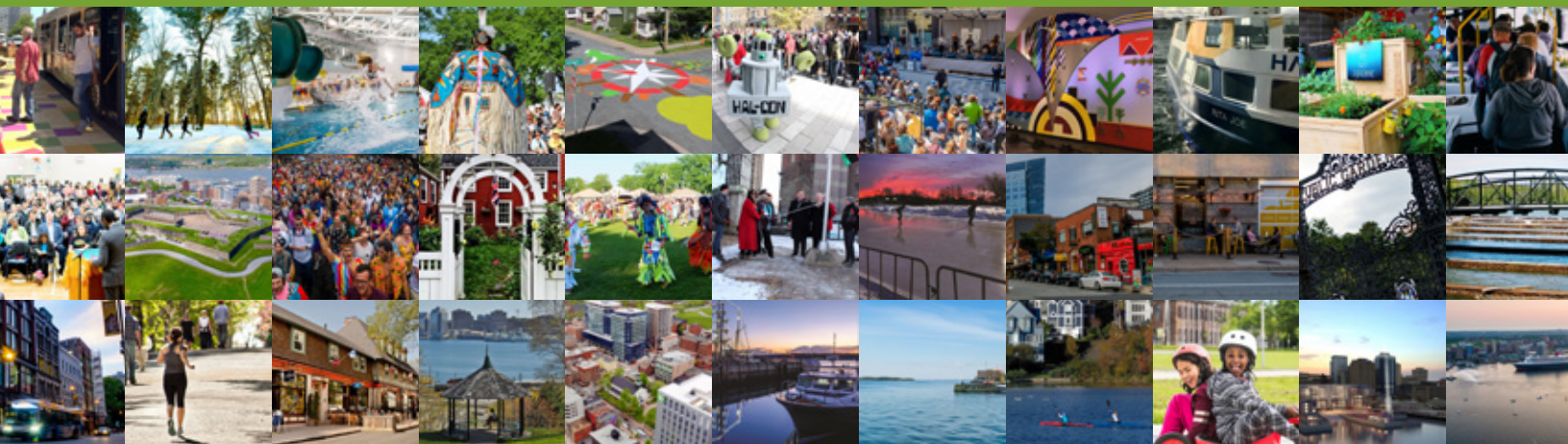




2019-2020

CAPITAL PLAN



HALIFAX

2019/20 Capital Budget Summary

Budget Category	2019/20 Gross	2019/20 Funding	2019/20 Net
Buildings	30,345,000	10,590,000	19,755,000
Business Tools	18,106,950	10,573,500	7,533,450
District Capital Funds	1,504,000	-	1,504,000
Equipment & Fleet	9,008,000	1,717,000	7,291,000
Halifax Transit	34,335,000	11,781,000	22,554,000
Parks & Playgrounds	15,010,000	8,060,000	6,950,000
Roads & Active Transportation	48,745,000	22,155,000	26,590,000
Solid Waste	2,240,000	2,240,000	-
Traffic Improvements	4,675,000	2,460,000	2,215,000
Grand Total	163,968,950	69,576,500	94,392,450

Project Specific Funding

Reserves	60,089,500
Area Rate	110,000
Local Improvement Charge	350,667
Pavement Impact Charges	816,333
Other Private Cost Sharing	50,000
Provincial Government Cost Sharing	2,000,000
Other Government Cost Sharing (unconfirmed)	6,160,000
	69,576,500

Capital Budget Capacity

Additional Debt Approved	27,109,000
Capital From Operating	37,005,000
Gas Tax Reserve	25,123,000
CAPPOOL	5,155,450
	94,392,450

Tab - Buildings

Buildings

Page #	Project Name	Old Project #	New Project #	2019/20 Workplan	2019/20 Carry Forward	2019/20 Gross	2019/20 Funding	2019/20 Net
A1	Accessibility - HRM Facilities	CBX01154	CB190006	781,839	281,839	500,000	-	500,000
A2	Adventure Earth Centre Recap	Build1	CB200001	-	-	-	-	-
A3	Alderney Gate Library Renos	CB190004	CB190004	-	-	-	-	-
A4	Alderney Gate Recapitalization	CBX01157	CB190007	1,666,498	66,498	1,600,000	1,600,000	-
A5	Bedford Library Replacement	CB190002	CB190002	-	-	-	-	-
A6	Bedford Outdoor Pool	CB000067	CB000067	-	-	-	-	-
A7	BMO Centre	CB000064	CB000064	413,085	213,085	200,000	200,000	-
A8	Building Recap Future Yrs-Parks & Rec	CB000048	CB000048	-	-	-	-	-
A9	Captain William Spry Library Renos	CB190005	CB190005	-	-	-	-	-
A10	Captain William Spry Renovations	CB000023	CB000023	82,052	82,052	-	-	-
A11	Category 1 Recreation Facilities Recap	CB190006	CB190006	-	-	-	-	-
A12	Central Library Replacement	CB000086	CB000086	159,437	159,437	-	-	-
A13	Cole Harbour Place	CB000045	CB000045	802,270	52,270	750,000	-	750,000
A14	Corporate Accommodations	CB000047	CB190011	2,250,526	950,526	1,300,000	-	1,300,000
A15	Corporate Accommodations - Alderney	CB000048	CB000046	265,200	265,200	-	-	-
A16	Cultural Spaces Plan	CB000078	CB000078	-	-	-	-	-
A17	Dartmouth North Community Centre	CB000075	CB000075	546,630	546,630	-	-	-
A18	Eastern Passage High School Enhance	CB000007	CB000007	630,000	-	630,000	-	630,000
A19	Emera Oval	CB180008	CB180008	532,345	532,345	-	-	-
A20	EMO Projects	Build2	CB200002	-	-	-	-	-
A21	Energy Efficiency Initiatives	CBX01161	CB190008	1,182,554	182,554	1,000,000	1,000,000	-
A22	Environmental Remediation/Bldg Demo	CBX01162	CB190009	1,450,426	1,050,426	400,000	400,000	-
A23	Findlay Community Centre Recap	Build3	CB200003	-	-	-	-	-
A24	Fire Station 2, University Ave Recap	CB000052	CB000052	2,051,980	1,551,980	500,000	-	500,000
A25	Fire Station Functional Improvements	CB000088	CB000088	775,000	250,000	525,000	-	525,000
A26	Fire Station Replacements	CB000065	CB000065	5,000,000	-	5,000,000	-	5,000,000
A27	General Building Recapitalization	CB000090	CB000090	1,907,335	707,335	1,200,000	700,000	500,000
A28	George Dixon Community Ctr Recap	Build4	CB200004	-	-	-	-	-
A29	Halifax City Hall/Grand Parade Restore	CB180003	CB180003	1,116,330	816,330	300,000	-	300,000
A30	Halifax Forum Redevelopment	CBX01340	CBX01340	400,000	-	400,000	-	400,000
A31	Halifax North Memorial Public Library	CB190003	CB190003	500,000	-	500,000	500,000	-
A32	HRFE Future Buildings Recap	CB000057	CB000057	-	-	-	-	-
A33	HRM Depot Upgrades	CB180004	CB180004	363,631	163,631	200,000	-	200,000
A34	Keshen Goodman Library Renovations	Build5	CB190010	500,000	-	500,000	500,000	-
A35	Lakeside Community Centre Recap	CB000085	CB000085	-	-	-	-	-
A36	LeBrun Centre Renovations	CB190001	CB190001	200,000	-	200,000	-	200,000
A37	Library Masterplan Implementation	CB000077	CB000077	115,236	115,236	-	-	-
A38	Mackintosh Depot Replacement	CB000089	CB000089	2,425,000	175,000	2,250,000	-	2,250,000
A39	Metropark Upgrades	CB000073	CB000073	380,000	280,000	100,000	100,000	-
A40	Multi-District Facilities (MDF)-Upgrades	CB180001	CB180001	2,213,874	1,013,874	1,200,000	-	1,200,000
A41	Needham Community Centre Recap	CB000009	CB000009	-	-	-	-	-
A42	Police Headquarters	CB000022	CB000022	-	-	-	-	-
A43	RBC Centre	CB180007	CB180007	296,486	146,486	150,000	150,000	-
A44	Regional Heritage Museum	CB000076	CB000076	-	-	-	-	-
A45	Regional Library Facility Upgrade	CBX01165	CBX01165	763,549	763,549	-	-	-
A46	Regional Park Washrooms	CB000010	CB000010	420,624	20,624	400,000	400,000	-
A47	Roof Recapitalization	CB180005	CB180005	811,278	311,278	500,000	-	500,000
A48	Sackville Sports Stadium	CB000060	CB000060	431,780	431,780	-	-	-
A49	Sambro/Harrietsfield Fire Station	CB000079	CB000079	5,446,521	3,946,521	1,500,000	-	1,500,000
A50	Scotiabank Centre	CB000028	CB000028	5,353,508	813,508	4,540,000	4,540,000	-
A51	Sheet Harbour Recreation Centre	CB000080	CB000080	59,031	59,031	-	-	-
A52	South Peninsula School Gym Enhance	CB000084	CB000084	-	-	-	-	-
A53	St. Andrew's Community Centre Renos	CB000011	CB000011	8,405,887	5,205,887	3,200,000	-	3,200,000
A54	St. Mary's Boat Club	CB000004	CB000004	-	-	-	-	-
A55	Upper Sackville Recreation Centre	CB000061	CB000061	70,784	70,784	-	-	-
A56	Wharf Recapitalization	CB000087	CB000087	300,000	-	300,000	-	300,000
A57	Youth Live Recap	Build6	CB200005	-	-	-	-	-
A58	Zatzman Sportsplex Revitalization	CB000006	CB000006	500,000	-	500,000	500,000	-
Grand Total				51,570,696	21,225,696	30,345,000	10,590,000	19,755,000

2019/20 Capital Budget Form

Project Name: Accessibility - HRM Facilities	Est. Start Date: Annual Program
Project Number: CB190006	Est. Completion Date: Annual Program
Budget Category: Buildings	Supports Priority Area: Social Development
Project Type: Asset Renewal	
Discrete/Bundled: Bundled	Project Manager: Darren Young
Multi-Year: No	Asset Steward: Various

Project Summary

Scope of Work for 2019/20 will be focused around the implementation of the Nova Scotia Access by Design 2030 initiative. Typical projects include access ramps, door operators, washroom upgrades and other initiatives.

Total Project Budget: n/a

Budget Estimate Confidence: +-25%

Project Budget by Year

Fiscal Year	Previously Approved	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Gross Budget:	3,181,032	500,000	500,000	500,000	4,669,000	9,350,032
Project Specific Funding:						
Reserves	-	-	-	-	-	-
Other Funding	-	-	-	-	-	-
Total Funding:	-	-	-	-	-	-
Net Budget:	3,181,032	500,000	500,000	500,000	4,669,000	9,350,032

Impact on Operating Budget:

As accessible features like door operators, accessible drinking fountains, pool lifts, adult change tables and ramps for example are added to the inventory, these items will require ongoing maintenance. An increase to the operating budget will be needed for those features.

Operating Impacts of Capital Budget / Lifecycle Cost

	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Ongoing Operating Costs (Savings)	5,000	10,000	15,000	245,000	275,000
One-time Operating Costs (Savings)	-	-	-	-	-

Detailed Work Plan for 2019/20:

	2019/20
Accessible projects to include:	781,839
Evergreen House - general access and washroom upgrades	
Chocolate Lake CC ramp upgrades	
Albro Lake Beach - Mobi-chairs and accessible mats	
Penhorn Lake Beach - Mobi-chairs and accessible mats	
Chocolate Lake Beach - Mobi-chairs and accessible mats	
Door Operators	
Washroom improvements	
Accessible wayfinding signage	
Total Estimated Work Plan	781,839
Less: Projected Carry Forward from Previous Years	281,839
Gross Budget Request	500,000

2019/20 Capital Budget Form

Project Name: Adventure Earth Centre Recap	Est. Start Date: Apr-22
Project Number: CB200001	Est. Completion Date: Mar-23
Budget Category: Buildings	Supports Priority Area: Healthy, Livable Communities
Project Type: Asset Renewal	
Discrete/Bundled: Discrete	Project Manager: John MacPherson
Multi-Year: No	Asset Steward: Mgr, Mun. Facilities Maintenance & Ops

Project Summary

This Heritage building known as St. Augustine's Chapel was built in the late 1800's. A Building Condition Assessment (BCA) was completed in August 2013. The work plan will be developed from the BCA and the Parks & Recreation needs for the facility.

Total Project Budget: 200,000

Budget Estimate Confidence: +-50%

Project Budget by Year

Fiscal Year	Previously Approved	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Gross Budget:	-	-	-	-	200,000	200,000
Project Specific Funding:						
Reserves	-	-	-	-	-	-
Other Funding	-	-	-	-	-	-
Total Funding:	-	-	-	-	-	-
Net Budget:	-	-	-	-	200,000	200,000

Impact on Operating Budget:

To be determined once design changes have been finalized.

Operating Impacts of Capital Budget / Lifecycle Cost

	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Ongoing Operating Costs (Savings)	-	-	-	-	-
One-time Operating Costs (Savings)	-	-	-	-	-

Detailed Work Plan for 2019/20:

	2019/20
Total Estimated Work Plan	-
Less: Projected Carry Forward from Previous Years	
Gross Budget Request	-

2019/20 Capital Budget Form

Project Name: Alderney Gate Library Renos	Est. Start Date: Apr-21
Project Number: CB190004	Est. Completion Date: Mar-24
Budget Category: Buildings	Supports Priority Area: Social Development
Project Type: Asset Renewal	
Discrete/Bundled: Discrete	Project Manager: Terry Gallagher
Multi-Year: Yes	Asset Steward: Mgr, Mun. Facilities Maintenance & Ops

Project Summary

Renovations to the existing Alderney Gate branch including state of good repair improvements to the building systems including lighting, heating, ventilation and materials/finishes. Renovations will provide the opportunity to make upgrades to the existing planning of the three levels to more effectively deliver programs and services, including such basic amenities as accessible public washrooms on every floor.

Total Project Budget: 8,500,000

Budget Estimate Confidence: +-25%

Project Budget by Year

Fiscal Year	Previously Approved	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Gross Budget:	-	-	-	500,000	8,000,000	8,500,000
Project Specific Funding:						
Reserves	-	-	-	-	-	-
Other Funding	-	-	-	-	-	-
Total Funding:	-	-	-	-	-	-
Net Budget:	-	-	-	500,000	8,000,000	8,500,000

Impact on Operating Budget:

The 2018/19 operating budget is \$1,504,200. This is comprised of \$4,000 for utilities, \$10,400 for maintenance and \$1,489,800 for compensations and benefits. The increase to the operating budget is expected to be minimal as the building will be renovated to include more efficient building systems.

Operating Impacts of Capital Budget / Lifecycle Cost

	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Ongoing Operating Costs (Savings)	-	-	-	-	-
One-time Operating Costs (Savings)	-	-	-	-	-

Detailed Work Plan for 2019/20:

2019/20

Total Estimated Work Plan	-
Less: Projected Carry Forward from Previous Years	
Gross Budget Request	-

2019/20 Capital Budget Form

Project Name: Alderney Gate Recapitalization	Est. Start Date: Annual Program
Project Number: CB190007	Est. Completion Date: Annual Program
Budget Category: Buildings	Supports Priority Area: Governance & Engagement
Project Type: Asset Renewal	
Discrete/Bundled: Bundled	Project Manager: John MacPherson
Multi-Year: No	Asset Steward: Mgr, Mun. Facilities Maintenance & Ops

Project Summary

Projects at Alderney Gate will focus on building envelope and a refresh of common spaces to maintain the building in good repair and improve interior conditions for public, customers, staff and tenants.

Total Project Budget: n/a

Budget Estimate Confidence: +-25%

Project Budget by Year

Fiscal Year	Previously Approved	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Gross Budget:	5,259,717	1,600,000	600,000	600,000	4,200,000	12,259,717
Project Specific Funding:						
Q541 (Building Recapitalization and Replacement Reserve)		1,600,000	600,000	600,000	4,200,000	7,000,000
Other Funding	-	-	-	-	-	-
Total Funding:	-	1,600,000	600,000	600,000	4,200,000	7,000,000
Net Budget:	5,259,717	-	-	-	-	5,259,717

Impact on Operating Budget:

No anticipated change to operating budget.

Operating Impacts of Capital Budget / Lifecycle Cost

	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Ongoing Operating Costs (Savings)	-	-	-	-	-
One-time Operating Costs (Savings)	-	-	-	-	-

Detailed Work Plan for 2019/20:

	2019/20
Main lobby area refresh	1,000,000
Library entrance improvements	
Security desk update	
Entry vestibule improvements	
New universal washroom	
Building envelope repairs	300,000
AHU Upgrades	200,000
Consulting	100,000
Projects underway to be completed in 2019	66,498
Total Estimated Work Plan	1,666,498
Less: Projected Carry Forward from Previous Years	66,498
Gross Budget Request	1,600,000

2019/20 Capital Budget Form

Project Name: Bedford Library Replacement	Est. Start Date: Apr-20
Project Number: CB190002	Est. Completion Date: Mar-25
Budget Category: Buildings	Supports Priority Area: Social Development
Project Type: Growth	
Discrete/Bundled: Discrete	Project Manager: Terry Gallagher
Multi-Year: Yes	Asset Steward: To Be Determined

Project Summary

Construction of a new district Library to serve the community of Bedford. The building is estimated to be approximately 30,000 square feet and will replace the existing Bedford Public Library that is leased, undersized for the catchment area and does not meet the criteria of a modern Library. Public Consultation and Needs Assessment will be completed in 2019/20.

Total Project Budget: 15,000,000

Budget Estimate Confidence: +10%

Project Budget by Year

Fiscal Year	Previously Approved	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Gross Budget:	-	-	250,000	-	14,750,000	15,000,000
Project Specific Funding:						
Reserves	-	-	-	-	-	-
Other Funding	-	-	-	-	-	-
Total Funding:	-	-	-	-	-	-
Net Budget:	-	-	250,000	-	14,750,000	15,000,000

Impact on Operating Budget:

The 2018/19 operating budget is \$850,000 comprised of \$163,000 for lease cost and The estimated cost for utilities and maintenance is \$48,500 and the estimated cost for compensation and benefits is \$638,500.

Operating Impacts of Capital Budget / Lifecycle Cost

	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Ongoing Operating Costs (Savings)	-	-	-	5,750,000	5,750,000
One-time Operating Costs (Savings)	-	-	-	-	-

Detailed Work Plan for 2019/20:

2019/20

Total Estimated Work Plan	-
Less: Projected Carry Forward from Previous Years	
Gross Budget Request	-

2019/20 Capital Budget Form

Project Name: Bedford Outdoor Pool	Est. Start Date: Apr-21
Project Number: CB000067	Est. Completion Date: Mar-23
Budget Category: Buildings	Supports Priority Area: Healthy, Livable Communities
Project Type: Asset Renewal	
Discrete/Bundled: Discrete	Project Manager: John MacPherson
Multi-Year: No	Asset Steward: Mgr, Mun. Facilities Maintenance & Ops

Project Summary

In 2018 a Building Condition Assessment (BCA) was completed to determine the State of Good Repair recapitalization for this building. The data identifies lifecycle deficiencies that need to be addressed in order to maintain the assets in a state of good repair.

Total Project Budget: 300,000

Budget Estimate Confidence: +-50%

Project Budget by Year

Fiscal Year	Previously Approved	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Gross Budget:	100,000	-	-	100,000	100,000	300,000
Project Specific Funding:						
Reserves	-	-	-	-	-	-
Other Funding	-	-	-	-	-	-
Total Funding:	-	-	-	-	-	-
Net Budget:	100,000	-	-	100,000	100,000	300,000

Impact on Operating Budget:

To be determined once design changes have been finalized.

Operating Impacts of Capital Budget / Lifecycle Cost

	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Ongoing Operating Costs (Savings)	-	-	-	-	-
One-time Operating Costs (Savings)	-	-	-	-	-

Detailed Work Plan for 2019/20:

	2019/20
Total Estimated Work Plan	-
Less: Projected Carry Forward from Previous Years	
Gross Budget Request	-

2019/20 Capital Budget Form

Project Name: BMO Centre	Est. Start Date: Annual Program
Project Number: CB000064	Est. Completion Date: Annual Program
Budget Category: Buildings	Supports Priority Area: Healthy, Livable Communities
Project Type: Asset Renewal	
Discrete/Bundled: Bundled	Project Manager: Darren Young
Multi-Year: No	Asset Steward: Manager, Program Support Services

Project Summary

There is a contractual agreement which requires Nustadia Recreation Inc. to maintain the BMO Centre to meet the recreation needs of HRM citizens. The agreement states Nustadia is responsible for all capital work in the building and HRM is liable for all capital costs. Reserve Q546 Multi-District Facilities Reserve has been set up and would be the source of funding for these capital items.

Total Project Budget: n/a

Budget Estimate Confidence: +10%

Project Budget by Year

Fiscal Year	Previously Approved	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Gross Budget:	898,000	200,000	250,000	250,000	1,750,000	3,348,000
Project Specific Funding:						
Q546 (Multi-District Facilities Reserve)	898,000	200,000	250,000	250,000	1,750,000	3,348,000
Other Funding	-	-	-	-	-	-
Total Funding:	898,000	200,000	250,000	250,000	1,750,000	3,348,000
Net Budget:	-	-	-	-	-	-

Impact on Operating Budget:

As per the contract, any impact on the operating budget are covered within the existing budget.

Operating Impacts of Capital Budget / Lifecycle Cost

	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Ongoing Operating Costs (Savings)	-	-	-	-	-
One-time Operating Costs (Savings)	-	-	-	-	-

Detailed Work Plan for 2019/20:

	2019/20
Building Envelope upgrades	250,000
Arena boards repairs/modifications	35,000
Mechanical equipment schedule overhauls	35,000
Furniture, fixtures and equipment upgrades or replacements	40,000
Security & Communication system upgrades	21,000
Projects underway to be completed in 2019	32,085
Total Estimated Work Plan	413,085
Less: Projected Carry Forward from Previous Years	213,085
Gross Budget Request	200,000

2019/20 Capital Budget Form

Project Name: Building Recap Future-Parks & Rec	Est. Start Date: Annual Program
Project Number: CB000048	Est. Completion Date: Annual Program
Budget Category: Buildings	Supports Priority Area: Healthy, Livable Communities
Project Type: Asset Renewal	
Discrete/Bundled: Bundled	Project Manager: John MacPherson
Multi-Year: No	Asset Steward: Various

Project Summary

The Municipality undertook a Building Condition Assessment program to develop a state of good repair recapitalization program for municipal buildings. The data formulated a recapitalization plan, which addresses priority buildings for recapitalization and integrates systematic building projects, to maintain the assets. This project is the execution of years 4 to 10 of the recapitalization plan. This scope covers recapitalization of the facilities and does not include any service improvements.

Total Project Budget: n/a

Budget Estimate Confidence: +-25%

Project Budget by Year

Fiscal Year	Previously Approved	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Gross Budget:	-	-	-	-	22,860,000	22,860,000
Project Specific Funding:						
Reserves	-	-	-	-	-	-
Other Funding	-	-	-	-	-	-
Total Funding:	-	-	-	-	-	-
Net Budget:	-	-	-	-	22,860,000	22,860,000

Impact on Operating Budget:

The impact on the Operating Budget is determined as projects are identified and those funds are included in the Fiscal year of the project.

Operating Impacts of Capital Budget / Lifecycle Cost

	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Ongoing Operating Costs (Savings)	-	-	-	-	-
One-time Operating Costs (Savings)	-	-	-	-	-

Detailed Work Plan for 2019/20:

	2019/20
Work plan to be developed in future years	
Total Estimated Work Plan	-
Less: Projected Carry Forward from Previous Years	
Gross Budget Request	-

2019/20 Capital Budget Form

Project Name: Captain William Spry Library Renos	Est. Start Date: Apr-22
Project Number: CB190005	Est. Completion Date: Mar-24
Budget Category: Buildings	Supports Priority Area: Healthy, Livable Communities
Project Type: Asset Renewal	
Discrete/Bundled: Discrete	Project Manager: Terry Gallagher
Multi-Year: No	Asset Steward: Mgr, Mun. Facilities Maintenance & Ops

Project Summary

Improved customer experience by reorganizing existing spaces within the branch. This includes interior planning, improved entry and renovating to relocate specific functional areas within the existing footprint, and to address functional challenges related to the allocation of space across the two levels. This project will also provide an opportunity to upgrade materials and finishes that are approaching the end of their service life.

Total Project Budget: 4,000,000

Budget Estimate Confidence: +25%

Project Budget by Year

Fiscal Year	Previously Approved	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Gross Budget:	-	-	-	-	4,000,000	4,000,000
Project Specific Funding:						
Reserves	-	-	-	-	-	-
Other Funding	-	-	-	-	-	-
Total Funding:	-	-	-	-	-	-
Net Budget:	-	-	-	-	4,000,000	4,000,000

Impact on Operating Budget:

The 2018/19 operating budget is \$766,800. This is comprised of \$1,000 for utilities, \$8,000 for maintenance and \$757,800 for compensations and benefits. The increase to the operating budget is expected to be minimal as the building will be renovated to include more efficient building systems with no increase to the net area of the branch.

Operating Impacts of Capital Budget / Lifecycle Cost

	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Ongoing Operating Costs (Savings)	-	-	-	-	-
One-time Operating Costs (Savings)	-	-	-	-	-

Detailed Work Plan for 2019/20:

	2019/20
Total Estimated Work Plan	-
Less: Projected Carry Forward from Previous Years	
Gross Budget Request	-

2019/20 Capital Budget Form

Project Name: Captain William Spry Renovations	Est. Start Date: Apr-22
Project Number: CB000023	Est. Completion Date: Sep-23
Budget Category: Buildings	Supports Priority Area: Healthy, Livable Communities
Project Type: Asset Renewal	
Discrete/Bundled: Discrete	Project Manager: Mike MacDonald
Multi-Year: Yes	Asset Steward: Mgr, Mun. Facilities Maintenance & Ops

Project Summary

Captain William Spry Community Centre was constructed in 1985 to meet the recreation needs of the community. This project will 1) improve the state of good repair of the locker rooms, 2) reduce maintenance costs due to the age of the existing materials and 3) improve accessibility. An interior renovation and addition is proposed to relocate the locker rooms in order to minimize the loss of programming space for swimming.

Total Project Budget:	2,445,000
Budget Estimate Confidence:	+25%

Project Budget by Year

Fiscal Year	Previously Approved	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Gross Budget:	145,000	-	-	-	2,300,000	2,445,000
Project Specific Funding:						
Reserves	-	-	-	-	-	-
Other Funding	-	-	-	-	-	-
Total Funding:	-	-	-	-	-	-
Net Budget:	145,000	-	-	-	2,300,000	2,445,000

Impact on Operating Budget:

Impact on operating budget will be determined once the design for the renovations have been completed.

Operating Impacts of Capital Budget / Lifecycle Cost

	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Ongoing Operating Costs (Savings)	-	-	-	-	-
One-time Operating Costs (Savings)	-	-	-	-	-

Detailed Work Plan for 2019/20:

	2019/20
Planning is underway and work is scheduled to begin in 2022/23	82,052
Total Estimated Work Plan	82,052
Less: Projected Carry Forward from Previous Years	82,052
Gross Budget Request	-

2019/20 Capital Budget Form

Project Name: Category 1 Recreation Facilities Recap	Est. Start Date: Annual Program
Project Number: CB190006	Est. Completion Date: Annual Program
Budget Category: Buildings	Supports Priority Area: Healthy, Livable Communities
Project Type: Asset Renewal	
Discrete/Bundled: Bundled	Project Manager: Darren Young
Multi-Year: Yes	Asset Steward: Manager, Program Support Services

Project Summary

A multi-year recapitalization of HRM Category 1 Facilities that do not have discrete accounts. Due to the age of many of the facilities, they require improvements to the major building systems to continue to provide service to the residents of HRM.

Total Project Budget: n/a

Budget Estimate Confidence: +-35%

Project Budget by Year

Fiscal Year	Previously Approved	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Gross Budget:	-	-	-	-	3,500,000	3,500,000
Project Specific Funding:						
Reserves	-	-	-	-	-	-
Other Funding	-	-	-	-	-	-
Total Funding:	-	-	-	-	-	-
Net Budget:	-	-	-	-	3,500,000	3,500,000

Impact on Operating Budget:

Recapitalization will lessen the burden on operating and maintenance costs.

Operating Impacts of Capital Budget / Lifecycle Cost

	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Ongoing Operating Costs (Savings)	-	-	-	-	-
One-time Operating Costs (Savings)	-	-	-	-	-

Detailed Work Plan for 2019/20:

	2019/20
Total Estimated Work Plan	-
Less: Projected Carry Forward from Previous Years	
Gross Budget Request	-

2019/20 Capital Budget Form

Project Name: Central Library Replacement	Est. Start Date: Apr-12
Project Number: CB000086	Est. Completion Date: Apr-20
Budget Category: Buildings	Supports Priority Area: Healthy, Livable Communities
Project Type: Growth	
Discrete/Bundled: Discrete	Project Manager: Mike MacDonald
Multi-Year: Yes	Asset Steward: Mgr, Mun. Facilities Maintenance & Ops

Project Summary

This account is to cover final components of the Central Library.

Total Project Budget: 572,622

Budget Estimate Confidence: +-10%

Project Budget by Year

Fiscal Year	Previously Approved	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Gross Budget:	572,622	-	-	-	-	572,622
Project Specific Funding:						
Reserves	-	-	-	-	-	-
Other Funding	-	-	-	-	-	-
Total Funding:	-	-	-	-	-	-
Net Budget:	572,622	-	-	-	-	572,622

Impact on Operating Budget:

No impact on operating budget is anticipated.

Operating Impacts of Capital Budget / Lifecycle Cost

	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Ongoing Operating Costs (Savings)	-	-	-	-	-
One-time Operating Costs (Savings)	-	-	-	-	-

Detailed Work Plan for 2019/20:

	2019/20
Completion of sign, site features and associated landscaping	125,000
Completion of prior projects	34,437
Total Estimated Work Plan	159,437
Less: Projected Carry Forward from Previous Years	159,437
Gross Budget Request	-

2019/20 Capital Budget Form

Project Name: Cole Harbour Place	Est. Start Date: Apr-19
Project Number: CB000045	Est. Completion Date: Apr-20
Budget Category: Buildings	Supports Priority Area: Healthy, Livable Communities
Project Type: Asset Renewal	
Discrete/Bundled: Discrete	Project Manager: Nick Allen
Multi-Year: No	Asset Steward: Manager, Program Support Services

Project Summary

This project includes the recapitalization of interior finishes as well as mechanical and electrical systems to maintain the facility in a state of good repair.

Total Project Budget: 6,345,000

Budget Estimate Confidence: +-10%

Project Budget by Year

Fiscal Year	Previously Approved	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Gross Budget:	5,595,000	750,000	-	-	-	6,345,000
Project Specific Funding:						
Reserves	-	-	-	-	-	-
Other Funding	-	-	-	-	-	-
Total Funding:	-	-	-	-	-	-
Net Budget:	5,595,000	750,000	-	-	-	6,345,000

Impact on Operating Budget:

No impact on the Operating Budget, these are replacement components for existing aging components.

Operating Impacts of Capital Budget / Lifecycle Cost

	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Ongoing Operating Costs (Savings)	-	-	-	-	-
One-time Operating Costs (Savings)	-	-	-	-	-

Detailed Work Plan for 2019/20:

	2019/20
Recapitalization of interior finishes, mechanical and electrical systems.	802,270
Total Estimated Work Plan	802,270
Less: Projected Carry Forward from Previous Years	52,270
Gross Budget Request	750,000

2019/20 Capital Budget Form

Project Name: Corporate Accommodations	Est. Start Date: Annual Program
Project Number: CB190011	Est. Completion Date: Annual Program
Budget Category: Buildings	Supports Priority Area: Governance & Engagement
Project Type: Asset Renewal	
Discrete/Bundled: Bundled	Project Manager: Marcia Connolly
Multi-Year: No	Asset Steward: Various

Project Summary

Halifax Regional Municipality is committed to providing cost effective, high quality services to its residents. Inherent in this goal is the provision of appropriate and economical accommodations for staff. This program will support staff relocations, and office and municipal service configuration.

Total Project Budget: n/a

Budget Estimate Confidence: +-25%

Project Budget by Year

Fiscal Year	Previously Approved	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Gross Budget:	2,000,000	1,300,000	1,400,000	-	11,270,000	15,970,000
Project Specific Funding:						
Reserves	-	-	-	-	-	-
Other Funding	-	-	-	-	-	-
Total Funding:	-	-	-	-	-	-
Net Budget:	2,000,000	1,300,000	1,400,000	-	11,270,000	15,970,000

Impact on Operating Budget:

Near term increases resulting from some overlap of terms for leased space. At the end of the initial 5 year program the expected reduction in our leased space, combined with more favorable lease rates is anticipated to result in a 20-25% reduction in lease costs with additional savings resulting from fewer small projects and ergonomic adjustments.

Operating Impacts of Capital Budget / Lifecycle Cost

	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Ongoing Operating Costs (Savings)	-	-	-	-	-
One-time Operating Costs (Savings)	-	-	-	(900,000)	(900,000)

Detailed Work Plan for 2019/20:

	2019/20
Alderney Gate - 6th Floor Renovations & new systems furniture	900,000
Mellor Ave - Refresh & install new systems furniture	280,000
Option Space for Human Resources/Diversity & Inclusion - fit-up & install new furniture	120,000
Program Contingency / Design work for future years projects	575,000
Projects underway to be completed in 2019	375,526
Total Estimated Work Plan	2,250,526
Less: Projected Carry Forward from Previous Years	950,526
Gross Budget Request	1,300,000

2019/20 Capital Budget Form

Project Name: Corporate Accommodations - Alderney	Est. Start Date: Annual Program
Project Number: CB000046	Est. Completion Date: Annual Program
Budget Category: Buildings	Supports Priority Area: Service Delivery
Project Type: Asset Renewal	
Discrete/Bundled: Bundled	Project Manager: John MacPherson
Multi-Year: No	Asset Steward: Mgr, Mun. Facilities Maintenance & Ops

Project Summary

The Alderney Gate master plan has been established to provide a roadmap (2015-2020) to revitalize Alderney Gate as a community hub and provide an increased level of service. Projects completed to date include a new Harbour East - Marine Drive Community Council, Customer Service Storefront on the ground floor, as well as a refresh of the common spaces.

Total Project Budget: n/a

Budget Estimate Confidence: +-25%

Project Budget by Year

Fiscal Year	Previously Approved	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Gross Budget:	920,000	-	-	-	-	920,000
Project Specific Funding:						
Reserves	-	-	-	-	-	-
Other Funding	-	-	-	-	-	-
Total Funding:	-	-	-	-	-	-
Net Budget:	920,000	-	-	-	-	920,000

Impact on Operating Budget:

No impact anticipated

Operating Impacts of Capital Budget / Lifecycle Cost

	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Ongoing Operating Costs (Savings)	-	-	-	-	-
One-time Operating Costs (Savings)	-	-	-	-	-

Detailed Work Plan for 2019/20:

	2019/20
Addition of barrier free universal washrooms and supporting infrastructure	265,200
Total Estimated Work Plan	265,200
Less: Projected Carry Forward from Previous Years	265,200
Gross Budget Request	-

2019/20 Capital Budget Form

Project Name: Cultural Spaces Plan	Est. Start Date: Apr-26
Project Number: CB000078	Est. Completion Date: Apr-27
Budget Category: Buildings	Supports Priority Area: Economic Development
Project Type: Growth	
Discrete/Bundled: Discrete	Project Manager: John MacPherson
Multi-Year: No	Asset Steward: To Be Determined

Project Summary

On July 29, 2014, Regional Council directed staff to develop a Cultural Spaces Plan which includes completion of a needs assessment, feasibility studies and identify potential partners and service delivery models that may include new cultural spaces and/or recapitalization of existing facilities. The outcome of that plan may include construction of new cultural facility, estimated at \$50M, and only \$5M has been included for design work in the final year of the ten year plan.

A business case would be required for Council to initiate a new cultural facility, including evaluations on the need, cost-benefit, risk, economic impact, partnership opportunities and updated cost estimates.

Total Project Budget: 5,000,000

Budget Estimate Confidence: +50%

Project Budget by Year

Fiscal Year	Previously Approved	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Gross Budget:	-	-	-	-	5,000,000	5,000,000
Project Specific Funding:						
Reserves	-	-	-	-	-	-
Other Funding	-	-	-	-	-	-
Total Funding:	-	-	-	-	-	-
Net Budget:	-	-	-	-	5,000,000	5,000,000

Impact on Operating Budget:

N/A at this time

Operating Impacts of Capital Budget / Lifecycle Cost

	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Ongoing Operating Costs (Savings)	-	-	-	-	-
One-time Operating Costs (Savings)	-	-	-	-	-

Detailed Work Plan for 2019/20:

2019/20

Total Estimated Work Plan	-
Less: Projected Carry Forward from Previous Years	
Gross Budget Request	-

2019/20 Capital Budget Form

Project Name: Dartmouth North Community Centre	Est. Start Date: Apr-21
Project Number: CB000075	Est. Completion Date: Mar-24
Budget Category: Buildings	Supports Priority Area: Healthy, Livable Communities
Project Type: Growth	
Discrete/Bundled: Discrete	Project Manager: John MacPherson
Multi-Year: Yes	Asset Steward: Mgr, Mun. Facilities Maintenance & Ops

Project Summary

The existing facility was constructed in 1995; and does not meet the needs of the community for Library and Recreation Services. In addition, a recapitalization of interior finishes, mechanical systems and electrical systems is required. The updated building layout will incorporate crime prevention through environmental design (CPTED). Further programming needs assessments are planned for 19/20.

Total Project Budget: 4,849,750

Budget Estimate Confidence: +-25%

Project Budget by Year

Fiscal Year	Previously Approved	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Gross Budget:	1,599,750	-	-	500,000	2,750,000	4,849,750
Project Specific Funding:						
Reserves	-	-	-	-	-	-
Other Funding	-	-	-	-	-	-
Total Funding:	-	-	-	-	-	-
Net Budget:	1,599,750	-	-	500,000	2,750,000	4,849,750

Impact on Operating Budget:

The expansion of the building will increase the operating cost for this additional space.

Operating Impacts of Capital Budget / Lifecycle Cost

	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Ongoing Operating Costs (Savings)	-	-	-	252,000	252,000
One-time Operating Costs (Savings)	-	-	-	24,000	24,000

Detailed Work Plan for 2019/20:

	2019/20
Address immediate health and safety concerns and repairs	100,000
Planning and design	446,630
Total Estimated Work Plan	546,630
Less: Projected Carry Forward from Previous Years	546,630
Gross Budget Request	-

2019/20 Capital Budget Form

Project Name: Eastern Passage High School Enhance	Est. Start Date: Apr-19
Project Number: CB000007	Est. Completion Date: Aug-19
Budget Category: Buildings	Supports Priority Area: Healthy, Livable Communities
Project Type: Growth	
Discrete/Bundled: Discrete	Project Manager: John MacPherson
Multi-Year: No	Asset Steward: Manager, Program Support Services

Project Summary

On January 15, 2013, Regional Council approved entering into a partnership with the Province of Nova Scotia, to facilitate high school enhancements in response to the Eastern Passage Recreation Needs Assessment. The proposed enhancement of the gymnasium for the Eastern Passage High School creates an additional full gymnasium for school and community use. HRM contribution is to be paid once the school is completed and the Joint Use Agreement is signed.

Total Project Budget: 630,000

Budget Estimate Confidence: +-5%

Project Budget by Year

Fiscal Year	Previously Approved	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Gross Budget:	-	630,000	-	-	-	630,000
Project Specific Funding:						
Reserves	-	-	-	-	-	-
Other Funding	-	-	-	-	-	-
Total Funding:	-	-	-	-	-	-
Net Budget:	-	630,000	-	-	-	630,000

Impact on Operating Budget:

To be determined through the Joint Use Agreement.

Operating Impacts of Capital Budget / Lifecycle Cost

	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Ongoing Operating Costs (Savings)	-	-	-	-	-
One-time Operating Costs (Savings)	-	-	-	-	-

Detailed Work Plan for 2019/20:

2019/20

HRM's contribution to Halifax Regional School Board for an enhanced gym, Joint use agreement to be completed	630,000
Total Estimated Work Plan	630,000
Less: Projected Carry Forward from Previous Years	
Gross Budget Request	630,000

2019/20 Capital Budget Form

Project Name: Emera Oval	Est. Start Date: Apr-10
Project Number: CB180008	Est. Completion Date: Apr-20
Budget Category: Buildings	Supports Priority Area: Healthy, Livable Communities
Project Type: Growth	
Discrete/Bundled: Discrete	Project Manager: Mike MacDonald
Multi-Year: No	Asset Steward: Mgr, Mun. Facilities Maintenance & Ops

Project Summary

Following the 2011 Canada Winter Games, funding was allocated to construct the permanent support facilities. The Pavilion houses the ice re-surfacers, skate rental/storage room, equipment for skate sharpening, staff office and public washroom.

Total Project Budget: 655,356

Budget Estimate Confidence: +-10%

Project Budget by Year

Fiscal Year	Previously Approved	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Gross Budget:	655,356	-	-	-	-	655,356
Project Specific Funding:						
Reserves	-	-	-	-	-	-
Other Funding	-	-	-	-	-	-
Total Funding:	-	-	-	-	-	-
Net Budget:	655,356	-	-	-	-	655,356

Impact on Operating Budget:

No additional impact on operating budget is anticipated.

Operating Impacts of Capital Budget / Lifecycle Cost

	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Ongoing Operating Costs (Savings)	-	-	-	-	-
One-time Operating Costs (Savings)	-	-	-	-	-

Detailed Work Plan for 2019/20:

	2019/20
Completion of contract work associated to the main building	120,000
Exterior works	412,345
Total Estimated Work Plan	532,345
Less: Projected Carry Forward from Previous Years	532,345
Gross Budget Request	-

2019/20 Capital Budget Form

Project Name: EMO Projects	Est. Start Date: Apr-22
Project Number: CB200002	Est. Completion Date: Mar-27
Budget Category: Buildings	Supports Priority Area: Healthy, Livable Communities
Project Type: Asset Renewal	
Discrete/Bundled: Discrete	Project Manager: John MacPherson
Multi-Year: Yes	Asset Steward: Mgr, Mun. Facilities Maintenance & Ops

Project Summary

To update the functional working location of the Eric Spicer Emergency Management Operations (EMO) Centre.
 This account will be also used to purchase generator(s) annually to improve EMO's comfort centre coverage throughout HRM.

Total Project Budget: 1,500,000

Budget Estimate Confidence: +-50%

Project Budget by Year

Fiscal Year	Previously Approved	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Gross Budget:	-	-	-	-	1,500,000	1,500,000
Project Specific Funding:						
Reserves	-	-	-	-	-	-
Other Funding	-	-	-	-	-	-
Total Funding:	-	-	-	-	-	-
Net Budget:	-	-	-	-	1,500,000	1,500,000

Impact on Operating Budget:

To be determined following design activities. Emergency generators requiring testing and maintenance.

Operating Impacts of Capital Budget / Lifecycle Cost

	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Ongoing Operating Costs (Savings)	-	-	-	-	-
One-time Operating Costs (Savings)	-	-	-	-	-

Detailed Work Plan for 2019/20:

2019/20

Total Estimated Work Plan	-
Less: Projected Carry Forward from Previous Years	
Gross Budget Request	-

2019/20 Capital Budget Form

Project Name: Energy Efficiency Initiatives	Est. Start Date: Annual Program
Project Number: CB190008	Est. Completion Date: Annual Program
Budget Category: Buildings	Supports Priority Area: Healthy, Livable Communities
Project Type: Asset Renewal	
Discrete/Bundled: Bundled	Project Manager: Shannon Miedema
Multi-Year: No	Asset Steward: Various

Project Summary

Energy efficiency and green energy projects can include natural gas conversions, heating, ventilation and air conditioning upgrades, water conservation and lighting upgrades, as well as district energy and renewable energy initiatives. This work reduces reliance on fossil fuels resulting in decreased operating costs and greenhouse gas emissions. This account also allows HRM to capitalize on relevant funding opportunities and to pilot innovative technologies.

Total Project Budget: n/a

Budget Estimate Confidence: +-10%

Project Budget by Year

Fiscal Year	Previously Approved	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Gross Budget:	4,362,603	1,000,000	1,000,000	1,000,000	7,000,000	14,362,603
Project Specific Funding:						
Q526 (Capital Fund Reserve)	4,362,603	1,000,000	1,000,000	1,000,000	7,000,000	14,362,603
Other Funding	-	-	-	-	-	-
Total Funding:	4,362,603	1,000,000	1,000,000	1,000,000	7,000,000	14,362,603
Net Budget:	-	-	-	-	-	-

Impact on Operating Budget:

Efficiency projects reduce the operating costs for these buildings year over year.

Operating Impacts of Capital Budget / Lifecycle Cost

	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Ongoing Operating Costs (Savings)	(750,000)	(1,500,000)	(2,250,000)	(7,500,000)	(12,000,000)
One-time Operating Costs (Savings)	-	-	-	-	-

Detailed Work Plan for 2019/20:

	2019/20
Energy efficiency upgrades and initiatives over various facilities.	900,000
-LED Lighting and lighting Controls Upgrades Interior+Exterior	
-Insulation, air sealing, and Building Envelope upgrades	
-Continued Recommissioning of HRMs Building Portfolio	
-Fuel Switching upgrades	
-heat pump upgrades to electrically heated buildings	
-Building controls upgrades	
-Variable frequency Drives and motor upgrades	
-Heat Recovery Upgrades	
-New Construction energy modeling and energy efficiency upgrades	
-Efficiency Water fixtures	
-Energy Audits	
Onsite Energy Manager (OEM) through Efficiency Nova Scotia Program	100,000
Continue to input HRM buildings into EnergyStar Portfolio Manager to benchmark buildings and track progress	
Projects underway to be completed in 2019	182,554
Total Estimated Work Plan	1,182,554
Less: Projected Carry Forward from Previous Years	182,554
Gross Budget Request	1,000,000

2019/20 Capital Budget Form

Project Name: Environmental Remediation/Bldg Demo	Est. Start Date: Annual Program
Project Number: CB190009	Est. Completion Date: Annual Program
Budget Category: Buildings	Supports Priority Area: Governance & Engagement
Project Type: Asset Renewal	
Discrete/Bundled: Bundled	Project Manager: John MacPherson
Multi-Year: No	Asset Steward: Mgr, Mun. Facilities Maintenance & Ops

Project Summary

Projects include the demolition of several smaller scaled facilities and the completion of projects that were initiated in previous years. This includes the removal and remediation for underground storage tanks at sites that are proceeding through the Administrative Order 50 (AO50) , the disposal of surplus real property.

Total Project Budget: n/a

Budget Estimate Confidence: +-25%

Project Budget by Year

Fiscal Year	Previously Approved	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Gross Budget:	6,228,845	400,000	400,000	400,000	3,115,000	10,543,845
Project Specific Funding:						
Q526 (Capital Fund Reserve)	6,228,845	400,000	400,000	400,000	3,115,000	10,543,845
Other Funding	-	-	-	-	-	-
Total Funding:	6,228,845	400,000	400,000	400,000	3,115,000	10,543,845
Net Budget:	-	-	-	-	-	-

Impact on Operating Budget:

No impact anticipated

Operating Impacts of Capital Budget / Lifecycle Cost

	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Ongoing Operating Costs (Savings)	-	-	-	-	-
One-time Operating Costs (Savings)	-	-	-	-	-

Detailed Work Plan for 2019/20:

	2019/20
Buildings as per the AO50 process.	740,000
Projects underway to be completed in 2019	710,426
Total Estimated Work Plan	1,450,426
Less: Projected Carry Forward from Previous Years	1,050,426
Gross Budget Request	400,000

2019/20 Capital Budget Form

Project Name: Findlay Community Centre Recap	Est. Start Date: Apr-22
Project Number: CB200003	Est. Completion Date: Mar-23
Budget Category: Buildings	Supports Priority Area: Healthy, Livable Communities
Project Type: Asset Renewal	
Discrete/Bundled: Discrete	Project Manager: John MacPherson
Multi-Year: No	Asset Steward: Mgr, Mun. Facilities Maintenance & Ops

Project Summary

The Findlay Recreation Centre is a vibrant community centre located in the downtown core of Dartmouth. The facility has been instrumental in the delivery of recreation services for over 5 decades. This project will improve the state of good repair of the facility and improve the programs available.

Total Project Budget: 250,000

Budget Estimate Confidence: +50%

Project Budget by Year

Fiscal Year	Previously Approved	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Gross Budget:	-	-	-	-	250,000	250,000
Project Specific Funding:						
Reserves	-	-	-	-	-	-
Other Funding	-	-	-	-	-	-
Total Funding:	-	-	-	-	-	-
Net Budget:	-	-	-	-	250,000	250,000

Impact on Operating Budget:

To be determined once design changes have been finalized.

Operating Impacts of Capital Budget / Lifecycle Cost

	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Ongoing Operating Costs (Savings)	-	-	-	-	-
One-time Operating Costs (Savings)	-	-	-	-	-

Detailed Work Plan for 2019/20:

	2019/20
Total Estimated Work Plan	-
Less: Projected Carry Forward from Previous Years	
Gross Budget Request	-

2019/20 Capital Budget Form

Project Name: Fire Station 2, University Ave Recap	Est. Start Date: Apr-17
Project Number: CB000052	Est. Completion Date: Mar-20
Budget Category: Buildings	Supports Priority Area: Healthy, Livable Communities
Project Type: Asset Renewal	
Discrete/Bundled: Discrete	Project Manager: John MacPherson
Multi-Year: No	Asset Steward: Mgr, Mun. Facilities Maintenance & Ops

Project Summary

Fire Services has identified Station #2 on University Ave. as a station that not only requires recapitalization (roof and shell) but also improvements to the functionality of the space on the upper floor. The project will include renovations to the station to accommodate two full crews of four people for a total of eight people. To undertake this renovation, temporary accommodations for staff will be required on site and/or in adjacent stations to maintain service levels; 1) improvements to the kitchen/dining quarters; 2) improvements to the washrooms and locker rooms; 3) construction and fit-out of a training room and fitness area.

Total Project Budget: 2,500,000

Budget Estimate Confidence: +25%

Project Budget by Year

Fiscal Year	Previously Approved	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Gross Budget:	2,000,000	500,000	-	-	-	2,500,000
Project Specific Funding:						
Reserves	-	-	-	-	-	-
Other Funding	-	-	-	-	-	-
Total Funding:	-	-	-	-	-	-
Net Budget:	2,000,000	500,000	-	-	-	2,500,000

Impact on Operating Budget:

This is anticipated to have a positive impact on the operating budgets for both Building Maintenance Services (BMS) and Halifax Regional Fire & Emergency (HRFE) by reducing the ongoing numbers of short term repairs. Amount of potential savings not yet determined.

Operating Impacts of Capital Budget / Lifecycle Cost

	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Ongoing Operating Costs (Savings)	-	-	-	-	-
One-time Operating Costs (Savings)	-	-	-	-	-

Detailed Work Plan for 2019/20:

	2019/20
Exterior and interior (Level 2) renovations (multi-year award)	2,051,980
Total Estimated Work Plan	2,051,980
Less: Projected Carry Forward from Previous Years	1,551,980
Gross Budget Request	500,000

2019/20 Capital Budget Form

Project Name: Fire Station Functional Improvements	Est. Start Date: Annual Program
Project Number: CB000088	Est. Completion Date: Annual Program
Budget Category: Buildings	Supports Priority Area: Healthy, Livable Communities
Project Type: Asset Renewal	
Discrete/Bundled: Bundled	Project Manager: John MacPherson
Multi-Year: Yes	Asset Steward: Mgr, Mun. Facilities Maintenance & Ops

Project Summary

This project includes upgrades to the various fire stations for state of good repair, health and safety and indoor air quality.

