
<b>Total</b>	\$200	\$100	\$100	\$50	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$450
<b><u>Funding (in 000's):</u></b>												
	<b>Prior Approvals</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>2030</b>	<b>Total</b>
<b>Contribution from Tax Capital Reserve</b>	\$200	\$100	\$100	\$50	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$450
<b>Total</b>	\$200	\$100	\$100	\$50	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$450

Expense amounts in **bold text** – 2021 Budget Request

Expense amounts in shaded text – Previously Committed Funding



## 2021 Capital Project Detail Report

**Project Title:** Citizen Relationship Management (CRM) Solution

**Project Number:** IT1031

**Department:** Information Technology

**Rationale:** Implementation of the CRM system was initiated in 2019, and will be completed in 2020. The CRM implementation project implement a technology solution to enable the Corporation to centrally and electronically manage all of its customers. A centralized CRM will track the volume, type and resolution to all inquiries from multiple channels, allowing the City to identify trends and emerging issues both city wide and neighbourhood specific. The ability to implement future phases of Service Barrie will be limited without adequate technology systems to support these multi-channel services. Easy access to comprehensive metrics will improve the ability to plan, enabling the City to increase efficiencies and improve communication in order to promote a consistent customer experience. A CRM will support customer service problem management, issue ticketing and case management; a single view of the customer experience and history (customer data integration); consistent treatment of the customer across channels; real-time decision support (analytics) to understand customer intentions, and customize services and interactions accordingly; real-time feedback and surveys; and future self-service systems.

### **PROJECT EXPENDITURE AND FUNDING**

#### **Expenditure (in 000's):**

	<b>Prior Approvals</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>2030</b>	<b>Total</b>
<b>Execute - Request</b>	<b>\$850</b>	<b>\$110</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$960</b>
<b>Total</b>	\$850	\$110	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$960

#### **Funding (in 000's):**

	<b>Prior Approvals</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>2030</b>	<b>Total</b>
<b>Contribution from Tax Capital Reserve</b>	\$468	\$61	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$528
<b>Contribution from WW Capital Reserve</b>	\$170	\$22	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$192
<b>Contribution from Water Capital Reserve</b>	\$170	\$22	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$192
<b>Contribution from Parking Capital Reserve</b>	\$43	\$6	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$48
<b>Total</b>	\$850	\$110	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$960

Expense amounts in **bold text** – 2021 Budget Request

Expense amounts in shaded text – Previously Committed Funding

## 2021 Capital Project Detail Report

**Project Title:** City of Barrie Facilities Wi-Fi Expansion

**Project Number:** IT1049

**Department:** Information Technology

**Rationale:** WiFi is a prevalent technology in most work places. Providing the agility for staff to move around to different collaboration spaces while maintaining connectivity.

<b><u>PROJECT EXPENDITURE AND FUNDING</u></b>												
<b><u>Expenditure (in 000's):</u></b>												
	<b>Prior Approvals</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>2030</b>	<b>Total</b>
<b>Capital Purchase - Request</b>	<b>\$200</b>	<b>\$100</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$300</b>
<b>Total</b>	\$200	\$100	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$300
<b><u>Funding (in 000's):</u></b>												
	<b>Prior Approvals</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>2030</b>	<b>Total</b>
<b>Contribution from Tax Capital Reserve</b>	\$200	\$100	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$300
<b>Total</b>	\$200	\$100	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$300

Expense amounts in **bold text** – 2021 Budget Request

Expense amounts in shaded text – Previously Committed Funding

## 2021 Capital Project Detail Report

**Project Title:** Corporate PC Infrastructure Program

**Project Number:** IT1015

**Department:** Information Technology

**Rationale:** Corporate PC Technology Infrastructure Program was previous managed through a corporate lease agreement paid annually on a three year cycle. The lease expires in 2020 which provides an opportunity to change to an ownership model that doesn't require a corporate wide PC refresh every year. Corporate wide PC refresh have proven to be IT resource intensive and disruptive to business operations. An ownership model allows the replacement cycle to become a continuous replacement model that minimizes the business disruption. The ownership model also allows PC lifecycles to be extended past 3 years, providing opportunities for savings.

### **PROJECT EXPENDITURE AND FUNDING**

#### **Expenditure (in 000's):**

	<b>Prior Approvals</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>2030</b>	<b>Total</b>
<b>Capital Purchase - Request</b>	<b>\$3,906</b>	<b>\$75</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$3,980</b>
<b>Capital Purchase - Forecast</b>	\$0	\$0	\$100	\$650	\$575	\$300	\$500	\$50	\$50	\$0	\$0	\$2,225
<b>Total</b>	\$3,906	\$75	\$100	\$650	\$575	\$300	\$500	\$50	\$50	\$0	\$0	\$6,206

#### **Funding (in 000's):**

	<b>Prior Approvals</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>2030</b>	<b>Total</b>
<b>Contribution from Reserves</b>	\$9	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$9
<b>Contribution from Tax Capital Reserve</b>	\$3,779	\$75	\$100	\$650	\$575	\$300	\$500	\$50	\$50	\$0	\$0	\$6,079
<b>Contribution from WW Capital Reserve</b>	\$59	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$59
<b>Contribution from Water Capital Reserve</b>	\$59	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$59
<b>Contribution from Parking Capital Reserve</b>	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
<b>Total</b>	\$3,906	\$75	\$100	\$650	\$575	\$300	\$500	\$50	\$50	\$0	\$0	\$6,206

Expense amounts in **bold text** – 2021 Budget Request

Expense amounts in shaded text – Previously Committed Funding

## 2021 Capital Project Detail Report

**Project Title:** External Website Technology Program

**Project Number:** IT1025

**Department:** Information Technology

**Rationale:** Upgrading the City's external web site software platform is required in order to support the software lifecycle of the vendor. Industry best practices recommend continuous upgrades to corporate web sites and related technology. This program will improve the ability to provide new features and functionality on the City's external web site and will enable the digitization of processes as per the Corporate IT Strategy including additional eServices which will enhance customer service and make the City internally more efficient.

### **PROJECT EXPENDITURE AND FUNDING**

#### **Expenditure (in 000's):**

	<b>Prior Approvals</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>2030</b>	<b>Total</b>
<b>Plan - Request</b>	\$100	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$100
<b>Study - Request</b>	\$25	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$25
<b>Capital Purchase - Request</b>	<b>\$375</b>	<b>\$250</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$625</b>
<b>Total</b>	\$500	\$250	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$750

#### **Funding (in 000's):**

	<b>Prior Approvals</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>2030</b>	<b>Total</b>
<b>Contribution from Tax Capital Reserve</b>	\$500	\$250	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$750
<b>Total</b>	\$500	\$250	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$750

Expense amounts in **bold text** – 2021 Budget Request

Expense amounts in shaded text – Previously Committed Funding

## 2021 Capital Project Detail Report

**Project Title:** Fire Record Management Systems Upgrade

**Project Number:** 001040

**Department:** Information Technology

**Rationale:** Barrie Fire and Emergency Services (BFES) requires an updated Records Management System (RMS) that supports modern and secure integration protocols to eliminate dual entry and maintenance between the RMS, Computer Aided Dispatch (CAD), Time Tracking, Inspections and Permitting systems. Having well integrated systems is a critical next step in digitalizing many of BFES's process.

