



2021 PROJECT FUNDING REQUEST FORM

Number:

Project Cost: \$25,400

Project Name: Theatre Fire Alarm 2 Stage Conversion

Commission: Development Services

Repair/Replace

Department: Theatre

Useful Life: 20 Pre Approval:

Project Mgr: Andrew Rosenfarb

Category: Minor

Ward(s): CW 1 2 3 4
5 6 7 8

Cost Validation: Third party estimate

Requirement Validation: Condition assessment

DETAILED DESCRIPTION (SCOPE OF PROJECT):

This project aims to transition the theatre from a single stage fire alarm which forces immediate evacuations, regardless of severity, to a two stage alarm which allows for a short investigation by staff before triggering a full evacuation. This project will also address an update to the fire panel allowing each smoke/heat detector device and pull stations to be updated to an addressable device. This means that from the fire panel, staff can see exactly what device has caused an alarm for quicker investigation and response.

BUILDING MARKHAM'S FUTURE TOGETHER: Safe & Sustainable Community

<u>PROJECT COSTS (\$)</u>	<u>2021</u>	<u>Future Phases</u>
Cost/Quote:	25,000	0
Internal Charges:	0	0
External Consulting:	0	0
Sub Total:	25,000	0
HST Impact:	440	0
Total Project Cost:	25,400	0

NOTES

Amount requested is consistent with life cycle. All theatres and attractions researched have 2 stage alarms to avoid unnecessary evacuations and is considered industry standard. Fire department has been consulted and they have no concerns as long as the Ontario Fire Code Regulations are met.

<u>SOURCE(S) OF FUNDING (\$)</u>	<u>Components</u>						<u>Future Phases</u>
<u>Funding Type</u>	<u>Budget</u>					<u>TOTAL</u>	<u>Phases</u>
Operating Funded Life Cycle	25,400	0	0	0	0	0	0
TOTAL FUNDING	25,400					0	0

<u>OPERATING BUDGET IMPACT</u>	<u>Personnel</u>	<u>Non Personnel</u>	<u>Revenues</u>	<u>Expenditures/(Revenues)</u>
	\$0	\$0	\$0	\$0

DCA/LIFE CYCLE DETAILS

<u>DCA</u>	<u>Year</u>	<u>Amount</u>	<u>Amount in Study</u>	<u>Life Cycle</u>
<u>Name</u>				Amount in Study: <input type="text" value="2,739,100"/>
				Amount Incl HST <input type="text" value="25,400"/>
				Year in the study <input type="text" value="2021"/>
DCA and/or Life Cycle: Explain if there is a change in the year and/or cost:				



2021 PROJECT FUNDING REQUEST FORM

Number: **21019**

Project Cost: **\$465,200**

Project Name: **Berczy Beckett Park (Cherna Ave.) - Design & Construction**

Commission: Development Services

New Asset/Expansion

Department: Design

Useful Life: 25 Pre Approval:

Project Mgr: Richard Fournier

Category: Major

Ward(s): CW 1 2 3 4
5 6 7 8

Cost Validation: Recent awards

Requirement Validation: Other(specify in Notes)

DETAILED DESCRIPTION (SCOPE OF PROJECT):

This project is to design and construct the 0.44 acre (0.17 ha) park located at the west end of Cherna Ave. Includes tree protection measures for existing tree during construction. Program amenities include retaining wall, shade structure & associated landscape works. This will be the last park in the Berczy subdivision.

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PROJECT COSTS (\$)	2021	Future Phases
Cost/Quote:	370,000	0
Internal Charges:	37,800	0
External Consulting:	50,000	0
Sub Total:	457,800	0
HST Impact:	7,392	0
Total Project Cost:	465,200	0

NOTES

Cost per ha is \$2,736,470 (\$465,200/0.17 ha) or \$1,057,273 per acre. Annualized operating cost is \$1,559 (0.17 ha x \$9170/ha) starting in 2022. Estimated in-service date: Q2 2022. Costs will be included in the Life Cycle Reserve Study at time of park assumption based on updated replacement cost for each amenity.

SOURCE(S) OF FUNDING (\$)	Components						Future Phases
	Budget					TOTAL	
DCA	418,680	0	0	0	0	0	0
Parks Cash-in-Lieu	46,520	0	0	0	0	0	0
TOTAL FUNDING	465,200					0	0

OPERATING BUDGET IMPACT	Personnel	Non Personnel	Revenues	Expenditures/(Revenues)
	\$0	\$0	\$0	\$0

DCA/LIFE CYCLE DETAILS

DCA Name	Year	Amount	Amount in Study	Life Cycle
Parks - Berczy Beckett Neighbourhood Park	2017	418,680	661,500	Amount in Study: <input type="text"/>
TOTAL FUNDING		418,680	661,500	Amount Incl HST <input type="text"/>
				Year in the study <input type="text"/>

DCA and/or Life Cycle: Explain if there is a change in the year and/or cost:

The amenities are less than anticipated in DCBS.



2021 PROJECT FUNDING REQUEST FORM

Number: 21022

Project Cost: \$549,300

Project Name: Green Lane Park - Design and Construction

Commission: Development Services

New Asset/Expansion

Department: Design

Useful Life: 25 Pre Approval:

Project Mgr: Richard Fournier

Category: Major

Ward(s): CW 1 2 3 4
5 6 7 8

Cost Validation: Recent awards

Requirement Validation: Other(specify in Notes)

DETAILED DESCRIPTION (SCOPE OF PROJECT):

This project is to design and construct the 0.79ac (0.32ha) park at the south east corner of Green Lane and Harold Lawrie Lane. Anticipated amenities include Jr/Sr playground, half basketball, shade structure and associated landscape works.

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PROJECT COSTS (\$)	2021	Future Phases
Cost/Quote:	450,000	0
Internal Charges:	40,500	0
External Consulting:	50,000	0
Sub Total:	540,500	0
HST Impact:	8,800	0
Total Project Cost:	549,300	0

NOTES

Cost per ha is \$1,716,563 (\$549,300/0.32ha) or \$691,900 per acre. Annualized operating cost is \$2,934 (0.32ha X \$9,170). Estimated in service date: Q3 2022. Costs will be included in the Life Cycle Reserve Study at time of park assumption based on updated replacement cost for each amenity.

SOURCE(S) OF FUNDING (\$)	Components						Future Phases
Funding Type	Budget					TOTAL	Phases
DCA	494,370	0	0	0	0	0	0
Parks Cash-in-Lieu	54,930	0	0	0	0	0	0
TOTAL FUNDING	549,300					0	0

OPERATING BUDGET IMPACT	Personnel	Non Personnel	Revenues	Expenditures/(Revenues)
	\$0	\$0	\$0	\$0

DCA/LIFE CYCLE DETAILS

DCA Name	Year	Amount	Amount in Study	Life Cycle
Parks - Yonge Canac Park	2021	494,370	696,807	Amount in Study: <input type="text"/>
TOTAL FUNDING		494,370	696,807	Amount Incl HST <input type="text"/>
				Year in the study <input type="text"/>

DCA and/or Life Cycle: Explain if there is a change in the year and/or cost:



2021 PROJECT FUNDING REQUEST FORM

Number: **21023**

Project Cost: **\$637,900**

Project Name: **Yonge and Grandview Park - Design and Construction**

Commission: Development Services

New Asset/Expansion

Department: Design

Useful Life: 25 Pre Approval:

Project Mgr: Richard Fournier

Category: Major

Ward(s): CW 1 2 3 4
5 6 7 8

Cost Validation: Recent awards

Requirement Validation: Other(specify in Notes)

DETAILED DESCRIPTION (SCOPE OF PROJECT):

This project is to design and construct the 0.73ac (0.29 ha) park located at the South east corner of Yonge St. and Grandview Ave. Anticipated park amenities include Junior/ Senior playground, plaza area, shade structure, pathways and associated landscape works.