Total Project Budget: n/a

Budget Estimate Confidence: +-25%

Project Budget by Year

Fiscal Year	Previously Approved	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Gross Budget:	250,000	525,000	500,000	500,000	-	1,775,000
Project Specific Funding:						
Reserves	-	-	-	-	-	-
Other Funding	-	-	-	-	-	-
Total Funding:	-	-	-	-	-	-
Net Budget:	250,000	525,000	500,000	500,000	-	1,775,000

Impact on Operating Budget:

This is anticipated to have a positive impact on the operating budgets for both Building Maintenance Services (BMS) and Halifax Regional Fire & Emergency (HRFE) by reducing the ongoing numbers of short term repairs. Amount of potential savings not yet determined.

Operating Impacts of Capital Budget / Lifecycle Cost

	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Ongoing Operating Costs (Savings)	-	-	-	-	-
One-time Operating Costs (Savings)	-	-	-	-	-

Detailed Work Plan for 2019/20:

	2019/20
Indoor Air Quality and Health Safety Environment upgrades	300,000
Bunker gear washers and dryers	100,000
Fire Station #13 building assessment and second floor design services	75,000
Parking lot paving	50,000
Carry forward projects from 2018	250,000
Total Estimated Work Plan	775,000
Less: Projected Carry Forward from Previous Years	250,000
Gross Budget Request	525,000

2019/20 Capital Budget Form

Project Name:	Fire Station Replacements	Est. Start Date:	Annual Program
Project Number:	CB000065	Est. Completion Date:	Annual Program
Budget Category:	Buildings	Supports Priority Area:	Healthy, Livable Communities
Project Type:	Asset Renewal		
Discrete/Bundled:	Bundled	Project Manager:	John MacPherson
Multi-Year:	Yes	Asset Steward:	Mgr, Mun. Facilities Maintenance & Ops

Project Summary

The scope of this project includes the following initiatives:

- 1) Headquarters has been identified in the Corporate Accommodations Plan as an area requiring full renovation which would move HQ out of the 3rd floor at 40 Alderney Drive. Fire Prevention and Logistics are currently in leased space that does not meet their needs. Design work and renovation of an existing building to become a new Administration Building would commence in 2019-20 to accommodate all Divisions. The new building would also include:
 - Office space for the Training Officers
 - Proper and adequate mess hall facilities
 - Changing Rooms / Showers / Washrooms
 - Small Auditorium
 - Logistics Bunker Gear Washing & Drying Facility
 - Facility for Fire Prevention Vehicle, Equipment and Evidence Storage
- 2) As part of the overall response time strategy, HRM will incorporate a new fire station to replace Station #8 (Convoy Run) as part of the new accommodations for all Divisions. This station would be located adjacent to the new Administration Building. Total cost would be \$5 million.
- 3) In 2022-23, a new Station #9 (Sackville) would be constructed. The former Cobequid Ballfield next to the Cobequid Community Health Centre on Freer Lane has been identified as a possible location. The station is expected to cost approximately \$6 million.

Total Project Budget: n/a

Budget Estimate Confidence: +-25%

Project Budget by Year

Fiscal Year	Previously Approved	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Gross Budget:	-	5,000,000	-	-	6,000,000	11,000,000
Project Specific Funding:						
Reserves	-	-	-	-	-	-
Other Funding	-	-	-	-	-	-
Total Funding:	-	-	-	-	-	-
Net Budget:	-	5,000,000	-	-	6,000,000	11,000,000

Impact on Operating Budget:

The construction of newer fire stations and a training facility will eventually result in cost savings compared to operating older less efficient fire stations. Currently \$79,000 in lease payments is being incurred to lease space for Fire Prevention and Logistics. Leasing costs are expected to increase by another \$129,000 once Fire Prevention and Headquarters is moved to adequate space. Therefore a total of \$208,000 annually in savings could be realized by moving to a new administration building. HRFE currently spends approximately \$50K each year on renting the Nova Scotia Firefighter School Training Grounds. Pending the actual operating costs for a new training field, there is a potential cost improvement to the operating budget to rent the Firefighter School Training Grounds.

Operating Impacts of Capital Budget / Lifecycle Cost

	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Ongoing Operating Costs (Savings)	50,000	(45,000)	(45,000)	(315,000)	(355,000)
One-time Operating Costs (Savings)	-	-	-	-	-

Detailed Work Plan for 2019/20:

	2019/20
New administration building to house Headquarters, Fire Prevention and Logistics	5,000,000
Total Estimated Work Plan	5,000,000
Less: Projected Carry Forward from Previous Years	
Gross Budget Request	5,000,000

2019/20 Capital Budget Form

Project Name: General Building Recapitalization	Est. Start Date: Annual Program
Project Number: CB000090	Est. Completion Date: Annual Program
Budget Category: Buildings	Supports Priority Area: Healthy, Livable Communities
Project Type: Asset Renewal	
Discrete/Bundled: Bundled	Project Manager: John MacPherson
Multi-Year: No	Asset Steward: Various

Project Summary

This account addresses general building recapitalization of HRM facilities.

Total Project Budget: n/a

Budget Estimate Confidence: +-25%

Project Budget by Year

Fiscal Year	Previously Approved	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Gross Budget:	1,579,560	1,200,000	500,000	500,000	6,025,000	9,804,560
Project Specific Funding:						
Q421 (General Contingency Reserve)	-	700,000	-	-	-	700,000
Other Funding	-	-	-	-	-	-
Total Funding:	-	700,000	-	-	-	700,000
Net Budget:	1,579,560	500,000	500,000	500,000	6,025,000	9,104,560

Impact on Operating Budget:

Recapitalization will lessen the burden on operating and maintenance costs.

Operating Impacts of Capital Budget / Lifecycle Cost

	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Ongoing Operating Costs (Savings)	-	-	-	-	-
One-time Operating Costs (Savings)	-	-	-	-	-

Detailed Work Plan for 2019/20:

	2019/20
Dartmouth Ferry Terminal Exterior	450,000
Halifax Police Department Chiller	350,000
Building Automation System (BAS) upgrades	100,000
Security upgrades	125,000
Consulting	250,000
General paving	250,000
Building Assessments	25,000
HVAC Upgrades	200,000
Projects underway to be completed in 2019	157,335
Total Estimated Work Plan	1,907,335
Less: Projected Carry Forward from Previous Years	707,335
Gross Budget Request	1,200,000

2019/20 Capital Budget Form

Project Name: George Dixon Community Ctr Recap	Est. Start Date: Apr-22
Project Number: CB200004	Est. Completion Date: Mar-23
Budget Category: Buildings	Supports Priority Area: Healthy, Livable Communities
Project Type: Asset Renewal	
Discrete/Bundled: Discrete	Project Manager: John MacPherson
Multi-Year: No	Asset Steward: Mgr, Mun. Facilities Maintenance & Ops

Project Summary

The George Dixon Community Centre was constructed in 1970 to meet the recreation needs of the community. This project will improve the state of good repair of the facility and improve the programs available.

Total Project Budget: 3,250,000

Budget Estimate Confidence: +50%

Project Budget by Year

Fiscal Year	Previously Approved	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Gross Budget:	-	-	-	-	3,250,000	3,250,000
Project Specific Funding:						
Reserves	-	-	-	-	-	-
Other Funding	-	-	-	-	-	-
Total Funding:	-	-	-	-	-	-
Net Budget:	-	-	-	-	3,250,000	3,250,000

Impact on Operating Budget:

To be determined once design changes have been finalized.

Operating Impacts of Capital Budget / Lifecycle Cost

	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Ongoing Operating Costs (Savings)	-	-	-	-	-
One-time Operating Costs (Savings)	-	-	-	-	-

Detailed Work Plan for 2019/20:

	2019/20
Total Estimated Work Plan	-
Less: Projected Carry Forward from Previous Years	
Gross Budget Request	-

2019/20 Capital Budget Form

Project Name: Halifax City Hall/Grand Parade Restore	Est. Start Date: Annual Program
Project Number: CB180003	Est. Completion Date: Annual Program
Budget Category: Buildings	Supports Priority Area: Governance & Engagement
Project Type: Asset Renewal	
Discrete/Bundled: Bundled	Project Manager: John MacPherson
Multi-Year: No	Asset Steward: Mgr, Mun. Facilities Maintenance & Ops

Project Summary

HRM is in the final phases of the multi-year project to improve the state of good repair in City Hall and the Grand Parade. Current projects include renovations of Level 1 space as well as meeting spaces.

Total Project Budget: 4,973,447

Budget Estimate Confidence: +-10%

Project Budget by Year

Fiscal Year	Previously Approved	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Gross Budget:	1,373,447	300,000	-	-	3,300,000	4,973,447
Project Specific Funding:						
Reserves	-	-	-	-	-	-
Other Funding	-	-	-	-	-	-
Total Funding:	-	-	-	-	-	-
Net Budget:	1,373,447	300,000	-	-	3,300,000	4,973,447

Impact on Operating Budget:

Recapitalization will lessen the burden on operating and maintenance costs.

Operating Impacts of Capital Budget / Lifecycle Cost

	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Ongoing Operating Costs (Savings)	-	-	-	-	-
One-time Operating Costs (Savings)	-	-	-	-	-

Detailed Work Plan for 2019/20:

	2019/20
Meeting space, furniture, mechanical upgrades & electrical upgrades	300,000
Completion of Level 1 renovations	816,330
Total Estimated Work Plan	1,116,330
Less: Projected Carry Forward from Previous Years	816,330
Gross Budget Request	300,000

2019/20 Capital Budget Form

Project Name: Halifax Forum Redevelopment	Est. Start Date: Apr-21
Project Number: CBX01340	Est. Completion Date: Aug-23
Budget Category: Buildings	Supports Priority Area: Healthy, Livable Communities
Project Type: Asset Renewal	
Discrete/Bundled: Discrete	Project Manager: John MacPherson
Multi-Year: Yes	Asset Steward: Manager, Program Support Services

Project Summary

Halifax Regional Council, July 29, 2014 (COW) motion put and passed, "Direct staff to commence planning for the renovation of the Halifax Forum as a multi-year planned strategic project based on the Forum Community Association submission and developed to ensure the best design, plan, and possible on site partnerships for the Forum site including possible mixed use opportunities, targeted for completion in 2019." Subsequently, Halifax Regional Council directed staff to study additional options based on two ice pads.

Total Project Budget: 54,400,000

Budget Estimate Confidence: +-35%

Project Budget by Year

Fiscal Year	Previously Approved	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Gross Budget:	-	400,000	-	4,000,000	50,000,000	54,400,000
Project Specific Funding:						
Q606 (Strategic Capital Reserve)	-	-	-	4,000,000	50,000,000	54,000,000
Other Funding	-	-	-	-	-	-
Total Funding:	-	-	-	4,000,000	50,000,000	54,000,000
Net Budget:	-	400,000	-	-	-	400,000

Impact on Operating Budget:

To be determined once design impacts are identified.

Operating Impacts of Capital Budget / Lifecycle Cost

	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Ongoing Operating Costs (Savings)	-	-	-	-	-
One-time Operating Costs (Savings)	-	-	-	-	-

Detailed Work Plan for 2019/20:

	2019/20
Building Envelope repairs	200,000
Mechanical repairs	200,000
Total Estimated Work Plan	400,000
Less: Projected Carry Forward from Previous Years	
Gross Budget Request	400,000

2019/20 Capital Budget Form

Project Name: Halifax North Memorial Public Library	Est. Start Date: Apr-21
Project Number: CB190003	Est. Completion Date: Mar-23
Budget Category: Buildings	Supports Priority Area: Social Development
Project Type: Asset Renewal	
Discrete/Bundled: Discrete	Project Manager: Terry Gallagher
Multi-Year: Yes	Asset Steward: Mgr, Mun. Facilities Maintenance & Ops

Project Summary

Halifax North Memorial Library was constructed in 1967 and the building systems are reaching the end of their service life. Recapitalization of the building and building systems, including an expansion within the current property is required to ensure continuation of service and to provide the program space required by the community. This is a public space of critical importance to the surrounding community which actively supports learning and community cohesion.

Total Project Budget: 2,500,000

Budget Estimate Confidence: +-10%

Project Budget by Year

	Previously Approved	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Fiscal Year						
Gross Budget:	-	500,000	-	500,000	1,500,000	2,500,000
Project Specific Funding:						
Q421 (General Contingency Reserve)	-	500,000	-	500,000	-	1,000,000
Other Funding	-	-	-	-	-	-
Total Funding:	-	500,000	-	500,000	-	1,000,000
Net Budget:	-	-	-	-	1,500,000	1,500,000

Impact on Operating Budget:

The 2018/19 operating budget is \$864,700. This is comprised of \$91,000 for utilities, \$106,200 for maintenance and \$667,500 for compensations and benefits. The increase to the operating budget is expected to be minimal as the building will be renovated to include more efficient building systems with a small increase to the gross square footage of the facility.

Operating Impacts of Capital Budget / Lifecycle Cost

	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Ongoing Operating Costs (Savings)	-	-	-	-	-
One-time Operating Costs (Savings)	-	-	-	-	-

Detailed Work Plan for 2019/20:

	2019/20
The following items will be including in 2019/20:	500,000
1. Building Condition Assessment - completed	
2. Accessibility Report - completed	
3. Program of Requirements	
4. Implementation plan	
5. Concept Design	
6. Schematic Design	
7. Contract Documents	
Total Estimated Work Plan	500,000
Less: Projected Carry Forward from Previous Years	
Gross Budget Request	500,000

2019/20 Capital Budget Form

Project Name: HRFE Future Buildings Recap	Est. Start Date: Annual Program
Project Number: CB000057	Est. Completion Date: Annual Program
Budget Category: Buildings	Supports Priority Area: Healthy, Livable Communities
Project Type: Asset Renewal	
Discrete/Bundled: Bundled	Project Manager: John MacPherson
Multi-Year: Yes	Asset Steward: Mgr, Mun. Facilities Maintenance & Ops

Project Summary

With 52 fire stations in HRM, recapitalization of these structures is an on-going requirement. In 2012, the Municipality undertook a Building Condition Assessment program to develop a state of good repair recapitalization program for municipal buildings. The data formulated a recapitalization plan which addresses priority buildings for recapitalization and integrates systematic building projects to maintain the assets. This scope covers recapitalization of the facility and does not include any service improvements.

Total Project Budget: n/a

Budget Estimate Confidence: +-25%

Project Budget by Year

Fiscal Year	Previously Approved	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Gross Budget:	-	-	-	-	11,685,000	11,685,000
Project Specific Funding:						
Reserves	-	-	-	-	-	-
Other Funding	-	-	-	-	-	-
Total Funding:	-	-	-	-	-	-
Net Budget:	-	-	-	-	11,685,000	11,685,000

Impact on Operating Budget:

The impact on the Operating Budget is determined as projects are identified and those funds are included in the Fiscal year of the project.

Operating Impacts of Capital Budget / Lifecycle Cost

	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Ongoing Operating Costs (Savings)	-	-	-	-	-
One-time Operating Costs (Savings)	-	-	-	-	-

Detailed Work Plan for 2019/20:

	2019/20
Total Estimated Work Plan	-
Less: Projected Carry Forward from Previous Years	
Gross Budget Request	-

2019/20 Capital Budget Form

Project Name:	HRM Depot Upgrades	Est. Start Date:	Annual Program
Project Number:	CB180004	Est. Completion Date:	Annual Program
Budget Category:	Buildings	Supports Priority Area:	Transportation
Project Type:	Asset Renewal		
Discrete/Bundled:	Bundled	Project Manager:	John MacPherson
Multi-Year:	No	Asset Steward:	Mgr, Mun. Facilities Maintenance & Ops

Project Summary

HRM depots accommodate administration, storage and service/repair to improve and maintain municipal assets. This project will focus on indoor air quality and health and safety upgrades for 2019/20.

Total Project Budget: n/a

Budget Estimate Confidence: +-25%

Project Budget by Year

Fiscal Year	Previously Approved	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Gross Budget:	538,641	200,000	-	-	3,700,000	4,438,641
Project Specific Funding:						
Reserves	-	-	-	-	-	-
Other Funding	-	-	-	-	-	-
Total Funding:	-	-	-	-	-	-
Net Budget:	538,641	200,000	-	-	3,700,000	4,438,641

Impact on Operating Budget:

To be determined once design impacts are identified.

Operating Impacts of Capital Budget / Lifecycle Cost

	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Ongoing Operating Costs (Savings)	-	-	-	-	-
One-time Operating Costs (Savings)	-	-	-	-	-

Detailed Work Plan for 2019/20:

	2019/20
Indoor Air Quality (IAQ) and Health, Safety & Environment (HSE) Improvements	200,000
Projects underway to be complete in 2019	163,631
Total Estimated Work Plan	363,631
Less: Projected Carry Forward from Previous Years	163,631
Gross Budget Request	200,000

2019/20 Capital Budget Form

Project Name:	Keshen Goodman Library Renovations	Est. Start Date:	Apr-19
Project Number:	CB190010	Est. Completion Date:	Mar-23
Budget Category:	Buildings	Supports Priority Area:	Social Development
Project Type:	Asset Renewal		
Discrete/Bundled:	Discrete	Project Manager:	Terry Gallagher
Multi-Year:	No	Asset Steward:	Mgr, Mun. Facilities Maintenance & Ops

Project Summary

Renovations to the existing Keshen Goodman branch including state of good repair improvements to the building systems including lighting, heating, ventilation and materials/finishes and an addition to the building to provide program spaces.

Total Project Budget: 2,500,000

Budget Estimate Confidence: +-25%

Project Budget by Year

Fiscal Year	Previously Approved	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Gross Budget:	-	500,000	-	-	2,000,000	2,500,000
Project Specific Funding:						
Q526 (Capital Fund Reserve)	-	500,000	-	-	-	500,000
Other Funding	-	-	-	-	-	-
Total Funding:	-	500,000	-	-	-	500,000
Net Budget:	-	-	-	-	2,000,000	2,000,000

Impact on Operating Budget:

The 2018/19 operating budget is \$2,000,000. This is comprised of \$123,300 for utilities, \$143,800 for maintenance and \$1,732,900 for compensations and benefits. The increase to the operating budget is expected to be minimal as the building will be renovated to include more efficient building systems with a small increase to the gross square footage of the facility.

Operating Impacts of Capital Budget / Lifecycle Cost

	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Ongoing Operating Costs (Savings)	-	-	-	-	-
One-time Operating Costs (Savings)	-	-	-	-	-

Detailed Work Plan for 2019/20:

	2019/20
Improvements to circulation area	200,000
Improvements to teen areas	300,000
Total Estimated Work Plan	500,000
Less: Projected Carry Forward from Previous Years	
Gross Budget Request	500,000

2019/20 Capital Budget Form

Project Name: Lakeside Community Centre Recap	Est. Start Date: Apr-22
Project Number: CB000085	Est. Completion Date: Mar-24
Budget Category: Buildings	Supports Priority Area: Healthy, Livable Communities
Project Type: Growth	
Discrete/Bundled: Discrete	Project Manager: John MacPherson
Multi-Year: Yes	Asset Steward: To Be Determined

Project Summary

The existing Beechville Lakeside Timberlea (BLT) Community Centre is located in a former school that is aging and not configured to meet community recreation requirements. Recreation needs in the area continue to increase as the community grows. This project will replace the old BLT Centre with a new purpose built recreation centre consistent with the findings of the Community Facilities Master Plan II.

Total Project Budget: 14,000,000

Budget Estimate Confidence: +-35%

Project Budget by Year

	Previously Approved	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Fiscal Year						
Gross Budget:	-	-	-	-	14,000,000	14,000,000
Project Specific Funding:						
Reserves	-	-	-	-	-	-
Other Funding	-	-	-	-	-	-
Total Funding:	-	-	-	-	-	-
Net Budget:	-	-	-	-	14,000,000	14,000,000

Impact on Operating Budget:

The impact on the Operating Budget will be determined as the project develops. The funds will be identified and included in the Fiscal year of the project.

Operating Impacts of Capital Budget / Lifecycle Cost

	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Ongoing Operating Costs (Savings)	-	-	-	-	-
One-time Operating Costs (Savings)	-	-	-	-	-

Detailed Work Plan for 2019/20:

2019/20

Total Estimated Work Plan	-
Less: Projected Carry Forward from Previous Years	
Gross Budget Request	-

2019/20 Capital Budget Form

Project Name: LeBrun Centre Renovations	Est. Start Date: Apr-19
Project Number: CB190001	Est. Completion Date: Mar-20
Budget Category: Buildings	Supports Priority Area: Healthy, Livable Communities
Project Type: Asset Renewal	
Discrete/Bundled: Discrete	Project Manager: John MacPherson
Multi-Year: No	Asset Steward: Mgr, Mun. Facilities Maintenance & Ops

Project Summary

The LeBrun Centre was constructed in 1972 to meet the recreation needs of the community. This project will 1) improve the state of good repair of the facility and 2) improve the programs available.

Total Project Budget: 200,000

Budget Estimate Confidence: +-35%

Project Budget by Year

Fiscal Year	Previously Approved	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Gross Budget:	-	200,000	-	-	-	200,000
Project Specific Funding:						
Reserves	-	-	-	-	-	-
Other Funding	-	-	-	-	-	-
Total Funding:	-	-	-	-	-	-
Net Budget:	-	200,000	-	-	-	200,000

Impact on Operating Budget:

To be determined based on renovation plans.

Operating Impacts of Capital Budget / Lifecycle Cost

	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Ongoing Operating Costs (Savings)	-	-	-	-	-
One-time Operating Costs (Savings)	-	-	-	-	-

Detailed Work Plan for 2019/20:

	2019/20
Interior upgrades to be completed include:	200,000
Roof top air handling units	
Bathroom upgrades – both Community Centre and Arena	
Preschool room upgrades	
Flooring upgrades	
Total Estimated Work Plan	200,000
Less: Projected Carry Forward from Previous Years	
Gross Budget Request	200,000

2019/20 Capital Budget Form

Project Name: Library Masterplan Implementation	Est. Start Date: Apr-18
Project Number: CB000077	Est. Completion Date: Apr-20
Budget Category: Buildings	Supports Priority Area: Healthy, Livable Communities
Project Type: Growth	
Discrete/Bundled: Bundled	Project Manager: Terry Gallagher
Multi-Year: No	Asset Steward: Mgr, Mun. Facilities Maintenance & Ops

Project Summary

Halifax Public Libraries (HPL) currently provides approximately 300,000 gross square feet in 14 locations at a replacement value of approximately \$100,000,000. Currently, there are several service delivery models including:

- HRM owned/maintained, HPL providing recap funds,
- HRM owned, leased to HPL, with HPL providing recap funds and
- Private sector lease with HPL maintaining and providing recap funds.

The three priorities for the current year include: Building condition assessments, capital planning for future years, and incorporating "lessons learned" from Central Library into the planning of future projects.

Total Project Budget: n/a

Budget Estimate Confidence: +10%

Project Budget by Year

Fiscal Year	Previously Approved	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Gross Budget:	500,000	-	-	-	-	500,000
Project Specific Funding:						
Reserves	-	-	-	-	-	-
Other Funding	-	-	-	-	-	-
Total Funding:	-	-	-	-	-	-
Net Budget:	500,000	-	-	-	-	500,000

Impact on Operating Budget:

No operating impact anticipated.

Operating Impacts of Capital Budget / Lifecycle Cost

	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Ongoing Operating Costs (Savings)	-	-	-	-	-
One-time Operating Costs (Savings)	-	-	-	-	-

Detailed Work Plan for 2019/20:

	2019/20
Work plan to include the following items:	115,236
Consultant Services	
Soft Costs related to Community Consultation	
Site option Analysis	
Total Estimated Work Plan	115,236
Less: Projected Carry Forward from Previous Years	115,236
Gross Budget Request	-

2019/20 Capital Budget Form

Project Name: Mackintosh Depot Replacement	Est. Start Date: Sep-18
Project Number: CB000089	Est. Completion Date: Jul-21
Budget Category: Buildings	Supports Priority Area: Service Delivery
Project Type: Growth	
Discrete/Bundled: Discrete	Project Manager: John MacPherson
Multi-Year: Yes	Asset Steward: Mgr, Mun. Facilities Maintenance & Ops

Project Summary

This account covers the replacement of the existing Mackintosh Depot and associated site works.

Total Project Budget: 13,500,000

Budget Estimate Confidence: +-25%

Project Budget by Year

Fiscal Year	Previously Approved	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Gross Budget:	750,000	2,250,000	7,000,000	3,500,000	-	13,500,000
Project Specific Funding:						
Q541 (Building Recapitalization and Replacement Reserve)	-	-	3,000,000	-	-	3,000,000
Other Funding	-	-	-	-	-	-
Total Funding:	-	-	3,000,000	-	-	3,000,000
Net Budget:	750,000	2,250,000	4,000,000	3,500,000	-	10,500,000

Impact on Operating Budget:

Impact on operating budget will be determined once the design of the new facility has been completed.

Operating Impacts of Capital Budget / Lifecycle Cost

	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Ongoing Operating Costs (Savings)	-	-	-	-	-
One-time Operating Costs (Savings)	-	-	-	-	-

Detailed Work Plan for 2019/20:

	2019/20
Consultants fees	200,000
Year 1 Construction activities of new facility	2,225,000
Total Estimated Work Plan	2,425,000
Less: Projected Carry Forward from Previous Years	175,000
Gross Budget Request	2,250,000

2019/20 Capital Budget Form

Project Name: Metropark Upgrades	Est. Start Date: Annual Program
Project Number: CB000073	Est. Completion Date: Annual Program
Budget Category: Buildings	Supports Priority Area: Transportation
Project Type: Asset Renewal	
Discrete/Bundled: Bundled	Project Manager: John MacPherson
Multi-Year: Yes	Asset Steward: Manager, Leasing & Tenant Services

Project Summary

Recapitalization of the Metropark structure based upon the recommendations from the operator. The facility is owned by HRM and is operated by the Hardman Group Limited under a Management Agreement. Revenues from the parkade fund the Building Recapitalization and Replacement Reserve (Q541) which in turn funds the capital improvements.

Total Project Budget: n/a

Budget Estimate Confidence: +-25%

Project Budget by Year

Fiscal Year	Previously Approved	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Gross Budget:	280,000	100,000	100,000	100,000	700,000	1,280,000
Project Specific Funding:						
Q541 (Building Recapitalization and Replacement Reserve)	280,000	100,000	100,000	100,000	700,000	1,280,000
Other Funding	-	-	-	-	-	-
Total Funding:	280,000	100,000	100,000	100,000	700,000	1,280,000
Net Budget:	-	-	-	-	-	-

Impact on Operating Budget:

Operating costs fall under the responsibility of the third party operator.

Operating Impacts of Capital Budget / Lifecycle Cost

	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Ongoing Operating Costs (Savings)	-	-	-	-	-
One-time Operating Costs (Savings)	-	-	-	-	-

Detailed Work Plan for 2019/20:

	2019/20
Replace 9 Man doors	20,000
Replace Rusty Pipe Hangers & Pipes	20,000
Pre-cast caulking (7th floor)	14,000
Install Rooftop storage Room	5,000
Complete Epoxy flooring at Landings	6,000
Intercom /Parking Software Upgrade	25,000
Parking Hardware Upgrades	10,000
Projects underway to be completed in 2019	280,000
Total Estimated Work Plan	380,000
Less: Projected Carry Forward from Previous Years	280,000
Gross Budget Request	100,000

2019/20 Capital Budget Form

Project Name: Multi-District Facilities (MDF)-Upgrades	Est. Start Date: Annual Program
Project Number: CB180001	Est. Completion Date: Annual Program
Budget Category: Buildings	Supports Priority Area: Healthy, Livable Communities
Project Type: Asset Renewal	
Discrete/Bundled: Bundled	Project Manager: John MacPherson
Multi-Year: No	Asset Steward: Various

Project Summary

This account covers a multi-year recapitalization program of HRM Multi-District Facilities (MDF's) to maintain a state of good repair.

Total Project Budget: n/a

Budget Estimate Confidence: +-25%

Project Budget by Year

Fiscal Year	Previously Approved	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Gross Budget:	2,952,637	1,200,000	800,000	800,000	7,785,000	13,537,637
Project Specific Funding:						
Reserves	-	-	-	-	-	-
Other Funding	-	-	-	-	-	-
Total Funding:	-	-	-	-	-	-
Net Budget:	2,952,637	1,200,000	800,000	800,000	7,785,000	13,537,637

Impact on Operating Budget:

Recapitalization will lessen the burden on operating and maintenance costs.

Operating Impacts of Capital Budget / Lifecycle Cost

	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Ongoing Operating Costs (Savings)	-	-	-	-	-
One-time Operating Costs (Savings)	-	-	-	-	-

Detailed Work Plan for 2019/20:

	2019/20
Centennial Arena Projects	120,000
Eastern Shore Community Arena Projects	115,000
Canada Games Centre Projects	160,000
Alderney Landing Projects	175,000
St. Margaret's Centre Projects	140,000
Centennial Pool Projects	110,000
Zatzman Sportsplex Arena Projects	180,000
Centennial Pool - Pool Filtration System upgrade	200,000
Spryfield Lions electrical upgrade	425,000
Carry forward projects from 2018	588,874
Total Estimated Work Plan	2,213,874
Less: Projected Carry Forward from Previous Years	1,013,874
Gross Budget Request	1,200,000

2019/20 Capital Budget Form

Project Name: Needham Community Centre Recap	Est. Start Date: Apr-22
Project Number: CB000009	Est. Completion Date: Mar-25
Budget Category: Buildings	Supports Priority Area: Healthy, Livable Communities
Project Type: Growth	
Discrete/Bundled: Discrete	Project Manager: John MacPherson
Multi-Year: Yes	Asset Steward: Mgr, Mun. Facilities Maintenance & Ops

Project Summary

The Needham Community Centre was built in 1975 and no longer meets the community needs. The current building is not accessible, costly to maintain and would require significant renovations to meet current standards. The Peninsula Recreation Review, completed in 2011, supported the needs for a recreation centre in that area and recommended the replacement of this aging and inefficient facility.

Total Project Budget: 26,000,000

Budget Estimate Confidence: +50%

Project Budget by Year

Fiscal Year	Previously Approved	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Gross Budget:	-	-	-	-	26,000,000	26,000,000
Project Specific Funding:						
Reserves	-	-	-	-	-	-
Other Funding	-	-	-	-	-	-
Total Funding:	-	-	-	-	-	-
Net Budget:	-	-	-	-	26,000,000	26,000,000

Impact on Operating Budget:

Impact on operating budget will be determined once the design of the new facility has been completed.

Operating Impacts of Capital Budget / Lifecycle Cost

	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Ongoing Operating Costs (Savings)	-	-	-	-	-
One-time Operating Costs (Savings)	-	-	-	-	-

Detailed Work Plan for 2019/20:

2019/20

Total Estimated Work Plan	-
Less: Projected Carry Forward from Previous Years	
Gross Budget Request	-

2019/20 Capital Budget Form

Project Name: Police Headquarters	Est. Start Date: Apr-21
Project Number: CB000022	Est. Completion Date: Mar-26
Budget Category: Buildings	Supports Priority Area: Governance & Engagement
Project Type: Growth	
Discrete/Bundled: Discrete	Project Manager: John MacPherson
Multi-Year: Yes	Asset Steward: Mgr, Mun. Facilities Maintenance & Ops

Project Summary

A business case for the future of police facilities has been developed which incorporates a numbers of scenarios. This account includes preliminary estimates for future plans.

Total Project Budget: 80,000,000

Budget Estimate Confidence: +-35%

Project Budget by Year

Fiscal Year	Previously Approved	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Gross Budget:	-	-	-	1,000,000	79,000,000	80,000,000
Project Specific Funding:						
Q606 (Strategic Capital Reserve)	-	-	-	1,000,000	79,000,000	80,000,000
Other Funding	-	-	-	-	-	-
Total Funding:	-	-	-	1,000,000	79,000,000	80,000,000
Net Budget:	-	-	-	-	-	-

Impact on Operating Budget:

To be determined once program direction has been approved by Council.

Operating Impacts of Capital Budget / Lifecycle Cost

	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Ongoing Operating Costs (Savings)	-	-	-	-	-
One-time Operating Costs (Savings)	-	-	-	-	-

Detailed Work Plan for 2019/20:

	2019/20
Total Estimated Work Plan	-
Less: Projected Carry Forward from Previous Years	
Gross Budget Request	-

2019/20 Capital Budget Form

Project Name: RBC Centre	Est. Start Date: Annual Program
Project Number: CB180007	Est. Completion Date: Annual Program
Budget Category: Buildings	Supports Priority Area: Healthy, Livable Communities
Project Type: Asset Renewal	
Discrete/Bundled: Bundled	Project Manager: Darren Young
Multi-Year: No	Asset Steward: Manager, Program Support Services

Project Summary

There is a contractual agreement which requires Nustadia Recreation Inc. to maintain the RBC Centre to meet the recreation needs of HRM citizens. The agreement states Nustadia is responsible for all capital work in the building and HRM is liable for all capital costs. Reserve Q546 Multi-District Facilities Reserve has been set up and would be the source of funding for these capital items.

Total Project Budget: n/a

Budget Estimate Confidence: +-10%

Project Budget by Year

Fiscal Year	Previously Approved	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Gross Budget:	478,084	150,000	150,000	150,000	1,050,000	1,978,084
Project Specific Funding:						
Q546 (Multi-District Facilities Reserve)	478,084	150,000	150,000	150,000	1,050,000	1,978,084
Other Funding	-	-	-	-	-	-
Total Funding:	478,084	150,000	150,000	150,000	1,050,000	1,978,084
Net Budget:	-	-	-	-	-	-

Impact on Operating Budget:

As per the contract, any impact on the operating budget are covered with the existing budget.

Operating Impacts of Capital Budget / Lifecycle Cost

	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Ongoing Operating Costs (Savings)	-	-	-	-	-
One-time Operating Costs (Savings)	-	-	-	-	-

Detailed Work Plan for 2019/20:

	2019/20
Improve viewing issues in Arenas A, B, C & D	240,000
Outstanding FFE items carried forward from 2018	56,486
Total Estimated Work Plan	296,486
Less: Projected Carry Forward from Previous Years	146,486
Gross Budget Request	150,000

2019/20 Capital Budget Form

Project Name: Regional Heritage Museum	Est. Start Date: Apr-22
Project Number: CB000076	Est. Completion Date: Mar-24
Budget Category: Buildings	Supports Priority Area: Economic Development
Project Type: Growth	
Discrete/Bundled: Discrete	Project Manager: John MacPherson
Multi-Year: Yes	Asset Steward: To Be Determined

Project Summary

On January 28, 2014, Regional Council passed a motion directing funding from the sale of 90 Alderney Drive to be used towards development of a regional heritage museum to be located in Dartmouth as part of a cultural cluster. Subsequently, Council directed staff to incorporate a Regional Museum Strategy as part of the cultural spaces plan on March 22, 2016. That strategy will define the scope, scale and size of the regional heritage museum.

Total Project Budget: 12,000,000

Budget Estimate Confidence: +-35%

Project Budget by Year

Fiscal Year	Previously Approved	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Gross Budget:	-	-	-	-	12,000,000	12,000,000
Project Specific Funding:						
Q606 (Strategic Capital Reserve)	-	-	-	-	12,000,000	12,000,000
Other Funding	-	-	-	-	-	-
Total Funding:	-	-	-	-	12,000,000	12,000,000
Net Budget:	-	-	-	-	-	-

Impact on Operating Budget:

To be determined once program direction has been approved by Council.

Operating Impacts of Capital Budget / Lifecycle Cost

	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Ongoing Operating Costs (Savings)	-	-	-	-	-
One-time Operating Costs (Savings)	-	-	-	-	-

Detailed Work Plan for 2019/20:

2019/20

Total Estimated Work Plan	-
Less: Projected Carry Forward from Previous Years	
Gross Budget Request	-

2019/20 Capital Budget Form

Project Name: Regional Library Facility Upgrade	Est. Start Date: Annual Program
Project Number: CBX01165	Est. Completion Date: Annual Program
Budget Category: Buildings	Supports Priority Area: Social Development
Project Type: Asset Renewal	
Discrete/Bundled: Bundled	Project Manager: Terry Gallagher
Multi-Year: Yes	Asset Steward: Various

Project Summary

Halifax Public Libraries (HPL) currently provides approximately 300,000 gross square feet in 14 locations at a replacement value of approximately \$100,000,000. Funding is required to address issues at branches that are not funded through a dedicated cost centre. These issues include repairs to the building systems, building envelope, life safety, accessibility and code deficiencies.

Total Project Budget: n/a

Budget Estimate Confidence: +-10%

Project Budget by Year

Fiscal Year	Previously Approved	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Gross Budget:	2,197,755	-	-	250,000	14,100,000	16,547,755
Project Specific Funding:						
Reserves	-	-	-	-	-	-
Other Funding	-	-	-	-	-	-
Total Funding:	-	-	-	-	-	-
Net Budget:	2,197,755	-	-	250,000	14,100,000	16,547,755

Impact on Operating Budget:

Due the nature of this work there will be no impact on the operating budget.

Operating Impacts of Capital Budget / Lifecycle Cost

	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Ongoing Operating Costs (Savings)	-	-	-	-	-
One-time Operating Costs (Savings)	-	-	-	-	-

Detailed Work Plan for 2019/20:

	2019/20
Carry Forward projects from 2018	763,549
Total Estimated Work Plan	763,549
Less: Projected Carry Forward from Previous Years	763,549
Gross Budget Request	-

2019/20 Capital Budget Form

Project Name: Regional Park Washrooms	Est. Start Date: Annual Program
Project Number: CB000010	Est. Completion Date: Annual Program
Budget Category: Buildings	Supports Priority Area: Healthy, Livable Communities
Project Type: Growth	
Discrete/Bundled: Bundled	Project Manager: John MacPherson
Multi-Year: Yes	Asset Steward: Mgr, Mun. Facilities Maintenance & Ops

Project Summary

The Regional Park Washrooms program will support the construction of washroom facilities in HRM parks and sport fields. Parks and Recreation have undertaken a Regional Park Washroom & Drinking Fountain Strategy which will be completed in Winter 2019. All future funding will be used to construct these facilities.

Total Project Budget: n/a

Budget Estimate Confidence: +25%

Project Budget by Year

Fiscal Year	Previously Approved	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Gross Budget:	1,669,999	400,000	-	-	2,800,000	4,869,999
Project Specific Funding:						
Q421 (General Contingency Reserve)	-	400,000	-	-	-	400,000
Other Funding	-	-	-	-	-	-
Total Funding:	-	400,000	-	-	-	400,000
Net Budget:	1,669,999	-	-	-	2,800,000	4,469,999

Impact on Operating Budget:

Projected impact on operating budget has been estimated. The actual impact will be determined once the design of the new facilities have been completed.

Operating Impacts of Capital Budget / Lifecycle Cost

	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Ongoing Operating Costs (Savings)	-	-	-	336,000	336,000
One-time Operating Costs (Savings)	-	-	-	-	-

Detailed Work Plan for 2019/20:

	2019/20
Penhorn Beach Washroom - Repairs based on BCA report	300,000
Design work for new building based on the Regional Park Washroom & Drinking Fountain Strategy	120,624
Total Estimated Work Plan	420,624
Less: Projected Carry Forward from Previous Years	20,624
Gross Budget Request	400,000

2019/20 Capital Budget Form

Project Name: Roof Recapitalization	Est. Start Date: Annual Program
Project Number: CB180005	Est. Completion Date: Annual Program
Budget Category: Buildings	Supports Priority Area: Service Delivery
Project Type: Asset Renewal	
Discrete/Bundled: Bundled	Project Manager: John MacPherson
Multi-Year: No	Asset Steward: Various

Project Summary

This project addresses roof recapitalization based on the short, medium and long term plans identified through the HRM re-roofing program.

Total Project Budget: n/a

Budget Estimate Confidence: +-25%

Project Budget by Year

Fiscal Year	Previously Approved	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Gross Budget:	941,748	500,000	700,000	900,000	11,100,000	14,141,748
Project Specific Funding:						
Reserves	-	-	-	-	-	-
Other Funding	-	-	-	-	-	-
Total Funding:	-	-	-	-	-	-
Net Budget:	941,748	500,000	700,000	900,000	11,100,000	14,141,748

Impact on Operating Budget:

Should reduce operating budget in terms of heating costs and repairs.

Operating Impacts of Capital Budget / Lifecycle Cost

	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Ongoing Operating Costs (Savings)	-	-	-	-	-
One-time Operating Costs (Savings)	-	-	-	-	-

Detailed Work Plan for 2019/20:

	2019/20
2019/20 Roof replacements:	811,278
Fire Station 17	
Cole Harbour Place	
Findlay Community Centre	
Springfield Lake Recreation Centre	
Turner Drive Depot	
Total Estimated Work Plan	811,278
Less: Projected Carry Forward from Previous Years	311,278
Gross Budget Request	500,000

2019/20 Capital Budget Form

Project Name: Sackville Sports Stadium	Est. Start Date: Apr-15
Project Number: CB000060	Est. Completion Date: Sep-22
Budget Category: Buildings	Supports Priority Area: Healthy, Livable Communities
Project Type: Asset Renewal	
Discrete/Bundled: Discrete	Project Manager: Nick Allen
Multi-Year: Yes	Asset Steward: Mgr, Mun. Facilities Maintenance & Ops

Project Summary

Sackville Sports Stadium was constructed in the 1980s and has undergone recent renovations including interior refresh, roof replacement and mechanical upgrades. The next phase of work will address upgrades to the change rooms and pool tiles.

Total Project Budget: 3,320,000

Budget Estimate Confidence: +-25%

Project Budget by Year

Fiscal Year	Previously Approved	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Gross Budget:	1,820,000	-	-	500,000	1,000,000	3,320,000
Project Specific Funding:						
Reserves	-	-	-	-	-	-
Other Funding	-	-	-	-	-	-
Total Funding:	-	-	-	-	-	-
Net Budget:	1,820,000	-	-	500,000	1,000,000	3,320,000

Impact on Operating Budget:

These renovations should have a minimal impact on the operating costs of the facility.

Operating Impacts of Capital Budget / Lifecycle Cost

	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Ongoing Operating Costs (Savings)	-	-	-	-	-
One-time Operating Costs (Savings)	-	-	-	-	-

Detailed Work Plan for 2019/20:

	2019/20
Carry forward projects from 2018	431,780
Total Estimated Work Plan	431,780
Less: Projected Carry Forward from Previous Years	431,780
Gross Budget Request	-

2019/20 Capital Budget Form

Project Name: Sambro/Harrietsfield Fire Station	Est. Start Date: May-18
Project Number: CB000079	Est. Completion Date: Mar-20
Budget Category: Buildings	Supports Priority Area: Healthy, Livable Communities
Project Type: Asset Renewal	
Discrete/Bundled: Discrete	Project Manager: John MacPherson
Multi-Year: Yes	Asset Steward: Mgr, Mun. Facilities Maintenance & Ops

Project Summary

Replacement of the damaged Fire Station #62 (Harrietsfield) and improve response times by constructing a new fire station to combine Fire Station #62 (Harrietsfield) and Fire Station #63 (Sambro) at a cost of approximately \$5.5 million. As a result, current Stations 62 and 63 will be decommissioned.

Total Project Budget: 5,550,000

Budget Estimate Confidence: +-25%

Project Budget by Year

Fiscal Year	Previously Approved	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Gross Budget:	4,050,000	1,500,000	-	-	-	5,550,000
Project Specific Funding:						
Reserves	-	-	-	-	-	-
Other Funding	-	-	-	-	-	-
Total Funding:	-	-	-	-	-	-
Net Budget:	4,050,000	1,500,000	-	-	-	5,550,000

Impact on Operating Budget:

To be determined once the design is finalized. Currently renting trailers for \$12,000 annually. This cost would be eliminated once the station is completed.

Operating Impacts of Capital Budget / Lifecycle Cost

	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Ongoing Operating Costs (Savings)	-	-	-	-	-
One-time Operating Costs (Savings)	50,000	-	-	-	50,000

Detailed Work Plan for 2019/20:

	2019/20
Design-Build Contract	5,446,521
Total Estimated Work Plan	5,446,521
Less: Projected Carry Forward from Previous Years	3,946,521
Gross Budget Request	1,500,000

2019/20 Capital Budget Form

Project Name: Scotiabank Centre	Est. Start Date: Annual Program
Project Number: CB000028	Est. Completion Date: Annual Program
Budget Category: Buildings	Supports Priority Area: Healthy, Livable Communities
Project Type: Asset Renewal	
Discrete/Bundled: Bundled	Project Manager: John MacPherson
Multi-Year: No	Asset Steward: Manager, Program Support Services

Project Summary

This funding will support the ongoing capital requirements and enhancements of the Scotiabank Centre. Enhancements are expected to help attract more events and improve customer satisfaction, helping with revenue generation for the facility.

Total Project Budget: n/a

Budget Estimate Confidence: +-10%

Project Budget by Year

Fiscal Year	Previously Approved	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Gross Budget:	11,485,000	4,540,000	1,000,000	1,000,000	2,800,000	20,825,000
Project Specific Funding:						
Q546 (Multi-District Facilities Reserve)	11,485,000	4,540,000	1,000,000	1,000,000	2,800,000	20,825,000
Other Funding	-	-	-	-	-	-
Total Funding:	11,485,000	4,540,000	1,000,000	1,000,000	2,800,000	20,825,000
Net Budget:	-	-	-	-	-	-

Impact on Operating Budget:

Operating costs fall under the responsibility of the operator.

Operating Impacts of Capital Budget / Lifecycle Cost

	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Ongoing Operating Costs (Savings)	-	-	-	-	-
One-time Operating Costs (Savings)	-	-	-	-	-

Detailed Work Plan for 2019/20:

	2019/20
Refrigeration plant safety upgrades	200,000
Switchgear replacements	400,000
Chiller water tank repairs	240,000
Structural repairs	250,000
Consulting	300,000
Ammonia heat exchanger replacement	100,000
Replacement score clock, hoist and AV infrastructure and video production equipment	3,000,000
Projects underway to be completed to 2019	863,508
Total Estimated Work Plan	5,353,508
Less: Projected Carry Forward from Previous Years	813,508
Gross Budget Request	4,540,000

2019/20 Capital Budget Form

Project Name: Sheet Harbour Recreation Centre	Est. Start Date: Apr-21
Project Number: CB000080	Est. Completion Date: Mar-23
Budget Category: Buildings	Supports Priority Area: Healthy, Livable Communities
Project Type: Growth	
Discrete/Bundled: Discrete	Project Manager: John MacPherson
Multi-Year: Yes	Asset Steward: To Be Determined

Project Summary

The current facility is not useable year-round. This project covers a permanent facility solution for the Sheet Harbour Recreation Centre.

Total Project Budget: 2,515,000

Budget Estimate Confidence: +-35%

Project Budget by Year

Fiscal Year	Previously Approved	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Gross Budget:	100,000	-	-	750,000	1,665,000	2,515,000
Project Specific Funding:						
Reserves	-	-	-	-	-	-
Other Funding	-	-	-	-	-	-
Total Funding:	-	-	-	-	-	-
Net Budget:	100,000	-	-	750,000	1,665,000	2,515,000

Impact on Operating Budget:

To be determined once program direction has been approved by Council.

Operating Impacts of Capital Budget / Lifecycle Cost

	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Ongoing Operating Costs (Savings)	-	-	-	-	-
One-time Operating Costs (Savings)	-	-	-	-	-

Detailed Work Plan for 2019/20:

	2019/20
Planning is underway and work is scheduled to begin in 2021/22	59,031
Total Estimated Work Plan	59,031
Less: Projected Carry Forward from Previous Years	59,031
Gross Budget Request	-

2019/20 Capital Budget Form

Project Name: South Peninsula School Gym Enhance	Est. Start Date: Sep-20
Project Number: CB000084	Est. Completion Date: Mar-21
Budget Category: Buildings	Supports Priority Area: Healthy, Livable Communities
Project Type: Growth	
Discrete/Bundled: Discrete	Project Manager: John MacPherson
Multi-Year: No	Asset Steward: Manager, Program Support Services

Project Summary

On February 16, 2016, Regional Council approved entering into a partnership with the Province of Nova Scotia, to facilitate enhancements to the P-6 South Peninsula School. The proposed enhancement of the gymnasium for the school creates a junior high (6580 sq. ft.) gym in the school. Payment for the enhancement will occur after approval of a joint use agreement outlining usage of the gym between HRM, Province of Nova Scotia and Halifax Regional Centre For Education.

Total Project Budget:	460,000
Budget Estimate Confidence:	+-5%

Project Budget by Year

	Previously Approved	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Fiscal Year						
Gross Budget:	-	-	460,000	-	-	460,000
Project Specific Funding:						
Reserves	-	-	-	-	-	-
Other Funding	-	-	-	-	-	-
Total Funding:	-	-	-	-	-	-
Net Budget:	-	-	460,000	-	-	460,000

Impact on Operating Budget:

To be determined as part of the Joint Use Agreement.

Operating Impacts of Capital Budget / Lifecycle Cost

	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Ongoing Operating Costs (Savings)	-	-	-	-	-
One-time Operating Costs (Savings)	-	-	-	-	-

Detailed Work Plan for 2019/20:

	2019/20
Total Estimated Work Plan	-
Less: Projected Carry Forward from Previous Years	-
Gross Budget Request	-

2019/20 Capital Budget Form

Project Name: St. Andrew's Community Centre Renos	Est. Start Date: Sep-17
Project Number: CB000011	Est. Completion Date: Sep-20
Budget Category: Buildings	Supports Priority Area: Healthy, Livable Communities
Project Type: Growth	
Discrete/Bundled: Discrete	Project Manager: John MacPherson
Multi-Year: Yes	Asset Steward: Mgr, Mun. Facilities Maintenance & Ops

Project Summary

This project covers a new St. Andrew's Centre to replace the existing facility. The existing facility is now in preparation for tendering. The new facility will incorporate a gymnasium, community kitchen, art spaces and multi-use meeting spaces. When complete, the facility will be designed to be welcoming to the diverse neighborhoods that surround the building, incorporate outdoor spaces and be constructed to a high standard for universal design.

Total Project Budget: 10,900,000

Budget Estimate Confidence: +-10%

Project Budget by Year

Fiscal Year	Previously Approved	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Gross Budget:	5,700,000	3,200,000	2,000,000	-	-	10,900,000
Project Specific Funding:						
Reserves	-	-	-	-	-	-
Other Funding	-	-	-	-	-	-
Total Funding:	-	-	-	-	-	-
Net Budget:	5,700,000	3,200,000	2,000,000	-	-	10,900,000

Impact on Operating Budget:

The new centre is approximately 33,000 square feet, compared to the old centre of 22,000 square feet. This additional 11,000 square feet will impact operating costs of utilities and maintenance.