Migration of the information in the legacy RMS is critical to the success of this project. Part of the funding will be used to create a temporary dedicate BFES resource focusing on data cleanup and migration of the 20+ years of records and information. This resource will be the project team's liaison into BFES and will pull in additional BFES subject matter experts as needed. It's anticipated the resource will be onboarded Q3 2021 and work through to the end of 2022. Project Management and IT Services will be completed with existing staff resources.

### **PROJECT EXPENDITURE AND FUNDING**

#### **Expenditure (in 000's):**

	<b>Prior Approvals</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>2030</b>	<b>Total</b>
<b>Capital Purchase - Request</b>	<b>\$0</b>	<b>\$200</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$200</b>
<b>Capital Purchase - Forecast</b>	\$0	\$0	\$115	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$115
<b>Total</b>	\$0	\$200	\$115	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$315

#### **Funding (in 000's):**

	<b>Prior Approvals</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>2030</b>	<b>Total</b>
<b>Contribution from Tax Capital Reserve</b>	\$0	\$200	\$115	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$315
<b>Total</b>	\$0	\$200	\$115	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$315

Expense amounts in **bold text** – 2021 Budget Request

Expense amounts in shaded text – Previously Committed Funding

## 2021 Capital Project Detail Report

**Project Title:** Fleet Management System

**Project Number:** 001037

**Department:** Information Technology

**Rationale:** A modern Fleet Management System (FMS) with integrations into the City's Financial and/or maintenance management systems will provide the much-needed reporting capabilities. A modern FMS will also have deep financial integration capabilities eliminating the need to maintain manual Excel inventory sheets in order to reconcile budget and management reporting.

The City manages a fleet of over 700 vehicles and equipment. Timely and accurate reporting of the fleet's condition, upcoming costs and planned maintenance will help guide spending decision for the Fleet Replacement Program. Automated integrations with the City's financial systems will ensure real-time and accurate picture of the City's Fleet assets and liabilities. This will remove the labour intensive manual periodic financial snap shops currently been done.

### **PROJECT EXPENDITURE AND FUNDING**

#### **Expenditure (in 000's):**

	<b>Prior Approvals</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>2030</b>	<b>Total</b>
<b>Capital Purchase - Request</b>	<b>\$0</b>	<b>\$175</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$175</b>
<b>Total</b>	\$0	\$175	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$175

#### **Funding (in 000's):**

	<b>Prior Approvals</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>2030</b>	<b>Total</b>
<b>Contribution from Fleet Management Reserve</b>	\$0	\$175	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$175
<b>Total</b>	\$0	\$175	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$175

Expense amounts in **bold text** – 2021 Budget Request

Expense amounts in shaded text – Previously Committed Funding

## 2021 Capital Project Detail Report

**Project Title:** IT Security Monitoring and Incident Management system

**Project Number:** 000962

**Department:** Information Technology

**Rationale:** A centralized security monitoring solution provides a single pane view of incidents across the IT Landscape. Currently, each technology platform has built in security monitoring and mitigations abilities. However, as attacks become more sophisticated, so must our monitoring and mitigation abilities.

Centralized security monitoring, using Machine Learning, will monitor the multiple platforms and flag cross platform activities, that on their own, may not be a sign for concerns.

### **PROJECT EXPENDITURE AND FUNDING**

#### **Expenditure (in 000's):**

	<b>Prior Approvals</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>2030</b>	<b>Total</b>
<b>Capital Purchase - Request</b>	<b>\$0</b>	<b>\$200</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$200</b>
<b>Capital Purchase - Forecast</b>	\$0	\$0	\$50	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$50
<b>Total</b>	\$0	\$200	\$50	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$250

#### **Funding (in 000's):**

	<b>Prior Approvals</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>2030</b>	<b>Total</b>
<b>Contribution from Tax Capital Reserve</b>	\$0	\$200	\$50	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$250
<b>Total</b>	\$0	\$200	\$50	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$250

Expense amounts in **bold text** – 2021 Budget Request

Expense amounts in shaded text – Previously Committed Funding

## 2021 Capital Project Detail Report

**Project Title:** Mobility Technology Program

**Project Number:** IT1019

**Department:** Information Technology

**Rationale:** Moving forward with mobility is mobilizing the City's workforce by providing mobile technology to aid in the delivery of City services to the community. Mobility technology is limited to cellular phones, smartphones, tablets and laptops (although laptops are not in the funding scope of this intake form covered by PC Replacement Program). Mobile technology enables secure real time access to City business applications and data available to all City staff management deems beneficial. Mobile device governance has been established through corporate policy; mobile device security is managed through mobile device management (MDM) software supported by the City's IT Department. The IT Department has recognized the City's growing need for mobile technology supporting mobile office and field workers in delivering services for the community.

### **PROJECT EXPENDITURE AND FUNDING**

#### **Expenditure (in 000's):**

	<b>Prior Approvals</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>2030</b>	<b>Total</b>
<b>Plan - Request</b>	\$285	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$285
<b>Capital Purchase - Request</b>	<b>\$751</b>	<b>\$150</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$901</b>
<b>Capital Purchase - Forecast</b>	\$0	\$0	\$290	\$290	\$290	\$290	\$290	\$290	\$290	\$290	\$0	\$2,320
<b>Total</b>	\$1,036	\$150	\$290	\$290	\$290	\$290	\$290	\$290	\$290	\$290	\$0	\$3,506

#### **Funding (in 000's):**

	<b>Prior Approvals</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>2030</b>	<b>Total</b>
<b>Contribution from Tax Capital Reserve</b>	\$1,035	\$150	\$290	\$290	\$290	\$290	\$290	\$290	\$290	\$290	\$0	\$3,505
<b>Contribution from WW Capital Reserve</b>	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
<b>Total</b>	\$1,036	\$150	\$290	\$290	\$290	\$290	\$290	\$290	\$290	\$290	\$0	\$3,506

Expense amounts in **bold text** – 2021 Budget Request

Expense amounts in shaded text – Previously Committed Funding



## 2021 Capital Project Detail Report

**Project Title:** Network Technology Infrastructure Program

**Project Number:** IT1010

**Department:** Information Technology

**Rationale:** Networking infrastructure renewal and improvements are required to meet performance requirements of the existing and upcoming technology projects. This program is based on a 5 year replacement cycle for all networking infrastructure including switches, routers, load balancers and firewalls to reduce the risk of failure. Should the network infrastructure not be replaced and a hardware failure occurs, extended outages would be experienced by staff due to their inability to access applications, data, and voice communications via the corporate network.