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PROJECT COSTS (\$)	2021	Future Phases
Cost/Quote:	530,000	0
Internal Charges:	47,700	0
External Consulting:	50,000	0
Sub Total:	627,700	0
HST Impact:	10,208	0
Total Project Cost:	637,900	0

NOTES

Cost per ha is \$2,199,655 (\$637,900/0.29 ha) or \$873,836 per acre. Annualized operating cost is \$2,659 (0.29ha x \$9,170). Estimated in service date: Q3 2022. Costs will be included in the Life Cycle Reserve Study at time of park assumption based on updated replacement cost for each amenity.

SOURCE(S) OF FUNDING (\$)	Components						TOTAL	Future Phases
	Funding Type	Budget						
DCA	574,110	0	0	0	0	0	0	
Parks Cash-in-Lieu	63,790	0	0	0	0	0	0	
TOTAL FUNDING	637,900					0	0	

OPERATING BUDGET IMPACT	Personnel	Non Personnel	Revenues	Expenditures/(Revenues)
	\$0	\$0	\$0	\$0

DCA/LIFE CYCLE DETAILS

DCA Name	Year	Amount	Amount in Study	Life Cycle
Parks - Yonge Devron Park	2020	574,110	613,974	Amount in Study: <input type="text"/>
TOTAL FUNDING		574,110	613,974	Amount Incl HST <input type="text"/>
				Year in the study <input type="text"/>

DCA and/or Life Cycle: Explain if there is a change in the year and/or cost:



2021 PROJECT FUNDING REQUEST FORM

Number: 21029

Project Cost: \$816,000

Project Name: Markham Centre Trail Phase 1B Construction

Commission: Development Services

New Asset/Expansion

Department: Engineering

Useful Life: 0 Pre Approval:

Project Mgr: Alberto Lim

Category: Major

Ward(s): CW 1 2 3 4
5 6 7 8

Cost Validation: Recent awards

Requirement Validation: Other(specify in Notes)

DETAILED DESCRIPTION (SCOPE OF PROJECT):

This Budget Request is for the construction of the Phase 1B of the trails on Markham Centre. This location is on the north side of Rouge River from Verdale to Birchmount Road.

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PROJECT COSTS (\$)	2021	Future Phases
Cost/Quote:	723,270	0
Internal Charges:	80,000	0
External Consulting:	0	0
Sub Total:	803,270	0
HST Impact:	12,730	0
Total Project Cost:	816,000	0

NOTES

The 2020 approved budget was not sufficient to fund the entire section of phase 1 due to new requirements (i.e. tree planting south of Rouge, permeable asphalt etc.) from Environmental agencies. Other internal is section 37 funding. Operating impacts will be determined at the time of construction award.

SOURCE(S) OF FUNDING (\$)		Components						Future Phases
Funding Type	Budget					TOTAL	Phases	
DCA	530,400	0	0	0	0	0	0	
Other Internal	285,600	0	0	0	0	0	0	
TOTAL FUNDING	816,000					0	0	

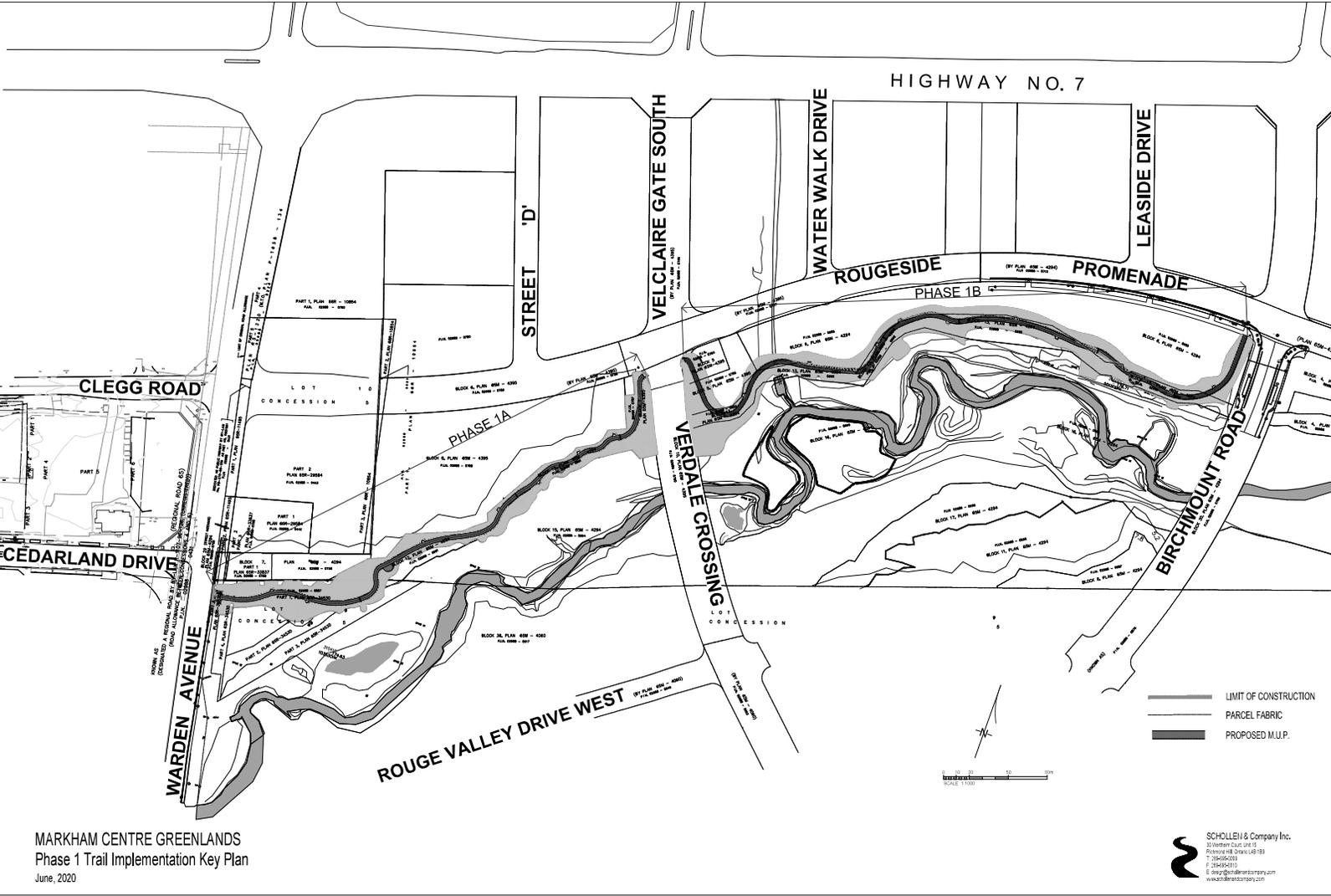
OPERATING BUDGET IMPACT	Personnel	Non Personnel	Revenues	Expenditures/(Revenues)
	\$0	\$0	\$0	\$0