Operating Impacts of Capital Budget / Lifecycle Cost

	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Ongoing Operating Costs (Savings)	-	88,000	88,000	616,000	792,000
One-time Operating Costs (Savings)	-	65,000	-	-	65,000

Detailed Work Plan for 2019/20:

	2019/20
2019/20 Construction activities	8,405,887
Total Estimated Work Plan	8,405,887
Less: Projected Carry Forward from Previous Years	5,205,887
Gross Budget Request	3,200,000

2019/20 Capital Budget Form

Project Name: St. Mary's Boat Club	Est. Start Date: Apr-22
Project Number: CB000004	Est. Completion Date: Apr-24
Budget Category: Buildings	Supports Priority Area: Healthy, Livable Communities
Project Type: Asset Renewal	
Discrete/Bundled: Discrete	Project Manager: John MacPherson
Multi-Year: No	Asset Steward: Mgr, Mun. Facilities Maintenance & Ops

Project Summary

St. Mary's Boat Club currently offers recreational programs from April until December each year. The facility requires major investment to improve accessibility, recapitalization, protect against rising water levels and improve program opportunities.

Total Project Budget: 4,000,000

Budget Estimate Confidence: +-35%

Project Budget by Year

Fiscal Year	Previously Approved	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Gross Budget:	-	-	-	-	4,000,000	4,000,000
Project Specific Funding:						
Reserves	-	-	-	-	-	-
Other Funding	-	-	-	-	-	-
Total Funding:	-	-	-	-	-	-
Net Budget:	-	-	-	-	4,000,000	4,000,000

Impact on Operating Budget:

To be determined once design changes have been finalized.

Operating Impacts of Capital Budget / Lifecycle Cost

	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Ongoing Operating Costs (Savings)	-	-	-	-	-
One-time Operating Costs (Savings)	-	-	-	50,000	50,000

Detailed Work Plan for 2019/20:

	2019/20
Total Estimated Work Plan	-
Less: Projected Carry Forward from Previous Years	
Gross Budget Request	-

2019/20 Capital Budget Form

Project Name: Upper Sackville Recreation Centre	Est. Start Date: Apr-15
Project Number: CB000061	Est. Completion Date: Sep-19
Budget Category: Buildings	Supports Priority Area: Healthy, Livable Communities
Project Type: Asset Renewal	
Discrete/Bundled: Discrete	Project Manager: John MacPherson
Multi-Year: No	Asset Steward: Manager, Program Support Services

Project Summary

This is a recapitalization project resulting from the Building Condition Assessment and the accessibility audit. The facility, located at 2476 Sackville Drive, is considered to be in good shape, only requiring minor investment. Work completed to date includes new flooring, furnace, well pump and electrical works.

Total Project Budget: 105,000

Budget Estimate Confidence: +-10%

Project Budget by Year

Fiscal Year	Previously Approved	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Gross Budget:	105,000	-	-	-	-	105,000
Project Specific Funding:						
Reserves	-	-	-	-	-	-
Other Funding	-	-	-	-	-	-
Total Funding:	-	-	-	-	-	-
Net Budget:	105,000	-	-	-	-	105,000

Impact on Operating Budget:

No additional impact is anticipated.

Operating Impacts of Capital Budget / Lifecycle Cost

	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Ongoing Operating Costs (Savings)	-	-	-	-	-
One-time Operating Costs (Savings)	-	-	-	-	-

Detailed Work Plan for 2019/20:

2019/20

Washroom Upgrades	70,784
Total Estimated Work Plan	70,784
Less: Projected Carry Forward from Previous Years	70,784
Gross Budget Request	-

2019/20 Capital Budget Form

Project Name: Wharf Recapitalization	Est. Start Date: Annual Program
Project Number: CB000087	Est. Completion Date: Annual Program
Budget Category: Buildings	Supports Priority Area: Healthy, Livable Communities
Project Type: Asset Renewal	
Discrete/Bundled: Bundled	Project Manager: John MacPherson
Multi-Year: No	Asset Steward: Various

Project Summary

This project will address structural improvements to the Alderney Landing, Alderney Ferry Terminal, Halifax Ferry Terminal, and Chebucto wharves.

Total Project Budget: n/a

Budget Estimate Confidence: +-35%

Project Budget by Year

Fiscal Year	Previously Approved	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Gross Budget:	-	300,000	2,800,000	500,000	-	3,600,000
Project Specific Funding:						
Reserves	-	-	-	-	-	-
Other Funding	-	-	-	-	-	-
Total Funding:	-	-	-	-	-	-
Net Budget:	-	300,000	2,800,000	500,000	-	3,600,000

Impact on Operating Budget:

Recapitalization will reduce burden on maintenance costs.

Operating Impacts of Capital Budget / Lifecycle Cost

	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Ongoing Operating Costs (Savings)	-	-	-	-	-
One-time Operating Costs (Savings)	-	-	-	-	-

Detailed Work Plan for 2019/20:

	2019/20
Wharf Assessments/Detail Design	300,000
Total Estimated Work Plan	300,000
Less: Projected Carry Forward from Previous Years	
Gross Budget Request	300,000

2019/20 Capital Budget Form

Project Name: Youth Live Recap	Est. Start Date: Apr-22
Project Number: CB200005	Est. Completion Date: Mar-23
Budget Category: Buildings	Supports Priority Area: Healthy, Livable Communities
Project Type: Asset Renewal	
Discrete/Bundled: Discrete	Project Manager: John MacPherson
Multi-Year: No	Asset Steward: Mgr, Mun. Facilities Maintenance & Ops

Project Summary

This building was constructed in early 1970's, and purchased by HRM in 1998. Youth Live is the current occupant of the building. A Building Condition Assessment (BCA) was completed in August 2013. The work plan will be developed from the BCA and the Parks & Recreation needs for the facility.

Total Project Budget: 400,000

Budget Estimate Confidence: +50%

Project Budget by Year

Fiscal Year	Previously Approved	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Gross Budget:	-	-	-	-	400,000	400,000
Project Specific Funding:						
Reserves	-	-	-	-	-	-
Other Funding	-	-	-	-	-	-
Total Funding:	-	-	-	-	-	-
Net Budget:	-	-	-	-	400,000	400,000

Impact on Operating Budget:

To be determined once design changes have been finalized.

Operating Impacts of Capital Budget / Lifecycle Cost

	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Ongoing Operating Costs (Savings)	-	-	-	-	-
One-time Operating Costs (Savings)	-	-	-	-	-

Detailed Work Plan for 2019/20:

	2019/20
Total Estimated Work Plan	-
Less: Projected Carry Forward from Previous Years	
Gross Budget Request	-

2019/20 Capital Budget Form

Project Name: Zatzman Sportsplex Revitalization	Est. Start Date: Apr-16
Project Number: CB000006	Est. Completion Date: Mar-20
Budget Category: Buildings	Supports Priority Area: Healthy, Livable Communities
Project Type: Asset Renewal	
Discrete/Bundled: Discrete	Project Manager: Greg MacKay
Multi-Year: No	Asset Steward: Manager, Program Support Services

Project Summary

Zatzman Sportsplex (formerly Dartmouth Sportsplex) nears completion of a multi-year, multi-phase project. Exterior site improvements are the last phase of this project.

Total Project Budget: 28,724,748

Budget Estimate Confidence: +-10%

Project Budget by Year

Fiscal Year	Previously Approved	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Gross Budget:	28,224,748	500,000	-	-	-	28,724,748
Project Specific Funding:						
Q606 (Strategic Capital Reserve)	28,224,748	500,000	-	-	-	28,724,748
Other Funding	-	-	-	-	-	-
Total Funding:	28,224,748	500,000	-	-	-	28,724,748
Net Budget:	-	-	-	-	-	-

Impact on Operating Budget:

No impact on operating budget.

Operating Impacts of Capital Budget / Lifecycle Cost

	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Ongoing Operating Costs (Savings)	-	-	-	-	-
One-time Operating Costs (Savings)	-	-	-	-	-

Detailed Work Plan for 2019/20:

	2019/20
Parking lot repairs and additional renovation costs.	500,000
Total Estimated Work Plan	500,000
Less: Projected Carry Forward from Previous Years	
Gross Budget Request	500,000

Tab - Business Tools

Business Tools

Page #	Project Name	Old Project #	New Project #	2019/20 Workplan	2019/20 Carry Forward	2019/20 Gross	2019/20 Funding	2019/20 Net
B1	2020 Municipal Election-eVoting	BT1	CI190002	391,500	-	391,500	391,500	-
B2	Application Recapitalization	CI000002	CI190009	1,129,503	929,503	200,000	-	200,000
B3	Business Intelligence Program	CI990001	CI190010	798,468	448,468	350,000	-	350,000
B4	Contact Ctr Telephony Solution	CI990017	CI990017	104,034	104,034	-	-	-
B5	Corporate Scheduling	CI000015	CI000015	2,286,223	1,321,223	965,000	-	965,000
B6	CRM Software Replacement	CI990020	CI990020	801,307	748,307	53,000	-	53,000
B7	Data Mgmt and Process Review	CI990021	CI990021	60,000	60,000	-	-	-
B8	Enterprise Content & Records Mgmt	CI990018	CI990018	1,119,500	619,500	500,000	-	500,000
B9	Fleet SAP Interface Upgrades	BT2	CI190003	-	-	-	-	-
B10	HR Improvement Project	CI990032	CI990032	2,045,151	545,151	1,500,000	1,500,000	-
B11	HRFE AVL Devices	BT3	CI190004	200,000	-	200,000	-	200,000
B12	HRFE Dispatch Projects	CI990027	CI990027	281,872	281,872	-	-	-
B13	HRFE FDM Review/Enhance	CI990028	CI990028	601,548	601,548	-	-	-
B14	HRFE Intelligent Dispatching	BT4	CI190005	-	-	-	-	-
B15	HRP Records Mgmt Optimization	CI990023	CI990023	857,586	607,586	250,000	-	250,000
B16	HRP Source Management	CI000016	CI000016	139,126	14,126	125,000	-	125,000
B17	ICT Business Tools	CI990004	CI990004	830,418	530,418	300,000	-	300,000
B18	ICT Infrastructure Recap.	CI000004	CI000004	2,183,000	308,000	1,875,000	-	1,875,000
B19	IT Service Management	CI990002	CI990002	497,797	222,797	275,000	-	275,000
B20	iVos Implementation	BT5	CI190006	205,000	-	205,000	-	205,000
B21	LIDAR Data Acquisition	CI000020	CI000020	910,558	910,558	-	-	-
B22	Office 365 Migration	BT6	CI190007	150,000	-	150,000	-	150,000
B23	Parking Technology	CI990031	CI990031	3,561,854	1,879,854	1,682,000	1,682,000	-
B24	Permitting, Licensing, Compliance	CI990013	CI990013	3,633,210	2,583,210	1,050,000	-	1,050,000
B25	Portfolio Planning Tool	BT7	CI200001	-	-	-	-	-
B26	Public WiFi	CI000021	CI000021	521,889	521,889	-	-	-
B27	Recreation Services Software	CI000005	CI000005	1,754,080	1,402,630	351,450	-	351,450
B28	Revenue & Financial Acct'g Mgmt	CI990009	CI990009	7,245,550	2,745,550	4,500,000	4,500,000	-
B29	Road Disruption Mgmt Solution	BT8	CI190008	284,000	-	284,000	-	284,000
B30	SAP Optimization	CIN00200	CIN00200	910,260	510,260	400,000	-	400,000
B31	SAP: Procurement	BT9	CI190001	2,500,000	-	2,500,000	2,500,000	-
B32	Situational Awareness	CI990035	CI990035	40,000	40,000	-	-	-
B33	Web Transformation	CI000001	CI000001	275,636	275,636	-	-	-
Grand Total				36,319,070	18,212,120	18,106,950	10,573,500	7,533,450

2019/20 Capital Budget Form

Project Name: 2020 Municipal Election-eVoting	Est. Start Date: Jan-19
Project Number: CI190002	Est. Completion Date: Nov-20
Budget Category: Business Tools	Supports Priority Area: Governance & Engagement
Project Type: Asset Renewal	
Discrete/Bundled: Discrete	Project Manager: Julie Everett
Multi-Year: Yes	Asset Steward: Mgr, ICT Strategic Planning & Delivery

Project Summary

On October 17, 2020 the Halifax Regional Municipality (HRM) will administer the Municipal election. HRM is comprised of 16 polling districts for an approximate total of 325,000+ eligible voters. Voters will have the opportunity to vote on Election Day or during advance polling dates. Voters may have the option to vote either by paper, telephone or online. Voting channels will be decided by Council closer to the election date.

The 2020 Municipal Election - Technical Support project includes both preparation on the technical requirements for the election as well as election day technical support and closeout.

Total Project Budget: 391,500

Budget Estimate Confidence: +-50%

Project Budget by Year

Fiscal Year	Previously Approved	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Gross Budget:	-	391,500	-	-	-	391,500
Project Specific Funding:						
Q511 (Municipal Election Reserve)	-	391,500	-	-	-	391,500
Other Funding	-	-	-	-	-	-
Total Funding:	-	391,500	-	-	-	391,500
Net Budget:	-	-	-	-	-	-

Impact on Operating Budget:

No operational increases or decreases projected at this time.

Operating Impacts of Capital Budget / Lifecycle Cost

	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Ongoing Operating Costs (Savings)	-	-	-	-	-
One-time Operating Costs (Savings)	-	-	-	-	-

Detailed Work Plan for 2019/20:

Planned project activities will include: - Provision of election support technical resources (Internal & External); - Procurement of technical equipment; - Procurement of Independent 3rd Party Security Assessment for - eVoting Solution.	2019/20 391,500
Total Estimated Work Plan	391,500
Less Projected Carry Forward from Previous Years	
Gross Budget Request	391,500

2019/20 Capital Budget Form

Project Name: Application Recapitalization	Est. Start Date: Annual Program
Project Number: CI190009	Est. Completion Date: Annual Program
Budget Category: Business Tools	Supports Priority Area: Service Delivery
Project Type: Asset Renewal	
Discrete/Bundled: Bundled	Project Manager: Corinne MacCormack
Multi-Year: No	Asset Steward: Mgr, ICT Strategic Planning & Delivery

Project Summary

Implementing best practices in lifecycle management of all technology application assets to ensure they are maintained in a state of good repair. This project consolidates the regular maintenance, upgrading, and continuous improvement activities related to HRM's 180+ IT applications. Facilitates the procurement of tools and assets associated to furthering and maturing the Application Management function within ICT.

Total Project Budget: n/a

Budget Estimate Confidence: +-25%

Project Budget by Year

Fiscal Year	Previously Approved	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Gross Budget:	7,095,000	200,000	450,000	450,000	550,000	8,745,000
Project Specific Funding:						
Reserves	-	-	-	-	-	-
Other Funding	-	-	-	-	-	-
Total Funding:	-	-	-	-	-	-
Net Budget:	7,095,000	200,000	450,000	450,000	550,000	8,745,000

Impact on Operating Budget:

- 2019-20: Anticipated increase in licensing costs for newly procured IT Service Management tool - \$50,000.
 - 2019-20: Learning Management Solutions Licenses - \$89,000.

Operating Impacts of Capital Budget / Lifecycle Cost

	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Ongoing Operating Costs (Savings)	139,000	139,000	139,000	139,000	556,000
One-time Operating Costs (Savings)	-	-	-	-	-

Detailed Work Plan for 2019/20:

Planned project activities will include: - Application Software Testing and IT Test Lab; - IT Event & Asset Management Implementation; - Application enhancement, implementation, and expansion; - Implementation of Elements Telephony system for Service Desk and Human Resources; - Integration of Elements to ServiceNow application; - Implementation of Road Disruption Network Application (Initial activities).	2019/20 1,129,503
Total Estimated Work Plan	1,129,503
Less Projected Carry Forward from Previous Years	929,503
Gross Budget Request	200,000

2019/20 Capital Budget Form

Project Name:	Business Intelligence Program	Est. Start Date:	Annual Program
Project Number:	CI190010	Est. Completion Date:	Annual Program
Budget Category:	Business Tools	Supports Priority Area:	Service Delivery
Project Type:	Asset Renewal		
Discrete/Bundled:	Bundled	Project Manager:	Greg Da Ros
Multi-Year:	Yes	Asset Steward:	Mgr, ICT Strategic Planning & Delivery

Project Summary

The Business Intelligence (BI) Program supports HRM business unit needs for improved analytical capabilities in support of evidence based decision making. In 2019-20 key areas of focus will include maturing Open Data, automating corporate benchmarking initiatives, and growing HRM's analytics capabilities.

Total Project Budget: n/a

Budget Estimate Confidence: +-25%

Project Budget by Year

Fiscal Year	Previously Approved	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Gross Budget:	1,644,000	350,000	750,000	875,000	475,000	4,094,000
Project Specific Funding:						
Reserves	-	-	-	-	-	-
Other Funding	-	-	-	-	-	-
Total Funding:	-	-	-	-	-	-
Net Budget:	1,644,000	350,000	750,000	875,000	475,000	4,094,000

Impact on Operating Budget:

- Prorated operating amount for a solution Architect position that was filled in 2018-19. The remaining funds to support this position of \$27,500 are needed in 2019-20.
- Annual support and maintenance costs (ASM) of \$37,500 for Advanced Analytics software.
- Annual support and maintenance costs (ASM) of \$25,000 for Advanced Analytics Software Maintenance.
- Compensation funding in the amount of \$110,000 is required for full time BI Data Scientist for supporting improved analytical capabilities.
- Compensation funding in the amount of \$110,000 is required for full time BI Business Analyst for supporting improved analytical capabilities.
- Annual support and maintenance costs (ASM) of \$15,000 for advanced analytics software maintenance.
- Annual support and maintenance costs (ASM) of \$25,000 for Transportation & Public Works (TPW) Collision Data Maintenance.

Operating Impacts of Capital Budget / Lifecycle Cost

	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Ongoing Operating Costs (Savings)	90,000	350,000	350,000	2,450,000	3,240,000
One-time Operating Costs (Savings)	-	-	-	-	-

Detailed Work Plan for 2019/20:

	2019/20
Planned project implementations will include:	798,468
- BI Environment maintenance; big data analytics; citizen hub; SAP datamart growth;	
- Parks & Recreation data and analytics initiatives;	
- Municipal Benchmarking datamarts and analytics;	
- Capability project - Human Resource master data and analytics capabilities;	
- Open Data program initiatives;	
- Data classification (projects).	
Total Estimated Work Plan	798,468
Less Projected Carry Forward from Previous Years	448,468
Gross Budget Request	350,000

2019/20 Capital Budget Form

Project Name: Contact Ctr Telephony Solution	Est. Start Date: May-16
Project Number: C1990017	Est. Completion Date: Dec-19
Budget Category: Business Tools	Supports Priority Area: Service Delivery
Project Type: Asset Renewal	
Discrete/Bundled: Discrete	Project Manager: Martha Wilson
Multi-Year: No	Asset Steward: Mgr, ICT Strategic Planning & Delivery

Project Summary

The Contact Center Telephony project was initiated in 2016 to replace the previous telephony technology solution in the 311 Citizen Contact Centre (CCC). The new solution has been selected (Elements) and is being implemented in multiple phases. Several components have been successfully implemented to date including replacement of the core voice platform, IVR, skills based routing, call backs and other features, workforce management, quality assurance, and improved reporting. In 2019-20 the project's primary focus will be on implementation of the application's multi-media (e.g. email) processing functionality.

Total Project Budget: 740,000

Budget Estimate Confidence: +-10%

Project Budget by Year

Fiscal Year	Previously Approved	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Gross Budget:	740,000		-	-	-	740,000
Project Specific Funding:						
Reserves	-	-	-	-	-	-
Other Funding	-	-	-	-	-	-
Total Funding:	-	-	-	-	-	-
Net Budget:	740,000	-	-	-	-	740,000

Impact on Operating Budget:

No operational increases or decreases projected at this time.

Operating Impacts of Capital Budget / Lifecycle Cost

	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Ongoing Operating Costs (Savings)	-	-	-	-	-
One-time Operating Costs (Savings)	-	-	-	-	-

Detailed Work Plan for 2019/20:

	2019/20
Planned project work will include completing deployment of integrated Email functionality solution - 311 Contact Centre. Activities will include: - Design and implementation; - Testing; - Training; - Solution deployment; - Transition to Operations Group.	104,034
Total Estimated Work Plan	104,034
Less Projected Carry Forward from Previous Years	104,034
Gross Budget Request	-

2019/20 Capital Budget Form

Project Name: Corporate Scheduling	Est. Start Date: Jun-17
Project Number: CI000015	Est. Completion Date: Feb-21
Budget Category: Business Tools	Supports Priority Area: Service Delivery
Project Type: Asset Renewal	
Discrete/Bundled: Discrete	Project Manager: George Hayman
Multi-Year: Yes	Asset Steward: Mgr, ICT Strategic Planning & Delivery

Project Summary

The Corporate Scheduling project will provide an online tool to help management ensure staff workloads are scheduled appropriately. Any scheduling inefficiencies will be clearly identified within the solution to allow resolution of the issues in a timely and efficient manner, which will avoid negative service level impacts. The solution will integrate with SAP to provide a streamlined experience with minimal data entry points to maintain work and absence times for employees with manager approvals. Scheduling changes and approvals are tracked and can be audited to ensure employees and managers can be held accountable for scheduling impacts on service levels. This solution will help ensure that HRM services are appropriately staffed to meet HRM's commitments to citizens. In 2019-20, planned project activities include implementation and deployment of the selected scheduling tool.

Total Project Budget: 4,190,000

Budget Estimate Confidence: +-50%

Project Budget by Year

	Previously Approved	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Fiscal Year						
Gross Budget:	2,005,000	965,000	1,220,000	-	-	4,190,000
Project Specific Funding:						
Reserves	-	-	-	-	-	-
Other Funding	-	-	-	-	-	-
Total Funding:	-	-	-	-	-	-
Net Budget:	2,005,000	965,000	1,220,000	-	-	4,190,000

Impact on Operating Budget:

Annual support and maintenance costs (ASM) of \$84,000 for corporate scheduling solution.

Operating Impacts of Capital Budget / Lifecycle Cost

	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Ongoing Operating Costs (Savings)	84,000	84,000	84,000	588,000	840,000
One-time Operating Costs (Savings)	-	-	-	-	-

Detailed Work Plan for 2019/20:

Planned project work will include implementation of Halifax Regional Fire and Emergency (HRFE) Scheduling as well as corporate Time Reporting solution capabilities. Project activities will include: <ul style="list-style-type: none"> - Solution design; - System configuration; - Change Management; - Testing; - Development of training materials; - Training of users; - Transition to Operations Support. 	2,286,223
Total Estimated Work Plan	2,286,223
Less Projected Carry Forward from Previous Years	1,321,223
Gross Budget Request	965,000

2019/20 Capital Budget Form

Project Name: CRM Software Replacement	Est. Start Date: Apr-19
Project Number: C1990020	Est. Completion Date: Sep-22
Budget Category: Business Tools	Supports Priority Area: Service Delivery
Project Type: Asset Renewal	
Discrete/Bundled: Discrete	Project Manager: Sarah Teal
Multi-Year: Yes	Asset Steward: Mgr, ICT Strategic Planning & Delivery

Project Summary

Halifax requires a new Customer Relationship Management (CRM) solution to replace its existing CRM which is currently integrated as part of the Hansen technology suite. Hansen and, by default, CRM, is at end-of-life; and will not meet the future needs of the organization, in particular, the provision of more and better citizen-facing services. A corporate CRM Strategy and Roadmap was completed in 2nd quarter of 2018-19. Approved transformational project related initiatives identified in the roadmap will drive implementation activities. The CRM project is a multi-year initiative with multiple implementation phases. 2019-20 planned project activities are expected to include a detailed preparation phase as well as the selection and procurement of an Enterprise level solution.

Total Project Budget: 5,979,000

Budget Estimate Confidence: +-25%

Project Budget by Year

Fiscal Year	Previously Approved	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Gross Budget:	1,026,000	53,000	950,000	950,000	3,000,000	5,979,000
Project Specific Funding:						
Reserves	-	-	-	-	-	-
Other Funding	-	-	-	-	-	-
Total Funding:	-	-	-	-	-	-
Net Budget:	1,026,000	53,000	950,000	950,000	3,000,000	5,979,000

Impact on Operating Budget:

Estimated annual support and maintenance costs (ASM) of \$210,000 for software licensing costs for 2019-20 to support the new CRM solution.

Operating Impacts of Capital Budget / Lifecycle Cost

	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Ongoing Operating Costs (Savings)	210,000	210,000	210,000	1,470,000	2,100,000
One-time Operating Costs (Savings)	-	-	-	-	-

Detailed Work Plan for 2019/20:

	2019/20
Planned project activities will include:	801,307
- Solution Fit-Gap assessment;	
- Establishing a CRM Project Team (including Procurement of external resources);	
- Establishing a Program Management Office;	
- Procurement of a technology solution - Request For Proposal Process.	
- Data model, integration and governance planning;	
- Data privacy and consent assessment;	
- Governance activities (planning and coordination with related project implementations)	
Total Estimated Work Plan	801,307
Less Projected Carry Forward from Previous Years	748,307
Gross Budget Request	53,000

2019/20 Capital Budget Form

Project Name: Data Mgmt and Process Review	Est. Start Date: Sep-18
Project Number: CI990021	Est. Completion Date: Mar-19
Budget Category: Business Tools	Supports Priority Area: Service Delivery
Project Type: Asset Renewal	
Discrete/Bundled: Discrete	Project Manager: John Fenton
Multi-Year: No	Asset Steward: Mgr, ICT Strategic Planning & Delivery

Project Summary

2019-20 planned work activities will focus on ongoing development of HRFE business intelligence reports (including key performance indicators - KPIs)

Total Project Budget: 190,000

Budget Estimate Confidence: +-25%

Project Budget by Year

Fiscal Year	Previously Approved	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Gross Budget:	190,000	-	-	-	-	190,000
Project Specific Funding:						
Reserves	-	-	-	-	-	-
Other Funding	-	-	-	-	-	-
Total Funding:	-	-	-	-	-	-
Net Budget:	190,000	-	-	-	-	190,000

Impact on Operating Budget:

No operational increases or decreases projected at this time.

Operating Impacts of Capital Budget / Lifecycle Cost

	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Ongoing Operating Costs (Savings)	-	-	-	-	-
One-time Operating Costs (Savings)	-	-	-	-	-

Detailed Work Plan for 2019/20:

	2019/20
Project activities will include:	60,000
- Ongoing HRFE Reporting activities.	
Total Estimated Work Plan	60,000
Less Projected Carry Forward from Previous Years	60,000
Gross Budget Request	-

2019/20 Capital Budget Form

Project Name:	Enterprise Content & Records Mgmt	Est. Start Date:	Jan-19
Project Number:	CI990018	Est. Completion Date:	Mar-23
Budget Category:	Business Tools	Supports Priority Area:	Service Delivery
Project Type:	Asset Renewal		
Discrete/Bundled:	Discrete	Project Manager:	Martha Wilson
Multi-Year:	Yes	Asset Steward:	Mgr, ICT Strategic Planning & Delivery

Project Summary

Enterprise Content & Records Management (ECRM) is the term used to describe the technologies, tools, and methods used to capture, store, preserve, and deliver "content" or "information" across an organization. As an organization matures and undertakes more major business/IT initiatives, this underlying technology is required to support the management of information. While Halifax has made some investment in ECRM, it has not leveraged it across the organization to a large degree. In 2018, an RFP with a focus on Governance and implementation will be completed. Planned activities in 2019-20, will include development of a 5-year plan to drive implementation of ECRM across the organization. As well, an innovative quick-win initiative will be kicked off to use the selected ECRM technology to redevelop Halifax's Intranet solution.

Total Project Budget: 2,650,000

Budget Estimate Confidence: +50%

Project Budget by Year

Fiscal Year	Previously Approved	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Gross Budget:	650,000	500,000	500,000	500,000	500,000	2,650,000
Project Specific Funding:						
Reserves	-	-	-	-	-	-
Other Funding	-	-	-	-	-	-
Total Funding:	-	-	-	-	-	-
Net Budget:	650,000	500,000	500,000	500,000	500,000	2,650,000

Impact on Operating Budget:

No operational increases or decreases projected at this time.

Operating Impacts of Capital Budget / Lifecycle Cost

	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Ongoing Operating Costs (Savings)	-	-	-	-	-
One-time Operating Costs (Savings)	-	-	-	-	-

Detailed Work Plan for 2019/20:

2019/20

Planned project work will include planning and implementation activities for the corporate Enterprise Content & Records Management solution and planning and implementation activities for a new HRM Intranet solution.	1,119,500
Ongoing planning for the corporate Enterprise Content & Records Management solution. Activities will include: - Requirement gathering; - (Planning) Change Management; Technology/System Architecture; Implementation; - Creation of ECRM vision, roadmap and business case; - Implementation of initial initiatives identified in the ECRM roadmap.	
HRM Intranet solution - Activities will include: - Solution design and configuration; - Change Management; - Solution implementation; - Testing; - Development of Training materials and User training.	
Total Estimated Work Plan	1,119,500
Less Projected Carry Forward from Previous Years	619,500
Gross Budget Request	500,000

2019/20 Capital Budget Form

Project Name: Fleet SAP Interface Upgrades	Est. Start Date: Oct-20
Project Number: CI190003	Est. Completion Date: Sep-21
Budget Category: Business Tools	Supports Priority Area: Service Delivery
Project Type: Asset Renewal	
Discrete/Bundled: Discrete	Project Manager: Martha Wilson
Multi-Year: Yes	Asset Steward: Mgr, ICT Strategic Planning & Delivery

Project Summary

The purpose of this project is because Fleet has an integration to SAP procurement which will have updates in 19/20 including interfaces. This Fleet SAP project is to provide follow-up assessment in 20/21 for the solution, refine integration, processes, and reporting to provide efficient processes, timely data, and decision making.

Total Project Budget: 1,005,000

Budget Estimate Confidence: +-50%

Project Budget by Year

Fiscal Year	Previously Approved	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Gross Budget:	-	-	595,000	410,000	-	1,005,000
Project Specific Funding:						
Q631 (Debt Principal and Interest Repayment Reserve)	-	-	595,000	410,000	-	1,005,000
Other Funding	-	-	-	-	-	-
Total Funding:	-	-	595,000	410,000	-	1,005,000
Net Budget:	-	-	-	-	-	-

Impact on Operating Budget:

No operational increases or decreases projected at this time.

Operating Impacts of Capital Budget / Lifecycle Cost

	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Ongoing Operating Costs (Savings)	-	-	-	-	-
One-time Operating Costs (Savings)	-	-	-	-	-

Detailed Work Plan for 2019/20:

2019/20

Total Estimated Work Plan	-
Less Projected Carry Forward from Previous Years	
Gross Budget Request	-

2019/20 Capital Budget Form

Project Name:	HR Improvement Project	Est. Start Date:	Jan-19
Project Number:	CI990032	Est. Completion Date:	Dec-20
Budget Category:	Business Tools	Supports Priority Area:	Service Delivery
Project Type:	Asset Renewal		
Discrete/Bundled:	Discrete	Project Manager:	Martha Wilson
Multi-Year:	Yes	Asset Steward:	Mgr, ICT Strategic Planning & Delivery

Project Summary

SAP is a foundational platform that will integrate with many solutions across HRM providing enhancements in key areas. The Human Resource (HR) Improvement project will be implemented first, establishing a base for the SAP platform. Additional functionality / modules that will be part of the platform will include, Employee Self-Serve/Manager Self-Serve (ESS/MSS),

Total Project Budget: 2,670,000

Budget Estimate Confidence: +-50%

Project Budget by Year

Fiscal Year	Previously Approved	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Gross Budget:	670,000	1,500,000	500,000	-	-	2,670,000
Project Specific Funding:						
Q631 (Debt Principal and Interest Repayment Reserve)	-	1,500,000	500,000	-	-	2,000,000
Other Funding	-	-	-	-	-	-
Total Funding:	-	1,500,000	500,000	-	-	2,000,000
Net Budget:	670,000	-	-	-	-	670,000

Impact on Operating Budget:

Annual support and maintenance costs (ASM) of \$150,000 for the SAP platform.

Operating Impacts of Capital Budget / Lifecycle Cost

	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Ongoing Operating Costs (Savings)	150,000	150,000	150,000	1,050,000	1,500,000
One-time Operating Costs (Savings)	-	-	-	-	-

Detailed Work Plan for 2019/20:

Detailed Work Plan for 2019/20:	2019/20
Project Preparation activities will include: - Stabilization, reconciliation and changes to data and data structures in support of HR related application integrations; - Procurement (SAP Solution / Implementation Services).	2,045,151
Project Delivery activities will include Design, Build, Test and Implementation for solution components (to replace existing solution): - Employee Central foundation; - Organizational structure; - Employee transactions; - Employee Self-Serve / Manger Self-Serve (ESS / MSS); - HR Intake.	
Project Planning activities will include Planning for the following solutions: - Learning Management solution; - Recruitment solution.	
Total Estimated Work Plan	2,045,151
Less Projected Carry Forward from Previous Years	545,151
Gross Budget Request	1,500,000

2019/20 Capital Budget Form

Project Name: HRFE AVL Devices	Est. Start Date: Apr-19
Project Number: CI190004	Est. Completion Date: Mar-20
Budget Category: Business Tools	Supports Priority Area: Service Delivery
Project Type: Growth	
Discrete/Bundled: Discrete	Project Manager: John Fenton
Multi-Year: No	Asset Steward: Mgr, ICT Strategic Planning & Delivery

Project Summary

Install Automatic Vehicle Location (AVL) devices in all Halifax Regional Fire and Emergency (HRFE) vehicles and develop real-time reporting capabilities for HRFE on the location of vehicles. Delivery of the solution is expected to improve the HRFE Key Performance Indicator reporting capabilities on availability of vehicles and the time to respond to an incident over time.

Total Project Budget: 200,000

Budget Estimate Confidence: +-50%

Project Budget by Year

Fiscal Year	Previously Approved	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Gross Budget:	-	200,000	-	-	-	200,000
Project Specific Funding:						
Reserves	-	-	-	-	-	-
Other Funding	-	-	-	-	-	-
Total Funding:	-	-	-	-	-	-
Net Budget:	-	200,000	-	-	-	200,000

Impact on Operating Budget:

Annual support and maintenance costs (ASM) of \$27,300 for the subscription licencing for automatic vehicle location technology for HRFE devices.

Operating Impacts of Capital Budget / Lifecycle Cost

	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Ongoing Operating Costs (Savings)	27,300	27,300	27,300	191,100	273,000
One-time Operating Costs (Savings)	-	-	-	-	-

Detailed Work Plan for 2019/20:

	2019/20
Planned project activities will include planning and implementation initiatives:	200,000
Planning activities will include: <ul style="list-style-type: none"> - Project initiation; Requirements gathering; - (Planning) Change Management; Technology/System Architecture; Implementation. - Acquire AVL devices. 	
Implementation activities will include: <ul style="list-style-type: none"> - Solution configuration; - Develop Process for Managing/Changing AVL devices; - Develop Operating Guidelines and Policy; - Change Management; Testing; Training; - Installation of AVL devices; - Implementation support; Transition to Operations Group. 	
Total Estimated Work Plan	200,000
Less Projected Carry Forward from Previous Years	-
Gross Budget Request	200,000

2019/20 Capital Budget Form

Project Name:	HRFE Dispatch Projects	Est. Start Date:	Jan-17
Project Number:	CI990027	Est. Completion Date:	Dec-21
Budget Category:	Business Tools	Supports Priority Area:	Service Delivery
Project Type:	Growth		
Discrete/Bundled:	Discrete	Project Manager:	John Fenton
Multi-Year:	Yes	Asset Steward:	Mgr, ICT Strategic Planning & Delivery

Project Summary

In 2015, a report was completed identifying a number of technology and process changes to improve how Halifax Regional Fire and Emergency (HRFE) dispatches staff to calls for service. These improvements, integrated into HRFE's technology roadmap, are being rolled out over a number of years. Initiatives identified include: volunteer notification, printer alarm, dispatch policies and procedures, implementation of Mobile Data Terminals (MDTs) and smartphone application for Computer Aided Dispatch (CAD) information, CAD to Fire Department Management (FDM) interface, automatic alarm assignments, and move ups. Changes are aligned to improve HRFE's response times, providing HRFE operational staff with quality information and improved reporting capabilities on the level of service being provided to citizens. In 2019-20 and 2020-21 planned project activities include Service Level Agreements (SLA), Change Management (CM), Quality Assurance (QA).

Total Project Budget: 960,000

Budget Estimate Confidence: +-25%

Project Budget by Year

Fiscal Year	Previously Approved	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Gross Budget:	960,000	-	-	-	-	960,000
Project Specific Funding:						
Reserves	-	-	-	-	-	-
Other Funding	-	-	-	-	-	-
Total Funding:	-	-	-	-	-	-
Net Budget:	960,000	-	-	-	-	960,000

Impact on Operating Budget:

Licensing fees of \$36,700 have been allocated for the integration of station alerting with CAD EMS.
Purchase of new balance of HRFE's mobile data terminal (MDT) hardware. Projected cost for the ongoing hardware maintenance and/or replacement of equipment (Mobile Data Terminals) - \$58,000.

Operating Impacts of Capital Budget / Lifecycle Cost

	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Ongoing Operating Costs (Savings)	58,000	94,700	94,700	662,900	910,300
One-time Operating Costs (Savings)	-	-	-	-	-

Detailed Work Plan for 2019/20:

Detailed Work Plan for 2019/20:	2019/20
Planned projects include ongoing implementations for the following initiatives	120,872
Service Level Agreements initiative (Reporting). Planning activities will include: Requirements Gathering. Implementation activities	
Quality Assurance Program initiative. Planning activities will include: Initiation, Governance, Requirements Gathering, Change Management Implementation activities (including Reporting Measurements)	
HRFE Technology Roadmap - Change Management initiative. Activities will include - HRFE Technology Roadmap Review; - Develop & Implement Change Management plan;	
Remaining funds will be allocated for future HRFE Roadmap Dispatch initiatives.	161,000
Total Estimated Work Plan	281,872
Less Projected Carry Forward from Previous Years	281,872
Gross Budget Request	-

2019/20 Capital Budget Form

Project Name: HRFE FDM Review/Enhance	Est. Start Date: Sep-16
Project Number: CI990028	Est. Completion Date: Sep-21
Budget Category: Business Tools	Supports Priority Area: Service Delivery
Project Type: Growth	
Discrete/Bundled: Discrete	Project Manager: John Fenton
Multi-Year: Yes	Asset Steward: Mgr, ICT Strategic Planning & Delivery

Project Summary

Halifax Regional Fire and Emergency Services (HRFE) relies on the Fire Department Management (FDM) system to run most aspects of their operations. With a commitment to ensure operations are optimally positioned, HRFE launched its FDM Review and Enhancements project. As part of the initiative, an initial review of FDM modules was completed which identified areas needing process and/or technology upgrades and enhancements. The highest priority areas: Personnel, Training and Property modules, are in progress to be upgraded. Other priority areas are also targeted.

In 2019-20 & 2020-21, planned project activities will include implementing FDM Incident & Investigation enhancement, integration of incident data with the Fire Marshal, improvements to the reporting capabilities associated with the Incident Management, and the implementation of FDM Station Log enhancements.

Total Project Budget: 790,000

Budget Estimate Confidence: +50%

Project Budget by Year

Fiscal Year	Previously Approved	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Gross Budget:	790,000	-	-	-	-	790,000
Project Specific Funding:						
Reserves	-	-	-	-	-	-
Other Funding	-	-	-	-	-	-
Total Funding:	-	-	-	-	-	-
Net Budget:	790,000	-	-	-	-	790,000

Impact on Operating Budget:

- Annual Support & Maintenance (ASM) for FDM data reporting. Estimated charges of \$6,000 for 2019-20.
- Annual Support Licences \$10,000 for 10 additional WIN 6 operating licences including an upgrade to the FDM mapping software for 2020-21.

Operating Impacts of Capital Budget / Lifecycle Cost

	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Ongoing Operating Costs (Savings)	6,000	26,000	26,000	182,000	240,000
One-time Operating Costs (Savings)	-	-	-	-	-

Detailed Work Plan for 2019/20:

	2019/20
Planned project initiatives will include:	601,548
<p>FDM Incident & Investigation Enhancements initiative.</p> <p>Planning activities will include:</p> <ul style="list-style-type: none"> - Project initiation and planning; - Request For Proposal Process - Project Resources; - Requirements gathering; <p>Implementation activities will include:</p> <ul style="list-style-type: none"> - Solution Configuration; Change Management; - Testing; Training; Implementation (including Support activities); - Develop Operating Guidelines / Policy and Transition to Operations Group. 	
<p>FDM Station Log & Hydrants Enhancements initiative.</p> <p>Planning activities will include:</p> <ul style="list-style-type: none"> - Project initiation and planning; - Request for Proposal - Project Resources; - Requirements gathering; - (Planning) Change Management; Technology/System Architecture; Implementation. 	
Total Estimated Work Plan	601,548
Less Projected Carry Forward from Previous Years	601,548
Gross Budget Request	-

2019/20 Capital Budget Form

Project Name: HRFE Intelligent Dispatching	Est. Start Date: Apr-20
Project Number: CI190005	Est. Completion Date: Mar-21
Budget Category: Business Tools	Supports Priority Area: Service Delivery
Project Type: Growth	
Discrete/Bundled: Discrete	Project Manager: John Fenton
Multi-Year: No	Asset Steward: Mgr, ICT Strategic Planning & Delivery

Project Summary

The implementation of the Versadex Computer Aided Dispatch (CAD) Automatic Vehicles Routing will enhance Halifax Regional Fire & Emergency (HRFE) dispatch response capability by providing the shortest route to an incident based on the vehicle . This is based on the HRM street network information that is captured in the ArcGIS and new software available from Versaterm for CAD and Mobile Data Terminals (MDTs).
Implementation and delivery of the project will provide information to MDTs such as driving recommendations as well as information on street closures, road encroachment and street rate of speed which will enable them to arrive on scene earlier.

Total Project Budget: 665,000

Budget Estimate Confidence: +-50%

Project Budget by Year

Fiscal Year	Previously Approved	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Gross Budget:	-	-	665,000	-	-	665,000
Project Specific Funding:						
Reserves	-	-	-	-	-	-
Other Funding	-	-	-	-	-	-
Total Funding:	-	-	-	-	-	-
Net Budget:	-	-	665,000	-	-	665,000

Impact on Operating Budget:

No operational increases or decreases projected at this time.

Operating Impacts of Capital Budget / Lifecycle Cost

	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Ongoing Operating Costs (Savings)	-	-	-	-	-
One-time Operating Costs (Savings)	-	-	-	-	-

Detailed Work Plan for 2019/20:

	2019/20
Total Estimated Work Plan	-
Less Projected Carry Forward from Previous Years	
Gross Budget Request	-

2019/20 Capital Budget Form

Project Name: HRP Records Mgmt Optimization	Est. Start Date: Oct-18
Project Number: CI990023	Est. Completion Date: Dec-21
Budget Category: Business Tools	Supports Priority Area: Service Delivery
Project Type: Asset Renewal	
Discrete/Bundled: Discrete	Project Manager: George Hayman
Multi-Year: Yes	Asset Steward: Mgr, ICT Strategic Planning & Delivery

Project Summary

The Halifax Regional Police (HRP) Records Management System (RMS) Optimization project will improve how HRP collects, shares and uses RMS information in the delivery of its day-to-day service. This will include a thorough look at: existing business processes; examination of existing modules and features available within RMS; an audit of data quality / integrity; identification of how to securely share data with external partners; and, an investigation of other technologies that will assist in achieving these objectives. The focus is on data with primary objectives to enhance and / or re-engineer business processes (as necessary), clean up data, increase data integrity, increase operational efficiencies, and ultimately empower users by providing necessary tools to analyze data.

In 2019-20 planned project activities include completion of Digital Storage Opportunity Assessment, e-Disclosure and Digital Scanning and Data Management Framework initiative.

Total Project Budget: 1,605,000

Budget Estimate Confidence: +-50%

Project Budget by Year

Fiscal Year	Previously Approved	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Gross Budget:	855,000	250,000	250,000	250,000	-	1,605,000
Project Specific Funding:						
Reserves	-	-	-	-	-	-
Other Funding	-	-	-	-	-	-
Total Funding:	-	-	-	-	-	-
Net Budget:	855,000	250,000	250,000	250,000	-	1,605,000

Impact on Operating Budget:

No operational increases or decreases projected at this time.

Operating Impacts of Capital Budget / Lifecycle Cost

	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Ongoing Operating Costs (Savings)	-	-	-	-	-
One-time Operating Costs (Savings)	-	-	-	-	-

Detailed Work Plan for 2019/20:

	2019/20
Planned project initiatives include:	857,586
eDisclosure initiative:	
- Procurement of eDisclosure Solution;	
- Procurement (Licenses and services);	
- Planning: Change Management; System/Technology Architecture;	
- Solution Implementation; Change Management; Testing; Training material development; User Training	
- Transition to Operations Support.	
Enhancements to Records Management initiative:	
Planning activities will include:	
- Initiation and planning; Requirements gathering;	
- Planning: Change Management; System/Technology Architecture;	
- Procurement of professional services resources.	
Implementation activities will include:	
- Solution configuration; Change Management,;	
- Testing; Training and Transition to Operations Support	
Total Estimated Work Plan	857,586
Less Projected Carry Forward from Previous Years	607,586
Gross Budget Request	250,000

2019/20 Capital Budget Form

Project Name: HRP Source Management	Est. Start Date: Apr-16
Project Number: CI000016	Est. Completion Date: Mar-20
Budget Category: Business Tools	Supports Priority Area: Service Delivery
Project Type: Asset Renewal	
Discrete/Bundled: Discrete	Project Manager: Gursharan Singh
Multi-Year: No	Asset Steward: Mgr, ICT Strategic Planning & Delivery

Project Summary

The objective of the project is to define detailed Halifax Regional Police (HRP) requirements for source management , source data management, and access to source data and implement the solution based on the Opportunity Assessment done in FY 15/16.

HRP's current source data/information is stored, managed, and distributed in sub-optimal ways that lack security, and the data is not always readily available to the appropriate HRP officer/personnel. The expected benefits of implementing a modern and secure technology solution to manage this data will improve the source data management, handler management, and improve data security.

Total Project Budget: 575,000

Budget Estimate Confidence: +-25%

Project Budget by Year

	Previously Approved	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Fiscal Year						
Gross Budget:	450,000	125,000	-	-	-	575,000
Project Specific Funding:						
Reserves	-	-	-	-	-	-
Other Funding	-	-	-	-	-	-
Total Funding:	-	-	-	-	-	-
Net Budget:	450,000	125,000	-	-	-	575,000

Impact on Operating Budget:

No operational increases or decreases projected at this time.

Operating Impacts of Capital Budget / Lifecycle Cost

	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Ongoing Operating Costs (Savings)	-	-	-	-	-
One-time Operating Costs (Savings)	-	-	-	-	-

Detailed Work Plan for 2019/20:

	2019/20
Planned project activities will include planning and implementation initiatives	139,126
Planning activities will include: - Project Planning for HRP Source Management Solution; - Define Project Requirements; - Define Change Management Strategy; - Define Implementation Strategy; - Define Project Architecture; - Conduct RFP Process (Solution);	
Implementation activities will include: - System & Service Configuration; - Change Management Activities; - Product & Service Testing; - Product and Service Training; - Product & Service Implementation; - Transition Project To Operations.	
Total Estimated Work Plan	139,126
Less Projected Carry Forward from Previous Years	14,126
Gross Budget Request	125,000

2019/20 Capital Budget Form

Project Name: ICT Business Tools	Est. Start Date: Annual Program
Project Number: CI990004	Est. Completion Date: Annual Program
Budget Category: Business Tools	Supports Priority Area: Service Delivery
Project Type: Asset Renewal	
Discrete/Bundled: Bundled	Project Manager: Duncan Gillis
Multi-Year: No	Asset Steward: Mgr, ICT Strategic Planning & Delivery

Project Summary

HRM's Information, Communication and Technology (ICT) Business Tools account is used for planning purposes and for the delivery and implementation of smaller business technology initiatives. In 2019-20 focus will be on completing a number of opportunity assessments as well as Strategy and Roadmap initiatives.

Total Project Budget: n/a

Budget Estimate Confidence: +-25%

Project Budget by Year

Fiscal Year	Previously Approved	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Gross Budget:	2,975,000	300,000	200,000	400,000	500,000	4,375,000
Project Specific Funding:						
Reserves	-	-	-	-	-	-
Other Funding	-	-	-	-	-	-
Total Funding:	-	-	-	-	-	-
Net Budget:	2,975,000	300,000	200,000	400,000	500,000	4,375,000

Impact on Operating Budget:

- Annual service & maintenance (ASM) for Access and Privacy subscription costs of \$80,000 in 2019-20;
- ASM for Mass Notification Solution prorated to \$80,000 in 2019-20;
- ASM for Mass Notification Solution additional subscription costs of \$10,000 in 2020-21;

Operating Impacts of Capital Budget / Lifecycle Cost

	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Ongoing Operating Costs (Savings)	160,000	170,000	170,000	1,190,000	1,690,000
One-time Operating Costs (Savings)	-	-	-	-	-

Detailed Work Plan for 2019/20:

2019/20

Projected strategic project initiatives:	830,418
- Development of 3-4 Opportunity Assessments / Business Case initiatives;	
- Development of 3 Strategies / Roadmap Initiatives.	
Total Estimated Work Plan	830,418
Less Projected Carry Forward from Previous Years	530,418
Gross Budget Request	300,000

2019/20 Capital Budget Form

Project Name:	ICT Infrastructure Recap.	Est. Start Date:	Annual Program
Project Number:	CI000004	Est. Completion Date:	Annual Program
Budget Category:	Business Tools	Supports Priority Area:	Service Delivery
Project Type:	Asset Renewal		
Discrete/Bundled:	Bundled	Project Manager:	Phillip Evans
Multi-Year:	No	Asset Steward:	Mgr, ICT Strategic Planning & Delivery

Project Summary

ICT Infrastructure Recapitalization is a year-over-year set of initiatives that allows for ICT's infrastructure assets (data centres, networks, servers, backup and security technologies, etc.) to be properly maintained, upgraded and when necessary, recapitalized.

Total Project Budget: n/a

Budget Estimate Confidence: +-25%

Project Budget by Year

Fiscal Year	Previously Approved	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Gross Budget:	5,080,000	1,875,000	1,225,000	950,000	950,000	10,080,000
Project Specific Funding:						
Reserves	-	-	-	-	-	-
Other Funding	-	-	-	-	-	-
Total Funding:	-	-	-	-	-	-
Net Budget:	5,080,000	1,875,000	1,225,000	950,000	950,000	10,080,000

Impact on Operating Budget:

- Annual service & maintenance (ASM) for security system software. Projected costs of \$40,000 for 2020-21.
- ASM for Vulnerability Scanner projected costs of \$12,500 in 2020/21.
- ASM for Fibre Expansion projected costs of \$10,000 in 2020/21.
- ASM for Fibre Expansion projected costs of \$10,000 in 2021/22.
- ASM for Annual maintenance for Storage Area Network costs of \$35,000. It is the remainder of a prorated amount from 18/19; for fibre cable expansion & Malware

Operating Impacts of Capital Budget / Lifecycle Cost

	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Ongoing Operating Costs (Savings)	35,000	97,500	107,500	752,500	992,500
One-time Operating Costs (Savings)	-	-	-	-	-

Detailed Work Plan for 2019/20:

Detailed Work Plan for 2019/20:	2019/20
Planned project work initiatives will include: -Initial Office365 project activities and resourcing; - Threat Risk Assessment and Recommendations; - Server Recapitalization; - Network Recapitalization; - Disaster Recovery/Business Continuity; - NAC; - Fibre Network Expansion (incl. Bedford Basin); - Security Information and Event Management (SIEM) system; - Additional Security Tools; - Relocate Data Centre.	2,183,000
Total Estimated Work Plan	2,183,000
Less Projected Carry Forward from Previous Years	308,000
Gross Budget Request	1,875,000

2019/20 Capital Budget Form

Project Name:	IT Service Management	Est. Start Date:	Annual Program
Project Number:	CI990002	Est. Completion Date:	Annual Program
Budget Category:	Business Tools	Supports Priority Area:	Service Delivery
Project Type:	Asset Renewal		
Discrete/Bundled:	Bundled	Project Manager:	Corinne MacCormack
Multi-Year:	No	Asset Steward:	Mgr, ICT Strategic Planning & Delivery

Project Summary

This program underpins the adoption of best practices being implemented by HRM's Information, Communication and Technology (ICT) group to plan, design, deliver, operate, and control services delivered to HRM staff. The ICT Service Management (ITSM) project is a year-over-year set of initiatives that ensures ICT services are, highly available and continually improved, assets are managed appropriately and the cost of service delivery and operations is understood, as well as development of ICT service continuity plans in support of HRM Business Unit continuity plans.