### **PROJECT EXPENDITURE AND FUNDING**

#### **Expenditure (in 000's):**

	<b>Prior Approvals</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>2030</b>	<b>Total</b>
<b>Capital Purchase - Request</b>	<b>\$3,580</b>	<b>\$206</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$3,786</b>
<b>Capital Purchase - Forecast</b>	\$0	\$0	\$765	\$765	\$765	\$0	\$0	\$0	\$0	\$0	\$0	\$2,295
<b>Total</b>	\$3,580	\$206	\$765	\$765	\$765	\$0	\$0	\$0	\$0	\$0	\$0	\$6,081

#### **Funding (in 000's):**

	<b>Prior Approvals</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>2030</b>	<b>Total</b>
<b>Contribution from Tax Capital Reserve</b>	\$3,408	\$120	\$679	\$679	\$679	\$0	\$0	\$0	\$0	\$0	\$0	\$5,565
<b>Contribution from WW Capital Reserve</b>	\$60	\$30	\$30	\$30	\$30	\$0	\$0	\$0	\$0	\$0	\$0	\$180
<b>Contribution from Water Capital Reserve</b>	\$112	\$56	\$56	\$56	\$56	\$0	\$0	\$0	\$0	\$0	\$0	\$336
<b>Total</b>	\$3,580	\$206	\$765	\$765	\$765	\$0	\$0	\$0	\$0	\$0	\$0	\$6,081

Expense amounts in **bold text** – 2021 Budget Request

Expense amounts in shaded text – Previously Committed Funding

## 2021 Capital Project Detail Report

**Project Title:** Public Safety Communication Program

**Project Number:** IT1043

**Department:** Information Technology

**Rationale:** This is required to maintain the City's public safety radio system used by BFES, Barrie Police and the City's Water Operations. This program covers the ongoing support, maintenance and lifecycling of radio system hardware and software, ensuring this vital communication environment is always available

### **PROJECT EXPENDITURE AND FUNDING**

#### **Expenditure (in 000's):**

	<b>Prior Approvals</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>2030</b>	<b>Total</b>
<b>Execute - Request</b>	<b>\$1,620</b>	<b>\$440</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$2,060</b>
<b>Execute - Forecast</b>	\$0	\$0	\$240	\$240	\$240	\$240	\$240	\$0	\$0	\$0	\$0	\$1,200
<b>Total</b>	\$1,620	\$440	\$240	\$240	\$240	\$240	\$240	\$0	\$0	\$0	\$0	\$3,260

#### **Funding (in 000's):**

	<b>Prior Approvals</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>2030</b>	<b>Total</b>
<b>Local Board Contribution</b>	\$602	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$602
<b>Contribution from Police Srv Board Capital Reserve</b>	\$0	\$220	\$120	\$120	\$120	\$120	\$120	\$0	\$0	\$0	\$0	\$820
<b>Contribution from Tax Capital Reserve</b>	\$893	\$220	\$120	\$120	\$120	\$120	\$120	\$0	\$0	\$0	\$0	\$1,713
<b>Contribution from WW Capital Reserve</b>	\$62	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$62
<b>Contribution from Water Capital Reserve</b>	\$62	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$62
<b>Intercompany - General</b>	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
<b>Total</b>	\$1,620	\$440	\$240	\$240	\$240	\$240	\$240	\$0	\$0	\$0	\$0	\$3,260

Expense amounts in **bold text** – 2021 Budget Request

Expense amounts in shaded text – Previously Committed Funding

## 2021 Capital Project Detail Report

**Project Title:** Server and Desktop Software Program

**Project Number:** IT1024

**Department:** Information Technology

**Rationale:** Annual renewal of server and desktop software licences is required in part through an existing contractual obligation with various vendors including Microsoft which require payments in 2017, 2018 and 2019, based on a new 3 year agreement signed in 2017. These license bundles offer volume pricing discounts, timely upgrades, and access to support.

### **PROJECT EXPENDITURE AND FUNDING**

#### **Expenditure (in 000's):**

	<b>Prior Approvals</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>2030</b>	<b>Total</b>
<b>Execute - Request</b>	\$1,125	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,125
<b>Capital Purchase - Request</b>	<b>\$2,000</b>	<b>\$850</b>	<b>\$600</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$3,450</b>
<b>Capital Purchase - Forecast</b>	\$0	\$0	\$250	\$875	\$885	\$895	\$900	\$910	\$920	\$930	\$940	\$7,505
<b>Total</b>	\$3,125	\$850	\$850	\$875	\$885	\$895	\$900	\$910	\$920	\$930	\$940	\$12,080

#### **Funding (in 000's):**

	<b>Prior Approvals</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>2030</b>	<b>Total</b>
<b>Contribution from Building Code Surplus Reserve</b>	\$13	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$13
<b>Contribution from Reserves</b>	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
<b>Contribution from Tax Capital Reserve</b>	\$3,103	\$850	\$850	\$875	\$885	\$895	\$900	\$910	\$920	\$930	\$940	\$12,058
<b>Contribution from WW Capital Reserve</b>	\$5	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$5
<b>Contribution from Water Capital Reserve</b>	\$3	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$3
<b>Contribution from Parking Capital Reserve</b>	\$1	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1
<b>Total</b>	\$3,125	\$850	\$850	\$875	\$885	\$895	\$900	\$910	\$920	\$930	\$940	\$12,080

Expense amounts in **bold text** – 2021 Budget Request

Expense amounts in shaded text – Previously Committed Funding

## 2021 Capital Project Detail Report

**Project Title:** Server and Storage Technology Infrastructure Program

**Project Number:** IT1012

**Department:** Information Technology

**Rationale:** The City's server and storage infrastructure hardware throughout City sites and data centres is renewed every three years aligning with industry best practices. Replacement and upgrade of server and storage technology infrastructure (including physical and virtual servers) increases capacity and mitigates the risk of failure of the server and storage infrastructure.

### **PROJECT EXPENDITURE AND FUNDING**

#### **Expenditure (in 000's):**

	<b>Prior Approvals</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>2030</b>	<b>Total</b>
<b>Capital Purchase - Request</b>	<b>\$3,590</b>	<b>\$650</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$4,240</b>
<b>Capital Purchase - Forecast</b>	\$0	\$0	\$620	\$635	\$600	\$596	\$596	\$0	\$0	\$0	\$0	\$3,047
<b>Total</b>	\$3,590	\$650	\$620	\$635	\$600	\$596	\$596	\$0	\$0	\$0	\$0	\$7,287

#### **Funding (in 000's):**

	<b>Prior Approvals</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>2030</b>	<b>Total</b>
<b>Contribution from Tax Capital Reserve</b>	\$3,475	\$600	\$574	\$589	\$550	\$550	\$550	\$0	\$0	\$0	\$0	\$6,888
<b>Contribution from WW Capital Reserve</b>	\$40	\$20	\$16	\$16	\$18	\$16	\$16	\$0	\$0	\$0	\$0	\$142
<b>Contribution from Water Capital Reserve</b>	\$75	\$30	\$30	\$30	\$32	\$30	\$30	\$0	\$0	\$0	\$0	\$257
<b>Total</b>	\$3,590	\$650	\$620	\$635	\$600	\$596	\$596	\$0	\$0	\$0	\$0	\$7,287