DCA/LIFE CYCLE DETAILS

DCA Name	Year	Amount	Amount in Study	Life Cycle
Hard - Special Projects - City Wide - Bike Lanes on City and Regional Land		530,400	11,325,356	Amount in Study: <input type="text"/>
TOTAL FUNDING		530,400	11,325,356	Amount Incl HST <input type="text"/>
				Year in the study <input type="text"/>

DCA and/or Life Cycle: Explain if there is a change in the year and/or cost:

Markham Centre Phase 1B Construction



MARKHAM CENTRE GREENLANDS
Phase 1 Trail Implementation Key Plan
June, 2020

SCHOLLEN & Company Inc.
3300 Sheppard Ave. E. Unit 10
Richmond Hill, Ontario L4B 1R1
T: 905.882.0000
F: 905.882.0110
E: info@schollenandcompany.com
www.schollenandcompany.com



2021 PROJECT FUNDING REQUEST FORM

Number: **21049**

Project Cost: **\$290,700**

Project Name: **Civic Centre Vestibule Repairs and/or Replacements**

Commission: Corporate Services

Repair/Replace

Department: Asset Management

Useful Life: 0 Pre Approval:

Project Mgr: Sameem Shah

Category: Minor

Ward(s): CW 1 2 3 4
5 6 7 8

Cost Validation: Published guidelines

Requirement Validation: Condition assessment

DETAILED DESCRIPTION (SCOPE OF PROJECT):

Project includes repair/replacement of various components of the Milliken and Great Hall Entrance Vestibules of the Civic Centre to maintain the Civic Centre Facility in a state of good repair and in alignment to the Asset Management Plan/Policy. Funding request is based on actual cost of similar project and life cycle database.

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PROJECT COSTS (\$)	2021	Future Phases
Cost/Quote:	285,672	0
Internal Charges:	0	0
External Consulting:	0	0
Sub Total:	285,672	0
HST Impact:	5,028	0
Total Project Cost:	290,700	0

NOTES

\$290,700 - Great Hall Entrance and Milliken Entrance vestibule repair/replacement (1988)
Amount is consistent with the 2020 Life Cycle Reserve Study update.

SOURCE(S) OF FUNDING (\$)		Components					TOTAL	Future Phases
Funding Type	Budget	Great Hall and Milliken Vestibule						
Operating Funded Life Cycle	290,700	290,700	0	0	0	290,700	0	
TOTAL FUNDING	290,700					290,700	0	

OPERATING BUDGET IMPACT	Personnel	Non Personnel	Revenues	Expenditures/(Revenues)
	\$0	\$0	\$0	\$0

DCA/LIFE CYCLE DETAILS

DCA Name	Year	Amount	Amount in Study	Life Cycle
				Amount in Study: <input type="text" value="868,800"/>
				Amount Incl HST <input type="text" value="290,700"/>
				Year in the study <input type="text" value="2021"/>
DCA and/or Life Cycle: Explain if there is a change in the year and/or cost:				



2021 PROJECT FUNDING REQUEST FORM

Number:

Project Cost: \$2,000,000

Project Name: Theatre-HVAC Replacement

Commission: Corporate Services

Repair/Replace

Department: Asset Management

Useful Life: 30 Pre Approval:

Project Mgr: Jason Vasilaki

Category: Major

Ward(s): CW 1 2 3 4
5 6 7 8

Cost Validation: Third party estimate

Requirement Validation: Condition assessment

DETAILED DESCRIPTION (SCOPE OF PROJECT):

The 3 year Theatre HVAC project began in 2019 with design & consultation and in 2020 with a class A cost estimate to allow an accurate capital budget request for 2021. The 37 year old HVAC system is original to the building and has been deemed at the end of its useful life. This project includes replacement of the venues major HVAC equipment including all air handlers and associated equipment (\$1,382,602) and the building automation system (\$424,198)

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PROJECT COSTS (\$)	2021	Future Phases
Cost/Quote:	1,806,800	0
Internal Charges:	80,000	0
External Consulting:	80,000	0
Sub Total:	1,966,800	0
HST Impact:	33,208	0
Total Project Cost:	2,000,000	0

NOTES

Amount requested is consistent with life cycle. There is no expected incremental operating budget impact. This project requires a 10 week shut down for the venue between August 9-October 15, 2021. System will be connected to UHS/MDE to distribute the heating & cooling and fresh air into the Theatre. Energy savings estimated at \$24,400. Incentives estimated at \$13,000.

SOURCE(S) OF FUNDING (\$)		Components						Future Phases
Funding Type	Budget					TOTAL		
Gas Tax	1,908,800	0	0	0	0	0	0	
Operating Funded Life Cycle	91,200	0	0	0	0	0	0	
TOTAL FUNDING	2,000,000					0	0	

OPERATING BUDGET IMPACT	Personnel	Non Personnel	Revenues	Expenditures/(Revenues)
	\$0	\$0	\$0	\$0

DCA/LIFE CYCLE DETAILS

DCA Name	Year	Amount	Amount in Study	Life Cycle
				Amount in Study: <input type="text" value="2,739,100"/>
				Amount Incl HST <input type="text" value="91,200"/>
				Year in the study <input type="text" value="2021"/>
DCA and/or Life Cycle: Explain if there is a change in the year and/or cost:				



BUILDING MARKHAM'S FUTURE TOGETHER
2020 – 2023 Strategic Plan





Summary

- In 2019, Sustainability & Asset Management conducted the design consultation phase to replace the HVAC systems and Building Automation System at Flato Markham Theatre.
- The HVAC equipment and BAS were original and initially installed in the 1980s. They are at the end of their service life.
- Heating and cooling supply to the existing and new HVAC systems will be by Markham District Energy via Unionville High School.
- Heating and cooling will soon be individually metered and billed for the building per agreement with School Board
- There is a need to improve energy efficiency for this facility and the newly designed systems will accomplish this requirement.



Project Details

- Five (5) large existing air handling units will be disassembled in-place and new units assembled within their respective mechanical rooms.
- Multiple crane lifts to remove and install the units through existing openings will be required.
- The amount of work is very substantial and it is anticipated to take approximately 10 weeks. This will require a complete shut down of the building.



Schedule

In consultation with Theater management and our consultant, the recommended schedule and impacts are as follows:

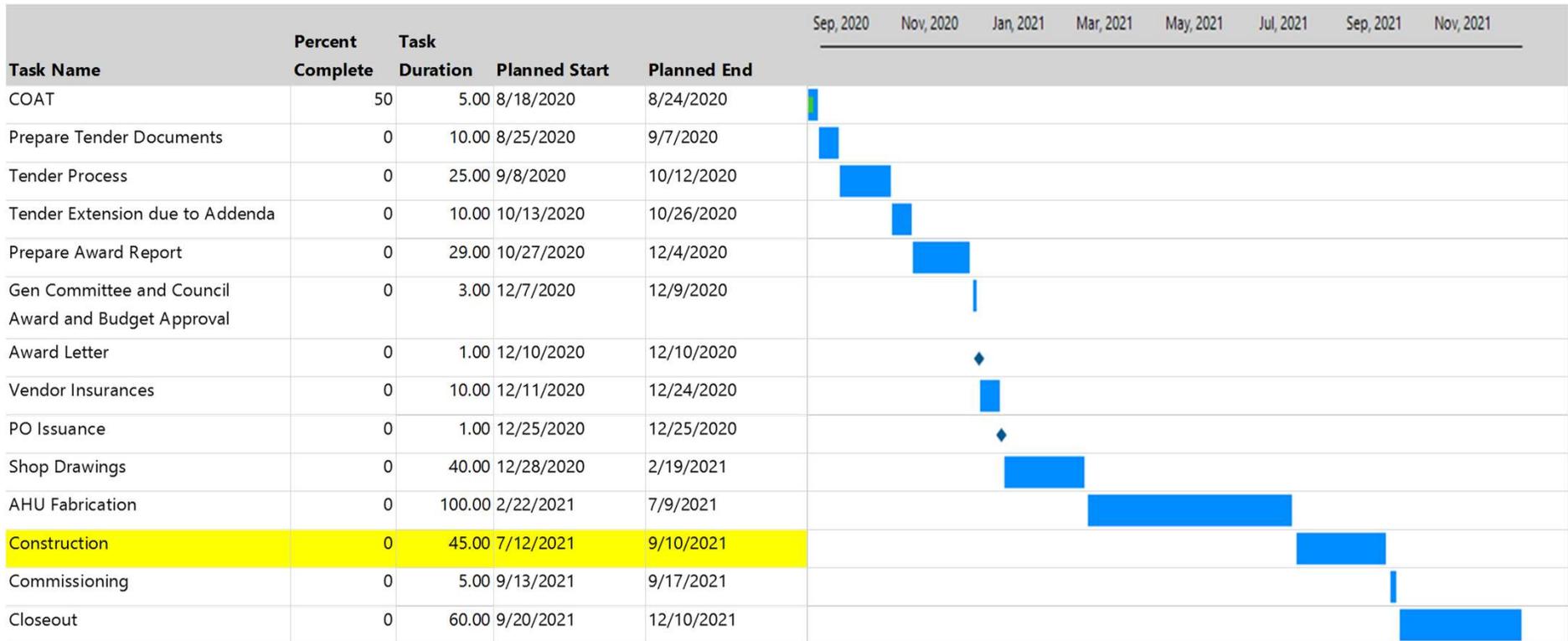
- Construction work is expected to take place beginning of July to mid-September of 2021.
- The time line above:
 - allows for sufficient factory fabrication time of the new units once procured (approximately 6 months lead time required)
 - is beneficial for moderating temperatures within the building during the HVAC shutdown (i.e. no very cold or very hot outdoor temperatures thereby saving the cost impact of temporary A/C or temporary heat)



BUILDING MARKHAM'S FUTURE TOGETHER
2020 – 2023 Strategic Plan



Potential Expedited Schedule





Theatre Closure Impacts

- The Theatre must be temporarily closed to rehearsals and performances during the work due to:
 - public safety
 - construction noise/disturbance
 - no capability to control temperature and humidity to the precise levels that performances require
- Typical season net revenue loss is anticipated to be \$120,000
- During the shutdown, Theatre staff will have to be relocated to work in a suitable location within the Civic Centre.
- The Box Office would remain open for sales but might be required to temporarily relocate also to within the Civic Centre.
- In the event the Theatre re-opens to the public before July 2021 for events that are already booked, construction will begin 1 month later, as a contingency plan.



Budget

- January 2020, a design (Class A) cost estimate was conducted based on complete drawings and specifications, which this budget request is based upon.
- Cost Estimate:

▪ Construction -	\$ 1,806,800
▪ Consulting -	\$ 80,000
▪ HST Impact (on above) -	\$ 33,200
▪ <u>Internal Charges -</u>	<u>\$ 80,000</u>
▪ Total Project Cost	\$ 2,000,000
- \$24,400 estimated annual energy efficiency savings (21% reduction)
- \$13,000 estimated one-time energy conservation incentives



2021 PROJECT FUNDING REQUEST FORM

Number:

Project Cost: \$2,831,400

Project Name: Library Collections

Commission: Community & Fire Services

Repair/Replace

Department: Markham Public Library

Useful Life: 7 Pre Approval:

Project Mgr: Catherine Biss

Category: Annual

Ward(s): CW 1 2 3 4
5 6 7 8

Cost Validation: Recent awards

Requirement Validation: Condition assessment

DETAILED DESCRIPTION (SCOPE OF PROJECT):

Collections are the Library's main product and are used heavily by the public, which expects currency. This requires ongoing acquisition of new materials, including those in print and non-print formats and non-English language materials, which are in high demand in Markham. In a 2020 survey of 2,521 residents, 94% indicated that it was important that MPL provides books and valued borrowing materials as the #1 Library service. A constant stream of new material is required to keep up with customer interest and demand.

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PROJECT COSTS (\$)	2021	Future Phases
Cost/Quote:	2,782,440	0
Internal Charges:	0	0
External Consulting:	0	0
Sub Total:	<u>2,782,440</u>	<u>0</u>
HST Impact:	48,971	0
Total Project Cost:	<u>2,831,400</u>	<u>0</u>

NOTES

Preliminary allocations (incl. processing): Books & Subscriptions \$960K/ Audio-visual \$315K/ French \$25K/ Multilingual \$300K/ Microfilms \$3.5K/ Periodicals \$100K/ Electronic Resources \$937K/ Processing Supplies \$180K. Figures subject to revision based on material availability, customer needs & final Library review. 25% funding (excl. processing costs) devoted to non-English materials (Multilingual, French). Cost for replacement of existing E-Resources (when invoiced in USD) based on exchange rate of 1.37 (\$537K USD\$). Pre-approval request is \$1,598,200.

SOURCE(S) OF FUNDING (\$)	Components						Future Phases
	Funding Type	Budget	Collections			TOTAL	
Operating Funded Life Cycle	2,831,400	2,831,400	0	0	0	2,831,400	0
TOTAL FUNDING	<u>2,831,400</u>					<u>2,831,400</u>	<u>0</u>

OPERATING BUDGET IMPACT	Personnel	Non Personnel	Revenues	Expenditures/(Revenues)
	\$0	\$0	\$0	\$0

DCA/LIFE CYCLE DETAILS

DCA Name	Year	Amount	Amount in Study	Life Cycle
				Amount in Study: <input type="text" value="2,831,400"/>
				Amount Incl HST <input type="text" value="2,831,400"/>
				Year in the study <input type="text" value="2021"/>
DCA and/or Life Cycle: Explain if there is a change in the year and/or cost:				

2021 LIBRARY COLLECTIONS BUDGET SUPPORTING INFORMATION

The Library's Business Model for Material Selection:

MPL's business model for material selection is designed to achieve the following outcomes:

- Strong ROI on funding dollars, respecting the tax-payer's investment in library services;
- Strong library collections as a fundamental element in library service;
- Anticipating and meeting customer needs as determined by analysis of data regarding usage, trends and consumption of content, and broader trends in the publishing, retail, and public sectors;
- Alignment with the diversity of Markham's socio-demographic structure including age cohorts, language needs and preferences, and learning and leisure pursuits;
- Sector leading performance in Key Performance Indicators, including circulation per capita, collection turnover, materials as percentage of total expenditures, and visits per capita;
- Efficient use of funding dollars through a system wide approach to selection, eliminating overlap and duplication amongst the branches;
- Leveraging of alternative sources of content (i.e. online content and interlibrary loan) to satisfy long tail (non-mainstream) needs;
- High levels of use through aggressive targets for percentage of materials checked out at any given time. We want library materials to be in the hands of customers, enriching lives and supporting education.

Depth and Breadth of Library Materials:

Like all public library systems in Canada, MPL's collection policy defines the library mandate to meet the diverse information and knowledge needs of Markham residents through a collection that provides an appropriate balance of depth and breadth; meeting anticipated and expressed individual and community needs.