Total Project Budget: n/a

Budget Estimate Confidence: +-50%

Project Budget by Year

Fiscal Year	Previously Approved	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Gross Budget:	635,000	275,000	400,000	400,000	500,000	2,210,000
Project Specific Funding:						
Reserves	-	-	-	-	-	-
Other Funding	-	-	-	-	-	-
Total Funding:	-	-	-	-	-	-
Net Budget:	635,000	275,000	400,000	400,000	500,000	2,210,000

Impact on Operating Budget:

No operational increases or decreases projected at this time.

Operating Impacts of Capital Budget / Lifecycle Cost

	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Ongoing Operating Costs (Savings)	-	-	-	-	-
One-time Operating Costs (Savings)	-	-	-	-	-

Detailed Work Plan for 2019/20:

Detailed Work Plan for 2019/20:	2019/20
Planned project initiatives will include:	497,797
IT Business Process Improvements initiative. Activities will include: - Requirements Gathering; - Development and Process Change Updates; - Define Change Management Strategy; - Testing; - Training; - Implementation of Changes; - Architecture Refresh.	
ITSM System & Service Configuration & Enhancements. Activities will include: - Change Management Activities; - Product & Process Service Testing; - Product & Process Service Training; - Implementation of ITSM System Tools Enhancements; - Transition Changes To Operations.	
Total Estimated Work Plan	497,797
Less Projected Carry Forward from Previous Years	222,797
Gross Budget Request	275,000

2019/20 Capital Budget Form

Project Name: iVos Implementation	Est. Start Date: Sep-19
Project Number: CI190006	Est. Completion Date: Feb-20
Budget Category: Business Tools	Supports Priority Area: Service Delivery
Project Type: Asset Renewal	
Discrete/Bundled: Discrete	Project Manager: Martha Wilson
Multi-Year: No	Asset Steward: Mgr, ICT Strategic Planning & Delivery

Project Summary

Risk and Insurance Services business area plans to implement and deploy a new Risk solution that will enable Halifax to make more fully informed decisions on risk management, which in turn will improve efficiency and maximize resources within the risk management portfolio.

Total Project Budget: 205,000

Budget Estimate Confidence: +-50%

Project Budget by Year

Fiscal Year	Previously Approved	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Gross Budget:	-	205,000	-	-	-	205,000
Project Specific Funding:						
Reserves	-	-	-	-	-	-
Other Funding	-	-	-	-	-	-
Total Funding:	-	-	-	-	-	-
Net Budget:	-	205,000	-	-	-	205,000

Impact on Operating Budget:

Annual support and maintenance costs (ASM) of \$104,000 will be needed for ongoing technology charges for the iVos solution in 2019-20.

Operating Impacts of Capital Budget / Lifecycle Cost

	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Ongoing Operating Costs (Savings)	104,000	104,000	104,000	728,000	1,040,000
One-time Operating Costs (Savings)	-	-	-	-	-

Detailed Work Plan for 2019/20:

	2019/20
Planned project work will include planning and implementation initiatives in support of the selection, implementation and deployment of new risk management solution.	205,000
Planning activities will include: <ul style="list-style-type: none"> - Project Planning; - Define Project Requirements; - Define Change Management Strategy; - Implementation Strategy; - Define Project Architecture; - Conduct RFP Process. 	
Implementation activities will include: <ul style="list-style-type: none"> - System & Service Configuration; - Change Management Activities; - Product & Service Testing; - Product and Service Training; - Product & Service Implementation; - Transition to Operations Group. 	
Total Estimated Work Plan	205,000
Less Projected Carry Forward from Previous Years	-
Gross Budget Request	205,000

2019/20 Capital Budget Form

Project Name: LIDAR Data Acquisition	Est. Start Date: Mar-17
Project Number: CI000020	Est. Completion Date: Aug-19
Budget Category: Business Tools	Supports Priority Area: Service Delivery
Project Type: Growth	
Discrete/Bundled: Discrete	Project Manager: Cameron Deacoff
Multi-Year: No	Asset Steward: Mgr, ICT Strategic Planning & Delivery

Project Summary

This project will acquire and process high resolution digital elevation data using lidar technology to generate digital elevation models necessary to develop coastal flooding vulnerability maps to protect the health and safety of Halifax residents. Halifax will share the lidar data and digital elevation models with surrounding communities and the public. The project is being conducted in three phases. In Phase 1, qualified contractors will be hired to collect high resolution digital elevation data. In Phase 2, qualified contractors will be hired to process the new data into digital elevation models. In Phase 3, staff will develop coastal flooding vulnerability maps by applying new digital elevation models to sea level rise projections arising from IPCC AR5 climate change scenarios. The project is cost-shared with federal government up to 50%. The ability to acquire, store and host the data, making it available to third parties (Open Data or otherwise) is a key goal for this initiative.

Total Project Budget: 2,400,000

Budget Estimate Confidence: +-25%

Project Budget by Year

Fiscal Year	Previously Approved	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Gross Budget:	2,400,000	-	-	-	-	2,400,000
Project Specific Funding:						
Reserves	-	-	-	-	-	-
Other Funding	-	-	-	-	-	-
Total Funding:	-	-	-	-	-	-
Net Budget:	2,400,000	-	-	-	-	2,400,000

Impact on Operating Budget:

No operational increases or decreases projected at this time.

Operating Impacts of Capital Budget / Lifecycle Cost

	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Ongoing Operating Costs (Savings)	-	-	-	-	-
One-time Operating Costs (Savings)	-	-	-	-	-

Detailed Work Plan for 2019/20:

	2019/20
Planned project initiatives include:	365,000
- Complete the processing of lidar data coastal flooding vulnerability assessment and mapping;	
- Complete coastal flooding vulnerability assessment and mapping.	
 Note: Remaining funds will be allocated for anticipated future Lidar project activities and initiatives.	 545,558
Total Estimated Work Plan	910,558
Less Projected Carry Forward from Previous Years	910,558
Gross Budget Request	-

2019/20 Capital Budget Form

Project Name: Office 365 Migration	Est. Start Date: Sep-18
Project Number: CI190007	Est. Completion Date: Sep-19
Budget Category: Business Tools	Supports Priority Area: Service Delivery
Project Type: Asset Renewal	
Discrete/Bundled: Discrete	Project Manager: Peter Cormier
Multi-Year: No	Asset Steward: Mgr, ICT Strategic Planning & Delivery

Project Summary

Microsoft Office 365 Migration Project is a corporate initiative to migrate over to the Office 365 platform services. This will include for example, Exchange online and OneDrive for Business (currently in-progress).

Total Project Budget: 150,000

Budget Estimate Confidence: +-25%

Project Budget by Year

Fiscal Year	Previously Approved	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Gross Budget:	-	150,000	-	-	-	150,000
Project Specific Funding:						
Reserves	-	-	-	-	-	-
Other Funding	-	-	-	-	-	-
Total Funding:	-	-	-	-	-	-
Net Budget:	-	150,000	-	-	-	150,000

Impact on Operating Budget:

No operational increases or decreases projected at this time.

Operating Impacts of Capital Budget / Lifecycle Cost

	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Ongoing Operating Costs (Savings)	-	-	-	-	-
One-time Operating Costs (Savings)	-	-	-	-	-

Detailed Work Plan for 2019/20:

	2019/20
Planned project activities will include:	150,000
- Implementation / Migration planning;	
- Solution Configuration;	
- Change Management activities;	
- Solution testing;	
- End User and Operations Group training;	
- Migration of corporate email accounts to Office 365 Exchange Online;	
- Migration of users' home drive data to Office 365 OneDrive for Business;	
- Solution transition to Operations Group.	
Total Estimated Work Plan	150,000
Less Projected Carry Forward from Previous Years	-
Gross Budget Request	150,000

2019/20 Capital Budget Form

Project Name:	Parking Technology	Est. Start Date:	Nov-17
Project Number:	CI990031	Est. Completion Date:	Mar-22
Budget Category:	Business Tools	Supports Priority Area:	Service Delivery
Project Type:	Growth		
Discrete/Bundled:	Discrete	Project Manager:	Martha Wilson
Multi-Year:	Yes	Asset Steward:	Manager, Parking Services

Project Summary

The Parking Technology initiative will replace the existing technology and functionality that supports parking payment, enforcement of parking and parking ticket payment. The project includes the procurement and implementation of an end-to-end integrated parking solution that includes parking payment (meter replacement), monitoring of parking (parking handhelds), enforcement, payment of parking fines, and reporting. Current parking meters are no longer available. A new parking technology solution will improve the citizen experience, aligning with expectations for more convenient means to access services such as payment for parking. For HRM the new solution will provide efficiencies in managing parking related business processes and will better support the operations, planning and strategic decision making pertaining to parking. In 2019-20 planned project activities will include the initiation of Phase 2 of the project which will include the detailed planning and design activities, implementation of digital parking pay stations, systems integration, configuration and training.

Total Project Budget: 5,420,000

Budget Estimate Confidence: +-25%

Project Budget by Year

Fiscal Year	Previously Approved	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Gross Budget:	2,338,000	1,682,000	650,000	750,000	-	5,420,000
Project Specific Funding:						
Q526 (Capital Fund Reserve)	2,138,000	1,682,000	650,000	750,000	-	5,220,000
Other Funding	-	-	-	-	-	-
Total Funding:	2,138,000	1,682,000	650,000	750,000	-	5,220,000
Net Budget:	200,000	-	-	-	-	200,000

Impact on Operating Budget:

- Estimated annual software subscription cost of \$50,000 for 2019-20 and additional \$25,000 beginning in 2021-22.
- Annual transaction & processing fees are estimated at \$204,900 for 2019-20 and additional \$600 for 2020-21.
- Annual consumable costs to support the implementation of the Parking Program are \$10,000 beginning in 2019-20.
- Annual Equipment Maintenance Inventory \$20,000 for 2019-20.
- Annual Equipment Maintenance Inventory \$20,000 for 2019-20.
- Additional staff person (including set-up costs) \$52,400 beginning for 2019/20 and \$10,500 beginning for 2020/21.
- One-time Contracted Services \$25,000 for 2019-20.

Operating Impacts of Capital Budget / Lifecycle Cost

	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Ongoing Operating Costs (Savings)	357,300	393,400	393,400	2,753,800	3,897,900
One-time Operating Costs (Savings)	25,000	-	-	-	25,000

Detailed Work Plan for 2019/20:

	2019/20
Planned project work includes implementation of parking technology solution .	3,561,854
Activities will include:	
- Project Management processional services;	
- Business Process Definition and Improvement;	
- Procurement of parking pay stations;	
- Integrations: Parking Management, Permit Management, Enforcement Management & Ticket Management	
- Mobile Payment Application Configuration and Deployment;	
- Administrative Systems Integration;	
- Change Management and Public Adoption;	
- Solution Integration Test and Validation;	
- Transition to Operations.	
Total Estimated Work Plan	3,561,854
Less Projected Carry Forward from Previous Years	1,879,854
Gross Budget Request	1,682,000

2019/20 Capital Budget Form

Project Name:	Permitting, Licensing, Compliance	Est. Start Date:	Jul-16
Project Number:	CI990013	Est. Completion Date:	Dec-20
Budget Category:	Business Tools	Supports Priority Area:	Service Delivery
Project Type:	Asset Renewal		
Discrete/Bundled:	Discrete	Project Manager:	Martha Wilson
Multi-Year:	Yes	Asset Steward:	Mgr, ICT Strategic Planning & Delivery

Project Summary

The existing Permitting, Licensing, and Compliance (PL&C) technology system, Hansen, is at the end of its useful life and a new technology solution has been selected. The new solution will improve Permitting, Licensing, Land Management and Compliance services for staff, clients, and the general public. It will enable improved access to online services for citizens, allowing for online payment and an ability to monitor progress on applications. For staff across the organization, it will streamline and standardize business processes, and will provide increased capabilities and access to information. The new solution will also provide improved access to information to support community engagement, strategic planning, records management, document management, performance metrics, and decision making. Planned activities for 2019-20 & 2020-21 will include completion of Release 1 initiatives and initiation of Releases 2 & 3.

Total Project Budget: 7,530,300

Budget Estimate Confidence: +10%

Project Budget by Year

Fiscal Year	Previously Approved	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Gross Budget:	4,675,300	1,050,000	1,805,000	-	-	7,530,300
Project Specific Funding:						
Reserves	-	-	-	-	-	-
Other Funding	-	-	-	-	-	-
Total Funding:	-	-	-	-	-	-
Net Budget:	4,675,300	1,050,000	1,805,000	-	-	7,530,300

Impact on Operating Budget:

- Permitting, Licensing, and Compliance Replacement Solution new subscription fees and ongoing support and maintenance. Projected costs of \$125,879 in 2019-20.
- New Microsoft licenses for office 365 and active directory. Projected costs \$25,000 in 2019-20.
- Increased data communication costs for remaining users) \$21,000 in 2019-20.
- On-Going Refresh MDM user licences. Projected costs of \$30,000 in 2019-20.
- On-Going Refresh MDM user licences. Projected costs of \$10,000 in 2019-20.
- Subscription fees and support and maintenance for new PL&C Modules. Projected costs of \$73,822 in 2020-21.

Operating Impacts of Capital Budget / Lifecycle Cost

	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Ongoing Operating Costs (Savings)	211,879	285,701	353,019	2,523,885	3,374,484
One-time Operating Costs (Savings)	-	-	-	-	-

Detailed Work Plan for 2019/20:

	2019/20
Planned project work will include the following solution components:	3,633,210
Permits, Customer Portal, Reports and Payments. Work activities will include:	
- System Configuration;	
- Change Management;	
- Testing; Training;	
- Implementation.	
Planning and Community Engagement. Activities will include:	
- System Configuration;	
- Change Management.	
Total Estimated Work Plan	3,633,210
Less Projected Carry Forward from Previous Years	2,583,210
Gross Budget Request	1,050,000

2019/20 Capital Budget Form

Project Name:	Portfolio Planning Tool	Est. Start Date:	May-22
Project Number:	CI200001	Est. Completion Date:	Oct-23
Budget Category:	Business Tools	Supports Priority Area:	Service Delivery
Project Type:	Asset Renewal		
Discrete/Bundled:	Discrete	Project Manager:	Duncan Gillis
Multi-Year:	Yes	Asset Steward:	Mgr, ICT Strategic Planning & Delivery

Project Summary

A Portfolio / Scorecard / Project Management Office (PMO) Tool set for management of projects in an organization from a high-level perspective to prioritize projects, plan and staff them realistically with qualified and available employees (resource management), monitor them, and keep all involved parties informed about their status. This search will also include the incorporation of a corporate scorecard tool and PMO Delivery support for ICT and Facility Design and Construction. This initiative will also explore if the same tool can be used to support capital budgeting. The linkages and dependency to the budget and financial numbers in SAP will also be rationalized.

Total Project Budget: 900,000

Budget Estimate Confidence: +-50%

Project Budget by Year

Fiscal Year	Previously Approved	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Gross Budget:	-	-	-	-	900,000	900,000
Project Specific Funding:						
Reserves	-	-	-	-	-	-
Other Funding	-	-	-	-	-	-
Total Funding:	-	-	-	-	-	-
Net Budget:	-	-	-	-	900,000	900,000

Impact on Operating Budget:

No operational increases or decreases projected at this time.

Operating Impacts of Capital Budget / Lifecycle Cost

	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Ongoing Operating Costs (Savings)	-	-	-	-	-
One-time Operating Costs (Savings)	-	-	-	-	-

Detailed Work Plan for 2019/20:

2019/20

Total Estimated Work Plan		-
Less Projected Carry Forward from Previous Years		
Gross Budget Request		-

2019/20 Capital Budget Form

Project Name: Public WiFi	Est. Start Date: Sep-17
Project Number: CI000021	Est. Completion Date: Mar-20
Budget Category: Business Tools	Supports Priority Area: Service Delivery
Project Type: Growth	
Discrete/Bundled: Discrete	Project Manager: Jennifer MacLeod
Multi-Year: No	Asset Steward: Mgr, ICT Strategic Planning & Delivery

Project Summary

The Capital Realm Improvement Campaign and the "Downtown I'm In" public consultation identified the implementation of Public Wi-Fi services in the urban core as key to revitalization, making the urban core more attractive to residents, businesses and developers and offering an enhanced experience to visitors and students.

In 2017 HRM Regional Council awarded a contract to Bell Aliant to provide a fully managed customized Public Wi-Fi Service to defined Wi-Fi sites within Halifax Regional Municipality (HRM) and make the benefits of Public Wi-Fi available to end users within the Public Wi-Fi sites. The initial Public Wi-Fi sites were identified as Dartmouth Waterfront Area, Halifax Waterfront Area, Grand Parade Square, Halifax Central Library, Halifax North Memorial Public Library and Alderney Gate Library.

Currently the public now has access to Public Wi-Fi at the Dartmouth and Halifax Waterfront Areas as well as Halifax Grand Parade. Implementation and deployment activities at the Library sites are in progress.

In 2019-20 planned project activities will include completion of Public Wi-Fi implementation and related transition activities for the remaining named sites.

Total Project Budget: 945,000

Budget Estimate Confidence: +25%

Project Budget by Year

Fiscal Year	Previously Approved	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Gross Budget:	945,000	-	-	-	-	945,000
Project Specific Funding:						
Reserves	-	-	-	-	-	-
Other Funding	-	-	-	-	-	-
Total Funding:	-	-	-	-	-	-
Net Budget:	945,000	-	-	-	-	945,000

Impact on Operating Budget:

No operational increases or decreases projected at this time.

Operating Impacts of Capital Budget / Lifecycle Cost

	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Ongoing Operating Costs (Savings)	-	-	-	-	-
One-time Operating Costs (Savings)	-	-	-	-	-

Detailed Work Plan for 2019/20:

	2019/20
Planned project activities will include completion of Public Wi-Fi implementation and related transition activities for the remaining named sites. Activities will include: - Implementation and configuration of technology; - Testing; - Training; - Deployment; - Transitions activities.	100,000
Note: Remaining funds will be allocated for future HRM planned expansion of Public Wi-Fi access.	421,889
Total Estimated Work Plan	521,889
Less Projected Carry Forward from Previous Years	521,889
Gross Budget Request	-

2019/20 Capital Budget Form

Project Name:	Recreation Services Software	Est. Start Date:	Jun-16
Project Number:	CI000005	Est. Completion Date:	Sep-20
Budget Category:	Business Tools	Supports Priority Area:	Service Delivery
Project Type:	Asset Renewal		
Discrete/Bundled:	Discrete	Project Manager:	Martha Wilson
Multi-Year:	Yes	Asset Steward:	Mgr, ICT Strategic Planning & Delivery

Project Summary

HRM is in the process of upgrading its recreation management registration solution using Legend. This new system enables the Municipality to better serve customers accessing its arenas, parks, recreation facilities, and fields. HRM currently has many recreational facilities that offer programs and services to citizens. These include municipally-owned and operated facilities, municipally-owned and contracted facilities and Multi-District Facilities (MDF). The implementation of Legend will provide one consistent and centralized recreation management solution across all facility types, providing an improved and consistent customer services. Specifically, the Recreation Software Services Project will provide the following functionality: Program set-up and multi-channel registration; membership management; facility scheduling; customer account management; payment; equipment loans and operational reporting. Implementation of Legend encompasses activities for analysis, business process review, configuration, interface design, testing, training, planning, change management, deployment planning, and support.

In 2019-20 and 2020-21, planned project activities focus on implementation and deployment of solution modules in the Multi-District Facilities.

Total Project Budget: 5,890,804

Budget Estimate Confidence: +-25%

Project Budget by Year

Fiscal Year	Previously Approved	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Gross Budget:	4,745,000	351,450	794,354	-	-	5,890,804
Project Specific Funding:						
Reserves	-	-	-	-	-	-
Other Funding	-	-	-	-	-	-
Total Funding:	-	-	-	-	-	-
Net Budget:	4,745,000	351,450	794,354	-	-	5,890,804

Impact on Operating Budget:

- Recreation Analyst {On-going} \$100,000 in 2019-20.
- Recreation Facility Schedulers (2 resources) {1-year term} \$130,000 in 2019-20.
- On-going enhancements \$50,000 in 2019-20.
- Banking Fees MDFs \$345,000 in 2019-20.
- On-going enhancements \$50,000 in 2020-21.
- Recreation Facility Schedulers (2 resources) {1-year term} \$130,000 in 2020-21.

Operating Impacts of Capital Budget / Lifecycle Cost

	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Ongoing Operating Costs (Savings)	495,000	668,000	668,000	4,676,000	6,507,000
One-time Operating Costs (Savings)	130,000	130,000	-	-	260,000

Detailed Work Plan for 2019/20:

	2019/20
Planned project work will include the implementation of the Legend solution in the following Multi District Facilities (MDFs): Dartmouth Sportsplex; Cole Harbour Place, St. Margaret's Centre, Halifax Form, Canada Games Centre and Centennial Pool. Activities will include: - System configuration; - Change Management; - Testing; - Training; - Deployment.	1,754,080
Total Estimated Work Plan	1,754,080
Less Projected Carry Forward from Previous Years	1,402,630
Gross Budget Request	351,450

2019/20 Capital Budget Form

Project Name:	Revenue & Financial Acct'g Mgmt	Est. Start Date:	Sep-17
Project Number:	CI990009	Est. Completion Date:	Dec-20
Budget Category:	Business Tools	Supports Priority Area:	Service Delivery
Project Type:	Asset Renewal		
Discrete/Bundled:	Discrete	Project Manager:	George Hayman
Multi-Year:	Yes	Asset Steward:	Mgr, ICT Strategic Planning & Delivery

Project Summary

The Municipality's updated SAP platform will include revenue, finance and accounting functionality. Replacement of the Revenue Management Solution, Hansen, is critical to the municipality as this solution is at end of life. The tight integration between Finance and Revenue will be completed with this project to improve business process and data for better decision making. The new solution will provide enhanced capabilities with many revenue related functions including and not limited to such functions as accounting, taxation, billing, and cash management.

Total Project Budget: 8,215,000

Budget Estimate Confidence: +-35%

Project Budget by Year

Fiscal Year	Previously Approved	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Gross Budget:	2,815,000	4,500,000	900,000	-	-	8,215,000
Project Specific Funding:						
Q631 (Debt Principal and Interest Repayment Reserve)	-	4,500,000	900,000	-	-	5,400,000
Other Funding	-	-	-	-	-	-
Total Funding:	-	4,500,000	900,000	-	-	5,400,000
Net Budget:	2,815,000	-	-	-	-	2,815,000

Impact on Operating Budget:

Annual support and maintenance costs (ASM) of \$229,000 SAP operational support costs beginning in 2019-20.

Operating Impacts of Capital Budget / Lifecycle Cost

	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Ongoing Operating Costs (Savings)	229,000	229,000	229,000	1,603,000	2,290,000
One-time Operating Costs (Savings)	-	-	-	-	-

Detailed Work Plan for 2019/20:

	2019/20
Planned project work will include planning and implementation initiatives:	7,245,550
Planning activities will include: - Development of functional requirements; - (Planning) Change Management; System/Technology Architecture; Implementation; - Request for Proposal Process - Finance solution (Accounting, Revenue and Procurement). - Procurement (SAP Solution / Implementation Services)	
Implementation activities will include: - Development of technical specifications; - Solution design and system configuration (Implementation); - Change Management; - Testing; - Development of Training materials; - Training of users; - Transition to Operations Support.	
Total Estimated Work Plan	7,245,550
Less Projected Carry Forward from Previous Years	2,745,550
Gross Budget Request	4,500,000

2019/20 Capital Budget Form

Project Name:	Road Disruption Mgmt Solution	Est. Start Date:	Apr-19
Project Number:	CI190008	Est. Completion Date:	Dec-19
Budget Category:	Business Tools	Supports Priority Area:	Service Delivery
Project Type:	Growth		
Discrete/Bundled:	Discrete	Project Manager:	Frans Sanders
Multi-Year:	Yes	Asset Steward:	Mgr, ICT Strategic Planning & Delivery

Project Summary

The Road Disruption Management project will implement a technology solution that enables the coordination of planned and unplanned road and lane closures and communicates responses including alternate routes and detour. The solution must also provide the ability to visualize capital and operational project events on a viewable public map (i.e. an application that shows where work is occurring throughout HRM.)

Total Project Budget: 284,000

Budget Estimate Confidence: +-50%

Project Budget by Year

Fiscal Year	Previously Approved	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Gross Budget:	-	284,000	-	-	-	284,000
Project Specific Funding:						
Reserves	-	-	-	-	-	-
Other Funding	-	-	-	-	-	-
Total Funding:	-	-	-	-	-	-
Net Budget:	-	284,000	-	-	-	284,000

Impact on Operating Budget:

No operational increases or decreases projected at this time.

Operating Impacts of Capital Budget / Lifecycle Cost

	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Ongoing Operating Costs (Savings)	-	-	-	-	-
One-time Operating Costs (Savings)	-	-	-	-	-

Detailed Work Plan for 2019/20:

	2019/20
Planned project activities will include development and implementation of public facing closure solution.	284,000
Activities will include:	
- Define and document project requirements;	
- Define Change Management Strategy;	
- Define Implementation Strategy;	
- Define Project Architecture;	
- System & Service Configuration;	
- Change Management Activities;	
- Product & Service Testing;	
- Product and Service Training;	
- Enhancement of existing road closure and street encroachment function;	
- Integration with internal systems, e.g. MNS, CityWorks, CAD, PVM, etc.;	
- Integration with 3rd parties, e.g. Halifax Water, Nova Scotia Power, Province of Nova Scotia;	
- Transition Project To Operations.	
Total Estimated Work Plan	284,000
Less Projected Carry Forward from Previous Years	
Gross Budget Request	284,000

2019/20 Capital Budget Form

Project Name: SAP Optimization	Est. Start Date: Annual Program
Project Number: CIN00200	Est. Completion Date: Annual Program
Budget Category: Business Tools	Supports Priority Area: Service Delivery
Project Type: Asset Renewal	
Discrete/Bundled: Bundled	Project Manager: Sarah Teal
Multi-Year: No	Asset Steward: Mgr, ICT Strategic Planning & Delivery

Project Summary

This SAP Optimization project will enable continuous planning and implementation of SAP enhancements for internal and external service delivery, with an objective of providing greater efficiencies in areas including but not limited to: reporting, governance, risk and compliance and various other SAP enhancement projects. This will ensure the solution remains up to date and in a state of good repair.

Total Project Budget: n/a

Budget Estimate Confidence: +-25%

Project Budget by Year

Fiscal Year	Previously Approved	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Gross Budget:	2,054,813	400,000	400,000	400,000	900,000	4,154,813
Project Specific Funding:						
Reserves	-	-	-	-	-	-
Other Funding	-	-	-	-	-	-
Total Funding:	-	-	-	-	-	-
Net Budget:	2,054,813	400,000	400,000	400,000	900,000	4,154,813

Impact on Operating Budget:

- Annual support and maintenance costs (ASM) of \$500,000 for SAP annual enhancements.
- An additional \$500,000 of dollars has also been projected for additional operational business resources to support the new SAP services as they roll out in Human Resources and Finance.

Operating Impacts of Capital Budget / Lifecycle Cost

	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Ongoing Operating Costs (Savings)	1,000,000	1,000,000	1,000,000	7,000,000	10,000,000
One-time Operating Costs (Savings)	-	-	-	-	-

Detailed Work Plan for 2019/20:

	2019/20
Planned project activities will include:	910,260
- Ongoing SAP platform maintenance and issue resolution;	
- Program Management;	
- Change Management;	
- Integration Management;	
- SAP lifecycle planning;	
- Requirements gathering for Operational enhancements;	
- Aligning SAP architecture across program and operational releases;	
- Updates to SAP architecture.	
Total Estimated Work Plan	910,260
Less Projected Carry Forward from Previous Years	510,260
Gross Budget Request	400,000

2019/20 Capital Budget Form

Project Name: SAP Procurement	Est. Start Date: Jan-19
Project Number: CI190001	Est. Completion Date: Dec-20
Budget Category: Business Tools	Supports Priority Area: Service Delivery
Project Type: Asset Renewal	
Discrete/Bundled: Discrete	Project Manager: Martha Wilson
Multi-Year: Yes	Asset Steward: Mgr, ICT Strategic Planning & Delivery

Project Summary

SAP S/4 HANA is a cloud based solution that covers all operational procurement processes including but not limited to, purchase requisitioning, invoice processing and operational contract management. The procurement process is further supported by real-time embedded analytics across all spend segments improving the performance and visibility for procurement. Procurement will also be further enhanced by adding e-bidding to offer streamlined processes from proponents to the procurement office.

Total Project Budget: 3,000,000

Budget Estimate Confidence: +-35%

Project Budget by Year

Fiscal Year	Previously Approved	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Gross Budget:	-	2,500,000	500,000	-	-	3,000,000
Project Specific Funding:						
Q631 (Debt Principal and Interest Repayment Reserve)	-	2,500,000	500,000	-	-	3,000,000
Other Funding	-	-	-	-	-	-
Total Funding:	-	2,500,000	500,000	-	-	3,000,000
Net Budget:	-	-	-	-	-	-

Impact on Operating Budget:

No operational increases or decreases projected at this time.

Operating Impacts of Capital Budget / Lifecycle Cost

	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Ongoing Operating Costs (Savings)	-	-	-	-	-
One-time Operating Costs (Savings)	-	-	-	-	-

Detailed Work Plan for 2019/20:

	2019/20
Planned project activities will include:	2,500,000
- Securing software as a service (SaaS) licenses;	
- Blueprint development;	
- Business process mapping;	
- Development of the Solution; interface development; testing;	
- Change Management and communications;	
- Solution implementation and deployment.	
Total Estimated Work Plan	2,500,000
Less Projected Carry Forward from Previous Years	
Gross Budget Request	2,500,000

2019/20 Capital Budget Form

Project Name: Situational Awareness	Est. Start Date: Jun-16
Project Number: CI990035	Est. Completion Date: Dec-19
Budget Category: Business Tools	Supports Priority Area: Healthy, Livable Communities
Project Type: Growth	
Discrete/Bundled: Discrete	Project Manager: Frans Sanders
Multi-Year: No	Asset Steward: Mgr, ICT Strategic Planning & Delivery

Project Summary

When responding to a disaster, emergency or another type of significant event, the primary goal is to develop a "shared situational awareness" to support the development of an overall coordinated response, "Common Operating Picture" (COP), which is graphically represented and often overlaid onto maps. HRM requires a modern, robust and scalable solution for the collection and sharing of situational information which will be available to responding organizations in a timely manner as they respond to an emergency event.

Total Project Budget: 638,000

Budget Estimate Confidence: +-25%

Project Budget by Year

Fiscal Year	Previously Approved	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Gross Budget:	638,000	-	-	-	-	638,000
Project Specific Funding:						
Reserves	-	-	-	-	-	-
Other Funding	-	-	-	-	-	-
Total Funding:	-	-	-	-	-	-
Net Budget:	638,000	-	-	-	-	638,000

Impact on Operating Budget:

No operational increases or decreases projected at this time.

Operating Impacts of Capital Budget / Lifecycle Cost

	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Ongoing Operating Costs (Savings)	-	-	-	-	-
One-time Operating Costs (Savings)	-	-	-	-	-

Detailed Work Plan for 2019/20:

	2019/20
Project activities will include:	40,000
- Improve use of AVL Data	
- Integration with WeBEOC	
Total Estimated Work Plan	40,000
Less Projected Carry Forward from Previous Years	40,000
Gross Budget Request	-

2019/20 Capital Budget Form

Project Name: Web Transformation	Est. Start Date: May-13
Project Number: CI000001	Est. Completion Date: Mar-19
Budget Category: Business Tools	Supports Priority Area: Service Delivery
Project Type: Growth	
Discrete/Bundled: Discrete	Project Manager: Corinne MacCormack
Multi-Year: Yes	Asset Steward: Mgr, ICT Strategic Planning & Delivery

Project Summary

A 2014 HRM Web and Digital Transformation Strategy and Roadmap defined 16 multi-phased projects to be undertaken that would result in a transformed online presence to better service citizens and businesses. A Request for Proposal (RFP) was awarded to FCV Technologies Ltd. to implement, host, manage and support the new website solution in a Microsoft Cloud . HRM with its partner FCV, have continued to implement prioritized projects identified in the Web Transformation Roadmap. In addition, new initiatives identified are being evaluated and prioritized into a work plan accordingly.

For 2019-20 and 2020-21 key initiatives will include development and implementation of a corporate Identity Management solution (Pilot project) that will enable customers accessing HRM services online to leverage a unique identifier which will allow them to more easily and conveniently access services they wish to consume.

Other planned initiatives include multiple smaller projects that will leverage Halifax's public website to provide improved self-service capabilities for customers.

Total Project Budget: 2,796,000

Budget Estimate Confidence: +-25%

Project Budget by Year

Fiscal Year	Previously Approved	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Gross Budget:	2,796,000	-	-	-	-	2,796,000
Project Specific Funding:						
Reserves	-	-	-	-	-	-
Other Funding	-	-	-	-	-	-
Total Funding:	-	-	-	-	-	-
Net Budget:	2,796,000	-	-	-	-	2,796,000

Impact on Operating Budget:

No operational increases or decreases projected at this time.

Operating Impacts of Capital Budget / Lifecycle Cost

	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Ongoing Operating Costs (Savings)	-	-	-	-	-
One-time Operating Costs (Savings)	-	-	-	-	-

Detailed Work Plan for 2019/20:

2019/20

Planned projects include will include the following initiatives	275,636
Identity Management Pilot - Work closely with the Nova Scotia Provincial Government to develop Pilot solution for "Identity Management", streamlining customer access to online services.	
Online Access to Halifax Data - Provide customers with convenient access to Open Data via Halifax.ca website.	
FAQ* Interactive tool - Provide customers with improved self-service capabilities when looking for answers to common questions via the Halifax.ca Website. *FAQ = Frequently Asked Questions	
Total Estimated Work Plan	275,636
Less Projected Carry Forward from Previous Years	275,636
Gross Budget Request	-

Tab - Equipment & Fleet

Equipment and Fleet

Page #	Project Name	Old Project #	New Project #	2019/20 Workplan	2019/20 Carry Forward	2019/20 Gross	2019/20 Funding	2019/20 Net
C1	Fire Apparatus Replacement	CE180002	CE180002	3,805,938	25,938	3,780,000	-	3,780,000
C2	Fire Services Equip Replacement	CE180004	CE180004	1,406,200	276,200	1,130,000	-	1,130,000
C3	Fire Services Water Supply	CE010002	CE190001	139,943	64,943	75,000	-	75,000
C4	Fire/Rescue Boat Replacement	Fleet1	CE190006	1,300,000	-	1,300,000	1,300,000	-
C5	Fleet Vehicle Replacement	CE180001	CE180001	3,461,797	1,294,797	2,167,000	417,000	1,750,000
C6	Ice Resurfacers Replacement	CVU01207	CE190005	255,816	149,816	106,000	-	106,000
C7	Police Fleet Replacement	CE180003	CE180003	1,650,266	1,650,266	-	-	-
C8	Police Services Equip Replacement	CE020001	CE190002	250,000	-	250,000	-	250,000
C9	Police Vehicle Equipment	CVK01207	CE190004	200,000	-	200,000	-	200,000
Grand Total				12,469,960	3,461,960	9,008,000	1,717,000	7,291,000

2019/20 Capital Budget Form

Project Name: Fire Apparatus Replacement	Est. Start Date: Annual Program
Project Number: CE180002	Est. Completion Date: Annual Program
Budget Category: Equipment & Fleet	Supports Priority Area: Healthy, Livable Communities
Project Type: Asset Renewal	
Discrete/Bundled: Bundled	Project Manager: Scott Sears
Multi-Year: Yes	Asset Steward: Manager, Corporate Fleet

Project Summary

Halifax Regional Fire and Emergency (HRFE) requires a substantial replacement of fire apparatus over the next three fiscal years. HRFE worked with Emergency Fleet to review the list of vehicles planned for replacement over the next three years. It was determined that a substantial number of engines are required to be replaced. The plan will be to work with Corporate Procurement to develop a multi-year vehicle replacement plan, designed to standardize the type of vehicles used by HRFE. The three year plan has up to 8 Engines, 1 Tactical Support Unit, 1 Platform, and a number of light utility vehicles.

Total Project Budget: n/a

Budget Estimate Confidence: +-10%

Project Budget by Year

Fiscal Year	Previously Approved	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Gross Budget:	3,825,170	3,780,000	3,850,000	3,850,000	25,380,000	40,685,170
Project Specific Funding:						
Reserves	-	-	-	-	-	-
Other Funding	-	-	-	-	-	-
Total Funding:	-	-	-	-	-	-
Net Budget:	3,825,170	3,780,000	3,850,000	3,850,000	25,380,000	40,685,170

Impact on Operating Budget:

As these units are replacements, there is no incremental operating cost. Even though older apparatus are being replaced, there is not a significant savings to the Operating Budget. Regardless of age, all apparatus are required to have regular maintenance. Damage repairs are also not dependent on age. Corrosion repairs and engine repairs/rebuilds are the most significant difference in maintenance costs for older apparatus versus new apparatus.

Operating Impacts of Capital Budget / Lifecycle Cost

	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Ongoing Operating Costs (Savings)	-	-	-	-	-
One-time Operating Costs (Savings)	-	-	-	-	-

Detailed Work Plan for 2019/20:

	2019/20
Engines (4)	3,000,000
Light Support vehicles	526,000
Upfitting and equipment for emergency vehicles	279,938
Total Estimated Work Plan	3,805,938
Less Projected Carry Forward from Previous Years	25,938
Gross Budget Request	3,780,000

2019/20 Capital Budget Form

Project Name:	Fire Services Equip Replacement	Est. Start Date:	Annual Program
Project Number:	CE180004	Est. Completion Date:	Annual Program
Budget Category:	Equipment & Fleet	Supports Priority Area:	Healthy, Livable Communities
Project Type:	Asset Renewal		
Discrete/Bundled:	Bundled	Project Manager:	Roy Hollett
Multi-Year:	Yes	Asset Steward:	Deputy Chief Logistics & Support

Project Summary

Items part of HRFE's annual replacement / repair of equipment and personal protective equipment for approximately 1,000 operational firefighters over 52 Fire Stations for 109 Large (Heavy) Apparatus. Items on this list are replaced due to Provincial Safety Legislation, requiring various Personal Protective Equipment to be replaced at specific timelines.

Total Project Budget: n/a

Budget Estimate Confidence: +10%

Project Budget by Year

Fiscal Year	Previously Approved	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Gross Budget:	1,579,003	1,130,000	1,130,000	1,078,000	8,607,600	13,524,603
Project Specific Funding:						
Reserves	-	-	-	-	-	-
Other Funding	-	-	-	-	-	-
Total Funding:	-	-	-	-	-	-
Net Budget:	1,579,003	1,130,000	1,130,000	1,078,000	8,607,600	13,524,603

Impact on Operating Budget:

As these units are replacements, there is no incremental operating cost

Operating Impacts of Capital Budget / Lifecycle Cost

	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Ongoing Operating Costs (Savings)	-	-	-	-	-
One-time Operating Costs (Savings)	-	-	-	-	-

Detailed Work Plan for 2019/20:

	2019/20
Truck Ladders	45,000
Fire hose replacement	65,000
Forestry Pumps	25,000
Thermal imaging cameras	30,000
Exhaust Fans	29,000
Bunker Gear	450,000
Boots, flash hoods, gloves, helmets	145,000
Heavy Lift Bags	19,000
Equipment for New Trucks	319,200
Breathing Air Compressors (Stns 3 & 17)	52,000
Handheld LED lights	37,000
Drones	50,000
Appliances, Mowers, Snow blowers	40,000
Portable Radios / Pagers / IAR (I Am Responding)	100,000
Total Estimated Work Plan	1,406,200
Less Projected Carry Forward from Previous Years	276,200
Gross Budget Request	1,130,000

2019/20 Capital Budget Form

Project Name: Fire Services Water Supply	Est. Start Date: Annual Program
Project Number: CE190001	Est. Completion Date: Annual Program
Budget Category: Equipment & Fleet	Supports Priority Area: Healthy, Livable Communities
Project Type: Asset Renewal	
Discrete/Bundled: Bundled	Project Manager: Gordon West
Multi-Year: Yes	Asset Steward: Deputy Chief Logistics & Support

Project Summary

Provide ongoing dry hydrants for the Rural Fire Service.

Total Project Budget: n/a

Budget Estimate Confidence: +-10%

Project Budget by Year

Fiscal Year	Previously Approved	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Gross Budget:	550,000	75,000	-	-	1,050,000	1,675,000
Project Specific Funding:						
Reserves	-	-	-	-	-	-
Other Funding	-	-	-	-	-	-
Total Funding:	-	-	-	-	-	-
Net Budget:	550,000	75,000	-	-	1,050,000	1,675,000

Impact on Operating Budget:

As maintenance and replacement is funded from capital, there is no impact on the operating budget.

Operating Impacts of Capital Budget / Lifecycle Cost

	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Ongoing Operating Costs (Savings)	-	-	-	-	-
One-time Operating Costs (Savings)	-	-	-	-	-

Detailed Work Plan for 2019/20:

	2019/20
Maintenance/replacement of old hydrants and installation of new hydrants when needed.	139,943
Total Estimated Work Plan	139,943
Less Projected Carry Forward from Previous Years	64,943
Gross Budget Request	75,000

2019/20 Capital Budget Form

Project Name:	Fire/Rescue Boat Replacement	Est. Start Date:	Apr-19
Project Number:	CE190006	Est. Completion Date:	Mar-20
Budget Category:	Equipment & Fleet	Supports Priority Area:	Service Delivery
Project Type:	Asset Renewal		
Discrete/Bundle:	Discrete	Project Manager:	Roy Hollett
Multi-Year:	No	Asset Steward:	Manager, Corporate Fleet

Project Summary

HRF&E's Rigid Hull Inflatable Boat (RHIB) "Fire and Rescue Boat" was acquired from a local company providing water services for a movie shoot (1999). HRF&E purchased the boat in 2001 and modified it to fit a forestry pump and water monitor, as a means to provide a level of service on the harbor which was not being provided. RHIB's have a continuous service lifespan of 8-10yrs in salt water environments. HRF&E's RHIB has been in service for 17 years and the additional years of service has contributed to the increasing maintenance costs. The boat currently requires \$20,000 for new inflatable pontoons and even with this repair, it does not provide a guarantee extension of its serviceable life. The installed forestry pump lacks sufficient water flow required to provide shoreline fire suppression operations. HRF&E is pursuing an acquisition of a boat designed to provide safe firefighting and rescue operations for Firefighters and HRM Residents. A safely designed boat will permit HRF&E to provide a safe service in shallows, provide adequate fire flow from numerous monitors, and provide a stable crew housing for all types of inclement weather. HRF&E would work with Fire Service Fire Boat Manufactures to ensure the boat meets the Canadian Small Vessel Regulations, TP 7301 Stability, Subdivision, and Load Line Standards.

Boat Justification/Requirements:

1. Provide master streams from the marine side
2. Provide marine firefighting platform
3. Marine access for shoreline and remote rescue
4. Rescue boat for water rescue
5. Shallow water rescue/access
6. Year round crew and passenger environmental protection (weather)
7. Stability/rescue platform
8. Adequate power and speed
9. Rail line – water supply for fires and Haz Mat application

Total Project Budget: 1,300,000

Budget Estimate Confidence: +-25%

Project Budget by Year

Fiscal Year	Previously Approved	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Gross Budget:	-	1,300,000	-	-	-	1,300,000
Project Specific Funding:						
Q421 (General Contingency Reserve)	-	1,300,000	-	-	-	1,300,000
Other Funding	-	-	-	-	-	-
Total Funding:	-	1,300,000	-	-	-	1,300,000
Net Budget:	-	-	-	-	-	-

Impact on Operating Budget:

As this is a replacement, there should be minimal change to operating costs.

Operating Impacts of Capital Budget / Lifecycle Cost

	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Ongoing Operating Costs (Savings)	-	-	-	-	-
One-time Operating Costs (Savings)	-	-	-	-	-

Detailed Work Plan for 2019/20:

	2019/20
Purchase of replacement boat	1,300,000
Total Estimated Work Plan	1,300,000
Less Projected Carry Forward from Previous Years	-
Gross Budget Request	1,300,000

2019/20 Capital Budget Form

Project Name: Fleet Vehicle Replacement	Est. Start Date: Annual Program
Project Number: CE180001	Est. Completion Date: Annual Program
Budget Category: Equipment & Fleet	Supports Priority Area: Service Delivery
Project Type: Asset Renewal	
Discrete/Bundled: Bundled	Project Manager: Scott Sears
Multi-Year: Yes	Asset Steward: Manager, Corporate Fleet

Project Summary

There are approximately 441 vehicles used for Transportation & Public Works, Finance & Asset Management, Parks & Recreation, Planning & Development, Corporate & Customer Services, and Library Services, with approximately 15 types ranging from cars to large snow removal vehicles. The scheduled useful life of these vehicles is 7 to 20 years. Vehicles that have reached the end of their useful life are removed from service and new units are purchased.

Total Project Budget: n/a

Budget Estimate Confidence: +5%

Project Budget by Year

Fiscal Year	Previously Approved	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Gross Budget:	3,379,337	2,167,000	1,700,000	2,000,000	15,800,000	25,046,337
Project Specific Funding:						
Q421 (General Contingency Reserve)	-	417,000	-	-	-	417,000
Other Funding	-	-	-	-	-	-
Total Funding:	-	417,000	-	-	-	417,000
Net Budget:	3,379,337	1,750,000	1,700,000	2,000,000	15,800,000	24,629,337

Impact on Operating Budget:

As these units are replacements, there is no incremental operating cost

Operating Impacts of Capital Budget / Lifecycle Cost

	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Ongoing Operating Costs (Savings)	-	-	-	-	-
One-time Operating Costs (Savings)	-	-	-	-	-

Detailed Work Plan for 2019/20:

	2019/20
4 Snow plows	1,200,000
Various: aerial truck, articulating loaders, tractors, and other light vehicles & equipment	967,000
2 Snow Plows	690,000
Various: 1 Street Sweeper; hatchbacks; utility tractor	604,797
Total Estimated Work Plan	3,461,797
Less Projected Carry Forward from Previous Years	1,294,797
Gross Budget Request	2,167,000

2019/20 Capital Budget Form

Project Name: Ice Resurfacer Replacement	Est. Start Date: Annual Program
Project Number: CE190005	Est. Completion Date: Annual Program
Budget Category: Equipment & Fleet	Supports Priority Area: Healthy, Livable Communities
Project Type: Asset Renewal	
Discrete/Bundled: Bundled	Project Manager: Scott Sears
Multi-Year: Yes	Asset Steward: Manager, Corporate Fleet

Project Summary

HRM operates directly, or supports the operation of many of the ice surfaces in HRM. This project is for the replacement of one ice resurfacer per year. Parks & Recreation determines annually which unit is in need of replacement and collaborates with Corporate Fleet on the purchase. HRM currently owns 10 ice resurfacers; this account allows one unit to be replaced each year, on average.

Total Project Budget: n/a

Budget Estimate Confidence: +5%

Project Budget by Year

Fiscal Year	Previously Approved	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Gross Budget:	974,000	106,000	125,000	125,000	875,000	2,205,000
Project Specific Funding:						
Reserves	-	-	-	-	-	-
Other Funding	-	-	-	-	-	-
Total Funding:	-	-	-	-	-	-
Net Budget:	974,000	106,000	125,000	125,000	875,000	2,205,000

Impact on Operating Budget:

As the unit would be a replacement, there is no incremental operating cost

Operating Impacts of Capital Budget / Lifecycle Cost

	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Ongoing Operating Costs (Savings)	-	-	-	-	-
One-time Operating Costs (Savings)	-	-	-	-	-

Detailed Work Plan for 2019/20:

	2019/20
1 unit for Spryfield Arena	125,408
1 unit for Cole Harbour Place	130,408
Total Estimated Work Plan	255,816
Less Projected Carry Forward from Previous Years	149,816
Gross Budget Request	106,000

2019/20 Capital Budget Form

Project Name:	Police Fleet Replacement	Est. Start Date:	Annual Program
Project Number:	CE180003	Est. Completion Date:	Annual Program
Budget Category:	Equipment & Fleet	Supports Priority Area:	Healthy, Livable Communities
Project Type:	Asset Renewal		
Discrete/Bundled:	Bundled	Project Manager:	Scott Sears
Multi-Year:	Yes	Asset Steward:	Manager, Corporate Fleet

Project Summary

Halifax Regional Municipality Police Services has a fleet of 260 vehicles to provide services to the public. The fleet is comprised of vehicles used for patrol, investigation, SWAT surveillance and a variety of other services. This project is for the annual replacement of vehicles that have reached the end of their useful life. The majority of the fleet are patrol vehicles that endure heavy use and typically only last two to three years. Replaced vehicles are first stripped of any reusable equipment then are sold at auction with proceeds going to the Fleet Replacement reserve.

Total Project Budget: n/a

Budget Estimate Confidence: +-5%

Project Budget by Year

Fiscal Year	Previously Approved	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Gross Budget:	2,476,756	-	1,400,000	1,900,000	13,950,000	19,726,756
Project Specific Funding:						
Q531 (Fleet Vehicles & Equipment Reserve)	2,476,756	-	600,000	-	-	3,076,756
Other Funding	-	-	-	-	-	-
Total Funding:	2,476,756	-	600,000	-	-	3,076,756
Net Budget:	-	-	800,000	1,900,000	13,950,000	16,650,000

Impact on Operating Budget:

Majority units would be a replacements of comparable units, thus is no incremental operating cost. Incremental for boat, bomb truck, and armoured vehicle (to be determined).

Operating Impacts of Capital Budget / Lifecycle Cost

	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Ongoing Operating Costs (Savings)	-	-	-	-	-
One-time Operating Costs (Savings)	-	-	-	-	-

Detailed Work Plan for 2019/20:

	2019/20
Replacement of both marked and unmarked police vehicles	836,266
Armoured vehicle	500,000
Bomb truck	314,000
Total Estimated Work Plan	1,650,266
Less Projected Carry Forward from Previous Years	1,650,266
Gross Budget Request	-

2019/20 Capital Budget Form

Project Name: Police Services Equip Replacement	Est. Start Date: Annual Program
Project Number: CE190002	Est. Completion Date: Annual Program
Budget Category: Equipment & Fleet	Supports Priority Area: Healthy, Livable Communities
Project Type: Asset Renewal	
Discrete/Bundled: Bundled	Project Manager: Craig Horton
Multi-Year: Yes	Asset Steward: Supt. of Admin., Halifax Regional Police

Project Summary

This project is required for the ongoing replacement of police services equipment that has reached the end of its useful life. This equipment includes several forms of personal protective equipment (PPE) including ballistic vests, helmets, shields, etc. all worn or used by officers in the line of duty. There are several forms of firearms, and firearm accessories used by officers to carry out their duties. There are also specific investigative police equipment and training equipment that will be funded through this ongoing project.