Expense amounts in **bold text** – 2021 Budget Request

Expense amounts in shaded text – Previously Committed Funding

## 2021 Capital Project Detail Report

**Project Title:** 2021 Accessible Pedestrian Pushbutton Installation

**Project Number:** 001051

**Department:** Operations

**Rationale:** Additional accessible pedestrian pushbuttons are required to increase the accessibility of these crossings and promote inclusive communities. The Accessibility Advisory Committee will recommend the locations within this budget when they return to regularly scheduled meetings outside of COVID-19

### **PROJECT EXPENDITURE AND FUNDING**

#### **Expenditure (in 000's):**

	<b>Prior Approvals</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>2030</b>	<b>Total</b>
<b>Capital Purchase - Request</b>	<b>\$0</b>	<b>\$83</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$83</b>
<b>Total</b>	<b>\$0</b>	<b>\$83</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$83</b>

#### **Funding (in 000's):**

	<b>Prior Approvals</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>2030</b>	<b>Total</b>
<b>Contribution from Tax Capital Reserve</b>	<b>\$0</b>	<b>\$83</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$83</b>
<b>Total</b>	<b>\$0</b>	<b>\$83</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$83</b>

Expense amounts in **bold text** – 2021 Budget Request

Expense amounts in shaded text – Previously Committed Funding

## 2021 Capital Project Detail Report

**Project Title:** 2021 Streetlight Infill Program

**Project Number:** 001053

**Department:** Operations

**Rationale:** In older neighbourhoods throughout Barrie, the streetlighting levels are based on old standards and are often dimly lit. Traffic Services staff receive requests to review these areas from Mayor and Council or through Service Barrie. Staff consider future renewal and recommend areas that will not be identified for reconstruction for several years, but will benefit from interim lighting upgrades. Staff focus on corner areas, heavily treed areas or short dimly lit stretches of older neighbourhoods.

### **PROJECT EXPENDITURE AND FUNDING**

#### **Expenditure (in 000's):**

	<b>Prior Approvals</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>2030</b>	<b>Total</b>
<b>Construction - Request</b>	<b>\$0</b>	<b>\$65</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$65</b>
<b>Total</b>	\$0	\$65	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$65

#### **Funding (in 000's):**

	<b>Prior Approvals</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>2030</b>	<b>Total</b>
<b>Contribution from Tax Capital Reserve</b>	\$0	\$65	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$65
<b>Total</b>	\$0	\$65	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$65

Expense amounts in **bold text** – 2021 Budget Request

Expense amounts in shaded text – Previously Committed Funding

## 2021 Capital Project Detail Report

**Project Title:** 2021 Traffic Signal Cabinet Replacement Program

**Project Number:** 001049

**Department:** Operations

**Rationale:** The intersections within the program have had several minor failures resulting in the intersections being in flash. Our service staff have been able to make repairs with spare supplies, however as noted these parts are no longer available. Technical support from the manufacturer is also unavailable, meaning the next failure of this intersection we will potentially not be able to recover from. A failure of this system for a long duration would result in impacts to the residents in the form of no traffic control, or additional resources from Barrie Police Services to provide onsite paid duty control. The duration of the outage would last until a replacement traffic signal cabinet could be made available. Additionally the identified traffic cabinets are not compatible with our traffic control central system, which means we are unable to remotely monitor or modify signal timings at the intersection.

### **PROJECT EXPENDITURE AND FUNDING**

#### **Expenditure (in 000's):**

	<b>Prior Approvals</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>2030</b>	<b>Total</b>
<b>Construction - Request</b>	<b>\$0</b>	<b>\$90</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$90</b>
<b>Total</b>	\$0	\$90	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$90

#### **Funding (in 000's):**

	<b>Prior Approvals</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>2030</b>	<b>Total</b>
<b>Contribution from Tax Capital Reserve</b>	\$0	\$90	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$90
<b>Total</b>	\$0	\$90	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$90

Expense amounts in **bold text** – 2021 Budget Request

Expense amounts in shaded text – Previously Committed Funding

## 2021 Capital Project Detail Report

**Project Title:** Alectra Pole Betterment and Capital Upgrade Program - Street Lighting Equipment Relocation

**Project Number:** RP1093

**Department:** Operations

**Rationale:** The City has third party attachment agreement with Alectra (formerly Powerstream) for the attachment of streetlights to Alectra hydro poles. Under the Electricity Act the city is required to bring to code and relocate their equipment as identified by Alectra.

### **PROJECT EXPENDITURE AND FUNDING**

#### **Expenditure (in 000's):**

	<b>Prior Approvals</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>2030</b>	<b>Total</b>
<b>Capital Purchase - Request</b>	<b>\$900</b>	<b>\$300</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$1,200</b>
<b>Total</b>	\$900	\$300	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,200

#### **Funding (in 000's):**

	<b>Prior Approvals</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>2030</b>	<b>Total</b>
<b>Contribution from Tax Capital Reserve</b>	\$900	\$300	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,200
<b>Total</b>	\$900	\$300	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,200

Expense amounts in **bold text** – 2021 Budget Request

Expense amounts in shaded text – Previously Committed Funding



## 2021 Capital Project Detail Report

**Project Title:** Annual Parking Lot Improvement Program

**Project Number:** EN1266

**Department:** Operations

**Rationale:** With the continued growth of the City's population and on-going intensification plans, the use of recreational and public parks continues to increase. As such, current parking lot conditions no longer meet the physical condition or capacity requirements to provide residents with the levels of service they desire and also restrict City park and recreation activities because of this. The program aims to increase the quality and capacity of City owned parking lots which benefits the City socially through resident satisfaction while increasing revenues via the accommodation and promotion of outdoor recreation programs. As the City prioritizes and implements outdoor park sports fields and other amenities, future parking needs will continue to be investigated.

### **PROJECT EXPENDITURE AND FUNDING**

#### **Expenditure (in 000's):**

	Prior Approvals	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	Total
Design - Request	\$50	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$50
Construction - Request	\$380	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$380
Capital Purchase - Request	<b>\$0</b>	<b>\$75</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$75</b>
Capital Purchase - Forecast	\$0	\$0	\$50	\$50	\$50	\$50	\$50	\$50	\$50	\$50	\$0	\$400
<b>Total</b>	\$430	\$75	\$50	\$50	\$50	\$50	\$50	\$50	\$50	\$50	\$0	\$905

#### **Funding (in 000's):**

	Prior Approvals	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	Total
Contribution from Cash-In-Lieu Parkland Reserve	\$75	\$75	\$50	\$50	\$50	\$50	\$50	\$50	\$50	\$50	\$0	\$550
Contribution from Tax Capital Reserve	\$355	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$355
<b>Total</b>	\$430	\$75	\$50	\$50	\$50	\$50	\$50	\$50	\$50	\$50	\$0	\$905

Expense amounts in **bold text** – 2021 Budget Request

Expense amounts in shaded text – Previously Committed Funding

## 2021 Capital Project Detail Report

**Project Title:** Annual Playground Revitalization Program

**Project Number:** EN1117

**Department:** Operations

**Rationale:** Deteriorated playground equipment and parklands result in decreased play-value and may result in the playground becoming unsafe or even unusable. The Annual Playground Revitalization Program reduces the likelihood of these risks as well as operation and maintenance costs. Additionally, many of the City's playgrounds do not meet current accessibility standards for people with disabilities. This program also includes upgrades to address this gap and increase the accessibility of the City's parks during revitalization work.