- **Bestsellers vs. Backlist:** Like bookstores, library "stock" includes both current bestsellers and backlist (older books still in print) items that are in demand by library customers
 - Backlist would include materials such as classics of children's literature
 - Classic board books and picture books for babies and pre-schoolers (*Goodnight Moon, Brown Bear, Brown Bear, What Do You See?*)
 - Series fiction for school aged children (*Diary of a Wimpy Kid, Dork Diaries, Geronimo Stilton, etc.*)
 - Classic children's fiction for school aged children (*Harry Potter, Anne of Green Gables, Treasure Island*)
 - Curriculum related materials (children's non-fiction books on Lands & People, Science, Technology and Math, Social Studies, etc.)
 - Backlist materials for teens such as popular teen fiction series and classics
 - Popular teen fiction (*Twilight, Divergent, The Hunger Games, The Giver, etc.*)
 - Curriculum related non-fiction (materials to support Independent Study Units)
 - Classic literature (Margaret Atwood, William Shakespeare, Harper Lee, William Golding, F. Scott Fitzgerald, etc.)
 - Backlist materials for adults such as classic literature, series fiction and non-fiction
 - Backlist of popular authors (James Patterson, Sue Grafton, Stephen King)
 - Backlist non-fiction (Health & Wellness, Travel, Food & Drink, Business and Financial Investments, Computers, Home & Garden, etc.)

- Genre fiction (Romance, Mysteries, Horror, Fantasy, etc.)
 - Backlist materials for senior adults
 - Large print (popular fiction and non-fiction titles)
 - Audiobooks
- **Linguistic Diversity:** An additional challenge for Markham, in the context of the City's high level of linguistic diversity, is to allocate adequate funding to the demand for multilingual materials in each service area.
- **Customer Purchase Suggestions:** Appropriate response to purchase suggestions by Markham residents where they meet the Library's selection criteria including ensuring that the item would be of interest of other Markham residents.
- **Fiscal Responsibility:** Our collection policy excludes purchasing niche or scholarly materials, ensuring that MPL's collection appeals to the general public and not for niche interests (we try to meet these needs through Interlibrary Loans or online databases).

Estimated budget breakdown for 2021:

Books & Subscriptions	\$960,000
Audiovisual	\$315,000
French Books	\$25,000
Multilingual	\$300,000
Microfilms	\$3,500
Periodicals	\$100,000
eResources	\$937,000
Processing & Supplies	\$180,000

Circulation in 2019 VS 2018:

Circulation	2019	2018	%+/-
Physical Circulation	4,845,118	4,905,024	(1.2)
Digital Circulation (eCirc)	731,177	555,728	31.6
Total Circ (incl. eCirc)	5,576,295	5,460,752	2.1

Electronic circulation over the past 5 years:

Years	2011	2012	2013	2014	2015	2016	2017	2018	2019
eCirculation	67,500	93,651	148,235	164,791	246,864	310,208	370,779	555,728	731,177
%Increase		38.7%	58.3%	11.2%	49.8%	25.66%	19.53%	49.88%	31.57%

As of June 2020, the Library is seeing an increase of 70% in digital circulation over the same period in 2019, a huge increase due in part to COVID 19.

CUSTOMER SATISFACTION WITH COLLECTIONS:

The number one reason for Markham residents using the library is for its collection as they continuously state in all surveys. As you can see from the chart below, our customer expectations of the content MPL provides exceeds their actual satisfaction with the collection.

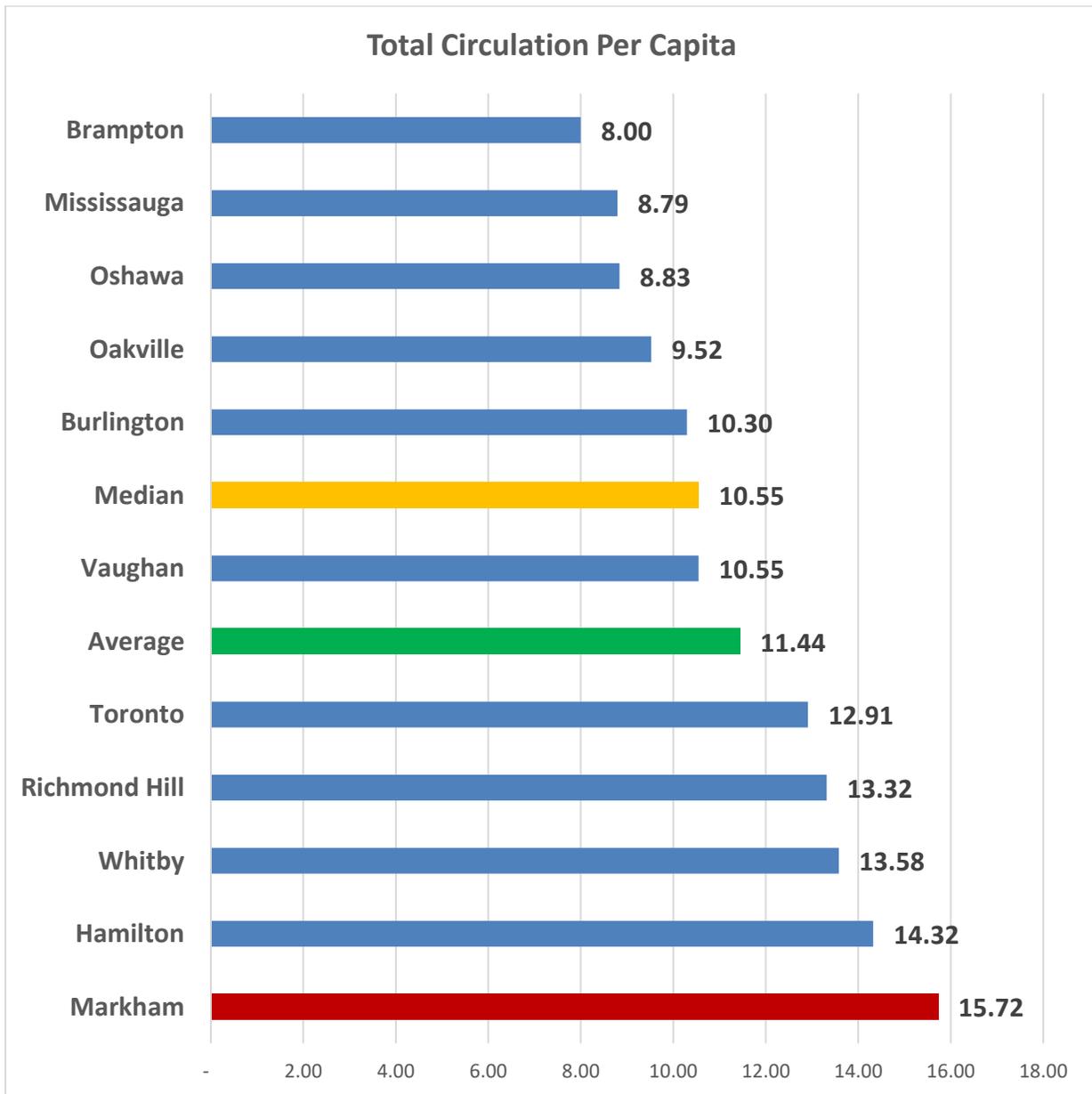
	2019
Importance	9.20/10
Satisfaction	8.03/10
Gap	1.17