Total Project Budget: n/a

Budget Estimate Confidence: +-5%

Project Budget by Year

Fiscal Year	Previously Approved	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Gross Budget:	2,477,700	250,000	420,000	500,000	4,000,000	7,647,700
Project Specific Funding:						
Reserves	-	-	-	-	-	-
Other Funding	-	-	-	-	-	-
Total Funding:	-	-	-	-	-	-
Net Budget:	2,477,700	250,000	420,000	500,000	4,000,000	7,647,700

Impact on Operating Budget:

This is all replacement equipment with no operating budget impact.

Operating Impacts of Capital Budget / Lifecycle Cost

	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Ongoing Operating Costs (Savings)	-	-	-	-	-
One-time Operating Costs (Savings)	-	-	-	-	-

Detailed Work Plan for 2019/20:

	2019/20
Equipment purchases will be prioritized based on need and as older equipment reaches the end of its useful life.	250,000
Total Estimated Work Plan	250,000
Less Projected Carry Forward from Previous Years	-
Gross Budget Request	250,000

2019/20 Capital Budget Form

Project Name:	Police Vehicle Equipment	Est. Start Date:	Annual Program
Project Number:	CE190004	Est. Completion Date:	Annual Program
Budget Category:	Equipment & Fleet	Supports Priority Area:	Service Delivery
Project Type:	Asset Renewal		
Discrete/Bundled:	Bundled	Project Manager:	Scott Sears
Multi-Year:	Yes	Asset Steward:	Manager, Corporate Fleet

Project Summary

This project is for replacement of police services vehicle equipment. Purchases will be prioritized based on need, and as older equipment reach the end of their useful life. This equipment is associated with specific vehicles and typically includes items such as lighting, weapons security, electrical and mechanical systems, and officer and prisoner containment.

Total Project Budget: n/a

Budget Estimate Confidence: +5%

Project Budget by Year

Fiscal Year	Previously Approved	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Gross Budget:	375,000	200,000	200,000	225,000	1,400,000	2,400,000
Project Specific Funding:						
Reserves	-	-	-	-	-	-
Other Funding	-	-	-	-	-	-
Total Funding:	-	-	-	-	-	-
Net Budget:	375,000	200,000	200,000	225,000	1,400,000	2,400,000

Impact on Operating Budget:

This equipment will be installed on the replacement police vehicles, thus there would be no incremental operating cost

Operating Impacts of Capital Budget / Lifecycle Cost

	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Ongoing Operating Costs (Savings)	-	-	-	-	-
One-time Operating Costs (Savings)	-	-	-	-	-

Detailed Work Plan for 2019/20:

	2019/20
Vehicle equipment purchases	200,000
Total Estimated Work Plan	200,000
Less Projected Carry Forward from Previous Years	-
Gross Budget Request	200,000

Tab - Halifax Transit

Page #	Project Name	Old Project #	New Project #	2019/20 Workplan	2019/20 Carry Forward	2019/20 Gross	2019/20 Funding	2019/20 Net
D1	Access-A-Bus Replacement	CVD00430	CVD00430	634,327	54,327	580,000	-	580,000
D2	Burnside Transit Centre Roof Repairs	CB000082	CB000082	3,678,847	878,847	2,800,000	-	2,800,000
D3	Bus Maintenance Equip Replace	CM000005	CM000005	335,764	335,764	-	-	-
D4	Bus Stop Accessibility/Improve	CM000012	CM190002	350,000	-	350,000	-	350,000
D5	Conventional Bus Replacement	CV020006	CV020006	15,734,174	334,174	15,400,000	6,160,000	9,240,000
D6	Ferry Refit	CM180007	CM180007	476,413	188,413	288,000	-	288,000
D7	Ferry Terminal Pontoon Rehab	CBX01171	CBX01171	-	-	-	-	-
D8	Halifax Ferry Terminal	CB000039	CB000039	278,792	278,792	-	-	-
D9	MFTP Implementation	CM180008	CM180008	7,624,376	23,376	7,601,000	2,000,000	5,601,000
D10	Mid-Life Bus Rebuild	CM180004	CM180004	284,158	108,158	176,000	-	176,000
D11	New Transit Technology	CM180005	CM180005	10,638,222	10,138,222	500,000	-	500,000
D12	Sustainable Fuel Strategy	CM180001	CM180001	116,594	116,594	-	-	-
D13	Transit Facility Invest Strategy	CB000016	CB000016	535,572	35,572	500,000	121,000	379,000
D14	Transit Priority Measures	CM000009	CM000009	974,536	334,536	640,000	-	640,000
D15	Transit Priority Measures Corridors	CM000014	CM000014	3,501,127	1,127	3,500,000	3,500,000	-
D16	Transit Strategy	CMU01095	CMU01095	192,671	192,671	-	-	-
D17	Transit Support Vehicle Replace	CV000004	CV000004	-	-	-	-	-
D18	Woodside Ferry Terminal Upgrade	CB000042	CB000042	2,494,318	494,318	2,000,000	-	2,000,000
Grand Total				47,849,891	13,514,891	34,335,000	11,781,000	22,554,000

2019/20 Capital Budget Form

Project Name: Access-A-Bus Replacement	Est. Start Date: Apr-19
Project Number: CVD00430	Est. Completion Date: Mar-20
Budget Category: Halifax Transit	Supports Priority Area: Transportation
Project Type: Asset Renewal	
Discrete/Bundled: Bundled	Project Manager: Jacqueline Pepper, William Cutler
Multi-Year: No	Asset Steward: Manager, Bus Maintenance

Project Summary

This project includes the replacement of the para-transit fleet vehicles at the end of their useful life. Replacing older Access-A-Bus vehicles ensures safe and reliable para-transit service delivery; reduces maintenance costs and generally provides for a more environmentally-friendly public transportation system.

Total Project Budget: n/a

Budget Estimate Confidence: +-10%

Project Budget by Year

Fiscal Year	Previously Approved	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Gross Budget:	7,096,183	580,000	1,275,000	990,000	8,731,072	18,672,255
Project Specific Funding:						
Reserves	-	-	-	-	-	-
Other Funding	-	-	-	-	-	-
Total Funding:	-	-	-	-	-	-
Net Budget:	7,096,183	580,000	1,275,000	990,000	8,731,072	18,672,255

Impact on Operating Budget:

There will be no significant change to the Operating Budget as a result of this project. If the buses are not replaced during this timeline, the Operating budget will increase slightly in 2020/2021.

Operating Impacts of Capital Budget / Lifecycle Cost

	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Ongoing Operating Costs (Savings)	-	-	-	-	-
One-time Operating Costs (Savings)	-	-	-	-	-

Detailed Work Plan for 2019/20:

	2019/20
Delivery of up to 6 buses by March 31, 2020	634,327
Total Estimated Work Plan	634,327
Less Projected Carry Forward from Previous Years	54,327
Gross Budget Request	580,000

2019/20 Capital Budget Form

Project Name: Burnside Transit Ctr Roof Repairs	Est. Start Date: Jun-18
Project Number: CB000082	Est. Completion Date: Mar-20
Budget Category: Halifax Transit	Supports Priority Area: Transportation
Project Type: Asset Renewal	
Discrete/Bundled: Discrete	Project Manager: John MacPherson
Multi-Year: Yes	Asset Steward: Mgr, Mun. Facilities Maintenance/Ops

Project Summary

The Burnside Transit Centre provides for maintenance and storage of buses. The roof and rooftop air handling units have reached the end of their useful life and require replacement to achieve an extended life while the plans for the new transit centre are developed. This project will allow for necessary repairs to maintain a dry and safe working environment.

Total Project Budget: 5,300,000

Budget Estimate Confidence: +-25%

Project Budget by Year

Fiscal Year	Previously Approved	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Gross Budget:	2,500,000	2,800,000	-	-	-	5,300,000
Project Specific Funding:						
Reserves	-	-	-	-	-	-
Other Funding	-	-	-	-	-	-
Total Funding:	-	-	-	-	-	-
Net Budget:	2,500,000	2,800,000	-	-	-	5,300,000

Impact on Operating Budget:

This work will reduce operating budget by reducing short term repair work and reducing heat loss from the building.

Operating Impacts of Capital Budget / Lifecycle Cost

	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Ongoing Operating Costs (Savings)	-	-	-	-	-
One-time Operating Costs (Savings)	-	-	-	-	-

Detailed Work Plan for 2019/20:

	2019/20
Phase 2 Roof Repair Work	3,678,847
Total Estimated Work Plan	3,678,847
Less Projected Carry Forward from Previous Years	878,847
Gross Budget Request	2,800,000

2019/20 Capital Budget Form

Project Name: Bus Maintenance Equip Replace	Est. Start Date: Apr-19
Project Number: CM000005	Est. Completion Date: Mar-20
Budget Category: Halifax Transit	Supports Priority Area: Transportation
Project Type: Asset Renewal	
Discrete/Bundled: Bundled	Project Manager: William Cutler
Multi-Year: No	Asset Steward: Manager, Bus Maintenance

Project Summary

There are a number of large pieces of equipment used in the maintenance of public transit vehicles such as hoists, lifts, cranes, etc. This project includes the replacement of these larger pieces of equipment that are at the end of their expected life at the Ragged Lake Transit Centre (RLTC) and Burnside Transit Centre (BTC) garages. Vehicle hoists are required to lift transit vehicles for maintenance activities.

Total Project Budget: n/a

Budget Estimate Confidence: +-25%

Project Budget by Year

Fiscal Year	Previously Approved	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Gross Budget:	1,525,000	-	300,000	300,000	-	2,125,000
Project Specific Funding:						
Reserves	-	-	-	-	-	-
Other Funding	-	-	-	-	-	-
Total Funding:	-	-	-	-	-	-
Net Budget:	1,525,000	-	300,000	300,000	-	2,125,000

Impact on Operating Budget:

No impact on Operating Budget.

Operating Impacts of Capital Budget / Lifecycle Cost

	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Ongoing Operating Costs (Savings)	-	-	-	-	-
One-time Operating Costs (Savings)	-	-	-	-	-

Detailed Work Plan for 2019/20:

	2019/20
Procurement and Installation of a maintenance hoist	300,000
Carry Forward to 2020/21	35,764
Total Estimated Work Plan	335,764
Less Projected Carry Forward from Previous Years	335,764
Gross Budget Request	-

2019/20 Capital Budget Form

Project Name: Bus Stop Accessibility/Improve	Est. Start Date: Annual Program
Project Number: CM190002	Est. Completion Date: Annual Program
Budget Category: Halifax Transit	Supports Priority Area: Transportation
Project Type: Asset Renewal	
Discrete/Bundled: Bundled	Project Manager: Amy Power
Multi-Year: No	Asset Steward: Manager, Road Ops & Construction

Project Summary

This purpose of this project is to enhance and improve the accessibility and amenities at transit stops to provide safe and accessible entry to the conventional transit system. Work done each year includes the installation of new concrete landing pads, repair, replacing, and upgrading existing pads, other physical changes to improve accessibility, replacing bus shelters, installing new bus shelters, installation of benches, and potential installation of other amenities such as schedule information/maps.

Total Project Budget: n/a

Budget Estimate Confidence: +-5%

Project Budget by Year

Fiscal Year	Previously Approved	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Gross Budget:	683,209	350,000	350,000	350,000	1,645,000	3,378,209
Project Specific Funding:						
Reserves	-	-	-	-	-	-
Other Funding	-	-	-	-	-	-
Total Funding:	-	-	-	-	-	-
Net Budget:	683,209	350,000	350,000	350,000	1,645,000	3,378,209

Impact on Operating Budget:

Operating costs of new shelters are accounted for under an existing contract. There is an impact on incremental snow clearing costs for new landing pads and for new shelters.

Operating Impacts of Capital Budget / Lifecycle Cost

	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Ongoing Operating Costs (Savings)	-	-	-	-	-
One-time Operating Costs (Savings)	-	-	-	-	-

Detailed Work Plan for 2019/20:

2019/20	2019/20
Bus Stop work associated with Moving Forward Together Plan changes	200,000
Bus stop accessibility work - landing pads and shelters - pre-existing bus stops	150,000
Total Estimated Work Plan	350,000
Less Projected Carry Forward from Previous Years	
Gross Budget Request	350,000

2019/20 Capital Budget Form

Project Name: Conventional Bus Replacement	Est. Start Date: Annual Program
Project Number: CV020006	Est. Completion Date: Annual Program
Budget Category: Halifax Transit	Supports Priority Area: Transportation
Project Type: Asset Renewal	
Discrete/Bundled: Bundled	Project Manager: Jacqueline Pepper/William Cutler
Multi-Year: No	Asset Steward: Manager, Bus Maintenance

Project Summary

Recapitalization of the Halifax Transit Fleet includes the acquisition of transit buses to replace an aging fleet. The buses being replaced have reached their optimal lifecycle. Replacement at this time period mitigates costly mechanical and structural rebuilds and reduces maintenance costs; increases service reliability and reduces harmful air contaminants.

Total Project Budget: n/a

Budget Estimate Confidence: +-10%

Project Budget by Year

Fiscal Year	Previously Approved	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Gross Budget:	9,540,580	15,400,000	14,000,000	26,500,000	107,750,000	173,190,580
Project Specific Funding:						
Reserves	-	-	-	-	-	-
Cost Sharing	-	6,160,000	9,400,000	17,735,000	-	33,295,000
Total Funding:	-	6,160,000	9,400,000	17,735,000	-	33,295,000
Net Budget:	9,540,580	9,240,000	4,600,000	8,765,000	107,750,000	139,895,580

Impact on Operating Budget:

There will be no significant change to the Operating Budget as a result of this project. If the buses are not replaced during this timeline, the Operating budget will increase significantly in 2020/2021.

Operating Impacts of Capital Budget / Lifecycle Cost

	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Ongoing Operating Costs (Savings)	-	-	-	-	-
One-time Operating Costs (Savings)	-	-	-	-	-

Detailed Work Plan for 2019/20:

	2019/20
Delivery of up to 25 buses by March 31, 2020	15,734,174
Total Estimated Work Plan	15,734,174
Less Projected Carry Forward from Previous Years	334,174
Gross Budget Request	15,400,000

2019/20 Capital Budget Form

Project Name: Ferry Refit	Est. Start Date: Annual Program
Project Number: CM180007	Est. Completion Date: Annual Program
Budget Category: Halifax Transit	Supports Priority Area: Service Delivery
Project Type: Asset Renewal	
Discrete/Bundled: Bundled	Project Manager: Spicer, Mike
Multi-Year: No	Asset Steward: Manager, Transit Operations

Project Summary

Annual ferry refurbishment is a requirement under federal regulations. Each year starting in 2019, Halifax Transit will dry dock one vessel and perform the regulated requirements and refurbishments to keep each vessel in good working order.

Total Project Budget: n/a

Budget Estimate Confidence: +-35%

Project Budget by Year

Fiscal Year	Previously Approved	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Gross Budget:	312,404	288,000	600,000	600,000	4,200,000	6,000,404
Project Specific Funding:						
Reserves	-	-	-	-	-	-
Other Funding	-	-	-	-	-	-
Total Funding:	-	-	-	-	-	-
Net Budget:	312,404	288,000	600,000	600,000	4,200,000	6,000,404

Impact on Operating Budget:

There are no impacts on operating budget. If the project is delayed, there could be increased maintenance costs.

Operating Impacts of Capital Budget / Lifecycle Cost

	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Ongoing Operating Costs (Savings)	-	-	-	-	-
One-time Operating Costs (Savings)	-	-	-	-	-

Detailed Work Plan for 2019/20:

	2019/20
Ferry Refit for one vessel	476,413
Total Estimated Work Plan	476,413
Less Projected Carry Forward from Previous Years	188,413
Gross Budget Request	288,000

2019/20 Capital Budget Form

Project Name:	Ferry Terminal Pontoon Rehab	Est. Start Date:	Annual Program
Project Number:	CBX01171	Est. Completion Date:	Annual Program
Budget Category:	Halifax Transit	Supports Priority Area:	Transportation
Project Type:	Asset Renewal		
Discrete/Bundled:	Bundled	Project Manager:	Erin Blay
Multi-Year:	No	Asset Steward:	Manager, Transit Operations

Project Summary

Planned maintenance of the pontoons at all three terminals will continue to ensure they remain in a state of good repair. Corrective maintenance activities include steelwork, electrical work, repair and replacement of interior and exterior coatings, repairs to the cathodic protection system, and safety improvements. Additional project work includes the painting of the interior voids at Halifax and Alderney Ferry Terminals as per the condition survey completed in 2018.

Total Project Budget: n/a

Budget Estimate Confidence: +-25%

Project Budget by Year

Fiscal Year	Previously Approved	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Gross Budget:	6,805,784	-	600,000	250,000	1,750,000	9,405,784
Project Specific Funding:						
Reserves	-	-	-	-	-	-
Other Funding	-	-	-	-	-	-
Total Funding:	-	-	-	-	-	-
Net Budget:	6,805,784	-	600,000	250,000	1,750,000	9,405,784

Impact on Operating Budget:

No significant impact on operating budget.

Operating Impacts of Capital Budget / Lifecycle Cost

	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Ongoing Operating Costs (Savings)	-	-	-	-	-
One-time Operating Costs (Savings)	-	-	-	-	-

Detailed Work Plan for 2019/20:

	2019/20
Total Estimated Work Plan	-
Less Projected Carry Forward from Previous Years	
Gross Budget Request	-

2019/20 Capital Budget Form

Project Name: Halifax Ferry Terminal	Est. Start Date: Apr-17
Project Number: CB000039	Est. Completion Date: Jun-19
Budget Category: Halifax Transit	Supports Priority Area: Transportation
Project Type: Asset Renewal	
Discrete/Bundled: Discrete	Project Manager: Erin Blay
Multi-Year: No	Asset Steward: Manager, Transit Operations

Project Summary

This project will fund the completion of the Halifax Ferry Terminal refresh project (anticipated for completion in June 2019) and the Halifax Ferry Terminal Land Use Optimization Study.

Total Project Budget: 1,330,000

Budget Estimate Confidence: +-10%

Project Budget by Year

Fiscal Year	Previously Approved	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Gross Budget:	1,330,000	-	-	-	-	1,330,000
Project Specific Funding:						
Reserves	-	-	-	-	-	-
Other Funding	-	-	-	-	-	-
Total Funding:	-	-	-	-	-	-
Net Budget:	1,330,000	-	-	-	-	1,330,000

Impact on Operating Budget:

No impact on operating budget associated with the repairs of this building.

Operating Impacts of Capital Budget / Lifecycle Cost

	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Ongoing Operating Costs (Savings)	-	-	-	-	-
One-time Operating Costs (Savings)	-	-	-	-	-

Detailed Work Plan for 2019/20:

	2019/20
Completion of Halifax Ferry Terminal refresh	278,792
Total Estimated Work Plan	278,792
Less Projected Carry Forward from Previous Years	278,792
Gross Budget Request	-

2019/20 Capital Budget Form

Project Name: MFTP Implementation	Est. Start Date: Apr-18
Project Number: CM180008	Est. Completion Date: Mar-20
Budget Category: Halifax Transit	Supports Priority Area: Transportation
Project Type: Growth	
Discrete/Bundled: Discrete	Project Manager: Erin Blay
Multi-Year: Yes	Asset Steward: Manager, Bus Maintenance

Project Summary

This project is for the implementation of year four of the Moving Forward Together Plan (MFTP). This is a multi-year project which reflects the implementation of the redesigned transit network. In 2019/20, an additional twelve buses will be added to the fleet complement to implement year four of the Moving Forward Together Plan.

Total Project Budget: 29,250,552

Budget Estimate Confidence: +-10%

Project Budget by Year

Fiscal Year	Previously Approved	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Gross Budget:	5,011,300	7,601,000	-	-	16,638,252	29,250,552
Project Specific Funding:						
Reserves	-	-	-	-	-	-
Cost Sharing	-	2,000,000	-	-	-	2,000,000
Total Funding:	-	2,000,000	-	-	-	2,000,000
Net Budget:	5,011,300	5,601,000	-	-	16,638,252	27,250,552

Impact on Operating Budget:

The increase in conventional transit fleet will result in an increase in operating budget as it will require additional bus operators and maintenance staff, as well as an increase in fuel and maintenance activities.

Operating Impacts of Capital Budget / Lifecycle Cost

	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Ongoing Operating Costs (Savings)	3,310,888	3,310,888	3,310,888	21,363,890	31,296,555
One-time Operating Costs (Savings)	-	-	-	-	-

Detailed Work Plan for 2019/20:

	2019/20
Purchase of 12 expansion vehicles in order to implement year 4 of the Moving Forward Together Plan	7,624,376
Total Estimated Work Plan	7,624,376
Less Projected Carry Forward from Previous Years	23,376
Gross Budget Request	7,601,000

2019/20 Capital Budget Form

Project Name: Mid-Life Bus Rebuild	Est. Start Date: Annual Program
Project Number: CM180004	Est. Completion Date: Annual Program
Budget Category: Halifax Transit	Supports Priority Area: Transportation
Project Type: Asset Renewal	
Discrete/Bundled: Bundled	Project Manager: Jacqueline Pepper/William Cutler
Multi-Year: No	Asset Steward: Manager, Bus Maintenance

Project Summary

The purpose of this initiative is to extend the life of conventional transit vehicles and defer the capital cost of new asset acquisition. This account is for component rebuild or replacement (engines, transmissions, axles) and structural rebuilds.

Total Project Budget: n/a

Budget Estimate Confidence: +-10%

Project Budget by Year

Fiscal Year	Previously Approved	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Gross Budget:	870,000	176,000	685,000	685,000	4,795,000	7,211,000
Project Specific Funding:						
Reserves	-	-	-	-	-	-
Other Funding	-	-	-	-	-	-
Total Funding:	-	-	-	-	-	-
Net Budget:	870,000	176,000	685,000	685,000	4,795,000	7,211,000

Impact on Operating Budget:

Operational budget will not increase as a result of this project.

Operating Impacts of Capital Budget / Lifecycle Cost

	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Ongoing Operating Costs (Savings)	-	-	-	-	-
One-time Operating Costs (Savings)	-	-	-	-	-

Detailed Work Plan for 2019/20:

	2019/20
10 Structural or Mechanical component rebuilds/replacements	284,158
Total Estimated Work Plan	284,158
Less Projected Carry Forward from Previous Years	108,158
Gross Budget Request	176,000

2019/20 Capital Budget Form

Project Name:	New Transit Technology	Est. Start Date:	May-13
Project Number:	CM180005	Est. Completion Date:	Mar-21
Budget Category:	Halifax Transit	Supports Priority Area:	Transportation
Project Type:	Growth		
Discrete/Bundled:	Discrete	Project Manager:	Marc Santili
Multi-Year:	Yes	Asset Steward:	

Project Summary

A comprehensive technology roadmap for Halifax Transit was created to support its key business drivers with technology-enabled solutions. The roadmap includes 33 projects organized into 9 streams of activity. The Halifax Transit Technology Program was established to execute the roadmap strategy and manage the portfolio of projects. The program is guided by the technology roadmap, which identifies the recommended sequence of projects, estimated cost, and the requirement to implement best practice processes through sector-leading technology solutions.

Total Project Budget: 26,899,562

Budget Estimate Confidence: +-10%

Project Budget by Year

Fiscal Year	Previously Approved	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Gross Budget:	22,869,562	500,000	3,530,000	-	-	26,899,562
Project Specific Funding:						
Reserves	-	-	-	-	-	-
Other Funding	-	-	-	-	-	-
Total Funding:	-	-	-	-	-	-
Net Budget:	22,869,562	500,000	3,530,000	-	-	26,899,562

Impact on Operating Budget:

The various projects within the Halifax Transit Technology Program have the potential to both decrease and increase the operating budget for Halifax Transit. New hardware and software solutions will require support once operational, thereby requiring additional FTEs; however, efficiencies gained as a result of the new solutions will decrease the need for additional resources.

Operating Impacts of Capital Budget / Lifecycle Cost

	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Ongoing Operating Costs (Savings)	-	-	-	-	-
One-time Operating Costs (Savings)	-	-	-	-	-

Detailed Work Plan for 2019/20:

Detailed Work Plan for 2019/20:	2019/20
P1. PMO (Project Resources)	2,500,000
P3. Fixed Route Planning Scheduling & Operations (Phase 1)	1,700,000
P3. Fixed Route Planning Scheduling & Operations (Phase 2 & 3)	125,000
P5. Fare Management (Phase 1)	5,063,222
P5. Fare Management (Phase 2 initiation)	500,000
P6. Paratransit	750,000
Total Estimated Work Plan	10,638,222
Less Projected Carry Forward from Previous Years	10,138,222
Gross Budget Request	500,000

2019/20 Capital Budget Form

Project Name: Sustainable Fuel Study	Est. Start Date: Feb-19
Project Number: CM180001	Est. Completion Date: Dec-19
Budget Category: Halifax Transit	Supports Priority Area: Transportation
Project Type: Growth	
Discrete/Bundled: Discrete	Project Manager: Jacqueline Pepper/William Cutler
Multi-Year: No	Asset Steward: Manager, Bus Maintenance

Project Summary

This project will fund a consultant's study on the types of fuels and technology used in power generation of public transit vehicles. Halifax Transit is seeking to understand the optimal mix of fuels and technology from both an environmental and return on investment perspective. This report will guide Halifax Transit's procurement strategy and infrastructure considerations associated with the 10 year capital plan.

Total Project Budget: 200,000

Budget Estimate Confidence: +-10%

Project Budget by Year

Fiscal Year	Previously Approved	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Gross Budget:	200,000	-	-	-	-	200,000
Project Specific Funding:						
Reserves		-	-	-	-	-
Other Funding		-	-	-	-	-
Total Funding:	-	-	-	-	-	-
Net Budget:	200,000	-	-	-	-	200,000

Impact on Operating Budget:

The study will have no impact on the operating budget. Any recommendations implemented from the study will come forth under separate projects and have operating impacts considered at that time.

Operating Impacts of Capital Budget / Lifecycle Cost

	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Ongoing Operating Costs (Savings)	-	-	-	-	-
One-time Operating Costs (Savings)	-	-	-	-	-

Detailed Work Plan for 2019/20:

	2019/20
Consultant's Study	116,594
Total Estimated Work Plan	116,594
Less Projected Carry Forward from Previous Years	116,594
Gross Budget Request	-

2019/20 Capital Budget Form

Project Name: Transit Facility Invest Strategy	Est. Start Date: Annual Program
Project Number: CB000016	Est. Completion Date: Annual Program
Budget Category: Halifax Transit	Supports Priority Area: Transportation
Project Type: Asset Renewal	
Discrete/Bundled: Bundled	Project Manager: Erin Blay
Multi-Year: Yes	Asset Steward: Manager, Planning & Scheduling

Project Summary

A Transit Facility Investment Strategy was completed in 2018/19 to inform the strategic, long term investment in Halifax Transit infrastructure. Improvements described in the plan were prioritized based on required maintenance, improved customer service, planned expansion, and universal accessibility. This scope of work in 2019 includes replacement of a sub-standard ferry maintenance facility required to meet basic operational requirements.

Total Project Budget: n/a

Budget Estimate Confidence: +-35%

Project Budget by Year

Fiscal Year	Previously Approved	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Gross Budget:	250,000	500,000	-	-	10,565,000	11,315,000
Project Specific Funding:						
Q551 (Transit Capital Reserve)	-	121,000	-	-	-	121,000
Other Funding	-	-	-	-	-	-
Total Funding:	-	121,000	-	-	-	121,000
Net Budget:	250,000	379,000	-	-	10,565,000	11,194,000

Impact on Operating Budget:

It is likely that there will be some increase in operating costs associated with the establishment of this facility.

Operating Impacts of Capital Budget / Lifecycle Cost

	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Ongoing Operating Costs (Savings)	60,000	60,000	60,000	60,000	240,000
One-time Operating Costs (Savings)	-	-	-	-	-

Detailed Work Plan for 2019/20:

	2019/20
Establishment and fit up of Ferry Berthing/Maintenance Facility	535,572
Total Estimated Work Plan	535,572
Less Projected Carry Forward from Previous Years	35,572
Gross Budget Request	500,000

2019/20 Capital Budget Form

Project Name: Transit Priority Measures	Est. Start Date: Annual Program
Project Number: CM000009	Est. Completion Date: Annual Program
Budget Category: Halifax Transit	Supports Priority Area: Transportation
Project Type: Growth	
Discrete/Bundled: Bundled	Project Manager: Erin Blay
Multi-Year: No	Asset Steward: Manager, Road Ops & Construction

Project Summary

In 2019/20, work will continue to evaluate opportunities as well as design, and implement small Transit Priority Measures (TPM) at key locations in the transit network.

Total Project Budget: n/a

Budget Estimate Confidence: +-25%

Project Budget by Year

Fiscal Year	Previously Approved	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Gross Budget:	1,750,000	640,000	-	-	2,450,000	4,840,000
Project Specific Funding:						
Reserves	-	-	-	-	-	-
Other Funding	-	-	-	-	-	-
Total Funding:	-	-	-	-	-	-
Net Budget:	1,750,000	640,000	-	-	2,450,000	4,840,000

Impact on Operating Budget:

It is possible there will be some impact to the maintenance of roadways on which these measures are found.

Operating Impacts of Capital Budget / Lifecycle Cost

	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Ongoing Operating Costs (Savings)	-	-	-	-	-
One-time Operating Costs (Savings)	-	-	-	-	-

Detailed Work Plan for 2019/20:

	2019/20
Planned TPM Design Construction (i.e. Main St. @ Gordon enhancements, Portland St @ Woodlawn)	640,000
Detailed design - Robie Street and Young Street TPM Corridor	334,536
Total Estimated Work Plan	974,536
Less Projected Carry Forward from Previous Years	334,536
Gross Budget Request	640,000

2019/20 Capital Budget Form

Project Name: Transit Priority Measures Corridors	Est. Start Date: Annual Program
Project Number: CM000014	Est. Completion Date: Annual Program
Budget Category: Halifax Transit	Supports Priority Area: Transportation
Project Type: Growth	
Discrete/Bundled: Bundled	Project Manager: Erin Blay
Multi-Year: Yes	Asset Steward: Manager, Road Ops & Construction

Project Summary

This project will see the initiation of the Bayers Road Transit Priority Corridor as identified in the Integrated Mobility Plan (IMP) and the Moving Forward Together Plan. The IMP was approved in 2017 and provides a framework for accomplishing the Regional Plan's Goals of achieving a more sustainable transportation system with at least 30% of all trips by transit or active transportation (AT). This project helps achieve this goal.

Total Project Budget: n/a

Budget Estimate Confidence: +50%

Project Budget by Year

Fiscal Year	Previously Approved	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Gross Budget:	250,000	3,500,000	-	-	16,500,000	20,250,000
Project Specific Funding:						
Q631 (Debt Principal and Interest Repayment Reserve)	-	3,500,000	-	-	-	3,500,000
Other Funding	-	-	-	-	-	-
Total Funding:	-	3,500,000	-	-	-	3,500,000
Net Budget:	250,000	-	-	-	16,500,000	16,750,000

Impact on Operating Budget:

It is likely this project will result in an increased operating budget for the operation and maintenance of new TPM Corridors.

Operating Impacts of Capital Budget / Lifecycle Cost

	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Ongoing Operating Costs (Savings)	-	-	-	-	-
One-time Operating Costs (Savings)	-	-	-	-	-

Detailed Work Plan for 2019/20:

	2019/20
Bayers Road TPM Corridor - Construction Inspection, Initiate Construction	3,301,127
Signalization	200,000
Total Estimated Work Plan	3,501,127
Less Projected Carry Forward from Previous Years	1,127
Gross Budget Request	3,500,000

2019/20 Capital Budget Form

Project Name: Transit Strategy	Est. Start Date: May-08
Project Number: CMU01095	Est. Completion Date: Mar-20
Budget Category: Halifax Transit	Supports Priority Area: Transportation
Project Type: Growth	
Discrete/Bundled: Discrete	Project Manager: Erin Blay
Multi-Year: Yes	Asset Steward: Manager, Planning & Scheduling

Project Summary

In order to continue the delivery of the Integrated Mobility Plan and the Moving Forward Together Plan, staff will undertake further studies as directed by these approved policy documents.

Total Project Budget: 1,065,100

Budget Estimate Confidence: +10%

Project Budget by Year

Fiscal Year	Previously Approved	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Gross Budget:	1,065,100	-	-	-	-	1,065,100
Project Specific Funding:						
Reserves	-	-	-	-	-	-
Other Funding	-	-	-	-	-	-
Total Funding:	-	-	-	-	-	-
Net Budget:	1,065,100	-	-	-	-	1,065,100

Impact on Operating Budget:

None noted at this time.

Operating Impacts of Capital Budget / Lifecycle Cost

	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Ongoing Operating Costs (Savings)	-	-	-	-	-
One-time Operating Costs (Savings)	-	-	-	-	-

Detailed Work Plan for 2019/20:

	2019/20
Studies related to IMP implementation including Bus Rapid Transit Implementation	192,671
Total Estimated Work Plan	192,671
Less Projected Carry Forward from Previous Years	192,671
Gross Budget Request	-

2019/20 Capital Budget Form

Project Name:	Transit Support Vehicle Replace	Est. Start Date:	Annual Program
Project Number:	CV000004	Est. Completion Date:	Annual Program
Budget Category:	Halifax Transit	Supports Priority Area:	Transportation
Project Type:	Asset Renewal		
Discrete/Bundled:	Bundled	Project Manager:	Jacqueline Pepper/William Cutler
Multi-Year:	No	Asset Steward:	Manager, Corporate Fleet

Project Summary

Halifax Transit currently has a fleet of eight (8) supervisor vehicles that operate twenty two and a half (22.5) hours a day, all year round. In addition to this, Halifax operates a number of vans and service trucks (8) that provide mobile road repair service, transit shelter/sign repair; electronic component repair; and the shuttling of parts between garages. These vehicles incur high mileage and this project will replace vehicles as they reach the end of their economic life.

Total Project Budget: n/a

Budget Estimate Confidence: +-10%

Project Budget by Year

Fiscal Year	Previously Approved	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Gross Budget:	419,200	-	100,000	60,000	-	579,200
Project Specific Funding:						
Reserves	-	-	-	-	-	-
Other Funding	-	-	-	-	-	-
Total Funding:	-	-	-	-	-	-
Net Budget:	419,200	-	100,000	60,000	-	579,200

Impact on Operating Budget:

No impact on Operating budget.

Operating Impacts of Capital Budget / Lifecycle Cost

	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Ongoing Operating Costs (Savings)	-	-	-	-	-
One-time Operating Costs (Savings)	-	-	-	-	-

Detailed Work Plan for 2019/20:

2019/20

Total Estimated Work Plan	-
Less Projected Carry Forward from Previous Years	
Gross Budget Request	-

2019/20 Capital Budget Form

Project Name:	Woodside Ferry Term. Upgrade	Est. Start Date:	Apr-18
Project Number:	CB000042	Est. Completion Date:	Dec-21
Budget Category:	Halifax Transit	Supports Priority Area:	Transportation
Project Type:	Asset Renewal		
Discrete/Bundled:	Discrete	Project Manager:	Erin Blay
Multi-Year:	Yes	Asset Steward:	Manager, Planning & Scheduling

Project Summary

In 2018/19 design work was initiated to direct the recapitalization of the Woodside Ferry Terminal, and construction work on the facility will be initiated in the 2019/20 fiscal year. Work will include the introduction of an additional escalator and elevator, a new security kiosk, and other substantial facility upgrades to improve customer service and operational efficiency.

Total Project Budget: 9,030,000

Budget Estimate Confidence: +-35%

Project Budget by Year

Fiscal Year	Previously Approved	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Gross Budget:	1,030,000	2,000,000	4,000,000	2,000,000	-	9,030,000
Project Specific Funding:						
Reserves	-	-	-	-	-	-
Cost Sharing	-	-	2,000,000	2,000,000	-	4,000,000
Total Funding:	-	-	2,000,000	2,000,000	-	4,000,000
Net Budget:	1,030,000	2,000,000	2,000,000	-	-	5,030,000

Impact on Operating Budget:

Operating Impacts of Capital Budget / Lifecycle Cost

	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Ongoing Operating Costs (Savings)	-	-	-	-	-
One-time Operating Costs (Savings)	-	-	-	-	-

Detailed Work Plan for 2019/20:

	2019/20
Woodside Ferry Terminal Recapitalization Construction	2,294,318
Woodside Ferry Terminal Recapitalization Design & Contract Administration	200,000
Total Estimated Work Plan	2,494,318
Less Projected Carry Forward from Previous Years	494,318
Gross Budget Request	2,000,000

Tab - Parks & Playgrounds

Parks and Playgrounds

Page #	Project Name	Old Project #	New Project #	2019/20 Workplan	2019/20 Carry Forward	2019/20 Gross	2019/20 Funding	2019/20 Net
E1	Beazley Park	CP000018	CP000018	2,004,293	4,293	2,000,000	-	2,000,000
E2	Cemetery Upgrades	CP000020	CP000020	8,000	8,000	-	-	-
E3	Cornwallis Park Master Plan Implementation	CP000011	CP000011	25,872	25,872	-	-	-
E4	Cultural Spaces	CD990003	CP190001	549,299	299,299	250,000	250,000	-
E5	Fort Needham Master Plan Implementation	CP000012	CP000012	555,009	555,009	-	-	-
E6	Halifax Common Upgrades	CP000013	CP000013	647,181	647,181	-	-	-
E7	HRM Public Art Commissions	CDG01135	CDG01135	49,504	49,504	-	-	-
E8	Park Land Acquisition	CP180004	CP180004	9,683,831	2,683,831	7,000,000	5,500,000	1,500,000
E9	Park Recapitalization	CP180001	CP180001	3,546,782	926,782	2,620,000	750,000	1,870,000
E12	Point Pleasant Park Upgrades	CP000006	CP190003	96,428	96,428	-	-	-
E13	Public Gardens Upgrades	CPX01193	CP190005	359,566	359,566	-	-	-
E14	Recreational Trails	CP190002	CP190002	-	-	-	-	-
E15	Regional Water Access/Beach Upgrades	CP180002	CP180002	1,029,663	929,663	100,000	20,000	80,000
E16	Sports Fields/Courts - Renewal	CP180003	CP180003	5,041,049	2,041,049	3,000,000	1,500,000	1,500,000
E18	Sports/Ball Fields/Courts - New	CP180005	CP180005	261,086	221,086	40,000	40,000	-
E19	Western Common Master Plan Implementation	CP000014	CP000014	89,613	89,613	-	-	-
Grand Total				23,947,176	8,937,176	15,010,000	8,060,000	6,950,000

2019/20 Capital Budget Form

Project Name: Beazley Park	Est. Start Date: Annual Program
Project Number: CP000018	Est. Completion Date: Annual Program
Budget Category: Parks & Playgrounds	Supports Priority Area: Healthy, Livable Communities
Project Type: Asset Renewal	
Discrete/Bundled: Bundled	Project Manager: Darren Young
Multi-Year: Yes	Asset Steward: Manager, Parks

Project Summary

The Beazley Field Complex site plan provides an analysis of the current park facilities and a capital project plan for short term and future upgrades. Phase 1 included the recapitalization of the basketball courts and skate park. Phase 2 included a new playground and barrier free walkways. The next phase of work includes spectator seating upgrades at the track and field facility with washrooms and change rooms.

Total Project Budget: n/a

Budget Estimate Confidence: +35%

Project Budget by Year

Fiscal Year	Previously Approved	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Gross Budget:	508,754	2,000,000	-	250,000	3,200,000	5,958,754
Project Specific Funding:						
Reserves	-	-	-	-	-	-
Other Funding	-	-	-	-	-	-
Total Funding:	-	-	-	-	-	-
Net Budget:	508,754	2,000,000	-	250,000	3,200,000	5,958,754

Impact on Operating Budget:

Increase upon completion of the project.

Operating Impacts of Capital Budget / Lifecycle Cost

	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Ongoing Operating Costs (Savings)	-	26,000	26,000	26,000	78,000
One-time Operating Costs (Savings)	-	-	-	-	-

Detailed Work Plan for 2019/20:

	2019/20
Track and Field Facility Upgrades - spectator seating with washrooms and change rooms	2,004,293
Total Estimated Work Plan	2,004,293
Less Projected Carry Forward from Previous Years	4,293
Gross Budget Request	2,000,000

2019/20 Capital Budget Form

Project Name:	Cemetery Upgrades	Est. Start Date:	Annual Program
Project Number:	CP000020	Est. Completion Date:	Annual Program
Budget Category:	Parks & Playgrounds	Supports Priority Area:	Healthy, Livable Communities
Project Type:	Asset Renewal		
Discrete/Bundled:	Bundled	Project Manager:	Jeff Spares
Multi-Year:	No	Asset Steward:	Manager, Parks

Project Summary

This project includes the future restoration of the historic perimeter fence at Camp Hill Cemetery. Sections of the fence are corroded and will be rehabilitated/replaced with a new iron fence retaining as much original historic fabric as possible.

Total Project Budget: n/a

Budget Estimate Confidence: +-25%

Project Budget by Year

Fiscal Year	Previously Approved	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Gross Budget:	50,000	-	-	-	1,800,000	1,850,000
Project Specific Funding:						
Reserves	-	-	-	-	-	-
Other Funding	-	-	-	-	-	-
Total Funding:	-	-	-	-	-	-
Net Budget:	50,000	-	-	-	1,800,000	1,850,000

Impact on Operating Budget:

No impact.

Operating Impacts of Capital Budget / Lifecycle Cost

	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Ongoing Operating Costs (Savings)	-	-	-	-	-
One-time Operating Costs (Savings)	-	-	-	-	-

Detailed Work Plan for 2019/20:

	2019/20
<u>Approved Carry Forward Project</u>	
Camp Hill Fence Restoration - Detailed Design	8,000
Total Estimated Work Plan	8,000
Less Projected Carry Forward from Previous Years	8,000
Gross Budget Request	-

2019/20 Capital Budget Form

Project Name: Cornwallis Park Master Plan Implementation	Est. Start Date: Apr-21
Project Number: CP000011	Est. Completion Date: Mar-23
Budget Category: Parks & Playgrounds	Supports Priority Area: Healthy, Livable Communities
Project Type: Asset Renewal	
Discrete/Bundled: Discrete	Project Manager: Jeff Spares
Multi-Year: No	Asset Steward: Manager, Parks

Project Summary

Redevelopment of Cornwallis Park is underway as per the concept plan prepared in 2013. Phase 1, 2 and 3 included redevelopment of the southern portion of the park including the installation of a play structure, lighting, benches, walkways, plaza and landscaping. Phase 4 will include upgrades to the remaining park facilities including a new centre park feature, barrier free pathways, lighting, furniture and landscaping.

Total Project Budget: 1,805,000

Budget Estimate Confidence: +-35%

Project Budget by Year

Fiscal Year	Previously Approved	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Gross Budget:	1,105,000	-	-	350,000	350,000	1,805,000
Project Specific Funding:						
Reserves	-	-	-	-	-	-
Other Funding	-	-	-	-	-	-
Total Funding:	-	-	-	-	-	-
Net Budget:	1,105,000	-	-	350,000	350,000	1,805,000

Impact on Operating Budget:

Increase upon completion of project.

Operating Impacts of Capital Budget / Lifecycle Cost

	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Ongoing Operating Costs (Savings)	-	-	-	3,000	3,000
One-time Operating Costs (Savings)	-	-	-	-	-

Detailed Work Plan for 2019/20:

	2019/20
Carry forward funds to 2021/22	25,872
Total Estimated Work Plan	25,872
Less Projected Carry Forward from Previous Years	25,872
Gross Budget Request	-

2019/20 Capital Budget Form

Project Name: Cultural Spaces	Est. Start Date: Annual Program
Project Number: CP190001	Est. Completion Date: Annual Program
Budget Category: Parks & Playgrounds	Supports Priority Area: Economic Development
Project Type: Asset Renewal	
Discrete/Bundled: Bundled	Project Manager: Elizabeth Taylor
Multi-Year: Yes	Asset Steward: Manager, Parks

Project Summary

Multi-year project that focuses on the development and maintenance of cultural structures such as artifacts, monuments, markers, commemorative signage, the HRM parade float, public art and banners as outlined in the Cultural Plan and Public Art Policy.

Total Project Budget: n/a

Budget Estimate Confidence: +-25%

Project Budget by Year

Fiscal Year	Previously Approved	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Gross Budget:	1,025,000	250,000	250,000	250,000	1,750,000	3,525,000
Project Specific Funding:						
Q621 (Community and Events Reserve)	1,025,000	250,000	250,000	250,000	1,750,000	3,525,000
Other Funding	-	-	-	-	-	-
Total Funding:	1,025,000	250,000	250,000	250,000	1,750,000	3,525,000
Net Budget:	-	-	-	-	-	-

Impact on Operating Budget:

Minimal impact on operating budget as the repairs help to reduce necessary maintenance on public art and panels.

Operating Impacts of Capital Budget / Lifecycle Cost

	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Ongoing Operating Costs (Savings)	2,000	2,000	2,000	2,000	8,000
One-time Operating Costs (Savings)	-	-	-	-	-

Detailed Work Plan for 2019/20:

	2019/20
Continued work on HRM artifacts, started in 2016/17 fiscal year	50,000
Ongoing assessments, repairs and maintenance of HRM public art and monuments, including Peace Pavilion and others as required	75,000
New public art & monument pieces including interpretative plaques and panels 1) Africville interpretative elements, 2) a second location currently being determined	100,000
Addition of seating to parade float	25,000
Projects carried forward to 2019/20 for completion:	
Alexander Cairn	65,000
Cole Harbour Public Art - final	30,000
Conservation	6,500
Collections	33,500
Halifax Explosion Marker Foundation	6,000
Public Art Repairs	42,000
Further planning required, amounts to carry forward to 2020/21	116,299
Total Estimated Work Plan	549,299
Less Projected Carry Forward from Previous Years	299,299
Gross Budget Request	250,000

2019/20 Capital Budget Form

Project Name: Fort Needham Master Plan Implementation	Est. Start Date: Apr-19
Project Number: CP000012	Est. Completion Date: Mar-20
Budget Category: Parks & Playgrounds	Supports Priority Area: Healthy, Livable Communities
Project Type: Growth	
Discrete/Bundled: Discrete	Project Manager: Darren Young
Multi-Year: No	Asset Steward: Manager, Parks

Project Summary

Fort Needham is a Regional Park with high cultural significance, most noted for its association with the Halifax Explosion in 1917. In preparation for the 100th Anniversary of the Halifax Explosion, a master plan for the redevelopment of the park was completed which recommended improvements and rededication of the Fort Needham Memorial Park as a legacy project. In 2018 phase 1 of the master plan was implemented which generally included improvements to park accessibility, new pathways, new accessible parking area, monument and pathway lighting, enhanced plaza surrounding the monument, interpretative elements, new playground and landscaping.

Total Project Budget: 3,592,762

Budget Estimate Confidence: +35%

Project Budget by Year

Fiscal Year	Previously Approved	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Gross Budget:	3,592,762	-	-	-	-	3,592,762
Project Specific Funding:						
Reserves	-	-	-	-	-	-
Other Funding	-	-	-	-	-	-
Total Funding:	-	-	-	-	-	-
Net Budget:	3,592,762	-	-	-	-	3,592,762

Impact on Operating Budget:

Increase upon completion of the project.

Operating Impacts of Capital Budget / Lifecycle Cost

	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Ongoing Operating Costs (Savings)	14,500	14,500	14,500	101,500	145,000
One-time Operating Costs (Savings)	-	-	-	-	-

Detailed Work Plan for 2019/20:

2019/20

<u>Approved Carry Forward Project</u>	2019/20
New Washroom Building	555,009
Total Estimated Work Plan	555,009
Less Projected Carry Forward from Previous Years	555,009
Gross Budget Request	-

2019/20 Capital Budget Form

Project Name: Halifax Common Upgrades	Est. Start Date: Apr-19
Project Number: CP000013	Est. Completion Date: Mar-21
Budget Category: Parks & Playgrounds	Supports Priority Area: Healthy, Livable Communities
Project Type: Asset Renewal	
Discrete/Bundled: Discrete	Project Manager: Jeff Spares
Multi-Year: No	Asset Steward: Manager, Parks

Project Summary

This program includes upgrades to the Wanderers Grounds including replacement of the perimeter fencing.

The project also includes the future replacement of the existing outdoor swimming pool, converted wading pool/spray pad, and support building (the Pavilion) with a new outdoor aquatic facility that will include a larger outdoor recreational swimming pool with universal access (beach entry), children's spray pad and new support building for mechanical, shower change rooms and public washrooms.

The project also includes relocation of the existing playground and replacement with a new playground. The size of the pool and building will be larger than the existing facilities to meet current usage demand and design standards. The present location is confined by the existing underground water and sewer lines that run through the site. The new aquatic and playground facilities need to be reorganized on the site to work around the existing sewer lines. The project will need to include relocating a water transmission line.

Total Project Budget: 5,915,290

Budget Estimate Confidence: +50%

Project Budget by Year

Fiscal Year	Previously Approved	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Gross Budget:	1,915,290	-	-	-	4,000,000	5,915,290
Project Specific Funding:						
Reserves	-	-	-	-	-	-
Other Funding	-	-	-	-	-	-
Total Funding:	-	-	-	-	-	-
Net Budget:	1,915,290	-	-	-	4,000,000	5,915,290

Impact on Operating Budget:

Increase upon completion.

Operating Impacts of Capital Budget / Lifecycle Cost

	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Ongoing Operating Costs (Savings)	-	-	-	-	-
One-time Operating Costs (Savings)	-	-	-	-	-

Detailed Work Plan for 2019/20:

	2019/20
Approved Carry Forward Project	
Swimming pool/aquatic centre/pavilion - Detailed Design	300,000
Wanderers Grounds - Site Improvements (walkways, drainage)	80,000
2019/20 New Project	
Wanderers Grounds - Perimeter Fence Replacement	100,000
Carry forward funds to 2022/23	167,181
Total Estimated Work Plan	647,181
Less Projected Carry Forward from Previous Years	647,181
Gross Budget Request	-

2019/20 Capital Budget Form

Project Name:	HRM Public Art Commissions	Est. Start Date:	Apr-19
Project Number:	CDG01135	Est. Completion Date:	Mar-20
Budget Category:	Parks & Playgrounds	Supports Priority Area:	Healthy, Livable Communities
Project Type:	Growth		
Discrete/Bundled:	Discrete	Project Manager:	Elizabeth Taylor
Multi-Year:	No	Asset Steward:	Manager, Parks

Project Summary

Halifax Explosion Interpretive Marker - Turtle Grove Mi'kmaq Community

Total Project Budget: 395,000

Budget Estimate Confidence: +-10%

Project Budget by Year

Fiscal Year	Previously Approved	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Gross Budget:	395,000	-	-	-	-	395,000
Project Specific Funding:						
Reserves	-	-	-	-	-	-
Other Funding	-	-	-	-	-	-
Total Funding:	-	-	-	-	-	-
Net Budget:	395,000	-	-	-	-	395,000

Impact on Operating Budget:

Minimal impact.