### **PROJECT EXPENDITURE AND FUNDING**

#### **Expenditure (in 000's):**

	<b>Prior Approvals</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>2030</b>	<b>Total</b>
<b>Construction - Request</b>	<b>\$1,549</b>	<b>\$286</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$1,835</b>
<b>Construction - Forecast</b>	\$0	\$0	\$292	\$297	\$303	\$309	\$270	\$0	\$0	\$0	\$0	\$1,471
<b>CSR - Request</b>	\$4	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$4
<b>Total</b>	\$1,553	\$286	\$292	\$297	\$303	\$309	\$270	\$0	\$0	\$0	\$0	\$3,309

#### **Funding (in 000's):**

	<b>Prior Approvals</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>2030</b>	<b>Total</b>
<b>Government of Canada Grant Revenue</b>	\$50	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$50
<b>Contribution from Cash-In-Lieu Parkland Reserve</b>	\$1,090	\$286	\$292	\$297	\$303	\$309	\$270	\$0	\$0	\$0	\$0	\$2,846
<b>Contribution from Tax Capital Reserve</b>	\$413	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$413
<b>Total</b>	\$1,553	\$286	\$292	\$297	\$303	\$309	\$270	\$0	\$0	\$0	\$0	\$3,309

Expense amounts in **bold text** – 2021 Budget Request

Expense amounts in shaded text – Previously Committed Funding

## 2021 Capital Project Detail Report

**Project Title:** Fleet Replacement Program

**Project Number:** RP1156

**Department:** Operations

**Rationale:** A significant percentage of the City's fleet is in poor condition and incurring excessive repair and maintenance costs as a result of a failure to replace fleet assets within a reasonable time after exceeding the asset's economic useful life. This program will bring fleet replacements in line with the economic life of each asset, thereby avoiding the greater escalation of costs that will otherwise be required to keep the City's fleet in operation.

### **PROJECT EXPENDITURE AND FUNDING**

#### **Expenditure (in 000's):**

	<b>Prior Approvals</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>2030</b>	<b>Total</b>
<b>Capital Purchase - Request</b>	<b>\$16,207</b>	<b>\$6,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$22,207</b>
<b>Capital Purchase - Forecast</b>	\$0	\$0	\$3,500	\$3,000	\$3,000	\$2,500	\$2,500	\$2,500	\$4,500	\$4,500	\$0	\$26,000
<b>Total</b>	\$16,207	\$6,000	\$3,500	\$3,000	\$3,000	\$2,500	\$2,500	\$2,500	\$4,500	\$4,500	\$0	\$48,207

#### **Funding (in 000's):**

	<b>Prior Approvals</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>2030</b>	<b>Total</b>
<b>Contribution from Fleet Management Reserve</b>	\$16,207	\$6,000	\$3,500	\$3,000	\$3,000	\$2,500	\$2,500	\$2,500	\$4,500	\$4,500	\$0	\$48,207
<b>Total</b>	\$16,207	\$6,000	\$3,500	\$3,000	\$3,000	\$2,500	\$2,500	\$2,500	\$4,500	\$4,500	\$0	\$48,207

Expense amounts in **bold text** – 2021 Budget Request

Expense amounts in shaded text – Previously Committed Funding

## 2021 Capital Project Detail Report

**Project Title:** Landfill Litter Fencing

**Project Number:** 000991

**Department:** Operations

**Rationale:** Solid Waste Operations is required to control litter under the existing Landfill Site Environmental Compliance Approval (ECA) #A250101. In December of 2019 a freezing rain event with heavy winds damaged the beams of an existing litter fence at the Landfill site that provided necessary litter capture along the northern slope of the active landfill cell.

This work will include the installation of litter fencing along the northern slope of the active landfill cell to effectively control litter. The Legal Department has confirmed the damaged fence could not be covered by corporate insurance.

Without proper control measures in place, Solid Waste Operations will continue to see increased labour costs as a result of litter picking as well as the potential for litter to mobilize and create off-site litter impacts in surrounding areas.

### **PROJECT EXPENDITURE AND FUNDING**

#### **Expenditure (in 000's):**

	<b>Prior Approvals</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>2030</b>	<b>Total</b>
<b>Capital Purchase - Request</b>	<b>\$0</b>	<b>\$100</b>	<b>\$50</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$150</b>
<b>Total</b>	<b>\$0</b>	<b>\$100</b>	<b>\$50</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$150</b>

#### **Funding (in 000's):**

	<b>Prior Approvals</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>2030</b>	<b>Total</b>
<b>Contribution from Landfill Site Closure Reserve</b>	<b>\$0</b>	<b>\$100</b>	<b>\$50</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$150</b>
<b>Total</b>	<b>\$0</b>	<b>\$100</b>	<b>\$50</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$150</b>

Expense amounts in **bold text** – 2021 Budget Request

Expense amounts in shaded text – Previously Committed Funding

## 2021 Capital Project Detail Report

**Project Title:** Landfill Purge Well 5

**Project Number:** 000992

**Department:** Operations

**Rationale:** The current purge well configuration along the southern perimeter of the Landfill Site consists of four (4) purge wells which capture, and discharge impacted groundwater to the City's sanitary sewer. Purge well infrastructure, namely Purge Well 3, is currently experiencing age-related deterioration and mechanical failure. An additional purge well is required to maintain compliance with existing Provincial Approvals.

Testing results of Purge Well 3 in the Spring of 2020 indicate that current performance represents a 49% decrease in the specific capacity and a 75% decline in well yield since its original construction in 2007. In order to increase the performance, purge well 3 is cleaned and rehabilitated on a regular basis. Over time, rehabilitation becomes costly and less efficient.

Purge well 3 is crucial in controlling the impacted groundwater long-term as it is located close to unlined areas of the Landfill site (Cell 1). Without properly functioning environmental control systems in this area, the City could start to see negative off-site impacts as the plume migrates towards the southern boundary of the Landfill site. It is necessary to replace Purge Well 3 in order to effectively control groundwater capture in this area.

Replacement of this Purge well has been recommended to the City by the Ministry of Environment, Conservation and Parks as well as the City's current environmental monitoring Consultant.