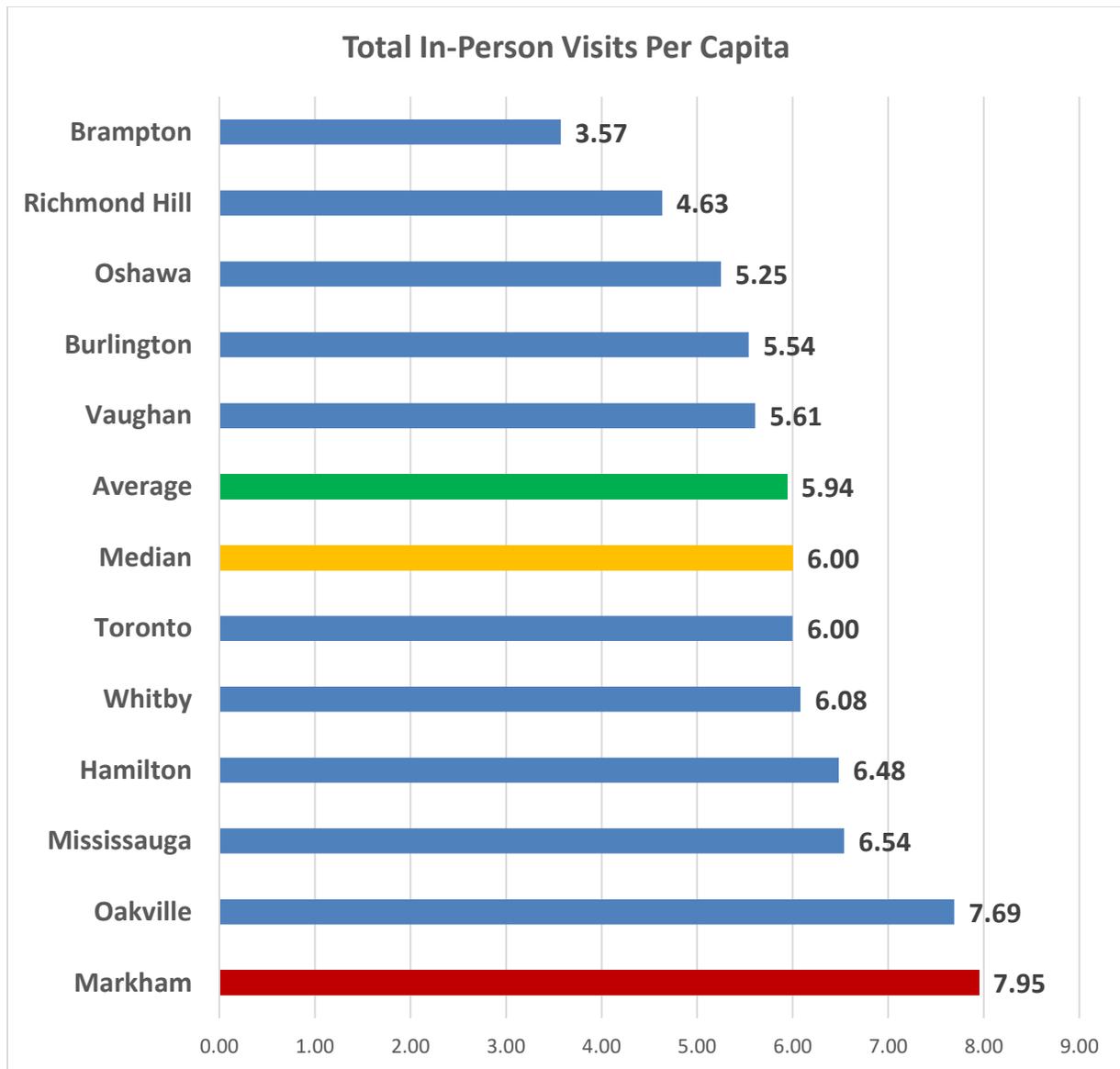
LANGUAGES COLLECTED:

- English, French, Arabic, German, Greek, Gujarati, Hebrew, Hindi, Italian, Korean, Persian, Panjabi, Russian, Spanish, Tagalog, Tamil, Urdu, and Chinese.

KEY PERFORMANCE INDICATORS

(Based on the latest 2018 statistics submitted to Ontario Ministry by Public Libraries)







2021 PROJECT FUNDING REQUEST FORM

Number: 21101

Project Cost: \$6,815,800

Project Name: Asphalt Resurfacing

Commission: Community & Fire Services

Repair/Replace

Department: Operations - Roads

Useful Life: 20 Pre Approval:

Project Mgr: Zoyeb Vahora

Category: Minor

Ward(s): CW 1 2 3 4
5 6 7 8

Cost Validation: Recent awards

Requirement Validation: Condition assessment

DETAILED DESCRIPTION (SCOPE OF PROJECT):

Asphalt resurfacing of roads throughout the City utilizing a pavement management program to select rehabilitation candidates. The overall goal is to maintain an acceptable pavement condition index and user satisfaction by implementing cost effective strategies designed to extend pavement life and reduce overall maintenance costs of the road network. Other work includes interlock, material testing, route and seal, steel, and AC index. Various strategies are utilized on a site specific basis to reach program goals.

BUILDING MARKHAM'S FUTURE TOGETHER: Safe & Sustainable Community

PROJECT COSTS (\$)	2021	Future Phases
Cost/Quote:	6,610,428	0
Internal Charges:	89,002	0
External Consulting:	0	0
Sub Total:	6,699,430	0
HST Impact:	116,344	0
Total Project Cost:	6,815,800	0

NOTES

Asphalt Resurfacing of approximately 17.5km of two lane and four lane roads. 6.8km of four lane roads of pavement preservation which is comparable to last year's program. There is no substantial backlog in this program. Laser condition survey conducted bi-annually indicates 2019 pavement condition result shows that 72.9% of the road network is deemed good or better (target = 80%). Amount requested is consistent with the 2020 Life Cycle Reserve Study update.

SOURCE(S) OF FUNDING (\$)		Components						Future Phases
Funding Type	Budget					TOTAL	Future Phases	
Gas Tax	6,331,600	0	0	0	0	0	0	
Operating Funded Life Cycle	484,200	0	0	0	0	0	0	
TOTAL FUNDING	6,815,800					0	0	

OPERATING BUDGET IMPACT	Personnel	Non Personnel	Revenues	Expenditures/(Revenues)
	\$0	\$0	\$0	\$0

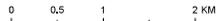
DCA/LIFE CYCLE DETAILS

DCA Name	Year	Amount	Amount in Study	Life Cycle
				Amount in Study: 6,815,800
				Amount Incl HST 6,815,800
				Year in the study 2021
DCA and/or Life Cycle: Explain if there is a change in the year and/or cost:				

Project	Asphalt Resurfacing
2021 Capital Request	\$6,815,800
Funding Source	Life Cycle Reserve
Description of Program	Asphalt resurfacing of roads throughout the City utilizing a pavement management program to select rehabilitation candidates. The overall goal is to maintain an acceptable pavement condition index and user satisfaction by implementing cost effective strategies designed to extend pavement life and reduce overall maintenance and reconstruction costs of the road network.
Project Rationale	Condition assessment is conducted bi-annually to determine specific locations. This is followed by a detailed visual inspection by Operations staff which verifies the laser condition assessment. Identified in the Life Cycle Reserve Study.
Legislative Requirement	O. Reg. 239/02: Minimum Maintenance Standards for Municipal Highways outlines patrol and maintenance requirement related to roadway infrastructure inclusive of asphalt pavement and sidewalk.
History	n/a
Future Phases	This funding is requested each year.
Total Project Cost	n/a
Related Projects	Parking Lot Rehabilitation, Localized Repairs – Concrete/Asphalt
Related Maps	..\Roads\Back Up\Asphalt Rehab\2021 Pavement Rehabilitation Locations.pdf
Alignment to the Strategic Plan	Properly paved and well maintained roads help reduce accidents and promotes safe movement of traffic reducing traveling time. Contracts within this program call for reharvesting and recycling of construction materials. Strategies include warm mix designs which lowers emissions and utilizes recycled aggregate.