Operating Impacts of Capital Budget / Lifecycle Cost

	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Ongoing Operating Costs (Savings)	-	-	-	-	-
One-time Operating Costs (Savings)	-	-	-	-	-

Detailed Work Plan for 2019/20:

	2019/20
Research and development of interpretive text	5,000
Design and fabrication of concrete footing	5,000
Fabrication and installation of stainless steel and corten steel 'marker'	35,000
Carried forward to 2020/21	4,504
Total Estimated Work Plan	49,504
Less Projected Carry Forward from Previous Years	49,504
Gross Budget Request	-

2019/20 Capital Budget Form

Project Name: Park Land Acquisition	Est. Start Date: Annual Program
Project Number: CP180004	Est. Completion Date: Annual Program
Budget Category: Parks & Playgrounds	Supports Priority Area: Healthy, Livable Communities
Project Type: Growth	
Discrete/Bundled: Bundled	Project Manager: Elizabeth Taylor
Multi-Year: Yes	Asset Steward: Manager, Parks

Project Summary

This project will fund acquisition and purchase of strategic parklands in support of the HRM's regional park and trails system. In addition to the smaller strategic acquisitions, Regional Council has authorized staff to work on several larger strategic open space properties of joint interest with the Province of Nova Scotia. This is an opportunity account to purchase parkland, as directed by Council, as it becomes available, to create or expand Regional Parks, District and Neighbourhood Parks and Trails.

Total Project Budget: n/a

Budget Estimate Confidence: +-35%

Project Budget by Year

Fiscal Year	Previously Approved	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Gross Budget:	2,918,134	7,000,000	500,000	500,000	2,000,000	12,918,134
Project Specific Funding:						
Q611 (Parkland Development Reserve)	2,918,134	2,000,000	500,000	500,000	2,000,000	7,918,134
Q421 (General Contingency Reserve)	-	3,500,000	-	-	-	3,500,000
Total Funding:	2,918,134	5,500,000	500,000	500,000	2,000,000	11,418,134
Net Budget:	-	1,500,000	-	-	-	1,500,000

Impact on Operating Budget:

Increase upon acquisition

Operating Impacts of Capital Budget / Lifecycle Cost

	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Ongoing Operating Costs (Savings)	-	-	-	-	-
One-time Operating Costs (Savings)	-	-	-	-	-

Detailed Work Plan for 2019/20:

	2019/20
This is an opportunity account to purchase and develop parkland, as directed by Council, as it becomes available, to create or expand Regional Parks, Regional Active Transportation Trails, District and Neighbourhood Parks and Trails	9,683,831
Current Potential Projects based on Council direction include: Blue Mountain Birch Cove Park Trails (Halifax Peninsula, Dartmouth Waterfront, COLTA trailhead, etc.) Shaw Wilderness Park Other strategic acquisitions as directed by Regional Council	
Timeline for acquisitions dependent on negotiations and may extend beyond 2019/20 Continuation of purchasing of land parcels associated with areas listed above	
Total Estimated Work Plan	9,683,831
Less Projected Carry Forward from Previous Years	2,683,831
Gross Budget Request	7,000,000

2019/20 Capital Budget Form

Project Name: Park Recapitalization	Est. Start Date: Annual Program
Project Number: CP180001	Est. Completion Date: Annual Program
Budget Category: Parks & Playgrounds	Supports Priority Area: Healthy, Livable Communities
Project Type: Asset Renewal	
Discrete/Bundled: Bundled	Project Manager: Jeff Spares
Multi-Year: No	Asset Steward: Manager, Parks

Project Summary

This program is dedicated to improve the quality of parks, open spaces and play experiences. Areas of focus include upgrades to existing parks, play structures, bridges, walkways, boardwalks, pathways and retaining walls.

Playground equipment is assessed annually following Canadian Safety Association standards to ensure equipment is safe and functional. These assessments are used in prioritizing capital improvements.

A level 2 inspection for Park bridges was undertaken in 2017 which is used in prioritizing capital bridge improvements.

This program also supports project planning and consulting for materials testing, geotechnical, surveying and archeological as required.

Total Project Budget: n/a

Budget Estimate Confidence: +25%

Project Budget by Year

Fiscal Year	Previously Approved	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Gross Budget:	4,649,103	2,620,000	1,500,000	1,500,000	21,000,000	31,269,103
Project Specific Funding:						
Q421 (General Contingency Reserve)	-	650,000	-	-	-	650,000
Area Rate & Private Cost Sharing	-	100,000	-	-	-	100,000
Total Funding:	-	750,000	-	-	-	750,000
Net Budget:	4,649,103	1,870,000	1,500,000	1,500,000	21,000,000	30,519,103

Impact on Operating Budget:

Increase upon completion.

Operating Impacts of Capital Budget / Lifecycle Cost

	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Ongoing Operating Costs (Savings)	11,250	14,500	14,500	14,500	54,750
One-time Operating Costs (Savings)	-	-	-	-	-

Detailed Work Plan for 2019/20:

	2019/20
Refer to attached work plan	3,546,782
Total Estimated Work Plan	3,546,782
Less Projected Carry Forward from Previous Years	926,782
Gross Budget Request	2,620,000

Capital Project Supplementary Report

Project Name: Park Recapitalization	Project # CP180001
--	-------------------------------------

APPROVED CARRY FORWARD PROJECTS

PROJECT LOCATION	PROJECT TYPE	ESTIMATE
Flinn Park	Play Structure	20,000
Stanley I Raine Park	Play Structure	50,000
Whimsical Lake Park	Play Structure	40,000
Connaught Battery Park	Play Structure	40,000
Shubie Canal Lock #3 - BR336	Bridge Upgrades	50,000
Millwood High School Park - BR378	Bridge Upgrades	75,000
Millwood Common Park - BR379	Bridge Upgrades	75,000
Fish Hatchery Park	Centotaph Restoration	100,000
Contingency, Holdbacks, Deficiency Correction		326,782
TOTAL ESTIMATE CARRY FORWARD PROJECTS		\$776,782

2019/2020 NEW PROJECTS

PROJECT LOCATION	PROJECT TYPE	ESTIMATE
Partridge Nest Drive Park	Play Structure	
Salmon River Drive Park	Play Structure	
Keyport Avenue Park	Play Structure	
Brompton Road Park	Play Structure	
Astral Drive Neighbourhood Park (New)	Play Structure	
Humber Park Elementary School	Play Structure	
Carolyns Way Park	Play Structure	
Clement Street Park	Play Structure	
Pine Street Park	Play Structure	
Northbrook Park	Play Structure	
Belvedere Park	Play Structure	
Guy & Irene Tucker Park	Play Structure	
Terence Bay Elementary School Park	Play Structure	
Old Dalhousie School Site	Play Structure	
Titanium Crescent Park (New)	Play Structure	
Remington Court Park	Play Structure	
Beechville Lakeside Timberlea School	Play Structure	
Kingswood Drive Park	Play Structure	
Upper Hammonds Plains Recreation Centre	Play Structure	
Stone Mount Drive Park	Play Structure	
Bradford Place Park (New)	Play Structure	
Admiral Harry Dewolf Park (New Swings)	Play Structure	
Oakmount House Park	Play Structure	
		\$1,630,000
Russell Lake Park - BR353	Bridge Upgrades	
Melrose Crescent Park Boardwalk - BR700	Bridge Upgrades	
Oathill Lake Park Boardwalk - BR725	Bridge Upgrades	
Martins Park Boardwalk - BR358	Bridge Upgrades	
Shubie Park Campground - BR406	Bridge Upgrades	
Spectacle Lake Park Boardwalk East/West - BR723/BR724	Bridge Upgrades	
Shubie Canal Greenway North - BR400	Bridge Upgrades	
Shubie Park Parking Lot Access Road	Bridge Upgrades	

Project Name: Park Recapitalization		Project # CP180001
Shubie Park Off-Leash Area BR399	Bridge Upgrades	
Sherwood Park - BR305/BR306	Bridge Upgrades	\$680,000
Fish Hatchery Park	Cenotaph Restoration	100,000
Ferry Terminal Park	Daffodil Gardens	50,000
Highland Park	Timberlane Terrace Park Development	50,000
Consulting - materials testing, geotechnical, surveying and archeological as required		260,000
TOTAL ESTIMATE NEW PROJECTS		\$2,770,000
TOTAL 2019/20 WORKPLAN		\$3,546,782
SUMMARY OF BUDGET BREAKDOWN		
District 5 Capital Fund and Private Fundraising for Daffodil Gardens		\$50,000
Area Rate (Highland Park Ratepayers Association) for Timberlane Terrace Park Development		\$50,000
Q421 General Contingency Reserve		\$650,000
HRM 2019/20 Capital Budget		\$1,870,000
HRM - Projected Carry Forward from Previous Years		\$926,782
TOTAL BUDGET		\$3,546,782

2019/20 Capital Budget Form

Project Name:	Point Pleasant Park Upgrades	Est. Start Date:	Apr-19
Project Number:	CP190003	Est. Completion Date:	Mar-20
Budget Category:	Parks & Playgrounds	Supports Priority Area:	Healthy, Livable Communities
Project Type:	Asset Renewal		
Discrete/Bundled:	Discrete	Project Manager:	Jeff Spares
Multi-Year:	No	Asset Steward:	Manager, Parks

Project Summary

A Park Development Plan was prepared as part of the 2008 Point Pleasant Park Comprehensive Plan. It described opportunities to improve the visual and practical aspects of the Park. All three main entrances were identified to be redeveloped to provide a clear definition for visitor arrival and transition into the Park. In 2011, implementation of the Tower Road entrance parking lot, and the northern portion of the Harbour entrance parking lot were completed. In 2018, the redevelopment of the lower parking lot at the Harbour entrance was completed.

This program includes future perimeter stonewall restoration and shoreline improvements. Coldwater Consulting Limited conducted a Point Pleasant Park Storm Waves and Shoreline Restoration Technical Report in 2009. Armouring against shoreline retreat and stabilization were recommended from Black Rock Beach to the Eastern Shoreline/Bonaventure Anchor/Point Pleasant Battery/Sailors Memorial.

Total Project Budget: 13,525,000

Budget Estimate Confidence: +-35%

Project Budget by Year

Fiscal Year	Previously Approved	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Gross Budget:	925,000	-	-	-	12,600,000	13,525,000
Project Specific Funding:						
Reserves	-	-	-	-	-	-
Other Funding	-	-	-	-	-	-
Total Funding:	-	-	-	-	-	-
Net Budget:	925,000	-	-	-	12,600,000	13,525,000

Impact on Operating Budget:

No impact.

Operating Impacts of Capital Budget / Lifecycle Cost

	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Ongoing Operating Costs (Savings)	-	-	-	-	-
One-time Operating Costs (Savings)	-	-	-	-	-

Detailed Work Plan for 2019/20:

2019/20

Approved Carry Forward Projects	
Point Pleasant Park - lower parking lot new lights	96,428
Total Estimated Work Plan	96,428
Less Projected Carry Forward from Previous Years	96,428
Gross Budget Request	-

2019/20 Capital Budget Form

Project Name: Public Gardens Upgrades	Est. Start Date: Apr-19
Project Number: CP190005	Est. Completion Date: Mar-20
Budget Category: Parks & Playgrounds	Supports Priority Area: Healthy, Livable Communities
Project Type: Asset Renewal	
Discrete/Bundled: Discrete	Project Manager: Jeff Spares
Multi-Year: No	Asset Steward: Manager, Parks

Project Summary

The immediate priority, identified in the Cultural Asset Study of the Halifax Public Garden's built heritage assets, is restoration of the perimeter fencing. Restoration of ornamental steel fencing around the Public Gardens includes removal, sand blasting, priming and reinstallation. The carry forward funding is for the final section of fence; the main entrance gates.

This program also includes funding for the design of the South African Memorial fountain rehabilitation.

Total Project Budget: 3,429,420

Budget Estimate Confidence: +35%

Project Budget by Year

Fiscal Year	Previously Approved	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Gross Budget:	2,829,420	-	-	-	600,000	3,429,420
Project Specific Funding:						
Reserves	-	-	-	-	-	-
Other Funding	-	-	-	-	-	-
Total Funding:	-	-	-	-	-	-
Net Budget:	2,829,420	-	-	-	600,000	3,429,420

Impact on Operating Budget:

No impact.

Operating Impacts of Capital Budget / Lifecycle Cost

	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Ongoing Operating Costs (Savings)	-	-	-	-	-
One-time Operating Costs (Savings)	-	-	-	-	-

Detailed Work Plan for 2019/20:

	2019/20
<u>Approved Carry Forward Project</u>	
Griffin's Pond Dredging - weir repair	59,566
<u>2019/20 New Projects</u>	
Entrance Gate Rehabilitation	200,000
South African Memorial Fountain Rehabilitation - Detailed Design	100,000
Total Estimated Work Plan	359,566
Less Projected Carry Forward from Previous Years	359,566
Gross Budget Request	-

2019/20 Capital Budget Form

Project Name: Recreational Trails	Est. Start Date: Annual Program
Project Number: CP190002	Est. Completion Date: Annual Program
Budget Category: Parks & Playgrounds	Supports Priority Area: Healthy, Livable Communities
Project Type: Growth	
Discrete/Bundled: Bundled	Project Manager: Jeff Spares
Multi-Year: No	Asset Steward: Manager, Parks

Project Summary

The March 28, 2018 meeting of the Budget Committee approved a resolution "That the Budget Committee refer the Recreational Trail Pilot Program funding of \$250,000 to be considered in the 2019/20 budget cycle." This funding is for engaging with Halifax Regional Trails Association (HRTA), planning and delivery of recreational trails. Specifically HRTA proposed to continue and expand recreational community-developed trails with funding from HRM. HRM and HRTA currently have a capital and maintenance agreements for various trails within the Active Transportation (AT) network. The majority of HRM trail funding has been allocated to AT trail investment resulting in only minor investments in recreational trails since 2014. Regional Council has established a prior focus on Regional and wilderness parks. Development of these parks will require considerable community input and stewardship to appropriately design and maintain these trails systems. Therefore there is merit in prioritizing recreational trail investments.

Total Project Budget: n/a

Budget Estimate Confidence: +-35%

Project Budget by Year

Fiscal Year	Previously Approved	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Gross Budget:	-	-	250,000	250,000	-	500,000
Project Specific Funding:						
Reserves	-	-	-	-	-	-
Other Funding	-	-	-	-	-	-
Total Funding:	-	-	-	-	-	-
Net Budget:	-	-	250,000	250,000	-	500,000

Impact on Operating Budget:

Increase upon completion of the project.

Operating Impacts of Capital Budget / Lifecycle Cost

	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Ongoing Operating Costs (Savings)	-	-	-	-	-
One-time Operating Costs (Savings)	-	-	-	-	-

Detailed Work Plan for 2019/20:

	2019/20
Total Estimated Work Plan	-
Less Projected Carry Forward from Previous Years	
Gross Budget Request	-

2019/20 Capital Budget Form

Project Name:	Regional Water Access/Beach Upgrades	Est. Start Date:	Annual Program
Project Number:	CP180002	Est. Completion Date:	Annual Program
Budget Category:	Parks & Playgrounds	Supports Priority Area:	Healthy, Livable Communities
Project Type:	Asset Renewal		
Discrete/Bundled:	Bundled	Project Manager:	Jeff Spares
Multi-Year:	No	Asset Steward:	Manager, Parks

Project Summary

A study of HRM floating docks and boat ramps will be completed to assist in developing a prioritized list of future repairs/replacements.

This program also includes the replacement of the Jubilee Road floating dock.

The Northwest Arm Seawall and pathway runs along three park systems including Sir Sandford Fleming Park, Horseshoe Island and Regatta Point; and totals approximately two kilometers. Part of the system in Fleming Park and Horseshoe Island are more than sixty years old and were built using traditional methods. In 2010 Coldwater Consulting Ltd., completed a shoreline restoration study and technical report. This comprehensive report has provided staff with data and recommendations for the design details and priorities for a phased restoration strategy. The 2018/19 budget included funds for phase 1 of the Horseshoe Island Seawall Rehabilitation. Future budgets will include funds for phase 2 of the Horseshoe Island Seawall Restoration.

Total Project Budget: n/a

Budget Estimate Confidence: +25%

Project Budget by Year

Fiscal Year	Previously Approved	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Gross Budget:	1,133,394	100,000	150,000	150,000	5,900,000	7,433,394
Project Specific Funding:						
Reserves	-	-	-	-	-	-
Area Rate	-	20,000	-	-	-	20,000
Total Funding:	-	20,000	-	-	-	20,000
Net Budget:	1,133,394	80,000	150,000	150,000	5,900,000	7,413,394

Impact on Operating Budget:

No impact.

Operating Impacts of Capital Budget / Lifecycle Cost

	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Ongoing Operating Costs (Savings)	-	-	-	-	-
One-time Operating Costs (Savings)	-	-	-	-	-

Detailed Work Plan for 2019/20:

	2019/20
<u>Approved Carry Forward Project</u>	
Horseshoe Island Park Seawall Improvements - Phase 1	879,663
<u>2019/20 New Projects</u>	
Floating Docks & Boat Ramps - condition assessment	80,000
Jubilee Road Floating Dock - replacement	50,000
Lake Charlotte Boat Launch - driveway paving (Boat Launch Committee and District 2 Capital Fund)	20,000
Total Estimated Work Plan	1,029,663
Less Projected Carry Forward from Previous Years	929,663
Gross Budget Request	100,000

2019/20 Capital Budget Form

Project Name: Sports Fields/Courts - Renewal	Est. Start Date: Annual Program
Project Number: CP180003	Est. Completion Date: Annual Program
Budget Category: Parks & Playgrounds	Supports Priority Area: Healthy, Livable Communities
Project Type: Asset Renewal	
Discrete/Bundled: Bundled	Project Manager: Jeff Spares
Multi-Year: No	Asset Steward: Manager, Parks

Project Summary

This program provides for the life-cycle refurbishment of sport courts and sport fields. Upgrading of assets will provide for increased level of service.

This program also provides for a future study of HRM sport field poles/lights to assist in developing a prioritized list of repairs/replacements.

Total Project Budget: n/a

Budget Estimate Confidence: +-35%

Project Budget by Year

Fiscal Year	Previously Approved	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Gross Budget:	4,148,209	3,000,000	1,500,000	3,000,000	28,000,000	39,648,209
Project Specific Funding:						
Q421 (General Contingency Reserve)	-	1,500,000	-	-	-	1,500,000
Other Funding	-	-	-	-	-	-
Total Funding:	-	1,500,000	-	-	-	1,500,000
Net Budget:	4,148,209	1,500,000	1,500,000	3,000,000	28,000,000	38,148,209

Impact on Operating Budget:

Increase upon completion.

Operating Impacts of Capital Budget / Lifecycle Cost

	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Ongoing Operating Costs (Savings)	-	3,000	3,000	3,000	9,000
One-time Operating Costs (Savings)	-	-	-	-	-

Detailed Work Plan for 2019/20:

Refer to attached work plan	2019/20 5,041,049
Total Estimated Work Plan	5,041,049
Less Projected Carry Forward from Previous Years	2,041,049
Gross Budget Request	3,000,000

Capital Project Supplementary Report

Project Name: Sports Fields / Courts - Renewal	Project # CP180003
---	-------------------------------------

APPROVED CARRY FORWARD PROJECTS

PROJECT LOCATION	PROJECT TYPE	ESTIMATE
BJ Higgins	Sport Field Reconstruction	1,000,000
LeMarchant St. Thomas School	Sport Field Reconstruction	200,000
Graves Oakley Memorial Park	Sport Field Reconstruction	530,000
Mainland Common	Entrance Improvements	100,000
Contingency, Holdbacks, Deficiency Correction		111,049
TOTAL ESTIMATE CARRY FORWARD PROJECTS		\$1,941,049

2019/2020 NEW PROJECTS

PROJECT LOCATION	PROJECT TYPE	ESTIMATE
Ross Road School Park	Sport Court Rehabilitation	
Sir Robert Borden Junior High School Park	Sport Court Rehabilitation	
Northcliffe Recreation Park	Sport Court Rehabilitation	
Rockingstone Heights School Park	Sport Court Rehabilitation	
Terence Bay Elementary School Park	Sport Court Rehabilitation	
Beaver Bank Kinsac Park	Sport Court Rehabilitation	
Metropolitan Avenue Park	Sport Court Rehabilitation	
Sycamore Lane Elementary School Park	Sport Court Rehabilitation	
		\$950,000
East Preston Ball Field	Sport Field Rehabilitation	
Dennis Naugle Ball Field	Sport Field Rehabilitation	
Brownlow Soccer Field	Sport Field Rehabilitation	
Harold W. Conrad Memorial Ball Field	Sport Field Rehabilitation	
Conrose Park Ball Field	Sport Field Rehabilitation	
Tremont Plateau Park Ball Field	Sport Field Rehabilitation	
		\$2,150,000
TOTAL ESTIMATE NEW PROJECTS		\$3,100,000
TOTAL 2019/20 WORKPLAN		\$5,041,049

SUMMARY OF BUDGET BREAKDOWN

Q421 General Contingency Reserve	\$1,500,000
HRM 2019/20 Capital Budget	\$1,500,000
HRM - Projected Carry Forward from Previous Years	\$2,041,049
TOTAL BUDGET	\$5,041,049

2019/20 Capital Budget Form

Project Name: Sports/Ball Fields/Courts - New	Est. Start Date: Annual Program
Project Number: CP180005	Est. Completion Date: Annual Program
Budget Category: Parks & Playgrounds	Supports Priority Area: Healthy, Livable Communities
Project Type: Growth	
Discrete/Bundled: Bundled	Project Manager: Jeff Spares
Multi-Year: No	Asset Steward: Manager, Parks

Project Summary

This program provides for the development of new sport courts and sport fields and the installation of new lighting at sport fields.

Total Project Budget: n/a

Budget Estimate Confidence: +-25%

Project Budget by Year

Fiscal Year	Previously Approved	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Gross Budget:	581,086	40,000	-	-	2,400,000	3,021,086
Project Specific Funding:						
Reserves	-	-	-	-	-	-
Area Rate	-	40,000	-	-	-	40,000
Total Funding:	-	40,000	-	-	-	40,000
Net Budget:	581,086	-	-	-	2,400,000	2,981,086

Impact on Operating Budget:

Increase upon completion of the project.

Operating Impacts of Capital Budget / Lifecycle Cost

	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Ongoing Operating Costs (Savings)	1,000	1,000	1,000	1,000	4,000
One-time Operating Costs (Savings)	-	-	-	-	-

Detailed Work Plan for 2019/20:

	2019/20
<u>Approved Carry Forward Project</u>	
MacDonald Sports Park - New Ball Field Lights	180,000
Contingency, Holdbacks, Deficiency Correction	41,086
<u>2019/20 New Project</u>	
Glen Arbour Way Park Subdivision - New Sport Court. Glen Arbour Homeowners Association and Hammonds Plains Common Area Rate	40,000
Total Estimated Work Plan	261,086
Less Projected Carry Forward from Previous Years	221,086
Gross Budget Request	40,000

2019/20 Capital Budget Form

Project Name: Western Common Master Plan Implementation	Est. Start Date: Apr-22
Project Number: CP000014	Est. Completion Date: Mar-23
Budget Category: Parks & Playgrounds	Supports Priority Area: Healthy, Livable Communities
Project Type: Growth	
Discrete/Bundled: Discrete	Project Manager: Jeff Spares
Multi-Year: No	Asset Steward: Manager, Parks

Project Summary

The Western Common Wilderness Master Plan was completed and approved by Regional Council in 2010. The Western Common extends over lands owned by HRM between Highway 103 to the north, Highway 333 (Prospect Road) to the south, to the Ragged Lake Business Park in the east and to the Nine Mile River in the west. The first two phases of the development of the Western Common Wilderness trail system was started in 2016/17 and 2017/18 and involved the design and development of trails. The next phase will focus on the design of a bridge to accommodate a future water crossing.

Total Project Budget: 850,000

Budget Estimate Confidence: +-35%

Project Budget by Year

Fiscal Year	Previously Approved	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Gross Budget:	150,000	-	-	-	700,000	850,000
Project Specific Funding:						
Reserves	-	-	-	-	-	-
Other Funding	-	-	-	-	-	-
Total Funding:	-	-	-	-	-	-
Net Budget:	150,000	-	-	-	700,000	850,000

Impact on Operating Budget:

Increase upon completion of the project.

Operating Impacts of Capital Budget / Lifecycle Cost

	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Ongoing Operating Costs (Savings)	-	-	-	9,000	9,000
One-time Operating Costs (Savings)	-	-	-	-	-

Detailed Work Plan for 2019/20:

	2019/20
<u>Approved Carry Forward Project</u>	
Nicholas Lake Trail Phase 1C - Detailed Design	89,613
Total Estimated Work Plan	89,613
Less Projected Carry Forward from Previous Years	89,613
Gross Budget Request	-

Tab - Roads & Active Transportation

Roads and Active Transportation

Page #	Project Name	Old Project #	New Project #	2019/20 Workplan	2019/20 Carry Forward	2019/20 Gross	2019/20 Funding	2019/20 Net
F1	AT - Strategic Projects	CR180001	CR180001	10,604,045	3,056,045	7,548,000	3,548,000	4,000,000
F4	Barrington Street Road & AT Imp.	-	CT190007	903,000	-	903,000	-	903,000
F5	Bridges	CR180003	CR180003	6,331,577	3,241,577	3,090,000	-	3,090,000
F7	Macdonald Bridge Bikeway	CT000010	CT000010	1,000,000	-	1,000,000	-	1,000,000
F8	New Paving Streets - HRM Roads	CR180006	CR180006	608,000	366,000	242,000	80,667	161,333
F10	New Paving Subdivision - Prov.	CR180007	CR180007	270,000	-	270,000	270,000	-
F12	Other Road Related Works	CR180004	CR180004	2,786,396	786,396	2,000,000	-	2,000,000
F15	Road Ops & Construction - SoGR	CR180005	CR180005	4,150,000	150,000	4,000,000	-	4,000,000
F16	Sidewalk Renewals	CR180002	CR180002	5,306,067	2,591,067	2,715,000	2,440,000	275,000
F18	Storm Sewer Upgrades	CR000001	CR000001	922,666	922,666	-	-	-
F19	Street Recapitalization	CR000009	CR000009	37,320,000	10,343,000	26,977,000	15,816,333	11,160,667
	Grand Total			70,201,751	21,456,751	48,745,000	22,155,000	26,590,000

2019/20 Capital Budget Form

Project Name:	AT - Strategic Projects	Est. Start Date:	Annual Program
Project Number:	CR180001	Est. Completion Date:	Annual Program
Budget Category:	Roads & Active Transportation	Supports Priority Area:	Transportation
Project Type:	Growth		
Discrete/Bundled:	Bundled	Project Manager:	David Hubley
Multi-Year:	No	Asset Steward:	Manager, Road Ops & Construction

Project Summary

These projects support the implementation of the Integrated Mobility Plan (IMP) and the Active Transportation (AT) Priorities Plan. These plans lay out a strategy to implement AT infrastructure and programs through to 2022. Capital projects prioritized in these plans include new sidewalks, multi-use pathways (AT greenways) and AT bridges (for walking, bicycling and other active transportation modes), multi-use pathways built and maintained by community associations, and on-road bicycling facilities. Funding is also for planning and design, supportive infrastructure (e.g. bicycle racks, amenities, and pavement markings), and education and promotion activities related to new facilities. Projects are based on the proposed routes from the IMP and AT Priorities Plan. This program also includes funding to support two additional term AT Planner positions.

Total Project Budget: n/a

Budget Estimate Confidence: +-35%

Project Budget by Year

Fiscal Year	Previously Approved	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Gross Budget:	10,298,514	7,548,000	3,000,000	3,000,000	89,000,000	112,846,514
Project Specific Funding:						
Q631 (Debt Principal and Interest Repayment Reserve)	-	3,548,000	-	-	-	3,548,000
Cost Sharing	118,064	-	-	-	-	118,064
Total Funding:	118,064	3,548,000	-	-	-	3,666,064
Net Budget:	10,180,450	4,000,000	3,000,000	3,000,000	89,000,000	109,180,450

Impact on Operating Budget:

The construction of new AT facilities will impact ongoing maintenance costs including: snow and ice removal; sidewalk, curb, bike lane and trail repair and maintenance; inspection and assessment; line painting; grass cutting; and tree maintenance.

Operating Impacts of Capital Budget / Lifecycle Cost

	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Ongoing Operating Costs (Savings)	225,600	67,500	67,500	1,939,500	2,300,100
One-time Operating Costs (Savings)	-	-	-	-	-

Detailed Work Plan for 2019/20:

	2019/20
Refer to attached work plan.	10,604,045
Total Estimated Work Plan	10,604,045
Less Projected Carry Forward from Previous Years	3,056,045
Gross Budget Request	7,548,000

Capital Project Supplementary Report

Project Name: Active Transportation	Project # CR180001
---	------------------------------

APPROVED NEW SIDEWALK CARRY FORWARD PROJECTS

PROJECT/LOCATION	FROM	TO	DISTRICT	ESTIMATE
Athorpe Dr	Civic 46	Opposite Civic 27	6	\$95,000
Eastview Dr	Glenora	Civic 14	9	\$34,000
Coronation Ave	Willett	Hillcrest	10	\$190,000
Total Estimate New Sidewalk Carry Forward Projects				\$319,000

APPROVED MULTI-USE PATHWAY CARRY FORWARD PROJECTS

PROJECT/LOCATION	FROM	TO	DISTRICT	ESTIMATE
HRM				
Porter's Lake Metro X AT Connection	Park and Ride Lot	Blueberry Trail (across highway)	2	\$577,000

Halifax Regional Trails Association (HRTA) Proposed, HRM Implemented

Sackville-Bedford Greenway - Realignment and Recapitalize Segment	Adjacent to 1746 Bedford Highway		16	\$125,000
Total Estimate Multi-Use Pathway Carry Forward Projects				\$702,000

APPROVED BIKE LANE CARRY FORWARD PROJECTS

PROJECT/LOCATION	FROM	TO	DISTRICT	ESTIMATE
Wyse Rd	Boland	Albro Lake	5	\$25,000
South Park St	Spring Garden	Inglis	7	\$500,000
Almon St	Windsor	Gottingen	8	\$300,000
Total Estimate Bike Lane Carry Forward Projects				\$825,000

APPROVED LOCAL STREET BIKEWAY CARRY FORWARD PROJECTS

PROJECT/LOCATION	FROM	TO	DISTRICT	ESTIMATE
Vernon St and Seymour St	Quinpool	University	7	\$240,000
Allan St and Oak St	Connaught	Windsor	8/9	\$167,000
Total Estimate Local Street Bikeway Carry Forward Projects				\$407,000

APPROVED AT GENERAL CARRY FORWARD PROJECTS

PROJECT/LOCATION	FROM	TO	DISTRICT	ESTIMATE
AT Amenities			Various	\$15,000
AT Planning Studies			Various	\$180,000
Chain of Lakes Greenway - Wayfinding Signage and Enhancements	Various Locations		9	\$50,000
Total Estimate Approved AT General Carry Forward Projects				\$245,000

TOTAL ESTIMATE CARRY FORWARD PROJECTS

\$2,498,000

2019/2020 NEW SIDEWALK PROJECTS

PROJECT/LOCATION	FROM	TO	DISTRICT	ESTIMATE
Shore Rd	Cow Bay	Government Wharf	3	\$150,000
Astral Dr	428 Astral	488 Astral	3	\$325,000
Colby Dr	Hampton Green	Hardisty	4	\$67,000
Chadwick St	Pleasant	Glenview	5	\$162,000
Glenview Dr	Chadwick	Renfrew	5	\$22,000
Akerley Blvd	Joseph Zatzman	Bus Stops	6	\$320,000
Tobin Dr	Christopher	Cul De Sac	6	\$72,000
Wanda Ln	Tobin	Mount Edward	6	\$102,000
Colindale St	Pearl	Purcell's Cove	9	\$160,000
Forestglen Dr	Trunk 3	James	12	\$621,000
Lakeview Dr	Maplegrove	Trunk 3	12	\$158,000
Miscellaneous Integration			Various	\$158,000
Total Estimate New Sidewalk Projects				\$2,317,000

2019/20 NEW AT BICYCLE INFRASTRUCTURE

PROJECT/LOCATION	FROM	TO	DISTRICT	ESTIMATE
Hollis St	Barrington	Cogswell Area	7	\$739,045
Almon St	Windsor	Gottingen	8	\$350,000
Isleville / Kaye / Young Intersection			8	\$150,000
Total Estimate New AT Bicycle Infrastructure				\$1,239,045

2019/20 NEW MULTI-USE PATHWAY PROJECTS

PROJECT/LOCATION	FROM	TO	DISTRICT	ESTIMATE
Blue Forest Lane to Kingswood Dr - Design and Tender	Blue Forest	Kingswood	13	\$0
Total Estimate New Multi-Use Pathway Projects				\$0

Project Name: Active Transportation				Project # CR180001	
2019/20 HRTA AT PROJECTS					
PROJECT/LOCATION	FROM	TO	DISTRICT	ESTIMATE	
SWEPS - Lake William Bridge	Lake William Trail		1	\$150,000	
SWEPS - RiverLake Planning and Design			1	\$20,000	
Eastern Shore SATA - Gaetz Brook Greenway	Porters Lake	Musquodoboit Harbour	2	\$430,000	
MTA - Little River Greenway - Phase 1	Musquodoboit Railway Museum and Tourist Bureau	Marine Dr (Hwy 7)	2	\$154,000	
Salt Marsh Trail - Re-Rocking	Bisset Rd	West Lawrencetown Rd	2/4	\$25,000	
Shearwater Flyer - Resurfacing	Hines Rd	Bissett Rd	3	\$8,000	
CHPTA - Cole Harbour Heritage Greenway Amenities	Cole Harbour Heritage Greenway (256 Bissett Road)		4	\$1,500	
BLT - Resurfacing	Ditching in KM 7: KM 11 - Five Bridges Junior High	KM 13 - Trail crossing with Hwy 3	12	\$10,000	
HNWTA - Halifax Mainland Linear Pkwy Replace Wayfinding Map	Canada Games Centre Parking Lot		12	\$1,500	
Total Estimate New HRTA AT Projects				\$800,000	
2019/20 FUNCTIONAL PLANS AND DETAILED DESIGNS					
PROJECT/LOCATION	FROM	TO	DISTRICT	ESTIMATE	
Woodside Ferry to Shearwater Flyer Functional Plan			3		
Cole Harbour Place AT Connections Design			4		
Dartmouth IMP Routes (e.g., Dahlia, Harbourfront, North End)			5/6		
Halifax IMP Routes (e.g., Mid-Peninsula, North End, West End, University-Morris, Chain of Lakes Connection; Halifax Urban Greenway)			7/8/9		
Bayers Lake Business Park AT Functional Plan			12		
Halifax Mainland Linear Trail extension- design	Parkland Dr across Kearney Lake Rd	Waterline track and then to Bedford South	12		
AT Crossing of 100-Series Highway Planning			Various		
Integration Opportunity Plans and Designs (e.g., Lucasville, Sackville Greenway)			Various		
Total Estimate Functional Plans and Detailed Designs				\$825,000	
2019/20 ACTIVE TRANSPORTATION GENERAL PROJECTS					
AT Amenities (e.g., Wayfinding, Bike Parking, Planters, Tactical Opportunities)			Various	\$50,000	
AT Studies (e.g., Bike Share Feasibility, Economic Impact)			Various	\$50,000	
Condition Rating of HRM Owned AT Bridges			Various	\$50,000	
Monitoring Equipment			Various	\$50,000	
New Facility Education and Promotion			Various	\$100,000	
Total Estimate Active Transportation General Projects				\$300,000	
2019/20 SPECIAL IMP PROJECTS					
Herring Cove Road Sidewalk	Lynnett	Civic 554	11	\$969,000	
Herring Cove Road Sidewalk	Greystone	Civic 565	11	\$1,456,000	
AT Planning Resource				\$100,000	
AT Planning Resource				\$100,000	
TOTAL ESTIMATE NEW PROJECTS				\$8,106,045	
TOTAL 2019/20 WORKPLAN				\$10,604,045	
SUMMARY OF BUDGET BREAKDOWN					
2019/20 AT Budget				\$7,548,000	
Projected Carry Forward from Previous Years				\$3,056,045	
TOTAL BUDGET				\$10,604,045	
2019/20 Potential Projects					
Northwest Arm Dr	Chain of Lakes Greenway	Walter Havill Dr	9/12	\$870,000	

2019/20 Capital Budget Form

Project Name:	Barrington Street Road & AT Imp.	Est. Start Date:	Jun-19
Project Number:	CT190007	Est. Completion Date:	Dec-19
Budget Category:	Roads & Active Transportation	Supports Priority Area:	Transportation
Project Type:	Asset Renewal		
Discrete/Bundled:	Discrete	Project Manager:	David Hubley
Multi-Year:	No	Asset Steward:	Manager, Road Ops & Construction

Project Summary

The Barrington Street road and active transportation improvements project includes sidewalk upgrades, a new multi-use trail, street rehabilitation, lane width and designation changes between North Street and Niobi Gate.

Total Project Budget: 903,000

Budget Estimate Confidence: +-25%

Project Budget by Year

Fiscal Year	Previously Approved	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Gross Budget:	-	903,000	-	-	-	903,000
Project Specific Funding:						
Reserves	-	-	-	-	-	-
Other Funding	-	-	-	-	-	-
Total Funding:	-	-	-	-	-	-
Net Budget:	-	903,000	-	-	-	903,000

Impact on Operating Budget:

There are currently sidewalks in this area. The project looks to upgrade one sidewalk to a multi-use and renew the other. OCC impacts should be limited. Street renewal should not impact OCC.

Operating Impacts of Capital Budget / Lifecycle Cost

	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Ongoing Operating Costs (Savings)	-	-	-	-	-
One-time Operating Costs (Savings)	-	-	-	-	-

Detailed Work Plan for 2019/20:

	2019/20
Project Includes sidewalk upgrades, a new multi-use trail, street rehabilitation, lane width and designation changes between North Street and Niobi Gate.	903,000
Total Estimated Work Plan	903,000
Less Projected Carry Forward from Previous Years	
Gross Budget Request	903,000

2019/20 Capital Budget Form

Project Name: Bridges	Est. Start Date: Annual Program
Project Number: CR180003	Est. Completion Date: Annual Program
Budget Category: Roads & Active Transportation	Supports Priority Area: Transportation
Project Type: Asset Renewal	
Discrete/Bundled: Bundled	Project Manager: David Hubley
Multi-Year: No	Asset Steward: Manager, Road Ops & Construction

Project Summary

The Bridge program is developed from the work plan prepared as part of the deliverables identified in the Triennial Level 2 Bridge Inspection Program. The Level 2 Bridge Inspection Program outlines maintenance and capital work required in the short term (1-2 years), medium term (5 years) and long term (10 years).

Total Project Budget: n/a

Budget Estimate Confidence: +-35%

Project Budget by Year

Fiscal Year	Previously Approved	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Gross Budget:	3,968,050	3,090,000	3,500,000	3,500,000	27,000,000	41,058,050
Project Specific Funding:						
Reserves	-	-	-	-	-	-
Other Funding	-	-	-	-	-	-
Total Funding:	-	-	-	-	-	-
Net Budget:	3,968,050	3,090,000	3,500,000	3,500,000	27,000,000	41,058,050

Impact on Operating Budget:

None

Operating Impacts of Capital Budget / Lifecycle Cost

	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Ongoing Operating Costs (Savings)	-	-	-	-	-
One-time Operating Costs (Savings)	-	-	-	-	-

Detailed Work Plan for 2019/20:

Refer to attached work plan.	2019/20 6,331,577
Total Estimated Work Plan	6,331,577
Less Projected Carry Forward from Previous Years	3,241,577
Gross Budget Request	3,090,000

Capital Project Supplementary Report

Project Name: Bridges	Project # CR180003
--	-------------------------------------

APPROVED CARRY FORWARD PROJECTS

PROJECT/LOCATION	DISTRICT	ESTIMATE
BR57 Walker Bridge - Replace timber crib abutments (including detail design) and replacement detail design	2/4	\$320,000
BR49 Kimberley Cres Pedway - Design and construction	6	\$200,000
BR26 Lady Hammond Rd - Detail design	8	\$200,000
BR24 CN Quinpool Rd - Bridge rehabilitation	9	\$651,000
BR41 Lucasville Rd - Level 3 inspection and bridge design	14	\$100,000
Miscellaneous Bridge Repairs / Designs / Inspections	Various	\$100,000
TOTAL ESTIMATE CARRY FORWARD PROJECTS		\$1,571,000

2019/2020 PROJECTS

PROJECT/LOCATION	DISTRICT	ESTIMATE
BR122 Shore Rd at Fisherman's Cove - Construction	3	\$927,577
BR132 Barry's Run Pedestrian Bridge - Level 3 inspection /scoping	6	\$25,000
BR159 Tobin Dr - Construction	6	\$540,000
NSTIR Integration Projects - BR115 Victoria Road CN Bridge Repairs	6	\$375,000
BR075 CN Belmont on the Arm and BR076 CN Marlborough Woods - Bridge rehabilitation	7	\$853,000
BR027 John Brackett Dr Bridge - Level 3 inspection / scoping	11	\$50,000
BR199 Buckingham Dr Culvert - Level 3 inspection / scoping	13	\$30,000
BR200 Windsor Dr Bridge - Level 3 inspection / scoping	13	\$30,000
BR65 Rosley Rd - Bridge replacement	14	\$1,200,000
BR124 Moirs Mill - Lake Pedestrian Bridge replacement	16	\$700,000
Miscellaneous Bridge Repairs / Designs / Inspections	Various	\$30,000
TOTAL ESTIMATE NEW PROJECTS		\$4,760,577

TOTAL 2019/20 WORKPLAN

\$6,331,577

SUMMARY OF BUDGET BREAKDOWN

2019/20 Bridge Budget	\$3,090,000
Projected Carry Forward from Previous Years	\$3,241,577
TOTAL BUDGET	<u>\$6,331,577</u>

2019/20 Capital Budget Form

Project Name: Macdonald Bridge Bikeway	Est. Start Date: Apr-18
Project Number: CT000010	Est. Completion Date: TBD
Budget Category: Roads & Active Transportation	Supports Priority Area: Transportation
Project Type: Growth	
Discrete/Bundled: Discrete	Project Manager: David Hubley
Multi-Year: Yes	Asset Steward: Manager, Road Ops & Construction

Project Summary

This project supports the planning, detailed design and construction of structures, intersection modifications and on-road bikeways to enable safer and more accessible access to the Macdonald Bridge Bikeway from the on-road bicycle network on both sides of the harbour. The project also includes multi-modal changes to support all modes. This project implements recommendations of the Integrated Mobility Plan (IMP), the Halifax Active Transportation (AT) Priorities Plan, the Mayor's Conversation on Healthy and Livable Communities, and Halifax Transit's Moving Forward Together Plan.

Total Project Budget: 7,000,000

Budget Estimate Confidence: +-35%

Project Budget by Year

Fiscal Year	Previously Approved	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Gross Budget:	-	1,000,000	-	-	6,000,000	7,000,000
Project Specific Funding:						
Reserves	-	-	-	-	-	-
Other Funding	-	-	-	-	-	-
Total Funding:	-	-	-	-	-	-
Net Budget:	-	1,000,000	-	-	6,000,000	7,000,000

Impact on Operating Budget:

The construction of the new Macdonald Bridge Bikeway Connector will impact ongoing maintenance costs including: snow and ice removal; curb and bike lane repair and maintenance; bridge repair and maintenance, inspection and assessment; and line painting.

Operating Impacts of Capital Budget / Lifecycle Cost

	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Ongoing Operating Costs (Savings)	-	-	-	-	-
One-time Operating Costs (Savings)	-	-	-	-	-

Detailed Work Plan for 2019/20:

	2019/20
Services of a consultant for the planning and detailed design in 2019/20 and ongoing project management.	400,000
Begin construction on Dartmouth project elements.	600,000
Total Estimated Work Plan	1,000,000
Less Projected Carry Forward from Previous Years	
Gross Budget Request	1,000,000

2019/20 Capital Budget Form

Project Name:	New Paving Streets - HRM Roads	Est. Start Date:	Annual Program
Project Number:	CR180006	Est. Completion Date:	Annual Program
Budget Category:	Roads & Active Transportation	Supports Priority Area:	Transportation
Project Type:	Growth		
Discrete/Bundled:	Bundled	Project Manager:	David Hubley
Multi-Year:	No	Asset Steward:	Manager, Road Ops & Construction

Project Summary

This program applies to the paving of HRM owned and maintained gravel roads. Pursuant to the new process approved by Council in 2017, residents will incur a local improvement charge of 1/3 of the total construction cost, while HRM will fund the remaining 2/3. The paving of these roads improves rideability and reduces short term maintenance costs in regards to street repair.

Total Project Budget: n/a

Budget Estimate Confidence: +-35%

Project Budget by Year

Fiscal Year	Previously Approved	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Gross Budget:	1,406,995	242,000	-	-	2,600,000	4,248,995
Project Specific Funding:						
Reserves	-	-	-	-	-	-
Local Improvement Charge (LIC)	468,994	80,667	-	-	866,666	1,416,327
Total Funding:	468,994	80,667	-	-	866,666	1,416,327
Net Budget:	938,001	161,333	-	-	1,733,334	2,832,668

Impact on Operating Budget:

Once newly paved, short term maintenance costs should decrease.

Operating Impacts of Capital Budget / Lifecycle Cost

	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Ongoing Operating Costs (Savings)	1,600	1,600	1,600	60,200	65,000
One-time Operating Costs (Savings)	-	-	-	-	-

Detailed Work Plan for 2019/20:

Detailed Work Plan for 2019/20:	2019/20
Refer to attached work plan.	608,000
Total Estimated Work Plan	608,000
Less Projected Carry Forward from Previous Years	366,000
Gross Budget Request	242,000

Capital Project Supplementary Report

Project Name: New Paving Streets - HRM Owned Roads	Project # CR180006
---	-------------------------------------

APPROVED CARRY FORWARD PROJECTS

PROJECT/LOCATION	FROM	TO	LIC	DISTRICT	ESTIMATE
Trinity Ln	Beaver Bank	End of Gravel	YES	14	\$366,000
					\$366,000

2019/2020 PROJECTS

PROJECT/LOCATION	FROM	TO	LIC	DISTRICT	ESTIMATE
Silverside Dr	Rolling Hills	Cul De Sac	YES	1	\$53,000
Rosley Rd	End of Asphalt	HRM Limit	YES	14	\$110,000
Topsail Crt	Bluewater	Cul De Sac	YES	16	\$79,000
TOTAL ESTIMATE NEW PROJECTS					\$242,000

TOTAL 2019/20 WORKPLAN

\$608,000

SUMMARY OF BUDGET BREAKDOWN

2019/20 Local Improvement Charge *	\$202,667
2019/20 HRM Funding (Funded from CR000009)	\$161,333
HRM - Projected Carry Forward from Previous Years	\$244,000
TOTAL BUDGET	\$608,000

* 1/3 Residents, 2/3 HRM cost sharing

2019/20 Capital Budget Form

Project Name:	New Paving Subdivision - Prov.	Est. Start Date:	Annual Program
Project Number:	CR180007	Est. Completion Date:	Annual Program
Budget Category:	Roads & Active Transportation	Supports Priority Area:	Transportation
Project Type:	Growth		
Discrete/Bundled:	Bundled	Project Manager:	David Hubley
Multi-Year:	No	Asset Steward:	NSTIR

Project Summary

This program supports the paving of residential gravel roads that are within HRM but are owned and maintained by the Province. The funding to cover the construction costs is equally shared (50/50) between the residents (through local improvement charges) and the Province. Prior to the program proceeding, the Province must approve their portion of the funding and there must be the appropriate level of support from the residents, pursuant to Bylaw S-400.

Total Project Budget: n/a

Budget Estimate Confidence: +-35%

Project Budget by Year

Fiscal Year	Previously Approved	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Gross Budget:	490,000	270,000	500,000	500,000	3,500,000	5,260,000
Project Specific Funding:						
Reserves	-	-	-	-	-	-
Local Improvement Charge (LIC)	490,000	270,000	500,000	500,000	3,500,000	5,260,000
Total Funding:	490,000	270,000	500,000	500,000	3,500,000	5,260,000
Net Budget:	-	-	-	-	-	-

Impact on Operating Budget:

None

Operating Impacts of Capital Budget / Lifecycle Cost

	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Ongoing Operating Costs (Savings)	-	-	-	-	-
One-time Operating Costs (Savings)	-	-	-	-	-

Detailed Work Plan for 2019/20:

	2019/20
Refer to attached work plan.	270,000
The gross budget reflects the HRM portion of the work only. The Province completes the work (\$540,000) and charges HRM 50% of the total construction costs, which HRM recovers through the LIC program.	
Total Estimated Work Plan	270,000
Less Projected Carry Forward from Previous Years	
Gross Budget Request	270,000

Capital Project Supplementary Report

Project Name: New Paving Subdivision Streets - Provincial	Project # CR180007
--	-------------------------------------

2019/2020 PROJECTS

PROJECT/LOCATION	FROM	TO	LIC	DISTRICT	ESTIMATE
Bayshore Dr	Prospect	End	Yes	11	\$88,000
Delmerle Dr	Tara	End	Yes	11	\$324,000
Maple Dr	Terence Bay	Delmerle	Yes	11	\$52,000
Tidal Way	Bayshore	End	Yes	11	\$76,000
TOTAL 2019/20 WORKPLAN					\$540,000

SUMMARY OF BUDGET BREAKDOWN

2019/20 Local Improvement Charge*	\$270,000
2019/20 Provincial Funding (Aid to Municipalities)**	\$270,000
TOTAL BUDGET	\$540,000

* The Province completes the work and charges HRM 50% of the total construction costs which HRM recovers through the LIC program

**Requires approval of funding from Nova Scotia Department of Transportation and Infrastructure Renewal (NSTIR)

Survey Results – Total Recoverable Frontage***

Bayshore Dr	100%
Delmerle Dr	55%
Maple Dr	100%
Tidal Way	100%

***Surveys are deemed acceptable for paving if the total recoverable frontage of results exceed 50%.

2019/20 Capital Budget Form

Project Name: Other Road Related Works	Est. Start Date: Annual Program
Project Number: CR180004	Est. Completion Date: Annual Program
Budget Category: Roads & Active Transportation	Supports Priority Area: Transportation
Project Type: Asset Renewal	
Discrete/Bundled: Bundled	Project Manager: David Hubley
Multi-Year: No	Asset Steward: Manager, Road Ops & Construction

Project Summary

Funding for a variety of areas including installing new and upgrading existing guiderails, retaining walls, upgrading of walkways, and conducting asphalt testing programs, technical studies/assessments and materials testing requirements for Capital projects. This program also includes funding for designs, surveys, and new survey equipment.

Total Project Budget: n/a

Budget Estimate Confidence: +-35%

Project Budget by Year

Fiscal Year	Previously Approved	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Gross Budget:	4,335,653	2,000,000	2,000,000	2,000,000	23,800,000	34,135,653
Project Specific Funding:						
Reserves	-	-	-	-	-	-
Other Funding	-	-	-	-	-	-
Total Funding:	-	-	-	-	-	-
Net Budget:	4,335,653	2,000,000	2,000,000	2,000,000	23,800,000	34,135,653

Impact on Operating Budget:

Impacts may include maintenance on newly added guiderail or retaining walls.