### **PROJECT EXPENDITURE AND FUNDING**

#### **Expenditure (in 000's):**

	Prior Approvals	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	Total
Capital Purchase - Request	\$0	\$300	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$300
<b>Total</b>	\$0	\$300	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$300

#### **Funding (in 000's):**

	Prior Approvals	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	Total
Contribution from Tax Capital Reserve	\$0	\$300	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$300
<b>Total</b>	\$0	\$300	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$300

Expense amounts in **bold text** – 2021 Budget Request

Expense amounts in shaded text – Previously Committed Funding

## 2021 Capital Project Detail Report

**Project Title:** New Front End Loader for Downtown Winter Maintenance

**Project Number:** 001054

**Department:** Operations

**Rationale:** As identified during the design phase of the Dunlop Street Streetscape Project, alternative equipment to the City's regular roadway snow plows would be required to effectively maintain the new Dunlop profile in the winter. A compact wheeled loader is required to plow the new shared amenity (parking) areas and relocate snow piles from around street furniture, bollards and planters. In the winter of 2019/2020, Roads Operations attempted to clear snow from the shared amenity area with a conventional roadway plow and wing, but damage occurred to the concrete surface and the equipment could not get close enough to the bollards. Additionally, the bollards would be quickly buried and hidden in accumulated snow. Roads Operations finished the season by plowing with a pick up truck, but the snow was rapidly being piled at the ends of the parking areas. A small loader is able to clear the snow more effectively and place the snow where it can be piled before being hauled away.

### **PROJECT EXPENDITURE AND FUNDING**

#### **Expenditure (in 000's):**

	<b>Prior Approvals</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>2030</b>	<b>Total</b>
<b>Capital Purchase - Request</b>	<b>\$0</b>	<b>\$235</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$235</b>
<b>Total</b>	\$0	\$235	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$235

#### **Funding (in 000's):**

	<b>Prior Approvals</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>2030</b>	<b>Total</b>
<b>Contribution from Fleet Management Reserve</b>	\$0	\$235	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$235
<b>Total</b>	\$0	\$235	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$235

Expense amounts in **bold text** – 2021 Budget Request

Expense amounts in shaded text – Previously Committed Funding

## 2021 Capital Project Detail Report

**Project Title:** Permanent Traffic Calming Measures

**Project Number:** 001048

**Department:** Operations

**Rationale:** Each ward will be evaluated for permanent measures consisting of permanent concrete speed cushions that will expand onto the existing temporary program with providing a year round roadway with 2 crossings of concrete speed cushions in each Ward.

### **PROJECT EXPENDITURE AND FUNDING**

#### **Expenditure (in 000's):**

	Prior Approvals	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	Total
Capital Purchase - Request	\$0	\$200	\$200	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$400
<b>Total</b>	\$0	\$200	\$200	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$400

#### **Funding (in 000's):**

	Prior Approvals	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	Total
Contribution from Tax Capital Reserve	\$0	\$200	\$200	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$400
<b>Total</b>	\$0	\$200	\$200	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$400

Expense amounts in **bold text** – 2021 Budget Request

Expense amounts in shaded text – Previously Committed Funding

## 2021 Capital Project Detail Report

**Project Title:** Play Court Construction and Rehabilitation

**Project Number:** EN1140

**Department:** Operations

**Rationale:** The repair or replacement of tennis and play courts are required when physical deterioration results in a much lower quality playing surface or an increased risk of personal injury. Deteriorated courts (uneven, cracked or broken asphalt) are identified during annual surface assessments conducted by the Roads, Parks, and Fleet department. Recreation Services loses approximately \$1,000 per tennis court per season in lost revenue from bookings when this occurs. The courts also serve a local recreational need for other activities such as pickleball and winter ice rinks. For courts with a colour coat surface, maintenance is required every ten years to continue to provide the expected level of service to residents.

### **PROJECT EXPENDITURE AND FUNDING**

#### **Expenditure (in 000's):**

	<b>Prior Approvals</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>2030</b>	<b>Total</b>
<b>Construction - Request</b>	<b>\$1,356</b>	<b>\$540</b>	<b>\$0</b>	<b>\$467</b>	<b>\$216</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$2,579</b>
<b>Construction - Forecast</b>	\$0	\$0	\$481	\$0	\$0	\$86	\$0	\$70	\$52	\$0	\$0	\$689
<b>Total</b>	\$1,356	\$540	\$481	\$467	\$216	\$86	\$0	\$70	\$52	\$0	\$0	\$3,268

#### **Funding (in 000's):**

	<b>Prior Approvals</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>2030</b>	<b>Total</b>
<b>Contribution from Federal Gas Tax Reserve</b>	\$1,327	\$486	\$433	\$420	\$194	\$77	\$0	\$63	\$47	\$0	\$0	\$3,048
<b>Contribution from Cash-In-Lieu Parkland Reserve</b>	\$22	\$54	\$48	\$47	\$22	\$9	\$0	\$7	\$5	\$0	\$0	\$213
<b>Contribution from Tax Capital Reserve</b>	\$7	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$7
<b>Total</b>	\$1,356	\$540	\$481	\$467	\$216	\$86	\$0	\$70	\$52	\$0	\$0	\$3,268

Expense amounts in **bold text** – 2021 Budget Request

Expense amounts in shaded text – Previously Committed Funding



## 2021 Capital Project Detail Report

**Project Title:** Waterfront Park Furnishings Program

**Project Number:** 000980

**Department:** Operations

**Rationale:** In 2018, Council approved an amendment to the 2018 Business Plan to address a deficiency of high-quality site furnishings on the waterfront. This initial funding was converted into a multi-year capital program starting in 2019. Business Plan. Based on the pilot installation in the summer of 2018 of a small number of new site furnishings in Centennial Park, the City received very positive feedback regarding the style and quality of the furnishings, but also received negative feedback regarding the low number of furnishings throughout the waterfront.

The emphasis of the program is to create improved opportunities for public seating and gathering throughout the waterfront. The focus to date has been to address the deficiency in Centennial Park. This would continue to be the focus through 2021 with future years to begin expand the program to other deficient waterfront parks such as Tyndale Park, The Gables, Minet's Point, Johnson's Beach, etc.

### **PROJECT EXPENDITURE AND FUNDING**

#### **Expenditure (in 000's):**

	Prior Approvals	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	Total
Construction - Request	\$0	\$70	\$70	\$50	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$190
<b>Total</b>	\$0	\$70	\$70	\$50	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$190

#### **Funding (in 000's):**

	Prior Approvals	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	Total
Contribution from Cash-In-Lieu Parkland Reserve	\$0	\$70	\$70	\$50	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$190
<b>Total</b>	\$0	\$70	\$70	\$50	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$190

Expense amounts in **bold text** – 2021 Budget Request

Expense amounts in shaded text – Previously Committed Funding

## 2021 Capital Project Detail Report

**Project Title:** Bus Stop Infrastructure Replacement/Improvements

**Project Number:** TR1018

**Department:** Transit & Parking Strategy

**Rationale:** The implementation of the on-street transit infrastructure plan is intended to improve comfort and safety, improve the users experience and meet accessibility guidelines. This program will replace existing bus stop infrastructure, enhance active transportation coordination, add and replace shelters, improve signage, comply with regulations and support the growth of the transit system.