Capital Budget 2021 Pavement Rehabilitation Program

Legend
— 2021 Pavement Rehabilitation Locations (78 Segments)



2021 Road Rehabilitation Program

Street Name	Road-Segment ID	From	To	Length	Width	Area
Captain Francis Drive	01473 - 001,002,003	Entirety		872	8	6976
Colonel Marr Road	02028 - 001,002	Entirety		388.85	8	3110.8
Bliss Court	00949 - 001	Entirety		50	8.5	425
Forester Crescent	10693 - 001 to 007	Entirety		1145	8.5	9732.5
Rachel Crescent	10685 - 001 to 005			594	10.5	6237
Ritter Crescent	07811 - 001	Entirety		464	8	3712
Delhi Crescent	02534 - 001, 002	Entirety		640	8	5120
Caledonia Court	01376 - 001	Entirety		60	8.5	510
Leahill Drive	05541 - 001	Entirety		100	6	600
Deanbank Drive	02461 - 001	Entirety		177	3.5	619.5
Deanbank Drive	02461 - 002	Entirety		222	8	1776
Simonston Boulevard East	08468 - 014,016,026,001,004,012,019,024	Dersingham Crescent North	Don Mills	1054	10.5	11067
Brewsland Crescent	01112 - 001	Entirety		329	8	2632
Tamarack Drive	09172 - 001, 002	Entirety		839	8	6712
Elgin Mills Road East	10545 - 013	Victoria Square Boulevard	Warden Avenue	2049	9	18441
Reesor Road	10634 - 004,008	16th	407 ETR	2900	9	26100
Harvest Moon Drive	04268 - 001 to 009	Entirety		1276	9	11484
Riseborough Circuit	07803 - 001 to 022	Entirety		2118	9	19062
Havagal Crescent	04294 - 001, 002	Entirety		655	8	5240
Woodlawn Road	10421 - 001	Entirety		247	8	1976
Denison Street	02585 - 003,006,017,022	Esna Park	Woodbine Avenue	1120	13.5	15120
Kirkham	12009 - 001	Markham Road	New Delhi Drive	135	16	2160

Total

17.43485

km

158812.80

square meters



2021 PROJECT FUNDING REQUEST FORM

Number: 21113

Project Cost: \$678,900

Project Name: Parking Lots- Rehabilitation

Commission: Community & Fire Services

Department: Operations - Roads

Project Mgr: Zoyeb Vahora

Ward(s): CW 1 2 3 4
5 6 7 8

Repair/Replace

Useful Life: 20 Pre Approval:

Category: Minor

Cost Validation: Recent awards

Requirement Validation: Condition assessment

DETAILED DESCRIPTION (SCOPE OF PROJECT):

Complete rehabilitation of selected municipal parking lots throughout the City. Includes removal and replacement of concrete, interlock and asphalt infrastructure, as well as maintenance holes and catch basin adjustments.

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PROJECT COSTS (\$)	2021	Future Phases
Cost/Quote:	667,139	0
Internal Charges:	0	0
External Consulting:	0	0
Sub Total:	667,139	0
HST Impact:	11,742	0
Total Project Cost:	678,900	0

NOTES

Rehabilitation of Miller yard inside gate (19,988sqm), and German Mills/Sabiston (1170sqm). There is no backlog in the program. The parking lots are in a state of good repair. Unit cost is consistent with recent award plus inflation. Amount requested is consistent with the 2020 Life Cycle Reserve Study update.

SOURCE(S) OF FUNDING (\$)	Components					TOTAL	Future Phases
	Budget	Miller Yard	Sabiston				
Operating Funded Life Cycle	678,900	641,400	37,500	0	0	678,900	0
TOTAL FUNDING	678,900					678,900	0

OPERATING BUDGET IMPACT	Personnel	Non Personnel	Revenues	Expenditures/(Revenues)
	\$0	\$0	\$0	\$0

DCA/LIFE CYCLE DETAILS

DCA	Year	Amount	Amount in Study	Life Cycle
Name				Amount in Study: 1,475,600
				Amount Incl HST: 678,900
				Year in the study: 2021
DCA and/or Life Cycle: Explain if there is a change in the year and/or cost:				
75 Clegg deferred until direction from Legal is received. Milliken Mills CC deferred to 2022 due to potential community centre expansion.				

Project	Parking Lot Rehabilitation
2021 Capital Request	\$678,900
Funding Source	Life Cycle Reserve
Description of Program	Asphalt resurfacing of City owned parking lot throughout the City. The overall goal is to maintain an acceptable pavement condition and user satisfaction by implementing timely rehabilitation to extend pavement life and reduce overall maintenance and reconstruction costs of the City's assets.
Project Rationale	Condition assessment is conducted bi-annually to determine specific locations. This is followed by a detailed visual inspection by Operations staff which verifies the laser condition assessment. Identified in the Life Cycle Reserve Study.
Legislative Requirement	O. Reg. 588/17: Asset Management Planning for Municipal Infrastructure outline asset management requirement related to Municipal infrastructure.
History	n/a
Future Phases	This funding is requested each year.
Total Project Cost	n/a
Related Projects	Localized Repairs - Parking Lots
Related Maps	n/a
Alignment to the Strategic Plan	Properly paved and well maintained parking lots help reduce accidents and promotes safe movement of traffic reducing within City owned facilities. Contracts within this program call for reharvesting and recycling of construction materials. Strategies include warm mix designs which lowers emissions and utilizes recycled aggregate.



2021 PROJECT FUNDING REQUEST FORM

Number: 21119

Project Cost: \$1,017,600

Project Name: Block Pruning Initiative - Year 2 of 3

Commission: Community & Fire Services

Department: Operations - Parks

Project Mgr: Miles Peart

Ward(s): CW 1 2 3 4
5 6 7 8

Repair/Replace _____

Useful Life: 0 Pre Approval:

Category: Major

Cost Validation: Third party estimate

Requirement Validation: Visual inspection

DETAILED DESCRIPTION (SCOPE OF PROJECT):

The City owns approximately 100,000 street trees. This is a 3 year capital project to prune City trees proactively to improve storm damage resistance and reduce residents complaints which currently are over 2,700 per year. This program will address proactive street tree pruning of 23,333 trees per year through contracted services.

BUILDING MARKHAM'S FUTURE TOGETHER: Safe & Sustainable Community

PROJECT COSTS (\$)	2021	Future Phases
Cost/Quote:	1,000,000	777,127
Internal Charges:	0	0
External Consulting:	0	0
Sub Total:	1,000,000	777,127
HST Impact:	17,600	13,677
Total Project Cost:	1,017,600	790,800

NOTES

Phase 1 is 95% complete and has made a noticeable improvement in the neighborhoods which have been completed. Once the 70,000 trees have been pruned the remaining 30,000 trees will be addressed as part of the regular operating budget. The operating budget is being increased by \$50K each year from 2020 to 2022 to ensure a total of \$150K additional operating funding is available by 2023. Currently, the tree inventory is not in a state of good repair & backlog led to this proactive approach to updating the asset.