Operating Impacts of Capital Budget / Lifecycle Cost

	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Ongoing Operating Costs (Savings)	1,000	1,000	1,000	12,100	15,100
One-time Operating Costs (Savings)	-	-	-	-	-

Detailed Work Plan for 2019/20:

	2019/20
Refer to attached work plan.	2,786,396
Total Estimated Work Plan	2,786,396
Less Projected Carry Forward from Previous Years	786,396
Gross Budget Request	2,000,000

Capital Project Supplementary Report

Project Name: Other Road Related Works	Project # CR180004
---	-------------------------------------

APPROVED CARRY FORWARD PROJECTS

Guiderail (New and Upgrade Existing) Projects

PROJECT/LOCATION	DISTRICT	ESTIMATE
Waverley Rd (Multiple Locations)	1	\$371,000
Waverley Rd Under Hwy 118	1	\$20,000
Ross Rd at Salmon River Rd	4	\$70,000

Walkway Projects

PROJECT/LOCATION	DISTRICT	ESTIMATE
Allison Dr to Astral Dr	4	\$20,000
Allison Dr to Spence Dr	4	\$25,000
Colby Dr to Carnaby Cres	4	\$20,000
15 Fourth St to 15 Panorama Ln	16	\$187,000

Retaining Wall Projects

PROJECT/LOCATION	DISTRICT	ESTIMATE
Vestry St at Lynch St	8	\$270,000

TOTAL ESTIMATE CARRY FORWARD PROJECTS

\$983,000

2019/2020 PROJECTS

Guiderail (New and Upgrade Existing) Projects

PROJECT/LOCATION	DISTRICT	ESTIMATE
Hilchie Rd	6	\$2,000
Edgehill Rd	9	\$7,000
Golf Links Rd	16	\$7,000
		\$16,000

Walkway Projects

PROJECT/LOCATION	DISTRICT	ESTIMATE
Tantling Cres to Meridian Crt	3	\$13,000
Chadwick St to Marvin St	5	\$18,000
Chadwick St to Renfrew St	5	\$31,000
Fairbanks St to Geary St / Windmill Rd Stairs	5	\$154,000
Marvin St to Chadwick St	5	\$12,000
Kimberley Cres	6	\$19,000
Ronald Crt	6	\$19,000
Quaker Cres to Queens Crt	15	\$19,000
Smokey Dr to École Grand Portage (includes four walkways)	15	\$103,000
		\$388,000

Project Name: Other Road Related Works	Project # CR180004
---	-------------------------------

Retaining Wall Projects

PROJECT/LOCATION	DISTRICT	ESTIMATE
Forest Hills Pkwy	4	\$30,000
Akerley Blvd	6	\$180,000
Parkstone Rd	6	\$4,000
Parkstone Terr	6	\$7,896
Tobin Dr	6	\$9,000
Edgehill Rd	9	\$18,000
Herring Cove Rd - 500 Block	11	\$69,000
Parkland Dr Rock Face, Stability Assessment and Construction	12	\$180,000
Miscellaneous Retaining Wall Repair	Various	\$4,500
		\$502,396

Materials Testing and Inspection for Capital Projects	\$450,000
Studies / Reports / Geotechnical Investigations / Designs	\$425,000
Survey / Design Equipment for Capital Projects	\$22,000
TOTAL ESTIMATE NEW PROJECTS	\$1,803,396

TOTAL 2019/20 WORKPLAN	\$2,786,396
-------------------------------	--------------------

SUMMARY OF BUDGET BREAKDOWN

2019/20 Other Road Related Works Budget	\$2,000,000
Projected Carry Forward from Previous Years	\$786,396
TOTAL BUDGET	\$2,786,396

2019/20 Capital Budget Form

Project Name: Road Ops & Construction - SoGR	Est. Start Date: Annual Program
Project Number: CR180005	Est. Completion Date: Annual Program
Budget Category: Roads & Active Transportation	Supports Priority Area: Transportation
Project Type: Asset Renewal	
Discrete/Bundled: Bundled	Project Manager: Beverley Audet
Multi-Year: No	Asset Steward: Manager, Road Ops & Construction

Project Summary

State of Good Repair (SoGR) maintenance to the transportation network which includes activities such as asphalt maintenance (spreader patching, skin patching, etc.) sidewalk slab replacement, bridge, retaining wall and guiderail maintenance and minor drainage issues.

Total Project Budget: n/a

Budget Estimate Confidence: +-5%

Project Budget by Year

Fiscal Year	Previously Approved	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Gross Budget:	4,221,541	4,000,000	4,000,000	4,000,000	31,545,000	47,766,541
Project Specific Funding:						
Reserves	-	-	-	-	-	-
Other Funding	-	-	-	-	-	-
Total Funding:	-	-	-	-	-	-
Net Budget:	4,221,541	4,000,000	4,000,000	4,000,000	31,545,000	47,766,541

Impact on Operating Budget:

None

Operating Impacts of Capital Budget / Lifecycle Cost

	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Ongoing Operating Costs (Savings)	-	-	-	-	-
One-time Operating Costs (Savings)	-	-	-	-	-

Detailed Work Plan for 2019/20:

	2019/20
Asphalt repairs (spreader patching, skin patching, etc.)	1,800,000
Bridges (concrete, rails, timber, washing expansion joints and flushing drainage systems)	100,000
Sidewalk slab replacement, curb repairs	1,250,000
Drainage projects and drainage engineering	320,000
Tree stump removal	100,000
Retaining Walls, fences and guiderails	250,000
Accessibility initiatives	275,000
Materials testing	40,000
EMA Enhancements	15,000
Total Estimated Work Plan	4,150,000
Less Projected Carry Forward from Previous Years	150,000
Gross Budget Request	4,000,000

2019/20 Capital Budget Form

Project Name: Sidewalk Renewals	Est. Start Date: Annual Program
Project Number: CR180002	Est. Completion Date: Annual Program
Budget Category: Roads & Active Transportation	Supports Priority Area: Transportation
Project Type: Asset Renewal	
Discrete/Bundled: Bundled	Project Manager: David Hubley
Multi-Year: No	Asset Steward: Manager, Road Ops & Construction

Project Summary

Existing sidewalks are rated on a three year cycle to identify defective slabs. Sidewalk Renewal Projects are selected based on the percentage of defective slabs and integration opportunities with other road related projects.

Total Project Budget: n/a

Budget Estimate Confidence: +-35%

Project Budget by Year

Fiscal Year	Previously Approved	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Gross Budget:	5,560,134	2,715,000	2,000,000	2,000,000	31,150,000	43,425,134
Project Specific Funding:						
Q421 (General Contingency Reserve)	-	2,440,000	-	-	-	2,440,000
Other Funding	-	-	-	-	-	-
Total Funding:	-	2,440,000	-	-	-	2,440,000
Net Budget:	5,560,134	275,000	2,000,000	2,000,000	31,150,000	40,985,134

Impact on Operating Budget:

None

Operating Impacts of Capital Budget / Lifecycle Cost

	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Ongoing Operating Costs (Savings)	-	-	-	-	-
One-time Operating Costs (Savings)	-	-	-	-	-

Detailed Work Plan for 2019/20:

Refer to attached work plan.	5,306,067
Total Estimated Work Plan	5,306,067
Less Projected Carry Forward and surpluses from Previous Years	2,591,067
Gross Budget Request	2,715,000

Capital Project Supplementary Report

Project Name: Sidewalk Renewals	Project # CR180002
---	------------------------------

APPROVED CARRY FORWARD PROJECTS

PROJECT/LOCATION	FROM	TO	DIRECTION	DISTRICT	ESTIMATE
Vernon St	Watt	Jubilee	E	7	\$75,000
Allan St	Harvard	Monastery	S	8	\$100,000
Allan St	Harvard	Chebucto	N	8	\$200,000
Allan St	Oxford	Harvard	S	8	\$45,000
Gottingen St	Russell	Macara	E	8	\$110,000
Coronation Ave	Hillcrest	Alex	N	10	\$170,000
Coronation Ave	Alex	Birch	N	10	\$80,000
TOTAL ESTIMATE CARRY FORWARD PROJECTS					\$780,000

2019/2020 PROJECTS

PROJECT/LOCATION	FROM	TO	DIRECTION	DISTRICT	ESTIMATE
Main Rd	Cow Bay	30m N of Myers	E	3	\$245,000
Main Rd	Twin	Cow Bay	W	3	\$355,000
Shore Rd	Cow Bay	Bridge	E	3	\$100,000
Auburn Dr	Leander	Hirandale	N/S	4	\$46,000
Hampton Green	Caldwell	Colby	S	4	\$275,000
Forest Hills Pkwy	Main	Cole Harbour Place	E	4	\$1,265,000
Albro Lake Rd	Windmill	Wyse	N	5	\$140,000
Albro Lake Rd	Wyse	Richmond	S	5	\$75,000
Greenwood Ave	Roxton	End	W	7	\$88,000
Greenwood Ave	Inglis	Belmont	E	7	\$82,000
Greenwood Ave	Inglis	Belmont	W	7	\$83,000
Marlborough Ave	Belmont	Inglis	W	7	\$90,000
Marlborough Ave	Inglis	Belmont	E	7	\$92,000
Roxton Rd	Bellevue	Greenwood	N	7	\$45,000
Tower Rd	South	Victoria	E	7	\$95,500
Ascot Ave	Royal Pine	Joseph Howe	S	9	\$35,000
Quarry Rd	St Margaret's Bay	Edgehill	E	9	\$33,567
Royal Pine Ave	Parkdale	Ascot	S	9	\$75,000
Royal Pine Ave	Parkdale	Somerset	N	9	\$40,000
Royal Pine Ave	Murdock	Ascot	W	9	\$110,000
Clayton Park Dr	Dunbrack	Reed	S	10	\$35,000
Clayton Park Dr	Dunbrack	111 Clayton Park	N	10	\$11,000
Additional Locations To Be Determined				Various	\$480,000
Curb/Sidewalk Integration Opportunities				Various	\$630,000
TOTAL ESTIMATE NEW PROJECTS					\$4,526,067

TOTAL 2019/20 WORKPLAN

\$5,306,067

SUMMARY OF BUDGET BREAKDOWN

2019/20 Sidewalk Renewal Budget	\$2,715,000
Projected Carry Forward from Previous Years	\$2,591,067
TOTAL BUDGET	\$5,306,067

2019/20 Capital Budget Form

Project Name: Storm Sewer Upgrades	Est. Start Date: Annual Program
Project Number: CR000001	Est. Completion Date: Annual Program
Budget Category: Roads & Active Transportation	Supports Priority Area: Transportation
Project Type: Growth	
Discrete/Bundled: Bundled	Project Manager: David Hubley
Multi-Year: No	Asset Steward: Manager, Road Ops & Construction

Project Summary

Projects selected for 2019/20 include stormwater systems required to address street drainage issues that are integrated with street recapitalization upgrades and installation of new sidewalks. Future budget requirements to be determined.

Total Project Budget: n/a

Budget Estimate Confidence: +-35%

Project Budget by Year

	Previously Approved	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Fiscal Year						
Gross Budget:	5,500,976	-	-	-	-	5,500,976
Project Specific Funding:						
Reserves	-	-	-	-	-	-
Other Funding	-	-	-	-	-	-
Total Funding:	-	-	-	-	-	-
Net Budget:	5,500,976	-	-	-	-	5,500,976

Impact on Operating Budget:

None

Operating Impacts of Capital Budget / Lifecycle Cost

	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Ongoing Operating Costs (Savings)	-	-	-	-	-
One-time Operating Costs (Savings)	-	-	-	-	-

Detailed Work Plan for 2019/20:

	2019/20
Forest Hills Parkway	275,000
Wanda Lane	205,000
Herring Cove Road	442,666
Total Estimated Work Plan	922,666
Less Projected Carry Forward from Previous Years	922,666
Gross Budget Request	-

2019/20 Capital Budget Form

Project Name: Street Recapitalization	Est. Start Date: Annual Program
Project Number: CR000009	Est. Completion Date: Annual Program
Budget Category: Roads & Active Transportation	Supports Priority Area: Transportation
Project Type: Asset Renewal	
Discrete/Bundled: Bundled	Project Manager: David Hubley
Multi-Year: No	Asset Steward: Manager, Road Ops & Construction

Project Summary

The projects in Street Recapitalization include street renewal, street resurfacing, asphalt overlays, micro surfacing, chip sealing, street planer patching and crack sealing. The projects are selected based on a set of criteria which include the condition of the pavement (Pavement Condition Index (PCI)), integration opportunities with other stakeholders, classification of the road, operational/logistics efficiencies, etc. Project Planning & Design is currently working from a long term pavement investment strategy which recommends investments in HRM pavements in excess of \$330,000,000 over 10 years. This program also includes funding to support additional term pavement management and construction resources.

Total Project Budget: n/a

Budget Estimate Confidence: +-35%

Project Budget by Year

Fiscal Year	Previously Approved	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Gross Budget:	44,562,223	26,977,000	30,000,000	30,000,000	264,000,000	395,539,223
Project Specific Funding:						
Q421 (General Contingency Reserve)	-	5,000,000	-	-	-	5,000,000
Q631 (Debt Principal and Interest Repayment Reserve)	-	10,000,000	-	-	-	10,000,000
Pavement Impact Charges	-	816,333	-	-	-	816,333
Cost Sharing	7,250,412	-	-	-	-	7,250,412
Total Funding:	7,250,412	15,816,333	-	-	-	23,066,745
Net Budget:	37,311,811	11,160,667	30,000,000	30,000,000	264,000,000	372,472,478

Impact on Operating Budget:

None

Operating Impacts of Capital Budget / Lifecycle Cost

	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Ongoing Operating Costs (Savings)	-	-	-	-	-
One-time Operating Costs (Savings)	-	-	-	-	-

Detailed Work Plan for 2019/20:

	2019/20
Refer to attached work plan.	37,320,000
Total Estimated Work Plan	37,320,000
Less Projected Carry Forward and surpluses from Previous Years	10,343,000
Gross Budget Request	26,977,000

Capital Project Supplementary Report

Project Name: Street Recapitalization	Project # CR000009
---	------------------------------

APPROVED CARRY FORWARD PROJECTS

PROJECT/LOCATION	FROM	TO	DISTRICT	ESTIMATE
Elmridge Dr	Rolling Hills	End	1	\$540,000
Allison Dr	Brookfield	Spence	4	\$489,000
Armbro Ln	Cole Harbour	End	4	\$305,000
Colby Dr	Greenwich	Deerbrooke	4	\$859,000
Athorpe Dr	Bowser	Woodlawn	6	\$681,000
Vernon St	Jubilee	Coburg	7	\$145,000
Allan St	Windsor	Oxford	8	\$377,000
Gottingen St	Young	Almon	8	\$690,000
Kaye St	Young	Gottingen	8	\$180,000
Monastery Ln	Quinpool	Allan	8	\$287,000
Eastview Dr	Glenora	Rexdale	9	\$100,000
Rexdale Ave	Eastview	End	9	\$111,000
Coronation Ave	Gesner	Birch	10	\$825,000
Kearney Lake Rd	Dunbrack	Hwy 102	10 / 12	\$700,000
Trinity Ln	Mayflower	End of Asphalt	14	\$90,000
Golf Links Rd	Dartmouth	Eaglewood	16	\$275,000
TOTAL ESTIMATE CARRY FORWARD PROJECTS				\$6,654,000

APPROVED 2018/19 POTENTIAL PROJECTS

PROJECT/LOCATION	FROM	TO	DISTRICT	ESTIMATE
Colindale St	Purcell's Cove	Inverness	9	\$245,000
Memory Lane	North End	End of Pavement	15	\$570,000
Fultz House Lane	Bedford Bypass	Memory	15	\$200,000
TOTAL ESTIMATE 2018/19 POTENTIAL PROJECTS				\$1,015,000

2019/2020 PROJECTS

PROJECT/LOCATION	FROM	TO	DISTRICT	ESTIMATE
Joe St	Waverley	Cul De Sac	1	\$426,000
Silverside Dr	Waverley	Rolling Hills	1	\$571,000
Downey Rd	Simmonds	End	2	\$310,000
Hemming Crt	Stuart Harris	Cul De Sac	3	\$180,000
Ruth Dr	Stuart Harris	Ellen	3	\$136,000
Sabra Crt	Sarah	Cul De Sac	3	\$148,000
Sarah Cres	Cranberry	Tantling	3	\$580,000
Shore Rd	Cow Bay	Oceanlea	3	\$600,000
Tantling Cres	Sarah	Wildwood	3	\$452,000
Auburn Dr	Leander	Quindora (S)	4	\$600,000
Forest Hills Pkwy	Main	Cole Harbour Place	4	\$1,385,000
Kirtland Crt	Circassion	Cul De Sac	4	\$290,000
Leander Dr	Auburn	Broom	4	\$71,000
Pernix Crt	Arklow	Cul De Sac	4	\$169,000
Savona Crt	Circassion	End	4	\$255,000
Chadwick St	Pleasant	Glenview	5	\$631,000

Project Name: Street Recapitalization			Project # CR000009	
Glenview Dr	Chadwick	Renfrew	5	\$81,000
MicMac Blvd	Mall Entry at Kent	Hwy 111 Ramp	5	\$821,000
Prince Albert Rd	Ochterloney	Bolton	5	\$250,000
Akerley Blvd	Joseph Zatzman	Burnside Dr	6	\$1,300,000
Colonna Pl	Appian	Montebello	6	\$495,000
Hilchie Rd	Parkstone	End	6	\$25,000
Parkstone Rd	Windmill	End	6	\$230,000
Parkstone Terr	Parkstone	End	6	\$38,000
Ronald Crt	Wanda	Cul De Sac	6	\$69,000
Tobin Dr	Wanda	Cul De Sac	6	\$306,000
Wanda Ln	Mount Edward	Bellevista	6	\$543,000
Cartaret St	Oakland	South	7	\$195,000
Davis St	South	Fraser	7	\$120,000
Murray Pl	Studley	Cartaret	7	\$198,000
Tower Rd	South	Inglis	7	\$315,000
Clifton St	North	St Albans	8	\$223,000
Gladstone St	Almon	Charles	8	\$470,000
King St	North	St Albans	8	\$210,000
Aurora Ave	Seaview	Cul De Sac	9	\$256,000
Drumdonald Rd	Abbey	Shepherd	9	\$235,000
Edgehill Rd	Quarry	Fenwood	9	\$312,000
Herbert Rd	Quarry	End	9	\$43,000
Quarry Rd	St. Margaret's Bay	Herbert	9	\$286,000
Romans Ave	Bayers	Federal	9	\$325,000
Seaview Ave	Circle	Aurora	9	\$109,000
Shepherd Rd	Ridge Valley	Highfield	9	\$115,000
Walsh Crt	Quarry	Cul De Sac	9	\$117,000
Andrew St	Dutch Village	Percy	10	\$90,000
Banbury Cl	Chartwell	Cul De Sac	10	\$63,000
Brockhurst Cl	Chartwell	Cul De Sac	10	\$140,000
Chartwell Lane	Lincoln Cross	Lincoln Cross	10	\$561,000
Chessvale Cl	Chartwell	Cul De Sac	10	\$30,000
Canterbury Cl	Chartwell	Cul De Sac	10	\$8,000
Downing St	Castle Hill	Julie's Walk	10	\$144,000
Julie's Walk	Downing	End	10	\$255,000
Percy St	Dutch Village	End	10	\$395,000
Sandhurst Cl	Chartwell	Cul De Sac	10	\$66,000
Sybyl Crt	Willett	Cul De Sac	10	\$175,000
Wendover Cl	Chartwell	Cul De Sac	10	\$15,000
Herring Cove Rd	Greystone	Civic 580	11	\$355,000
Iris Ave	Herring Cove	Lockwood	11	\$133,000
Lockwood Ave	Iris	End	11	\$82,000
Dorothy Cres	Johnson	Johnson	12	\$305,000
Forestglen Dr	Trunk 3	James	12	\$585,000
Lakeview Dr	Trunk 3	Maplegrove	12	\$100,000
Maple Grove Ave	Lakeview	Parkdale	12	\$64,000
Kingswood Dr	Hammonds Plains	Hannah Elise	13	\$923,000
Seth Aaron Dr	Hannah Elise	Cul De Sac	13	\$653,000
Lucasville Rd	Pockwock Watermain	Waterstone Run	14	\$560,000
Rosley Rd	Beaver Bank	End of Asphalt	14	\$310,000

Project Name: Street Recapitalization			Project # CR000009	
Mulberry Crt	Sycamore	Cul De Sac	15	\$134,000
Quaker Cres	First Lake	Loops Itself	15	\$840,000
Quinn Dr	Polara	Quaker	15	\$51,000
Queens Crt	Quaker	Cul De Sac	15	\$172,000
Raymond Dr	Sycamore	Glendale	15	\$315,000
Sycamore Crt	Sycamore	Cul De Sac	15	\$161,000
Sycamore Ln	Riverside	Raymond	15	\$434,000
Bluewater Rd	Topsail	Civic 177	16	\$413,000
Command Crt	Bluewater	Cul De Sac	16	\$115,000
Dartmoor Cres	Dartmouth	End	16	\$232,000
Golf Links Rd	Eaglewood	Shore	16	\$125,000
Sunrise Hill	Meadowbrook	Basinview	16	\$371,000
Windrock Dr	Basinview	Sunrise Hill	16	\$241,000
Asphalt Overlays			Various	\$1,876,000
Crack Sealing			Various	\$500,000
Micro Surfacing			Various	\$843,000
Miscellaneous Road Repairs			Various	\$100,000
Street Planer Patching			Various	\$1,500,000
Pavement Management Resource				\$100,000
Construction Resource				\$100,000
Survey Work Related to Pavement Markings				\$25,000
Survey Work Related to Record Drawings				\$500,000
TOTAL ESTIMATE NEW PROJECTS				\$29,651,000
TOTAL 2019/20 WORKPLAN				\$37,320,000
SUMMARY OF BUDGET BREAKDOWN				
2019/20 Street Recapitalization Budget *				\$26,160,667
Pavement Impact Funds				\$816,333
Projected Carry Forward from Previous Years				\$10,343,000
TOTAL BUDGET				\$37,320,000

* \$161,333 allocated to CR180006 for Gravel Rd Paving Projects

Tab - Solid Waste

Solid Waste

Page #	Project Name	Old Project #	New Project #	2019/20 Workplan	2019/20 Carry Forward	2019/20 Gross	2019/20 Funding	2019/20 Net
G1	Burner Installation Hwy 101 Landfill	CWU01065	CWU01065	60,000	60,000	-	-	-
G2	Burnside Composting Facility Repairs	Waste1	CW190005	500,000	-	500,000	500,000	-
G3	Composting/Anaerobic Digestion (AD) Plant	CW000004	CW000004	1,043,564	43,564	1,000,000	1,000,000	-
G4	Dredging of Siltation Pond	CWU01092	CWU01092	360,000	360,000	-	-	-
G5	Environment Monitoring Site Work 101 Landfill	CWU01353	CW190004	330,540	330,540	-	-	-
G6	Materials Recovery Facility Purchase	CW000012	CW000012	1,200,000	1,200,000	-	-	-
G7	Materials Recovery Facility Repairs	CW000007	CW000007	332,704	52,704	280,000	280,000	-
G8	Miller Composting Purchase	CW000011	CW000011	2,100,000	2,100,000	-	-	-
G9	New Era Recapitalization	CW000009	CW000009	1,044,155	584,155	460,000	460,000	-
G10	New/Replacement Green Carts	CW000001	CW190001	669,422	669,422	-	-	-
G11	Rural Depots	CW000003	CW000003	-	-	-	-	-
	Grand Total			7,640,385	5,400,385	2,240,000	2,240,000	-

2019/20 Capital Budget Form

Project Name: Burner Installation Hwy 101 Landfill	Est. Start Date: Apr-19
Project Number: CWU01065	Est. Completion Date: Sep-19
Budget Category: Solid Waste	Supports Priority Area: Healthy, Livable Communities
Project Type: Asset Renewal	
Discrete/Bundled: Discrete	Project Manager: Barry Nickerson
Multi-Year: No	Asset Steward: Manager, Solid Waste Resources

Project Summary

Replacement of oil fired burner mounted on 300,000 BTU heating boiler in Leachate Control building at the Highway 101 Landfill Leachate treatment Plant. The new burner is anticipated to provide for more efficient and reliable heating in the Leachate Control building. The burner was originally scheduled for replacement in the 09/10 fiscal year but has been moved out to the 19/20 year by Halifax Water, the operator of the facility.

Total Project Budget: 60,000

Budget Estimate Confidence: +-10%

Project Budget by Year

Fiscal Year	Previously Approved	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Gross Budget:	60,000	-	-	-	-	60,000
Project Specific Funding:						
Q556 (Solid Waste Facilities Reserve)	60,000	-	-	-	-	60,000
Other Funding	-	-	-	-	-	-
Total Funding:	60,000	-	-	-	-	60,000
Net Budget:	-	-	-	-	-	-

Impact on Operating Budget:

Funding from Solid Waste reserves for the project and there are no anticipated substantial impacts to the operating budget

Operating Impacts of Capital Budget / Lifecycle Cost

	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Ongoing Operating Costs (Savings)	-	-	-	-	-
One-time Operating Costs (Savings)	-	-	-	-	-

Detailed Work Plan for 2019/20:

	2019/20
Replacement of oil fired burner at Highway 101 leachate treatment facility	60,000
Total Estimated Work Plan	60,000
Less Projected Carry Forward from Previous Years	60,000
Gross Budget Request	-

2019/20 Capital Budget Form

Project Name: Burnside Composting Facility Repairs	Est. Start Date: Apr-19
Project Number: CW190005	Est. Completion Date: Mar-20
Budget Category: Solid Waste	Supports Priority Area: Healthy, Livable Communities
Project Type: Asset Renewal	
Discrete/Bundled: Discrete	Project Manager: Barry Nickerson
Multi-Year: No	Asset Steward: Manager, Solid Waste Resources

Project Summary

Repairs to the Miller Composting facility in Burnside as the operational contract has been extended two years. Required repairs as identified, including corrosion repairs and roof beam repairs/replacement.

Total Project Budget: 500,000

Budget Estimate Confidence: +-25%

Project Budget by Year

Fiscal Year	Previously Approved	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Gross Budget:	-	500,000	-	-	-	500,000
Project Specific Funding:						
Q556 (Solid Waste Facilities Reserve)	-	500,000	-	-	-	500,000
Other Funding	-	-	-	-	-	-
Total Funding:	-	500,000	-	-	-	500,000
Net Budget:	-	-	-	-	-	-

Impact on Operating Budget:

Funding from Solid Waste reserves and there is no impact to operating budget.

Operating Impacts of Capital Budget / Lifecycle Cost

	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Ongoing Operating Costs (Savings)	-	-	-	-	-
One-time Operating Costs (Savings)	-	-	-	-	-

Detailed Work Plan for 2019/20:

	2019/20
Repair/replace roof beams, corrosion repairs and any other identified repairs.	500,000
Total Estimated Work Plan	500,000
Less Projected Carry Forward from Previous Years	
Gross Budget Request	500,000

2019/20 Capital Budget Form

Project Name: Composting/Anaerobic Digestion (AD) Plant	Est. Start Date: Apr-16
Project Number: CW000004	Est. Completion Date: Mar-21
Budget Category: Solid Waste	Supports Priority Area: Service Delivery
Project Type: Growth	
Discrete/Bundled: Discrete	Project Manager: Barry Nickerson
Multi-Year: Yes	Asset Steward: Manager, Solid Waste Resources

Project Summary

HRM needs to replace one or both of the existing aerobic composting facilities. The operating contracts extend to March 31, 2021 and a RFP is being developed to meet the current demand and new regulations. The costs outlined will enable a consultant is aiding in the RFP development, review, assessment and scoring; project management, design, siting, regulatory requirements; community consultations and engagement; contract negotiations; legal, and other direct costs for this project.

Total Project Budget: 3,000,000

Budget Estimate Confidence: +-25%

Project Budget by Year

Fiscal Year	Previously Approved	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Gross Budget:	1,000,000	1,000,000	1,000,000	-	-	3,000,000
Project Specific Funding:						
Q556 (Solid Waste Facilities Reserve)	1,000,000	1,000,000	1,000,000	-	-	3,000,000
Other Funding	-	-	-	-	-	-
Total Funding:	1,000,000	1,000,000	1,000,000	-	-	3,000,000
Net Budget:	-	-	-	-	-	-

Impact on Operating Budget:

Funding from Solid Waste reserves and there is no impact to operating budget.

Operating Impacts of Capital Budget / Lifecycle Cost

	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Ongoing Operating Costs (Savings)	-	-	-	-	-
One-time Operating Costs (Savings)	-	-	-	-	-

Detailed Work Plan for 2019/20:

	2019/20
Internal and external legal, accounting and engineering staffing and consultant assistance in RFP and Project Agreement development, review of RFP proposals, contract negotiations, regulatory requirements, site work and investigations, public engagement, project management, design review, compliance oversight and testing, and other work as may be required to advance the project to completion including facility reference site visits.	1,043,564
Total Estimated Work Plan	1,043,564
Less Projected Carry Forward from Previous Years	43,564
Gross Budget Request	1,000,000

2019/20 Capital Budget Form

Project Name: Dredging of Siltation Pond	Est. Start Date: Apr-19
Project Number: CWU01092	Est. Completion Date: Sep-19
Budget Category: Solid Waste	Supports Priority Area: Healthy, Livable Communities
Project Type: Asset Renewal	
Discrete/Bundled: Discrete	Project Manager: Barry Nickerson
Multi-Year: No	Asset Steward: Manager, Solid Waste Resources

Project Summary

Dredging of four siltation ponds to remove accumulated silt which will increase retention time in ponds allowing for more effective siltation and treatment of leachate to comply with Provincial regulations. The ponds have been monitored annually for build up and this work is expected to be required this construction season.

Total Project Budget: 360,000

Budget Estimate Confidence: +-25%

Project Budget by Year

Fiscal Year	Previously Approved	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Gross Budget:	360,000	-	-	-	-	360,000
Project Specific Funding:						
Q556 (Solid Waste Facilities Reserve)	360,000	-	-	-	-	360,000
Other Funding	-	-	-	-	-	-
Total Funding:	360,000	-	-	-	-	360,000
Net Budget:	-	-	-	-	-	-

Impact on Operating Budget:

Funding from Solid Waste reserves and there is no impact to operating budget.

Operating Impacts of Capital Budget / Lifecycle Cost

	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Ongoing Operating Costs (Savings)	-	-	-	-	-
One-time Operating Costs (Savings)	-	-	-	-	-

Detailed Work Plan for 2019/20:

	2019/20
Dredging of four siltation ponds at Highway 101 leachate treatment facility	360,000
Total Estimated Work Plan	360,000
Less Projected Carry Forward from Previous Years	360,000
Gross Budget Request	-

2019/20 Capital Budget Form

Project Name: Environment Monitoring Site Work 101 Landfill	Est. Start Date: Annual Program
Project Number: CW190004	Est. Completion Date: Annual Program
Budget Category: Solid Waste	Supports Priority Area: Healthy, Livable Communities
Project Type: Asset Renewal	
Discrete/Bundled: Bundled	Project Manager: Barry Nickerson
Multi-Year: No	Asset Steward: Manager, Solid Waste Resources

Project Summary

To ensure the site continues to meet all of the requirements of a closed landfill, this work will include water monitoring, site maintenance and repair on a priority basis to meet all requirements of a closed landfill including site regulatory approval requirements. The current engineering and monitoring firm has identified this work to include erosion control, cap and leachate system improvements and inspections of site infrastructure.

Total Project Budget: n/a

Budget Estimate Confidence: +25%

Project Budget by Year

Fiscal Year	Previously Approved	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Gross Budget:	1,248,000	-	-	-	700,000	1,948,000
Project Specific Funding:						
Q506 (Landfill Closure & Post Closure Costs Reserve)	1,248,000	-	-	-	700,000	1,948,000
Other Funding	-	-	-	-	-	-
Total Funding:	1,248,000	-	-	-	700,000	1,948,000
Net Budget:	-	-	-	-	-	-

Impact on Operating Budget:

Funding from Solid Waste reserves and there is no impact to operating budget.

Operating Impacts of Capital Budget / Lifecycle Cost

	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Ongoing Operating Costs (Savings)	-	-	-	-	-
One-time Operating Costs (Savings)	-	-	-	-	-

Detailed Work Plan for 2019/20:

	2019/20
Water monitoring, site maintenance and repair to meet all requirements of a closed landfill including site regulatory approval requirements. The work also includes: erosion control, cap and leachate system improvements and inspections of site infrastructure. This includes the carry over of residual funding to enable quick response to issues at the landfill that may be identified by the engineering and monitoring firm or the landfill gas operator. This is a 3 year contingency budget for 2019/20/21. The funding has already been approved through previous budget cycles. The remaining budget will be returned to reserves in 2019/20.	330,540
Total Estimated Work Plan	330,540
Less Projected Carry Forward from Previous Years	330,540
Gross Budget Request	-

2019/20 Capital Budget Form

Project Name: Materials Recovery Facility Purchase	Est. Start Date: Apr-18
Project Number: CW000012	Est. Completion Date: Mar-20
Budget Category: Solid Waste	Supports Priority Area: Healthy, Livable Communities
Project Type: Asset Renewal	
Discrete/Bundled: Discrete	Project Manager: Barry Nickerson
Multi-Year: No	Asset Steward: Manager, Solid Waste Resources

Project Summary

At the end of the current operating term, HRM is required to pay the residual value of the capital upgrades of the site which were added during the contractors term. This includes conveyors, material handling systems and storage building to accommodate the increased volumes of materials processed at the facility since the start of the contract.

Total Project Budget: 1,200,000

Budget Estimate Confidence: +-10%

Project Budget by Year

Fiscal Year	Previously Approved	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Gross Budget:	1,200,000	-	-	-	-	1,200,000
Project Specific Funding:						
Q556 (Solid Waste Facilities Reserve)	1,200,000	-	-	-	-	1,200,000
Other Funding	-	-	-	-	-	-
Total Funding:	1,200,000	-	-	-	-	1,200,000
Net Budget:	-	-	-	-	-	-

Impact on Operating Budget:

Funding from Solid Waste reserves and there is no impact to operating budget.

Operating Impacts of Capital Budget / Lifecycle Cost

	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Ongoing Operating Costs (Savings)	-	-	-	-	-
One-time Operating Costs (Savings)	-	-	-	-	-

Detailed Work Plan for 2019/20:

	2019/20
Capital upgrades and equipment as per the contract	1,200,000
Total Estimated Work Plan	1,200,000
Less Projected Carry Forward from Previous Years	1,200,000
Gross Budget Request	-

2019/20 Capital Budget Form

Project Name: Materials Recovery Facility Repairs	Est. Start Date: Annual Program
Project Number: CW000007	Est. Completion Date: Annual Program
Budget Category: Solid Waste	Supports Priority Area: Healthy, Livable Communities
Project Type: Asset Renewal	
Discrete/Bundled: Bundled	Project Manager: Barry Nickerson
Multi-Year: No	Asset Steward: Manager, Solid Waste Resources

Project Summary

Repairs to the Materials Recovery Facility (Halifax owned Recycling Plant) located at 20 Horseshoe Lake Dr., Bayer's Lake Business Park, including repairs to the roofing system to prevent ongoing leaks, replacement of truck scales and other required repairs.

Total Project Budget: n/a

Budget Estimate Confidence: +-25%

Project Budget by Year

Fiscal Year	Previously Approved	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Gross Budget:	295,000	280,000	50,000	50,000	350,000	1,025,000
Project Specific Funding:						
Q556 (Solid Waste Facilities Reserve)	295,000	280,000	50,000	50,000	350,000	1,025,000
Other Funding	-	-	-	-	-	-
Total Funding:	295,000	280,000	50,000	50,000	350,000	1,025,000
Net Budget:	-	-	-	-	-	-

Impact on Operating Budget:

Funding from Solid Waste reserves and there is no impact to operating budget.

Operating Impacts of Capital Budget / Lifecycle Cost

	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Ongoing Operating Costs (Savings)	-	-	-	-	-
One-time Operating Costs (Savings)	-	-	-	-	-

Detailed Work Plan for 2019/20:

	2019/20
Repairs and recovering of building roof	200,000
Ongoing capital repairs	132,704
Total Estimated Work Plan	332,704
Less Projected Carry Forward from Previous Years	52,704
Gross Budget Request	280,000

2019/20 Capital Budget Form

Project Name: Miller Composting Purchase	Est. Start Date: Apr-18
Project Number: CW000011	Est. Completion Date: Mar-21
Budget Category: Solid Waste	Supports Priority Area: Healthy, Livable Communities
Project Type: Asset Renewal	
Discrete/Bundled: Discrete	Project Manager: Barry Nickerson
Multi-Year: No	Asset Steward: Manager, Solid Waste Resources

Project Summary

Purchase of the entire assets of the Burnside composting operation at the end of the 20 year plus two year operating period as per the 1998 operating contract.

Total Project Budget: 2,100,000

Budget Estimate Confidence: +5%

Project Budget by Year

Fiscal Year	Previously Approved	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Gross Budget:	2,100,000	-	-	-	-	2,100,000
Project Specific Funding:						
Q556 (Solid Waste Facilities Reserve)	2,100,000	-	-	-	-	2,100,000
Other Funding		-	-	-	-	-
Total Funding:	2,100,000	-	-	-	-	2,100,000
Net Budget:	-	-	-	-	-	-

Impact on Operating Budget:

Funding from Solid Waste reserves and there is no impact to operating budget.

Operating Impacts of Capital Budget / Lifecycle Cost

	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Ongoing Operating Costs (Savings)	-	-	-	-	-
One-time Operating Costs (Savings)	-	-	-	-	-

Detailed Work Plan for 2019/20:

	2019/20
Purchase of all assets including building and equipment at the end of the contract as per the contract	2,100,000
Total Estimated Work Plan	2,100,000
Less Projected Carry Forward from Previous Years	2,100,000
Gross Budget Request	-

2019/20 Capital Budget Form

Project Name: New Era Recapitalization	Est. Start Date: Apr-16
Project Number: CW000009	Est. Completion Date: Mar-21
Budget Category: Solid Waste	Supports Priority Area: Healthy, Livable Communities
Project Type: Asset Renewal	
Discrete/Bundled: Discrete	Project Manager: Barry Nickerson
Multi-Year: No	Asset Steward: Manager, Solid Waste Resources

Project Summary

Repairs to the Ragged Lake Composting Facility (Halifax owned Composting Facility) located at 61 Evergreen Place, Ragged Lake Business Park, including concrete slab replacement, corrosion protection, building cover replacement and other repairs to the screening building.

Total Project Budget: 1,310,000

Budget Estimate Confidence: +-10%

Project Budget by Year

Fiscal Year	Previously Approved	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Gross Budget:	850,000	460,000	-	-	-	1,310,000
Project Specific Funding:						
Q556 (Solid Waste Facilities Reserve)	850,000	460,000	-	-	-	1,310,000
Other Funding	-	-	-	-	-	-
Total Funding:	850,000	460,000	-	-	-	1,310,000
Net Budget:	-	-	-	-	-	-

Impact on Operating Budget:

Funding from Solid Waste reserves and there is no impact to operating budget.

Operating Impacts of Capital Budget / Lifecycle Cost

	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Ongoing Operating Costs (Savings)	-	-	-	-	-
One-time Operating Costs (Savings)	-	-	-	-	-

Detailed Work Plan for 2019/20:

	2019/20
Corrosion protection of screener building	100,000
Concrete floor slab replacement	150,000
Screener building cover	377,000
Structural Assessment and related repairs	417,155
Total Estimated Work Plan	1,044,155
Less Projected Carry Forward from Previous Years	584,155
Gross Budget Request	460,000

2019/20 Capital Budget Form

Project Name: New/Replacement Green Carts	Est. Start Date: Annual Program
Project Number: CW190001	Est. Completion Date: Annual Program
Budget Category: Solid Waste	Supports Priority Area: Service Delivery
Project Type: Growth	
Discrete/Bundled: Bundled	Project Manager: Barry Nickerson
Multi-Year: No	Asset Steward: Manager, Solid Waste Resources

Project Summary

This project includes the supply and delivery of organics green carts to newly constructed homes and the ongoing replacement of damaged and/or worn out carts. A cart is provided to each dwelling eligible for curbside solid waste collection based on the number of units. Contingency has been built in to the budget to account for unpredictable demand for carts (as they age), and the potential for increases in resin prices, which in turn, can increase unit cost.

Total Project Budget: n/a

Budget Estimate Confidence: +10%

Project Budget by Year

Fiscal Year	Previously Approved	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Gross Budget:	2,385,000	-	400,000	400,000	2,800,000	5,985,000
Project Specific Funding:						
Q556 (Solid Waste Facilities Reserve)	2,385,000	-	400,000	400,000	2,800,000	5,985,000
Other Funding	-	-	-	-	-	-
Total Funding:	2,385,000	-	400,000	400,000	2,800,000	5,985,000
Net Budget:	-	-	-	-	-	-

Impact on Operating Budget:

Funding from Solid Waste reserves and there is no impact to operating budget.

Operating Impacts of Capital Budget / Lifecycle Cost

	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Ongoing Operating Costs (Savings)	-	-	-	-	-
One-time Operating Costs (Savings)	-	-	-	-	-

Detailed Work Plan for 2019/20:

	2019/20
Procurement of new carts to new homes and ongoing replacement of damaged or worn out carts. The unit price of the green carts is approximately \$75-80 and the actual quantity is based on the demand.	669,422
Total Estimated Work Plan	669,422
Less Projected Carry Forward from Previous Years	669,422
Gross Budget Request	-

2019/20 Capital Budget Form

Project Name: Rural Depots	Est. Start Date: Annual Program
Project Number: CW000003	Est. Completion Date: Annual Program
Budget Category: Solid Waste	Supports Priority Area: Healthy, Livable Communities
Project Type: Asset Renewal	
Discrete/Bundled: Bundled	Project Manager: Barry Nickerson
Multi-Year: No	Asset Steward: Manager, Solid Waste Resources

Project Summary

Trailers service the two Rural Refuse Depots in Sheet Harbour and Middle Musquodoboit where refuse loads are consolidated prior to transport to the Otter Lake Facilities. There are currently six units in the fleet. The 2010 Spector trailers will be replaced in 2020/21. In addition, there are capital maintenance costs and upgrades required for the depots.

Total Project Budget: n/a

Budget Estimate Confidence: +-25%

Project Budget by Year

Fiscal Year	Previously Approved	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Gross Budget:	398,554	-	340,000	-	760,000	1,498,554
Project Specific Funding:						
Q556 (Solid Waste Facilities Reserve)	398,554	-	340,000	-	760,000	1,498,554
Other Funding	-	-	-	-	-	-
Total Funding:	398,554	-	340,000	-	760,000	1,498,554
Net Budget:	-	-	-	-	-	-

Impact on Operating Budget:

Any additional impact will be added operating costs to contract out trucks if the capital purchase is not advanced.

Operating Impacts of Capital Budget / Lifecycle Cost

	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Ongoing Operating Costs (Savings)	-	-	-	-	-
One-time Operating Costs (Savings)	-	-	-	-	-

Detailed Work Plan for 2019/20:

	2019/20
Total Estimated Work Plan	-
Less Projected Carry Forward from Previous Years	
Gross Budget Request	-

Tab - Traffic Improvements

Traffic Improvements

Page #	Project Name	Old Project #	New Project #	2019/20 Workplan	2019/20 Carry Forward	2019/20 Gross	2019/20 Funding	2019/20 Net
H1	Bedford Highway	Traffic1	CT190008	250,000	-	250,000	-	250,000
H2	Bedford West Road Oversizing	CTU01006	CTU01006	522,903	522,903	-	-	-
H3	Burnside Connection to Highway 107	CT000013	CT000013	-	-	-	-	-
H4	Cogswell Interchange Redevelopment	CT000007	CT000007	19,410,000	18,750,000	660,000	660,000	-
H5	Complete Streets	CT180008	CT180008	970,807	620,807	350,000	350,000	-
H6	Controller Cabinet & Detection	CT180004	CT180004	801,805	601,805	200,000	-	200,000
H7	Destination Signage Program	CTR00904	CTR00904	403,990	283,990	120,000	-	120,000
H8	Downtown Dartmouth Infra Renewal	CT190003	CT190003	200,000	-	200,000	-	200,000
H9	Herring Cove Road	CTX01116	CT190005	250,000	-	250,000	-	250,000
H10	Highway 7 - Magazine Hill	Traffic2	CT200001	-	-	-	-	-
H11	IMP Land Acquisition	CT000014	CT000014	1,450,000	-	1,450,000	1,450,000	-
H12	MacLennan Drive	CTU01365	CTU01365	-	-	-	-	-
H13	Margeson Drive	CTU01287	CTU01287	-	-	-	-	-
H14	North Park Corridor Improvements	CT000001	CT000001	30,000	30,000	-	-	-
H15	Opticom Signalization System	CEJ01220	CT190004	82,395	82,395	-	-	-
H16	Portland Street	Traffic3	CT190002	150,000	-	150,000	-	150,000
H17	Railway Crossing Improvements	CT000015	CT000015	251,217	221,217	30,000	-	30,000
H18	Road Safety Improvement	CT180005	CT190006	680,000	465,000	215,000	-	215,000
H19	Ross Road Realignment	CT000012	CT000012	-	-	-	-	-
H20	Shearwater Connector	CT000016	CT000016	-	-	-	-	-
H21	Street Lighting	CT180001	CT180001	515,000	240,000	275,000	-	275,000
H22	Streetscape Renewal	CT190002	CT190002	-	-	-	-	-
H23	Streetscapes - Argyle/Grafton	CD000002	CD000002	586,376	586,376	-	-	-
H24	Streetscapes - Spring Garden Rd	CD000001	CD000001	10,060,775	10,060,775	-	-	-
H25	Streetscaping	CT190001	CT190001	-	-	-	-	-
H26	Traffic Signal Installation	CT180007	CT180007	395,000	10,000	385,000	-	385,000
H27	Traffic Signal Rehabilitation	CT180002	CT180002	1,060,292	920,292	140,000	-	140,000
H28	Traffic Signal Re-lamping Program	CT180003	CT180003	715,749	715,749	-	-	-
H29	Traffic Signals - Bedford West	CTX01127	CTX01127	166,101	166,101	-	-	-
Grand Total				38,952,410	34,277,410	4,675,000	2,460,000	2,215,000

2019/20 Capital Budget Form

Project Name:	Bedford Highway	Est. Start Date:	May-19
Project Number:	CT190008	Est. Completion Date:	Dec-19
Budget Category:	Traffic Improvements	Supports Priority Area:	Transportation
Project Type:	Asset Renewal		
Discrete/Bundled:	Discrete	Project Manager:	Tanya Davis
Multi-Year:	Yes	Asset Steward:	Manager, Road Ops & Construction

Project Summary

Action 121 of the Integrated Mobility Plan (IMP), directs staff to identify “Strategic Corridors” – existing road corridors that are key to regional traffic flow, transit, goods movement and active transportation and develop plans that will guide their development over time. In 2018/19, with funding help from the Federation of Canadian Municipalities and the Provincial Connect2 Grant, HRM is undertaking a comprehensive functional transportation and land use planning study to help develop cross sections for the Bedford Highway corridor from Windsor Street to Highway 102. In 2019/20, the corridor will begin the first phase of detailed design, with construction anticipated to be phased over multiple years.

Total Project Budget: 4,750,000

Budget Estimate Confidence: +50%

Project Budget by Year

Fiscal Year	Previously Approved	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Gross Budget:	-	250,000	-	-	4,500,000	4,750,000
Project Specific Funding:						
Reserves	-	-	-	-	-	-
Other Funding	-	-	-	-	-	-
Total Funding:	-	-	-	-	-	-
Net Budget:	-	250,000	-	-	4,500,000	4,750,000

Impact on Operating Budget:

With the potential to add protected active transportation infrastructure and improved transit infrastructure, maintenance costs will be increased for this corridor, however until the functional study is complete, it is difficult to quantify.

Operating Impacts of Capital Budget / Lifecycle Cost

	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Ongoing Operating Costs (Savings)	-	-	-	-	-
One-time Operating Costs (Savings)	-	-	-	-	-

Detailed Work Plan for 2019/20:

	2019/20
Detailed design of Phase 1 of the corridor and public engagement	250,000
Total Estimated Work Plan	250,000
Less Projected Carry Forward from Previous Years	
Gross Budget Request	250,000

2019/20 Capital Budget Form

Project Name:	Bedford West Road Oversizing	Est. Start Date:	Oct-07
Project Number:	CTU01006	Est. Completion Date:	Mar-24
Budget Category:	Traffic Improvements	Supports Priority Area:	Transportation
Project Type:	Growth		
Discrete/Bundled:	Bundled	Project Manager:	Paul Burgess
Multi-Year:	Yes	Asset Steward:	Manager, Road Ops & Construction

Project Summary

Implementation of Bedford West Transportation Master Plan, including road widening projects and intersection improvements. Projects will be partially funded through the Capital Cost Contribution Program. These projects include construction of the Broad Street South Roundabout and design of the Broad Street North Roundabout and Bluewater intersection.

Total Project Budget: n/a

Budget Estimate Confidence: +25%

Project Budget by Year

Fiscal Year	Previously Approved	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Gross Budget:	11,681,508	-	-	-	4,700,000	16,381,508
Project Specific Funding:						
Reserves	1,703,195	-	-	-	-	1,703,195
Other Funding	6,953,612	-	-	-	2,820,000	9,773,612
Total Funding:	8,656,807	-	-	-	2,820,000	11,476,807
Net Budget:	3,024,701	-	-	-	1,880,000	4,904,701

Impact on Operating Budget:

New roadway elements (sidewalks, pavement markings, etc.) will need to be maintained.

Operating Impacts of Capital Budget / Lifecycle Cost

	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Ongoing Operating Costs (Savings)	-	-	-	-	-
One-time Operating Costs (Savings)	-	-	-	-	-

Detailed Work Plan for 2019/20:

	2019/20
Detailed design of the Broad Street North Roundabout and Bluewater intersection	522,903
Total Estimated Work Plan	522,903
Less Projected Carry Forward from Previous Years	522,903
Gross Budget Request	-

2019/20 Capital Budget Form

Project Name: Burnside Connection to Hwy 107	Est. Start Date: Mar-19
Project Number: CT000013	Est. Completion Date: Dec-23
Budget Category: Traffic Improvements	Supports Priority Area: Economic Development
Project Type: Growth	
Discrete/Bundled: Discrete	Project Manager: Michael Wile
Multi-Year: Yes	Asset Steward: Province of Nova Scotia

Project Summary

NS Transportation & Infrastructure Renewal (NSTIR) plan to extend Highway 107 along the north of Burnside Business Park with a connection to Highway 102 and Sackville. They are currently working the Federal Government on a timeline and funding strategy for the entire scope of the NSTIR Project. The current estimated start date for the first of two access connections is March 31, 2019 with a completion date of March 31, 2020. The second interchange connecting to Burnside shall be completed and in operation by December 31, 2023.

The full project and its construction would be under the direction of NSTIR and the project would be subject to a final Cost Sharing Agreement between HRM and the Province. Should the costs as provided be mutually agreed to by HRM and the Province, the cost sharing will remain fixed for HRM's portion and not subject to cost overruns. HRM has requested to pay its cost share in three installments over the term of the project with the final proposed payment due upon completion of the second interchange in 2023.

A portion of the cost sharing shall be paid by Q616 Industrial and Business Parks Growth Reserve to account for the traffic contribution from Phase 13 and proposed future Phase 14 Burnside. Phase 14 has not yet received a service boundary extension and future development uncertain until approved under an MPS Amendment. As such, the overall funding and timing for the Phase 14 contribution is conditional upon Phase 14 obtaining the development rights for expansion.

Total Project Budget: 14,780,000

Budget Estimate Confidence: +-50%

Project Budget by Year

Fiscal Year	Previously Approved	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Gross Budget:	-	-	-	4,000,000	10,780,000	14,780,000
Project Specific Funding:						
Q616 (Business/Industrial Park Ex	-	-	-	3,000,000	3,000,000	6,000,000
Other Funding	-	-	-	-	-	-
Total Funding:	-	-	-	3,000,000	3,000,000	6,000,000
Net Budget:	-	-	-	1,000,000	7,780,000	8,780,000

Impact on Operating Budget:

The street infrastructure created will be part of the Provincial Highway and maintained by the Province. There will be maintenance costs for the AT component of the project.