### **PROJECT EXPENDITURE AND FUNDING**

#### **Expenditure (in 000's):**

	<b>Prior Approvals</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>2030</b>	<b>Total</b>
<b>Capital Purchase - Request</b>	<b>\$95</b>	<b>\$115</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$210</b>
<b>Capital Purchase - Forecast</b>	\$0	\$0	\$704	\$590	\$610	\$140	\$126	\$130	\$126	\$130	\$135	\$2,691
<b>Total</b>	\$95	\$115	\$704	\$590	\$610	\$140	\$126	\$130	\$126	\$130	\$135	\$2,901

#### **Funding (in 000's):**

	<b>Prior Approvals</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>2030</b>	<b>Total</b>
<b>Province of Ontario Grant Revenue</b>	\$31	\$38	\$232	\$195	\$201	\$46	\$42	\$43	\$41	\$0	\$0	\$870
<b>Government of Canada Grant Revenue</b>	\$38	\$46	\$282	\$236	\$244	\$56	\$50	\$52	\$50	\$0	\$0	\$1,055
<b>Contribution from DC Reserves Tax</b>	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
<b>Contribution from DC Transit Reserve</b>	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
<b>Contribution from Tax Capital Reserve</b>	\$26	\$31	\$190	\$159	\$165	\$38	\$34	\$35	\$34	\$130	\$135	\$977
<b>Total</b>	\$95	\$115	\$704	\$590	\$610	\$140	\$126	\$130	\$126	\$130	\$135	\$2,901

Expense amounts in **bold text** – 2021 Budget Request

Expense amounts in shaded text – Previously Committed Funding

## 2021 Capital Project Detail Report

**Project Title:** Condition Assessment - Paid Public Lots

**Project Number:** 001004

**Department:** Transit & Parking Strategy

**Rationale:** The proposed parking lot condition assessment is intended to analyze the pavement condition of 27 paid public parking lots within the City and identify specific rehab recommendations tailored to each lot. The technical report will outline detailed designs for capital work required today and over the next 15-20 years to ensure the assets are maintained to an acceptable standard. Key advantages of this assessment include the following.

Safety – ensuring our lots are maintained to an adequate service standard will minimize potential slip and fall instances, damage to vehicles, and resulting liability.

Lifecycle planning – by identifying what capital work is required over it's lifecycle will ensure proper financial planning and capital renewal to have funding available when needed.

Operational – creating smooth well marked surfaces will assist with operating conditions such as snow clearing and sweeping to avoid contact with drainage, curbing, signage, and other ancillary assets.

Service level enhancement – properly maintained surfaces will enhance the appearance and attractiveness of paid parking lots, better control traffic, increase ease of use, and add value for patrons paying for the service.

### **PROJECT EXPENDITURE AND FUNDING**

#### **Expenditure (in 000's):**

	Prior Approvals	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	Total
Study - Request	\$0	\$60	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$60
<b>Total</b>	<b>\$0</b>	<b>\$60</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$60</b>

#### **Funding (in 000's):**

	Prior Approvals	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	Total
Contribution from Parking Capital Reserve	\$0	\$60	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$60
<b>Total</b>	<b>\$0</b>	<b>\$60</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$60</b>

Expense amounts in **bold text** – 2021 Budget Request

Expense amounts in shaded text – Previously Committed Funding

## 2021 Capital Project Detail Report

**Project Title:** Conventional Transit Bus Growth

**Project Number:** 000536

**Department:** Transit & Parking Strategy

**Rationale:** The City anticipates growth in the annexed area starting in 2020, which will require additional routes to service the residents in this area. In order to maintain current service standards, support the new routes, and meet the transit mode share targets, growth of the fleet is required. There are currently not enough assets in the fleet to support new routes added to the network.

<b><u>PROJECT EXPENDITURE AND FUNDING</u></b>												
<b><u>Expenditure (in 000's):</u></b>												
	Prior Approvals	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	Total
<b>Capital Purchase - Request</b>	<b>\$0</b>	<b>\$2,089</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$2,089</b>
<b>Capital Purchase - Forecast</b>	\$0	\$0	\$1,441	\$2,984	\$2,316	\$1,598	\$1,654	\$3,424	\$3,544	\$3,668	\$3,796	\$24,424
<b>Total</b>	\$0	\$2,089	\$1,441	\$2,984	\$2,316	\$1,598	\$1,654	\$3,424	\$3,544	\$3,668	\$3,796	\$26,512
<b><u>Funding (in 000's):</u></b>												
	Prior Approvals	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	Total
<b>Contribution from DC Reserves Tax (Annex)</b>	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
<b>Contribution from DC Transit Reserve</b>	\$0	\$1,776	\$1,225	\$2,536	\$1,969	\$1,358	\$1,406	\$2,910	\$3,012	\$3,117	\$3,227	\$22,536
<b>Contribution from Tax Capital Reserve</b>	\$0	\$313	\$216	\$448	\$347	\$240	\$248	\$514	\$532	\$550	\$569	\$3,977
<b>Total</b>	\$0	\$2,089	\$1,441	\$2,984	\$2,316	\$1,598	\$1,654	\$3,424	\$3,544	\$3,668	\$3,796	\$26,512

Expense amounts in **bold text** – 2021 Budget Request

Expense amounts in shaded text – Previously Committed Funding

## 2021 Capital Project Detail Report

**Project Title:** Conventional Transit Bus Replacement Program

**Project Number:** TR1029

**Department:** Transit & Parking Strategy

**Rationale:** Barrie Transit's current 20 year contract with MVT Barrie Bus Inc. identifies minimum maintenance requirements based on a fleet management strategy. Barrie Transit's fleet has a life cycle expectancy of 12yrs. By the end of its anticipated useful life the probability of failure on this in service asset is high and would cause significant impact on the service level provided to the residents. As such the transit bus replacement program identifies the annual requirements that will result in the retirement of the existing assets which have reached its expected life.