SOURCE(S) OF FUNDING (\$)	Components						TOTAL	Future Phases
Funding Type	Budget						TOTAL	
Tax	1,017,600	0	0	0	0	0	790,800	
TOTAL FUNDING	1,017,600					0	790,800	

OPERATING BUDGET IMPACT	Personnel	Non Personnel	Revenues	Expenditures/(Revenues)
	\$0	\$0	\$0	\$0

DCA/LIFE CYCLE DETAILS

DCA Name	Year	Amount	Amount in Study	Life Cycle
_____	_____	_____	_____	Amount in Study: <input style="width: 80px;" type="text"/>
				Amount Incl HST <input style="width: 80px;" type="text"/>
				Year in the study <input style="width: 80px;" type="text"/>

DCA and/or Life Cycle: Explain if there is a change in the year and/or cost:

Project: Block Pruning 3 Year Project
Total Project Cost Table

	Project Number(s)	Past Projects (\$)	Current Project (\$)	Future Projects (\$)	Total (\$)
Project Component 1	20197		\$ 1,244,396		\$ 1,244,396
Project Component 2			\$ 1,017,600		\$ 1,017,600
Project Component 3			\$ 790,804		\$ 790,804
Total (\$)		\$ -	\$ 3,052,800	\$ -	\$ 3,052,800
Description of Project	3 year capital project to prune 70% of all City trees to improve storm damage resistance and reduce residents complaints which currently are over 2,000 ACRs per year.				
What was completed in the past? Include timeline of works done.	Year 1 program was 7 complete blocks which represented the highest risk trees. The year 1 program will be 100% complete by December 31, 2020.				
Current project objective	Year 2 of the program will be to complete 6 complete blocks which represent the next highest risk trees. The goal is to start in late fall and be complete by June 1, 2021.				
Description of future work required. Include estimated timing.	Complete block pruning of map grids E5,G4,G5,H6,J4,J5 by June 1, 2021				

Neighbourhood Tree Maintenance Project 2020, 2021 and 2022 Grids





2021 PROJECT FUNDING REQUEST FORM

Number:

Project Cost: \$1,620,700

Project Name: Corporate Fleet Replacement - Non-Fire

Commission: Community & Fire Services

Repair/Replace

Department: Operations - Fleet

Useful Life: 5 Pre Approval:

Project Mgr: Raymond Law/Peter Englezakos

Category: Major

Ward(s): CW 1 2 3 4
5 6 7 8

Cost Validation: Other(specify in Notes)

Requirement Validation: Multiple(specify)

DETAILED DESCRIPTION (SCOPE OF PROJECT):

2021 Annual Fleet Replacement Program based on the Council adopted Corporate Fleet Policy Guidelines. Life cycle costing targets optimal replacement intervals (ORI) which identifies the most cost effective time period for replacement. All vehicles and equipment contained in this program have reached or surpassed the ORI. User Departments were consulted with respect to the units in this program. Total units - 31 units

BUILDING MARKHAM'S FUTURE TOGETHER: Safe & Sustainable Community

<u>PROJECT COSTS (\$)</u>	<u>2021</u>	<u>Future Phases</u>
Cost/Quote:	1,592,680	0
Internal Charges:	0	0
External Consulting:	0	0
Sub Total:	1,592,680	0
HST Impact:	28,031	0
Total Project Cost:	1,620,700	0

NOTES

Useful life varies - 4 to 12 years based on units types. Operations-Non Fleet (\$53k) includes cord trimmers, chainsaws, blowers, etc. Cost Validation- Most recent purchase of similar unit type; Requirement validation - Condition assessment, vehicle reliability & down time, & operating costs. Units specified in this program will be purchased with the most recent technology available at time of purchase providing maximized fuel economy with minimal emissions.

<u>SOURCE(S) OF FUNDING (\$)</u>	<u>Components</u>					<u>TOTAL</u>	<u>Future Phases</u>
	<u>Budget</u>	<u>Licensed</u>	<u>Non Licensed</u>	<u>Non Fleet</u>			
Operating Funded Life Cycle	1,620,700	727,633	840,131	52,936	0	1,620,700	0
TOTAL FUNDING	1,620,700					1,620,700	0

<u>OPERATING BUDGET IMPACT</u>	<u>Personnel</u>	<u>Non Personnel</u>	<u>Revenues</u>	<u>Expenditures/(Revenues)</u>
	\$0	\$0	\$0	\$0

DCA/LIFE CYCLE DETAILS

<u>DCA Name</u>	<u>Year</u>	<u>Amount</u>	<u>Amount in Study</u>	<u>Life Cycle</u>
				Amount in Study: <input type="text" value="2,440,500"/>
				Amount Incl HST <input type="text" value="2,416,900"/>
				Year in the study <input type="text" value="2021"/>
DCA and/or Life Cycle: Explain if there is a change in the year and/or cost:				



2021 PROJECT FUNDING REQUEST FORM

Number: 21177

Project Cost: \$1,557,100

Project Name: Corporate Capital Contingency

New Asset/Expansion

Commission: Corporate Wide

Useful Life: 0 Pre Approval:

Department: Corporate Wide

Category: Major

Project Mgr: _____

Cost Validation: Other(specify in Notes)

Ward(s): CW 1 2 3 4
5 6 7 8

Requirement Validation: Other(specify in Notes)

DETAILED DESCRIPTION (SCOPE OF PROJECT):

Total amount of contingency for 2021 applicable capital projects.

BUILDING MARKHAM'S FUTURE TOGETHER:

PROJECT COSTS (\$)	2021	Future Phases
Cost/Quote:	1,557,093	0
Internal Charges:	0	0
External Consulting:	0	0
Sub Total:	<u>1,557,093</u>	<u>0</u>
HST Impact:	0	0
Total Project Cost:	<u>1,557,100</u>	<u>0</u>

NOTES

Other Internal funding breakdown:
\$8,960 Non-DC Growth, \$3,800 Waterworks reserve, \$2,510 Development fee reserve

SOURCE(S) OF FUNDING (\$)	Components						Future Phases
	Funding Type	Budget			TOTAL		
DCA	1,206,461	0	0	0	0	0	0
Gas Tax	182,400	0	0	0	0	0	0
Operating Funded Life Cycle	77,600	0	0	0	0	0	0
Other Internal	15,270	0	0	0	0	0	0
Parks Cash-in-Lieu	70,169	0	0	0	0	0	0
Tax	5,200	0	0	0	0	0	0
TOTAL FUNDING	<u>1,557,100</u>				<u>0</u>		<u>0</u>

OPERATING BUDGET IMPACT	Personnel	Non Personnel	Revenues	Expenditures/(Revenues)
	\$0	\$0	\$0	\$0

DCA/LIFE CYCLE DETAILS

<u>DCA</u> <u>Name</u>	<u>Year</u>	<u>Amount</u>	<u>Amount in</u> <u>Study</u>	<u>Life Cycle</u>
				Amount in Study: <input data-bbox="1344 149 1479 184" type="text"/> Amount Incl HST <input data-bbox="1344 197 1479 233" type="text"/> Year in the study <input data-bbox="1344 245 1479 281" type="text"/>
DCA and/or Life Cycle: Explain if there is a change in the year and/or cost:				