### **PROJECT EXPENDITURE AND FUNDING**

#### **Expenditure (in 000's):**

	<b>Prior Approvals</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>2030</b>	<b>Total</b>
<b>Capital Purchase - Request</b>	<b>\$2,018</b>	<b>\$2,089</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$4,107</b>
<b>Capital Purchase - Forecast</b>	\$0	\$0	\$2,883	\$2,238	\$2,316	\$2,397	\$2,481	\$3,424	\$3,544	\$5,501	\$5,694	\$30,477
<b>Total</b>	\$2,018	\$2,089	\$2,883	\$2,238	\$2,316	\$2,397	\$2,481	\$3,424	\$3,544	\$5,501	\$5,694	\$34,584

#### **Funding (in 000's):**

	<b>Prior Approvals</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>2030</b>	<b>Total</b>
<b>Province of Ontario Grant Revenue</b>	\$666	\$689	\$951	\$738	\$764	\$791	\$819	\$1,130	\$1,169	\$0	\$0	\$7,718
<b>Government of Canada Grant Revenue</b>	\$807	\$836	\$1,153	\$895	\$926	\$959	\$992	\$1,369	\$1,417	\$0	\$0	\$9,355
<b>Contribution from Tax Capital Reserve</b>	\$545	\$564	\$778	\$604	\$625	\$647	\$670	\$924	\$957	\$5,501	\$5,694	\$17,510
<b>Total</b>	\$2,018	\$2,089	\$2,883	\$2,238	\$2,316	\$2,397	\$2,481	\$3,424	\$3,544	\$5,501	\$5,694	\$34,584

Expense amounts in **bold text** – 2021 Budget Request

Expense amounts in shaded text – Previously Committed Funding

## 2021 Capital Project Detail Report

**Project Title:** Digital Parking Pass Solution

**Project Number:** 001031

**Department:** Transit & Parking Strategy

**Rationale:** Today the City of Barrie provides hangtag parking passes, however new technology has made it possible to completely transition from physical to digital parking passes. The Digital Parking Pass Solution is a suite of software that includes backoffice management of parking pass sales and a customer-facing platform for online sales. Parking passes are linked to licence plate numbers, which acts a unique identifier for all parking transactions. In this way, the Digital Parking Pass Solution lays the foundation for a future-state parking "ecosystem" where customer service, operations and enforcement are connected through technology. Integrating with other corporate initiatives such as the Parking App and Licence Plate Recognition (LPR) enforcement technology will unlock new caches of information to support evidence-based improvements.

The intent is to phase out hangtags gradually overtime, starting with a digital option for the Resident Waterfront Parking Pass for summer 2021. This will allow a controlled environment for testing and resolving unforeseen issues before the full transition. A dedicated resource with an IT skillset is required to ensure the project progresses and maintain current service levels as new processes are implemented. This position will be temporary.

### **PROJECT EXPENDITURE AND FUNDING**

#### **Expenditure (in 000's):**

	Prior Approvals	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	Total
Capital Purchase - Request	\$0	\$139	\$143	\$53	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$335
<b>Total</b>	\$0	\$139	\$143	\$53	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$335

#### **Funding (in 000's):**

	Prior Approvals	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	Total
Contribution from Parking Capital Reserve	\$0	\$139	\$143	\$53	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$335
<b>Total</b>	\$0	\$139	\$143	\$53	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$335

Expense amounts in **bold text** – 2021 Budget Request

Expense amounts in shaded text – Previously Committed Funding

## 2021 Capital Project Detail Report

**Project Title:** Specialized Transit Bus Replacement Program

**Project Number:** TR1028

**Department:** Transit & Parking Strategy

**Rationale:** Barrie Transit's current 20 year contract with MVT Barrie Bus Inc. identifies minimum maintenance requirements based on a fleet management strategy. Barrie Transit's fleet has a life cycle expectancy of 7yrs. By the end of its anticipated useful life the probability of failure on this in service asset is high and would cause significant impact on the service level provided to the residents.

### **PROJECT EXPENDITURE AND FUNDING**

#### **Expenditure (in 000's):**

	<b>Prior Approvals</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>2030</b>	<b>Total</b>
<b>Capital Purchase - Request</b>	<b>\$574</b>	<b>\$793</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$1,367</b>
<b>Capital Purchase - Forecast</b>	\$0	\$0	\$0	\$212	\$220	\$682	\$706	\$731	\$756	\$783	\$540	\$4,631
<b>Total</b>	\$574	\$793	\$0	\$212	\$220	\$682	\$706	\$731	\$756	\$783	\$540	\$5,998

#### **Funding (in 000's):**

	<b>Prior Approvals</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>2030</b>	<b>Total</b>
<b>Province of Ontario Grant Revenue</b>	\$190	\$262	\$0	\$70	\$73	\$225	\$233	\$241	\$250	\$0	\$0	\$1,543
<b>Government of Canada Grant Revenue</b>	\$230	\$317	\$0	\$85	\$88	\$273	\$282	\$292	\$303	\$0	\$0	\$1,870
<b>Contribution from Federal Gas Tax Reserve</b>	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
<b>Contribution from Tax Capital Reserve</b>	\$155	\$214	\$0	\$57	\$59	\$184	\$191	\$197	\$204	\$783	\$540	\$2,585
<b>Total</b>	\$574	\$793	\$0	\$212	\$220	\$682	\$706	\$731	\$756	\$783	\$540	\$5,998

Expense amounts in **bold text** – 2021 Budget Request

Expense amounts in shaded text – Previously Committed Funding

## 2021 Capital Project Detail Report

**Project Title:** Transit Alternative Payment Technology Implementation

**Project Number:** 000742

**Department:** Transit & Parking Strategy

**Rationale:** Existing payment options for transit users are limited to cash or pre-purchased ride cards. As payment technologies become commonplace in other transit agencies and industries there is a growing expectation from transit users to have additional payment options such as smart cards or mobile applications.

As part of the evaluation of payment options the City will undertake a business case to determine whether or not the PRESTO card system should be deployed. PRESTO has been in operation for several years now in the Greater Toronto and Hamilton Areas and is already used by Barrie Transit users that utilize it on the GO Transit system.

Mobile payment, using an application (app) running on a smart phone, is becoming more common place and eliminates the need for cash, cards or tickets. York Region Transit launched YRT/VIVA Pay in July 2017 as an alternative to cash and by January 2018 had over 13,000 users. Transport for London, which operates the London Underground has been leveraging Apple Pay as has Japanese railway JR East and New York's MTA's eTix app.

Handling cash is both inefficient for the customer and the City. The collection, control, processing, counting, depositing, and reconciling of cash is costly and could be avoided through smart payment technologies. In addition, the lack of payment options will deter more residents from using the transit system and will continue to create an additional barrier for the growth of transit ridership.

Finally, with the recent impacts of COVID-19 the need for contactless payment options is greater than ever to limit the number of interactions between riders, staff, and bus operators.

### **PROJECT EXPENDITURE AND FUNDING**

#### **Expenditure (in 000's):**

	<b>Prior Approvals</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>2030</b>	<b>Total</b>
<b>Capital Purchase - Request</b>	<b>\$0</b>	<b>\$317</b>	<b>\$577</b>	<b>\$258</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$1,153</b>
<b>Capital Purchase - Forecast</b>	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
<b>Total</b>	\$0	\$317	\$577	\$258	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,153

#### **Funding (in 000's):**

	<b>Prior Approvals</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>2030</b>	<b>Total</b>
<b>Contribution from Tax Capital Reserve</b>	\$0	\$317	\$577	\$258	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,153
<b>Total</b>	\$0	\$317	\$577	\$258	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,153

Expense amounts in **bold text** – 2021 Budget Request

Expense amounts in shaded text – Previously Committed Funding