Operating Impacts of Capital Budget / Lifecycle Cost

	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Ongoing Operating Costs (Savings)	-	-	5,700	74,100	79,800
One-time Operating Costs (Savings)	-	-	-	-	-

Detailed Work Plan for 2019/20:

	2019/20
Total Estimated Work Plan	-
Less Projected Carry Forward from Previous Years	
Gross Budget Request	-

2019/20 Capital Budget Form

Project Name: Cogswell Interchange Redevelop	Est. Start Date: Jan-19
Project Number: CT000007	Est. Completion Date: Dec-22
Budget Category: Traffic Improvements	Supports Priority Area: Economic Development
Project Type: Growth	
Discrete/Bundled: Discrete	Project Manager: John Spinelli
Multi-Year: Yes	Asset Steward: Manager, Road Ops & Construction

Project Summary

This "City Building" program is intended to transform lands supporting aging, underutilized transportation infrastructure (Cogswell Interchange) into a vibrant, mixed use neighbourhood, reintegrating the historic fabric of downtown and the waterfront with the North end of the city. The new neighbourhood will showcase public spaces, squares, urban plazas, pedestrian friendly streets with an overall emphasis on active transportation and transit. The program will deconstruct the roadways, bridges and retaining walls, re-establish an at-grade street network, and realign underground infrastructure. Six acres of developable land will support over 1600 housing units with ground floor commercial spaces and parking. The phased release of these land parcels should substantially contribute to the ongoing construction costs for the new neighbourhood.

Total Project Budget: 61,750,000

Budget Estimate Confidence: +-25%

Project Budget by Year

Fiscal Year	Previously Approved	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Gross Budget:	18,750,000	660,000	23,500,000	15,200,000	3,640,000	61,750,000
Project Specific Funding:						
Q606 (Strategic Capital Reserve)	18,750,000	660,000	23,500,000	15,200,000	3,640,000	61,750,000
Other Funding	-	-	-	-	-	-
Total Funding:	18,750,000	660,000	23,500,000	15,200,000	3,640,000	61,750,000
Net Budget:	-	-	-	-	-	-

Impact on Operating Budget:

New roadway elements (sidewalks, pavement markings, etc.) transit elements, parks, trees and trails will need to be maintained.

Operating Impacts of Capital Budget / Lifecycle Cost

	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Ongoing Operating Costs (Savings)	-	-	100,000	1,750,000	1,850,000
One-time Operating Costs (Savings)	-	-	-	-	-

Detailed Work Plan for 2019/20:

	2019/20
Mobilization	500,000
Site Preparation	750,000
Temporary Bypass Roads	3,660,000
Grading	6,000,000
Utility Relocation	5,000,000
Demolition	3,500,000
Total Estimated Work Plan	19,410,000
Less Projected Carry Forward from Previous Years	18,750,000
Gross Budget Request	660,000

2019/20 Capital Budget Form

Project Name: Complete Streets	Est. Start Date: Annual Program
Project Number: CT180008	Est. Completion Date: Annual Program
Budget Category: Traffic Improvements	Supports Priority Area: Transportation
Project Type: Growth	
Discrete/Bundled: Bundled	Project Manager: Hanita Koblents
Multi-Year: No	Asset Steward: Manager, Road Ops & Construction

Project Summary

Further to the Integrated Mobility Plan (IMP) actions 33, 43, 121, this account will be used to 'get ahead of the pavers' and develop preliminary plans (functional studies) that can be implemented alone or in conjunction with future roadway asset renewal projects. They will consider all modes of travel, with an emphasis on comfort and safety for pedestrians, bicyclists, and transit riders, while recognizing the 'place' value of certain streets. This project will also enable streetscape spot improvements, and tactical pilot projects to test new ideas for streets, including wayfinding (Action 48).

Total Project Budget: n/a

Budget Estimate Confidence: +35%

Project Budget by Year

Fiscal Year	Previously Approved	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Gross Budget:	772,807	350,000	-	-	3,850,000	4,972,807
Project Specific Funding:						
Q631 (Debt Principal and Interest Repayment Reserve)	-	350,000	-	-	-	350,000
Other Funding	-	-	-	-	-	-
Total Funding:	-	350,000	-	-	-	350,000
Net Budget:	772,807	-	-	-	3,850,000	4,622,807

Impact on Operating Budget:

New roadway elements including pilot projects will need to be maintained.

Operating Impacts of Capital Budget / Lifecycle Cost

	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Ongoing Operating Costs (Savings)	2,500	2,500	2,500	2,500	10,000
One-time Operating Costs (Savings)	-	-	-	-	-

Detailed Work Plan for 2019/20:

Detailed Work Plan for 2019/20:	2019/20
Functional planning and design of strategic corridors using Complete Streets approach (<i>IMP</i> Action 32)	370,807
Tactical Urbanism (i.e. pilot projects) and spot improvements	200,000
Property acquisition/ demolition	400,000
Total Estimated Work Plan	970,807
Less Projected Carry Forward from Previous Years	620,807
Gross Budget Request	350,000

2019/20 Capital Budget Form

Project Name: Controller Cabinet & Detection	Est. Start Date: Annual Program
Project Number: CT180004	Est. Completion Date: Annual Program
Budget Category: Traffic Improvements	Supports Priority Area: Transportation
Project Type: Asset Renewal	
Discrete/Bundled: Bundled	Project Manager: Roddy MacIntyre
Multi-Year: No	Asset Steward: Manager, Traffic Management

Project Summary

Many controller cabinets that hold the electronic components for the city's traffic signals have reached their life expectancy and/or are not adequate to support components required to run current systems such as conflict detection, communication, phasing plans and the Opticom emergency vehicle detection system. Upgrades to timers and communication are required to enable older traffic signals to be added to the iNet traffic control system which was installed as part of a previous project. This project will also include the installation, upgrade and maintenance of vehicle and pedestrian detection equipment such as: inductive loops, cameras, radar and accessible pedestrian signals. Detection equipment is a key component to optimize the traffic signal network.

Total Project Budget: n/a

Budget Estimate Confidence: +25%

Project Budget by Year

Fiscal Year	Previously Approved	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Gross Budget:	1,104,322	200,000	350,000	350,000	2,800,000	4,804,322
Project Specific Funding:						
Reserves	-	-	-	-	-	-
Other Funding	-	-	-	-	-	-
Total Funding:	-	-	-	-	-	-
Net Budget:	1,104,322	200,000	350,000	350,000	2,800,000	4,804,322

Impact on Operating Budget:

This project should have no impact on operating budget.

Operating Impacts of Capital Budget / Lifecycle Cost

	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Ongoing Operating Costs (Savings)	-	-	-	-	-
One-time Operating Costs (Savings)	-	-	-	-	-

Detailed Work Plan for 2019/20:

Detailed Work Plan for 2019/20:	2019/20
Installation of 140 modems (carry over)	170,000
Replacement of 79 timers (36 carried forward from 2018)	291,805
Installation of 5 accessible pedestrian signals	50,000
Replacement of 5 traffic signal cabinet assemblies	90,000
Installation of detector equipment	170,000
Contingency to address unanticipated equipment failures	30,000
Total Estimated Work Plan	801,805
Less Projected Carry Forward from Previous Years	601,805
Gross Budget Request	200,000

2019/20 Capital Budget Form

Project Name:	Destination Signage Program	Est. Start Date:	Annual Program
Project Number:	CTR00904	Est. Completion Date:	Annual Program
Budget Category:	Traffic Improvements	Supports Priority Area:	Transportation
Project Type:	Asset Renewal		
Discrete/Bundled:	Bundled	Project Manager:	Roddy MacIntyre
Multi-Year:	No	Asset Steward:	Manager, Traffic Management

Project Summary

This project involves the inspection, maintenance and installation of overhead traffic sign infrastructure such as lane use, guide and destination signs, which provide directional guidance to motorists. The project also includes the funding for detailed structural inspection of all sign trusses which is required to be carried out every five years.

Total Project Budget: n/a

Budget Estimate Confidence: +50%

Project Budget by Year

Fiscal Year	Previously Approved	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Gross Budget:	1,347,217	120,000	-	-	500,000	1,967,217
Project Specific Funding:						
Reserves	-	-	-	-	-	-
Other Funding	-	-	-	-	-	-
Total Funding:	-	-	-	-	-	-
Net Budget:	1,347,217	120,000	-	-	500,000	1,967,217

Impact on Operating Budget:

This project is anticipated to have no impact on operating budget.

Operating Impacts of Capital Budget / Lifecycle Cost

	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Ongoing Operating Costs (Savings)	-	-	-	-	-
One-time Operating Costs (Savings)	-	-	-	-	-

Detailed Work Plan for 2019/20:

	2019/20
Truss inspections / condition assessment (carry over)	100,000
Truss repairs arising from condition assessment	303,990
Total Estimated Work Plan	403,990
Less Projected Carry Forward from Previous Years	283,990
Gross Budget Request	120,000

2019/20 Capital Budget Form

Project Name:	Downtown Dartmouth Infra Renew	Est. Start Date:	1-Apr-19
Project Number:	CT190003	Est. Completion Date:	31-Mar-23
Budget Category:	Traffic Improvements	Supports Priority Area:	Transportation
Project Type:	Growth		
Discrete/Bundled:	Discrete	Project Manager:	Paul Burgess
Multi-Year:	Yes	Asset Steward:	Manager, Road Ops & Construction

Project Summary

The Downtown Dartmouth Infrastructure Renewal program includes the extension of Dundas Street across the Shubenacadie Canal to Canal Street, and the realignment of Alderney Drive. The work in 2019/20 will be the detailed design work.

Total Project Budget: 7,200,000

Budget Estimate Confidence: +25%

Project Budget by Year

Fiscal Year	Previously Approved	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Gross Budget:	-	200,000	-	-	7,000,000	7,200,000
Project Specific Funding:						
Reserves	-	-	-	-	-	-
Local Improvement Charge (LIC)	-	-	-	-	3,500,000	3,500,000
Total Funding:	-	-	-	-	3,500,000	3,500,000
Net Budget:	-	200,000	-	-	3,500,000	3,700,000

Impact on Operating Budget:

New roadway elements (sidewalks, pavement markings, etc.) will need to be maintained.

Operating Impacts of Capital Budget / Lifecycle Cost

	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Ongoing Operating Costs (Savings)	-	-	-	-	-
One-time Operating Costs (Savings)	-	-	-	-	-

Detailed Work Plan for 2019/20:

Detailed Work Plan for 2019/20:	2019/20
Detailed design of Dundas Street Bridge and the realignment of Alderney Drive	200,000
Total Estimated Work Plan	200,000
Less Projected Carry Forward from Previous Years	
Gross Budget Request	200,000

2019/20 Capital Budget Form

Project Name:	Herring Cove Road	Est. Start Date:	May-19
Project Number:	CT190005	Est. Completion Date:	Dec-19
Budget Category:	Traffic Improvements	Supports Priority Area:	Transportation
Project Type:	Asset Renewal		
Discrete/Bundled:	Discrete	Project Manager:	Tanya Davis
Multi-Year:	Yes	Asset Steward:	Manager, Road Ops & Construction

Project Summary

Action 121 of the Integrated Mobility Plan directs staff to identify “Strategic Corridors” – existing road corridors that are key to regional traffic flow, transit, goods movement and active transportation and develop plans that will guide their development over time. In 2018/19, with funding help from the Provincial Connect 2 Grant, HRM is undertaking a comprehensive functional transportation planning study to help develop cross sections for Herring Cove Road from the 500 block to the Armdale Roundabout. In 2019/20, the corridor will begin the first phase of detailed design, with construction anticipated to be phased over multiple years.

Total Project Budget: 2,750,000

Budget Estimate Confidence: +50%

Project Budget by Year

Fiscal Year	Previously Approved	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Gross Budget:	-	250,000	-	-	2,500,000	2,750,000
Project Specific Funding:						
Reserves	-	-	-	-	-	-
Other Funding	-	-	-	-	-	-
Total Funding:	-	-	-	-	-	-
Net Budget:	-	250,000	-	-	2,500,000	2,750,000

Impact on Operating Budget:

With the potential to add protected active transportation infrastructure and improved transit infrastructure, maintenance costs will be increased for this corridor, however until the functional study is complete, it is difficult to quantify.

Operating Impacts of Capital Budget / Lifecycle Cost

	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Ongoing Operating Costs (Savings)	-	-	-	3,000	3,000
One-time Operating Costs (Savings)	-	-	-	-	-

Detailed Work Plan for 2019/20:

	2019/20
Detailed design for Phase 1 of the functional design (e.g.: Purcell's Cove Rd to Armdale (Phases are dependent on the results of the functional plan)	250,000
Total Estimated Work Plan	250,000
Less Projected Carry Forward from Previous Years	
Gross Budget Request	250,000

2019/20 Capital Budget Form

Project Name:	Highway 7 - Magazine Hill	Est. Start Date:	May-22
Project Number:	CT200001	Est. Completion Date:	Dec-23
Budget Category:	Traffic Improvements	Supports Priority Area:	Transportation
Project Type:	Asset Renewal		
Discrete/Bundled:	Discrete	Project Manager:	Tanya Davis
Multi-Year:	Yes	Asset Steward:	Manager, Road Ops & Construction

Project Summary

Action 121 of the Integrated Mobility Plan indicates to identify "Strategic Corridors" – existing road corridors that are key to regional traffic flow, transit, goods movement and active transportation – and develop plans that will guide their development over time. In 2018/19, HRM is undertaking a comprehensive functional transportation study to help develop cross sections for Highway 7 (Magazine Hill) from Dartmouth Road to Windmill Road. Under the Integrated Mobility Plan lens when the Province completes the Burnside Expressway, the potential to repurpose this corridor for other modes of transportation will be important so as not to create more car carrying capacity into the urban centre. Adding transit priority and active transportation infrastructure to this corridor is an integral part of seeing mode shift in HRM and achieving the Integrated Mobility Plan and Regional Plan mode targets.

Total Project Budget: 1,500,000

Budget Estimate Confidence: +50%

Project Budget by Year

Fiscal Year	Previously Approved	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Gross Budget:	-	-	-	-	1,500,000	1,500,000
Project Specific Funding:						
Reserves	-	-	-	-	-	-
Other Funding	-	-	-	-	-	-
Total Funding:	-	-	-	-	-	-
Net Budget:	-	-	-	-	1,500,000	1,500,000

Impact on Operating Budget:

With the potential to add protected active transportation infrastructure, maintenance costs may be increased for this corridor, but until the functional and detailed design are complete the amount is hard to quantify.

Operating Impacts of Capital Budget / Lifecycle Cost

	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Ongoing Operating Costs (Savings)	-	-	-	-	-
One-time Operating Costs (Savings)	-	-	-	-	-

Detailed Work Plan for 2019/20:

2019/20

Total Estimated Work Plan	-
Less Projected Carry Forward from Previous Years	
Gross Budget Request	-

2019/20 Capital Budget Form

Project Name: IMP Land Acquisition	Est. Start Date: Annual Program
Project Number: CT000014	Est. Completion Date: Annual Program
Budget Category: Traffic Improvements	Supports Priority Area: Transportation
Project Type: Growth	
Discrete/Bundled: Bundled	Project Manager: Tanya Davis
Multi-Year: Yes	Asset Steward: Manager, Road Ops & Construction

Project Summary

The Integrated Mobility Plan was approved on December 5th, 2017, and provides an action plan for project evaluation and a framework for performance measurement to ensure modal share targets contained in the Regional Plan are met. The Integrated Mobility Plan, AT Priorities Plan, and the Moving Forward Together Plan give direction on both short-term and longer-term requirements for the Transportation Network. Land acquisition may be needed to secure corridors and sites for longer-term mobility projects identified in these plans and for other mobility projects approved by Regional Council well in advance of the project itself being budgeted for. This budget would be used for property assessments, appraisals, and acquisitions.

Total Project Budget: n/a

Budget Estimate Confidence: +35%

Project Budget by Year

Fiscal Year	Previously Approved	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Gross Budget:	-	1,450,000	-	-	7,000,000	8,450,000
Project Specific Funding:						
Q526 (Capital Fund Reserve)	-	1,450,000	-	-	-	1,450,000
Other Funding	-	-	-	-	-	-
Total Funding:	-	1,450,000	-	-	-	1,450,000
Net Budget:	-	-	-	-	7,000,000	7,000,000

Impact on Operating Budget:

N/A

Operating Impacts of Capital Budget / Lifecycle Cost

	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Ongoing Operating Costs (Savings)	-	-	-	-	-
One-time Operating Costs (Savings)	-	-	-	-	-

Detailed Work Plan for 2019/20:

Detailed Work Plan for 2019/20:	2019/20
Robie Street Transit Priority Corridor land appraisals and acquisition	200,000
Young Street Transit Priority Corridor land appraisals and acquisition	50,000
Bayers Road Transit Priority Corridor land appraisals and acquisition	900,000
General land appraisals and acquisition	100,000
Active Transportation	50,000
Real estate consultant	150,000
Total Estimated Work Plan	1,450,000
Less Projected Carry Forward from Previous Years	
Gross Budget Request	1,450,000

2019/20 Capital Budget Form

Project Name: MacLennan Drive	Est. Start Date: May-22
Project Number: CTU01365	Est. Completion Date: May-24
Budget Category: Traffic Improvements	Supports Priority Area: Transportation
Project Type: Growth	
Discrete/Bundled: Discrete	Project Manager: Tanya Davis
Multi-Year: Yes	Asset Steward: Manager, Road Ops & Construction

Project Summary

MacLennan Drive is planned as a collector roadway for Middle and Upper Sackville. The first phase of this work is a two-lane rural collector road extending from Margeson Drive to Rosemary Drive (1.0 km). Property has not been acquired.

Total Project Budget: 15,700,000

Budget Estimate Confidence: +50%

Project Budget by Year

Fiscal Year	Previously Approved	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Gross Budget:	-	-	-	-	15,700,000	15,700,000
Project Specific Funding:						
Reserves	-	-	-	-	-	-
Other Funding	-	-	-	-	-	-
Total Funding:	-	-	-	-	-	-
Net Budget:	-	-	-	-	15,700,000	15,700,000

Impact on Operating Budget:

This would be new roadway that would have to be maintained by HRM resources, however until the functional study/detailed design is complete, it is difficult to quantify.

Operating Impacts of Capital Budget / Lifecycle Cost

	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Ongoing Operating Costs (Savings)	-	-	-	-	-
One-time Operating Costs (Savings)	-	-	-	-	-

Detailed Work Plan for 2019/20:

2019/20

Total Estimated Work Plan	-
Less Projected Carry Forward from Previous Years	
Gross Budget Request	-

2019/20 Capital Budget Form

Project Name: Margeson Drive	Est. Start Date: Apr-22
Project Number: CTU01287	Est. Completion Date: Mar-24
Budget Category: Traffic Improvements	Supports Priority Area: Transportation
Project Type: Growth	
Discrete/Bundled: Discrete	Project Manager: Tanya Davis
Multi-Year: Yes	Asset Steward: Manager, Road Ops & Construction

Project Summary

Margeson Drive is a planned north-west collector roadway through the Middle Sackville and Lucasville areas. An interchange on Highway 101 at Margeson Drive plus a connection to Trunk 1 was constructed in 2009. This phase of Margeson Drive extends Margeson Drive from Magenta Drive in the Indigo Shores Development to Stonewick Cross Road. This 900 metre section of two-lane collector roadway includes a bridge across the Sackville River. Completion of this collector roadway will create a connection to Highway 101 and the proposed park-and-ride lot and could reduce traffic loading on Hammonds Plains Road and Lucasville Road.

Total Project Budget: 8,303,481

Budget Estimate Confidence: +-50%

Project Budget by Year

Fiscal Year	Previously Approved	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Gross Budget:	303,481	-	-	-	8,000,000	8,303,481
Project Specific Funding:						
Reserves	-	-	-	-	-	-
Other Funding	-	-	-	-	-	-
Total Funding:	-	-	-	-	-	-
Net Budget:	303,481	-	-	-	8,000,000	8,303,481

Impact on Operating Budget:

This project includes a new road and bridge which will require maintenance by HRM resources, however until the functional study/detailed design is complete, it is difficult to quantify.

Operating Impacts of Capital Budget / Lifecycle Cost

	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Ongoing Operating Costs (Savings)	-	-	-	-	-
One-time Operating Costs (Savings)	-	-	-	-	-

Detailed Work Plan for 2019/20:

	2019/20
Total Estimated Work Plan	-
Less Projected Carry Forward from Previous Years	
Gross Budget Request	-

2019/20 Capital Budget Form

Project Name: North Park Corridor Improvements	Est. Start Date: Apr-19
Project Number: CT000001	Est. Completion Date: Sep-19
Budget Category: Traffic Improvements	Supports Priority Area: Transportation
Project Type: Growth	
Discrete/Bundled: Discrete	Project Manager: Roddy MacIntyre
Multi-Year: No	Asset Steward: Manager, Traffic Management

Project Summary

In 2010, Halifax Regional Council adopted in principle the use of modern roundabouts on municipal roads where appropriate design standards and guidelines can be met. The traffic signals at North Park/Cogswell/Rainnie and North Park/Cunard are near the end of their life expectancy. An opportunity exists to reduce the pavement width between these intersections to provide for other uses such as additional green space and active transportation by implementing roundabouts at both intersections. The design takes into account all intersection users including pedestrians, cyclists, passenger and emergency vehicles, buses and trucks. A key component is the provision of active transportation links, the undergrounding of current overhead wires, and space for public art.

Total Project Budget: 12,256,263

Budget Estimate Confidence: +-25%

Project Budget by Year

Fiscal Year	Previously Approved	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Gross Budget:	12,256,263	-	-	-	-	12,256,263
Project Specific Funding:						
Reserves	-	-	-	-	-	-
Other Funding	-	-	-	-	-	-
Total Funding:	-	-	-	-	-	-
Net Budget:	12,256,263	-	-	-	-	12,256,263

Impact on Operating Budget:

Impact to operating budget has been accounted for in previous phases of the project. There are no anticipated operating budget impacts arising from the current workplan item.

Operating Impacts of Capital Budget / Lifecycle Cost

	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Ongoing Operating Costs (Savings)	-	-	-	-	-
One-time Operating Costs (Savings)	-	-	-	-	-

Detailed Work Plan for 2019/20:

	2019/20
Public Art (carry over)	30,000
Total Estimated Work Plan	30,000
Less Projected Carry Forward from Previous Years	30,000
Gross Budget Request	-

2019/20 Capital Budget Form

Project Name: Opticom Signalization System	Est. Start Date: Annual Program
Project Number: CT190004	Est. Completion Date: Annual Program
Budget Category: Traffic Improvements	Supports Priority Area: Healthy, Livable Communities
Project Type: Growth	
Discrete/Bundled: Bundled	Project Manager: Stephen Nearing
Multi-Year: Yes	Asset Steward: Manager, Traffic Management

Project Summary

Opticom was originally designed for Emergency Vehicle Preemption to help responders get to emergencies quickly and safely. Now the system is being upgraded to utilize AVL technology and being considered for public transit capabilities as it is "smart" enough not to have competing signals from different service providers. With signal preemption, the likelihood of crashes can be reduced and responses can take less time. This all leads to better outcomes and savings. In 2019-20, nine new fire apparatus will require the hardware/software to be installed, and several high traffic intersections will require upgrade to this technology. Transit is currently exploring utilizing this technology and funding opportunities although currently this project is funded entirely from the Fleet Vehicles and Equipment Reserve (Q531).

Total Project Budget: n/a

Budget Estimate Confidence: +-25%

Project Budget by Year

Fiscal Year	Previously Approved	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Gross Budget:	800,000	-	5,000	5,000	560,000	1,370,000
Project Specific Funding:						
Q531 (Fleet Vehicles & Equipment Reserve)	-	-	5,000	5,000	-	10,000
Other Funding	-	-	-	-	-	-
Total Funding:	-	-	5,000	5,000	-	10,000
Net Budget:	800,000	-	-	-	560,000	1,360,000

Impact on Operating Budget:

The impact is related to vehicle maintenance / repairs. By having the fire apparatus travel more safely through the streets, with a pre-empted controlled traffic signals, wear and tear on the apparatus is reduced.

Operating Impacts of Capital Budget / Lifecycle Cost

	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Ongoing Operating Costs (Savings)	-	-	-	-	-
One-time Operating Costs (Savings)	-	-	-	-	-

Detailed Work Plan for 2019/20:

	2019/20
Purchasing of OPTICOM GPS Traffic Control Software and Labour Contracts	82,395
Total Estimated Work Plan	82,395
Less Projected Carry Forward from Previous Years	82,395
Gross Budget Request	-

2019/20 Capital Budget Form

Project Name:	Portland Street	Est. Start Date:	May-19
Project Number:	CT190002	Est. Completion Date:	Dec-19
Budget Category:	Traffic Improvements	Supports Priority Area:	Transportation
Project Type:	Asset Renewal		
Discrete/Bundled:	Discrete	Project Manager:	Tanya Davis
Multi-Year:	Yes	Asset Steward:	Manager, Road Ops & Construction

Project Summary

Action 121 of the Integrated Mobility Project (IMP) directs staff to identify “Strategic Corridors” – existing road corridors that are key to regional traffic flow, transit, goods movement and active transportation and develop plans that will guide their development over time. The Shearwater Connector is identified in the Regional Plan. If the Shearwater Connector is constructed it will likely encourage additional car carrying capacity along Portland Street/Cole Harbour Road (parallel street to Shearwater Connector). Portland Street was identified as a transit priority corridor in the IMP. This project will develop functional plans for Portland Street/Cole Harbour Road if the Shearwater Connector is built and if it is not.

Total Project Budget: 1,650,000

Budget Estimate Confidence: +-50%

Project Budget by Year

Fiscal Year	Previously Approved	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Gross Budget:	-	150,000	-	-	1,500,000	1,650,000
Project Specific Funding:						
Reserves	-	-	-	-	-	-
Other Funding	-	-	-	-	-	-
Total Funding:	-	-	-	-	-	-
Net Budget:	-	150,000	-	-	1,500,000	1,650,000

Impact on Operating Budget:

With the potential to add improved transit infrastructure, maintenance costs may be increased for this corridor, however until the functional study is complete, it is difficult to quantify.

Operating Impacts of Capital Budget / Lifecycle Cost

	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Ongoing Operating Costs (Savings)	-	-	-	-	-
One-time Operating Costs (Savings)	-	-	-	-	-

Detailed Work Plan for 2019/20:

2019/20

Functional and detailed design for Portland Street/Cole Harbour Road (Forest Hills Parkway to Baker Drive)	150,000
Total Estimated Work Plan	150,000
Less Projected Carry Forward from Previous Years	
Gross Budget Request	150,000

2019/20 Capital Budget Form

Project Name:	Railway Crossing Improvements	Est. Start Date:	Annual Program
Project Number:	CT000015	Est. Completion Date:	Annual Program
Budget Category:	Traffic Improvements	Supports Priority Area:	Transportation
Project Type:	Growth		
Discrete/Bundled:	Bundled	Project Manager:	Roddy MacIntyre
Multi-Year:	No	Asset Steward:	Manager, Traffic Management

Project Summary

The operation of trains and rail crossings in Canada is governed by the Rail Safety Act (the Act). The Act refers to a series of regulations, including the Grade Crossings Regulations (GCR) which was recently passed into law. This new regulation now imposes significant responsibilities on road authorities and railway operators as it relates to public railway grade crossings. The revised regulations are intended to improve safety by providing comprehensive and enforceable safety standards, clarifying roles and responsibilities, and ensuring key safety information is shared between railway operators and road authorities. All at-grade crossings must be in compliance with the Act, Regulations and Standards by November 2021. This project includes work required to ensure all at grade railway crossings within the Municipality's jurisdiction are in compliance with the regulations.

Total Project Budget: n/a

Budget Estimate Confidence: +-25%

Project Budget by Year

Fiscal Year	Previously Approved	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Gross Budget:	250,000	30,000	250,000	-	-	530,000
Project Specific Funding:						
Reserves	-	-	-	-	-	-
Other Funding	-	-	-	-	-	-
Total Funding:	-	-	-	-	-	-
Net Budget:	250,000	30,000	250,000	-	-	530,000

Impact on Operating Budget:

It is anticipated there would be no impact to operating budget as a result of the work undertaken as part of this project.

Operating Impacts of Capital Budget / Lifecycle Cost

	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Ongoing Operating Costs (Savings)	-	-	-	-	-
One-time Operating Costs (Savings)	-	-	-	-	-

Detailed Work Plan for 2019/20:

Detailed Work Plan for 2019/20:	2019/20
Railway crossing improvements - various locations, planning still underway	251,217
Total Estimated Work Plan	251,217
Less Projected Carry Forward from Previous Years	221,217
Gross Budget Request	30,000

2019/20 Capital Budget Form

Project Name: Road Safety Improvement	Est. Start Date: Annual Program
Project Number: CT190006	Est. Completion Date: Annual Program
Budget Category: Traffic Improvements	Supports Priority Area: Transportation
Project Type: Growth	
Discrete/Bundled: Bundled	Project Manager: Roddy MacIntyre
Multi-Year: No	Asset Steward: Manager, Traffic Management

Project Summary

The purpose of this project is to improve safety and operation at intersections or specific roadway sections, through minor reconfiguration or lane use changes. This project includes the addition/upgrade of pedestrian ramps at marked crosswalks and improvements to pedestrian connectivity. Also included in this project is the implementation of traffic calming and road safety initiatives.

Total Project Budget: n/a

Budget Estimate Confidence: +-25%

Project Budget by Year

Fiscal Year	Previously Approved	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Gross Budget:	1,097,870	215,000	500,000	500,000	15,165,000	17,477,870
Project Specific Funding:						
Reserves	-	-	-	-	-	-
Other Funding	-	-	-	-	-	-
Total Funding:	-	-	-	-	-	-
Net Budget:	1,097,870	215,000	500,000	500,000	15,165,000	17,477,870

Impact on Operating Budget:

Completion of the work outlined in this project will require an increase to operating budgets to accommodate costs associated with contract services (pavement markings) and maintenance (signage materials).

Operating Impacts of Capital Budget / Lifecycle Cost

	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Ongoing Operating Costs (Savings)	4,240	4,240	4,240	29,680	42,400
One-time Operating Costs (Savings)	-	-	-	-	-

Detailed Work Plan for 2019/20:

	2019/20
Traffic calming - various locations, planning still in progress	300,000
Kaye St at Young St - intersection improvement	50,000
Sackville Dr at Orchard Dr / Bambrick Rd - intersection improvement	30,000
Golf Links Rd at Eaglewood Dr - intersection realignment	75,000
Larry Uteck Roundabout In-Service Safety Audit	25,000
Misc minor improvements / coordination opportunities - various locations, planning still in progress	200,000
Total Estimated Work Plan	680,000
Less Projected Carry Forward from Previous Years	465,000
Gross Budget Request	215,000

2019/20 Capital Budget Form

Project Name: Ross Road Realignment	Est. Start Date: Apr-22
Project Number: CT000012	Est. Completion Date: Mar-23
Budget Category: Traffic Improvements	Supports Priority Area: Transportation
Project Type: Growth	
Discrete/Bundled: Discrete	Project Manager: Tanya Davis
Multi-Year: Yes	Asset Steward: Manager, Road Ops & Construction

Project Summary

The intersection of Ross Road and Trunk 7 has experienced safety and operational issues for many years due to high speeds on Trunk 7 and the proximity of the intersection to another major signalized intersection at Lake Major Road. The most effective solution to this issue is the realignment of Ross Road to create a fourth leg to the existing signalized intersection. Implementing that solution has recently become more attainable with the sale of the land across which the realigned roadway would travel to a developer interested in working with the Municipality. A distribution of cost responsibility will be developed through the negotiation process for a Development Agreement. The funds identified in this account are an estimate of HRM's likely contribution. Costs was identified previously as \$1.2M, \$600,000 covered by the developer.

Total Project Budget: 1,200,000

Budget Estimate Confidence: +-35%

Project Budget by Year

Fiscal Year	Previously Approved	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Gross Budget:	-	-	-	-	1,200,000	1,200,000
Project Specific Funding:						
Reserves	-	-	-	-	-	-
Local Improvement Charge (LIC)	-	-	-	-	600,000	600,000
Total Funding:	-	-	-	-	600,000	600,000
Net Budget:	-	-	-	-	600,000	600,000

Impact on Operating Budget:

New roadway elements (sidewalks, pavement markings, etc.) will need to be maintained.

Operating Impacts of Capital Budget / Lifecycle Cost

	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Ongoing Operating Costs (Savings)	-	-	-	-	-
One-time Operating Costs (Savings)	-	-	-	-	-

Detailed Work Plan for 2019/20:

2019/20

Total Estimated Work Plan	-
Less Projected Carry Forward from Previous Years	
Gross Budget Request	-

2019/20 Capital Budget Form

Project Name: Shearwater Connector	Est. Start Date: TBD
Project Number: CT000016	Est. Completion Date: TBD
Budget Category: Traffic Improvements	Supports Priority Area: Economic Development
Project Type: Growth	
Discrete/Bundled: Discrete	Project Manager: Paul Burgess
Multi-Year: Yes	Asset Steward: Manager, Road Ops & Construction

Project Summary

The Shearwater Connector, identified in the Regional Plan as the Mount Hope Interchange and Extension, is one of several road network projects identified in the Regional Plan that may be needed to meet future vehicle demands. The Integrated Mobility Plan requires that further investment in roads be limited. The IMP evaluation scorecard will be used to evaluate road network priorities in conjunction with the review of the Regional Plan.

Total Project Budget: 19,100,000

Budget Estimate Confidence: +-25%

Project Budget by Year

Fiscal Year	Previously Approved	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Gross Budget:	100,000	-	-	-	19,000,000	19,100,000
Project Specific Funding:						
Reserves	-	-	-	-	-	-
Capital Cost Contribution	-	-	-	-	2,000,000	2,000,000
Total Funding:	-	-	-	-	2,000,000	2,000,000
Net Budget:	100,000	-	-	-	17,000,000	17,100,000

Impact on Operating Budget:

None at this time.

Operating Impacts of Capital Budget / Lifecycle Cost

	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Ongoing Operating Costs (Savings)	-	-	-	-	-
One-time Operating Costs (Savings)	-	-	-	-	-

Detailed Work Plan for 2019/20:

2019/20

Total Estimated Work Plan	-
Less Projected Carry Forward from Previous Years	
Gross Budget Request	-

2019/20 Capital Budget Form

Project Name: Street Lighting	Est. Start Date: Annual Program
Project Number: CT180001	Est. Completion Date: Annual Program
Budget Category: Traffic Improvements	Supports Priority Area: Transportation
Project Type: Asset Renewal	
Discrete/Bundled: Bundled	Project Manager: Roddy MacIntyre
Multi-Year: No	Asset Steward: Manager, Traffic Management

Project Summary

The Municipality has been active in developing a street light guideline that reflects: consistent application of recommended lighting design standards; improvement of urban design through uniform lighting installations; and reduction of energy consumption through utilization of energy efficient technologies. This project deals with the installation, maintenance and replacement of street light infrastructure.

Total Project Budget: n/a

Budget Estimate Confidence: +-25%

Project Budget by Year

Fiscal Year	Previously Approved	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Gross Budget:	743,006	275,000	250,000	250,000	840,000	2,358,006
Project Specific Funding:						
Reserves	-	-	-	-	-	-
Other Funding	-	-	-	-	-	-
Total Funding:	-	-	-	-	-	-
Net Budget:	743,006	275,000	250,000	250,000	840,000	2,358,006

Impact on Operating Budget:

Completion of the work outlined in this project will require an increase to operating budgets to accommodate costs associated with electricity, contract services and equipment maintenance.

Operating Impacts of Capital Budget / Lifecycle Cost

	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Ongoing Operating Costs (Savings)	15,120	15,120	15,120	105,840	151,200
One-time Operating Costs (Savings)	-	-	-	-	-

Detailed Work Plan for 2019/20:

	2019/20
Replacement of 4 power enclosures - various locations, planning still underway	150,000
Replacement of 15 ornamental poles and fixtures - various locations, planning still underway	45,000
Installation of 75 LED streetlights - various locations, planning still underway	75,000
Installation of 10 wood streetlight poles - various locations, planning still underway	25,000
Condition assessment of streetlight poles and bases - various locations, planning still underway	85,000
Repair / replacement of aluminum streetlight poles/bases identified through condition assessment	85,000
Contingency to address unanticipated equipment failures	50,000
Total Estimated Work Plan	515,000
Less Projected Carry Forward from Previous Years	240,000
Gross Budget Request	275,000

2019/20 Capital Budget Form

Project Name: Streetscape Renewal	Est. Start Date: Annual Program
Project Number: CT190002	Est. Completion Date: Annual Program
Budget Category: Traffic Improvements	Supports Priority Area: Economic Development
Project Type: Asset Renewal	
Discrete/Bundled: Bundled	Project Manager: Hanita Koblents
Multi-Year: Yes	Asset Steward: Manager, Road Ops & Construction

Project Summary

Streetscaping projects employ the use of a variety of non standard roadway elements (decorative pavements, lighting, etc.) Recapitalization and repair of older projects or damaged streetscape elements should be anticipated. This project enables the timely repair and replacement of non standard project elements.

Total Project Budget: n/a

Budget Estimate Confidence: +25%

Project Budget by Year

Fiscal Year	Previously Approved	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Gross Budget:	-	-	-	-	350,000	350,000
Project Specific Funding:						
Reserves	-	-	-	-	-	-
Other Funding	-	-	-	-	-	-
Total Funding:	-	-	-	-	-	-
Net Budget:	-	-	-	-	350,000	350,000

Impact on Operating Budget:

This budget is for renewal/repair of existing infrastructure. No additional impact on operating is expected.

Operating Impacts of Capital Budget / Lifecycle Cost

	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Ongoing Operating Costs (Savings)	-	-	-	-	-
One-time Operating Costs (Savings)	-	-	-	-	-

Detailed Work Plan for 2019/20:

	2019/20
Total Estimated Work Plan	-
Less Projected Carry Forward from Previous Years	
Gross Budget Request	-

2019/20 Capital Budget Form

Project Name: Streetscapes - Argyle/Grafton	Est. Start Date: Apr-16
Project Number: CD000002	Est. Completion Date: Dec-19
Budget Category: Traffic Improvements	Supports Priority Area: Economic Development
Project Type: Growth	
Discrete/Bundled: Discrete	Project Manager: Hanita Koblents
Multi-Year: Yes	Asset Steward: Manager, Road Ops & Construction

Project Summary

On April 26, 2016 Council approved funding for two major streetscaping projects including Argyle/ Grafton. The project was substantially completed in November, 2017. This account remains open to address minor elements that are left to install and any post construction contingencies that may arise.

Total Project Budget: 6,786,010

Budget Estimate Confidence: +-5%

Project Budget by Year

Fiscal Year	Previously Approved	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Gross Budget:	6,786,010	-	-	-	-	6,786,010
Project Specific Funding:						
Reserves	-	-	-	-	-	-
Other Funding	-	-	-	-	-	-
Total Funding:	-	-	-	-	-	-
Net Budget:	6,786,010	-	-	-	-	6,786,010

Impact on Operating Budget:

5-10% of capital cost of construction of new elements should have been allocated to various business units to maintain non-standard feature elements related to the unique design (i.e. light bollards and LED canopy, unit paver roadway, roadway subdrain, public art). Monies for Argyle/ Grafton were assigned to the operating budget in 2018.

Operating Impacts of Capital Budget / Lifecycle Cost

	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Ongoing Operating Costs (Savings)	14,400	14,400	14,400	100,800	144,000
One-time Operating Costs (Savings)	-	-	-	-	-

Detailed Work Plan for 2019/20:

	2019/20
Complete installation of gateway signs, public art, miscellaneous	93,546
Construction contingency	492,830
Total Estimated Work Plan	586,376
Less Projected Carry Forward from Previous Years	586,376
Gross Budget Request	-

2019/20 Capital Budget Form

Project Name:	Streetscapes - Spring Garden Rd	Est. Start Date:	May-18
Project Number:	CD000001	Est. Completion Date:	Dec-20
Budget Category:	Traffic Improvements	Supports Priority Area:	Economic Development
Project Type:	Growth		
Discrete/Bundled:	Discrete	Project Manager:	Hanita Koblents
Multi-Year:	Yes	Asset Steward:	Manager, Road Ops & Construction

Project Summary

On April 26, 2016 Council approved funding for two major streetscaping projects including Spring Garden Road. This projects includes a functional plan for the Spring Garden Road Corridor, as well as detailed design and construction of the streetscape generally between Queen Street and Cathedral lane, including undergrounding of overhead utilities.

Total Project Budget: 10,396,775

Budget Estimate Confidence: +50%

Project Budget by Year

Fiscal Year	Previously Approved	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Gross Budget:	10,396,775	-	-	-	-	10,396,775
Project Specific Funding:						
Reserves	-	-	-	-	-	-
Other Funding	-	-	-	-	-	-
Total Funding:	-	-	-	-	-	-
Net Budget:	10,396,775	-	-	-	-	10,396,775

Impact on Operating Budget:

Operating budget to maintain various non-standard roadway elements related to the design (TBD). A more complete understanding of the non standard elements will be achieved during the detailed design phase(2019/20) after which the numbers below can be refined.

Operating Impacts of Capital Budget / Lifecycle Cost

	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Ongoing Operating Costs (Savings)	-	-	100,000		100,000
One-time Operating Costs (Savings)	-	-	-	-	-

Detailed Work Plan for 2019/20:

	2019/20
Detailed Design	500,000
2020/21 - Approved in previous years - Construction of Spring Garden Road - \$9.5M	9,560,775
Total Estimated Work Plan	10,060,775
Less Projected Carry Forward from Previous Years	10,060,775
Gross Budget Request	-

2019/20 Capital Budget Form

Project Name: Streetscaping	Est. Start Date: Annual Program
Project Number: CT190001	Est. Completion Date: Annual Program
Budget Category: Traffic Improvements	Supports Priority Area: Economic Development
Project Type: Growth	
Discrete/Bundled: Bundled	Project Manager: Hanita Koblents
Multi-Year: Yes	Asset Steward: Manager, Road Ops & Construction

Project Summary

The Halifax Economic Strategy (Action 61) calls for the development of a Long Term Streetscaping Plan for the Regional Centre. This plan is in development. Setting aside \$3.5M/year for 5 years enabled delivery of Argyle/Grafton and Spring Garden Rd (planned) streetscaping projects. A similar strategy is proposed to deliver a future major streetscaping project every other year for ten years, as well as streetscape spot improvements annually, as opportunities arise.

Total Project Budget: n/a

Budget Estimate Confidence: +-25%

Project Budget by Year

Fiscal Year	Previously Approved	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Gross Budget:	-	-	-	-	31,000,000	31,000,000
Project Specific Funding:						
Reserves	-	-	-	-	-	-
Other Funding	-	-	-	-	-	-
Total Funding:	-	-	-	-	-	-
Net Budget:	-	-	-	-	31,000,000	31,000,000

Impact on Operating Budget:

Streetscaping projects employ a variety of non standard roadway elements which require maintenance. About 5% of the capital cost of **some** elements should be assigned to operating budgets to ensure sufficient resources in place to maintain the investment. Once the program is developed operating costs can be calculated.

Operating Impacts of Capital Budget / Lifecycle Cost

	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Ongoing Operating Costs (Savings)	-	-	-	-	-
One-time Operating Costs (Savings)	-	-	-	-	-

Detailed Work Plan for 2019/20:

	2019/20
Total Estimated Work Plan	-
Less Projected Carry Forward from Previous Years	
Gross Budget Request	-

2019/20 Capital Budget Form

Project Name:	Traffic Signal Installation	Est. Start Date:	Annual Program
Project Number:	CT180007	Est. Completion Date:	Annual Program
Budget Category:	Traffic Improvements	Supports Priority Area:	Transportation
Project Type:	Growth		
Discrete/Bundled:	Bundled	Project Manager:	Roddy MacIntyre
Multi-Year:	No	Asset Steward:	Manager, Traffic Management

Project Summary

This project involves the installation of new traffic control, such as traffic signals and crosswalk lights, as per guidelines and technical warrants established by the Transportation Association of Canada. Traffic controls are installed to appropriately assign right of way at intersections and reinforce pedestrian priority at crosswalks.

Total Project Budget: n/a

Budget Estimate Confidence: +25%

Project Budget by Year

Fiscal Year	Previously Approved	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Gross Budget:	697,385	385,000	500,000	500,000	5,835,000	7,917,385
Project Specific Funding:						
Reserves	-	-	-	-	-	-
Other Funding	-	-	-	-	-	-
Total Funding:	-	-	-	-	-	-
Net Budget:	697,385	385,000	500,000	500,000	5,835,000	7,917,385

Impact on Operating Budget:

Completion of the work outlined in this project will require an increase to operating budgets to accommodate costs associated with electricity, contract services and equipment maintenance.

Operating Impacts of Capital Budget / Lifecycle Cost

	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Ongoing Operating Costs (Savings)	8,720	8,720	8,720	8,720	34,880
One-time Operating Costs (Savings)	-	-	-	-	-

Detailed Work Plan for 2019/20:

	2019/20
Larry Uteck Roundabout RRFB Installation (District 16)	100,000
Thomas Raddall Dr @ BMO Soccer Facility RRFB Crosswalk Installation (District 12)	25,000
Highway 2 @ Coach Ave RRFB Installation (District 1)	25,000
Glendale Dr @ Rankin Dr RA-5 Crosswalk Installation (District 15)	65,000
Glendale Dr @ Smokey Dr RA-5 Crosswalk Installation (District 15)	65,000
Old Sambro Rd @ Schnare St RA-5 Crosswalk Installation (District 11)	65,000
Contingency	50,000
Total Estimated Work Plan	395,000
Less Projected Carry Forward from Previous Years	10,000
Gross Budget Request	385,000

2019/20 Capital Budget Form

Project Name:	Traffic Signal Rehabilitation	Est. Start Date:	Annual Program
Project Number:	CT180002	Est. Completion Date:	Annual Program
Budget Category:	Traffic Improvements	Supports Priority Area:	Transportation
Project Type:	Asset Renewal		
Discrete/Bundled:	Bundled	Project Manager:	Roddy MacIntyre
Multi-Year:	No	Asset Steward:	Manager, Traffic Management

Project Summary

HRM owns and operates approximately 268 traffic signals and 180 overhead crosswalk lights with flashers. This project includes ongoing rehabilitation and upgrade activities required to ensure that traffic signal systems continue to provide adequate traffic control service and are structurally sound. The objective of this program is to achieve a sustainable level of structural and operational soundness for HRM's inventory of traffic signal hardware.

Total Project Budget: n/a

Budget Estimate Confidence: +25%

Project Budget by Year

Fiscal Year	Previously Approved	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Gross Budget:	1,417,443	140,000	500,000	500,000	7,495,000	10,052,443
Project Specific Funding:						
Reserves	-	-	-	-	-	-
Other Funding	-	-	-	-	-	-
Total Funding:	-	-	-	-	-	-
Net Budget:	1,417,443	140,000	500,000	500,000	7,495,000	10,052,443

Impact on Operating Budget:

With the replacement of aging equipment, there could be some savings related to maintenance costs, however this would be offset by additional operating cost associated with electricity, contract services and equipment maintenance related to new equipment installed as part of specific upgrades. Overall, there will be no impact to operating budgets.

Operating Impacts of Capital Budget / Lifecycle Cost

	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Ongoing Operating Costs (Savings)	-	-	-	-	-
One-time Operating Costs (Savings)	-	-	-	-	-

Detailed Work Plan for 2019/20:

2019/20

Herring Cove Rd @ Cove Market - RA-5 Crosswalk Upgrade	50,000
Robie St @ Quinpool Rd - replacement of underground wiring (carry-over)	90,000
Prince Albert Rd @ Hawthorne St - full signal rehab (project pulled during 2018/2019 fiscal due to project coordination issues. Rescoping for future budgets.)	250,292
Miscellaneous Minor Traffic Signal Upgrades (Integration) - various locations, planning still underway	235,000
Miscellaneous Crosswalk Upgrades - various locations, planning still underway	235,000
Traffic Signal Wire	50,000
Contingency to address unanticipated equipment failures	150,000
Total Estimated Work Plan	1,060,292
Less Projected Carry Forward from Previous Years	920,292
Gross Budget Request	140,000

2019/20 Capital Budget Form

Project Name: Traffic Signal Re-lamping	Est. Start Date: Annual Program
Project Number: CT180003	Est. Completion Date: Annual Program
Budget Category: Traffic Improvements	Supports Priority Area: Transportation
Project Type: Asset Renewal	
Discrete/Bundled: Bundled	Project Manager: Roddy MacIntyre
Multi-Year: No	Asset Steward: Manager, Traffic Management

Project Summary

The traffic signal network uses LED lights. One of the many benefits is the reduction in electricity costs of approximately 85% compared to the use of incandescent lamps. Although it is quite unusual for an LED light to completely fail in comparison to an incandescent lamp, the light levels do decline over time. This project is for the systematic replacement of LED lights to ensure that minimum light levels are maintained.

Total Project Budget: n/a

Budget Estimate Confidence: +-25%

Project Budget by Year

Fiscal Year	Previously Approved	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Gross Budget:	1,247,075	-	-	-	2,280,000	3,527,075
Project Specific Funding:						
Reserves	-	-	-	-	-	-
Other Funding	-	-	-	-	-	-
Total Funding:	-	-	-	-	-	-
Net Budget:	1,247,075	-	-	-	2,280,000	3,527,075

Impact on Operating Budget:

This project is not anticipated to have any impact on operating budget.

Operating Impacts of Capital Budget / Lifecycle Cost

	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Ongoing Operating Costs (Savings)	-	-	-	-	-
One-time Operating Costs (Savings)	-	-	-	-	-

Detailed Work Plan for 2019/20:

	2019/20
LED replacement in remaining Halifax and Bedford (carry-over)	715,749
Total Estimated Work Plan	715,749
Less Projected Carry Forward from Previous Years	715,749
Gross Budget Request	-

2019/20 Capital Budget Form

Project Name: Traffic Signals - Bedford West	Est. Start Date: Jun-09
Project Number: CTX01127	Est. Completion Date: Mar-20
Budget Category: Traffic Improvements	Supports Priority Area: Transportation
Project Type: Growth	
Discrete/Bundled: Bundled	Project Manager: Paul Burgess
Multi-Year: Yes	Asset Steward: Manager, Road Ops & Construction

Project Summary

The scope of work for 2019/20 includes the installation of traffic signals at the intersection of Larry Uteck Boulevard and Kearney Lake Road

Total Project Budget: n/a

Budget Estimate Confidence: +25%

Project Budget by Year

Fiscal Year	Previously Approved	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Gross Budget:	250,000	-	-	-	-	250,000
Project Specific Funding:						
Reserves	-	-	-	-	-	-
Other Funding	-	-	-	-	-	-
Total Funding:	-	-	-	-	-	-
Net Budget:	250,000	-	-	-	-	250,000

Impact on Operating Budget:

Increase to annual signal maintenance.

Operating Impacts of Capital Budget / Lifecycle Cost

	2019/20	2020/21	2021/22	2022/23 - 2028/29	Total
Ongoing Operating Costs (Savings)	-	3,000	3,000	3,000	9,000
One-time Operating Costs (Savings)	-	-	-	-	-

Detailed Work Plan for 2019/20:

	2019/20
Traffic Signals to be tendered early 2019	166,101
Total Estimated Work Plan	166,101
Less Projected Carry Forward from Previous Years	166,101
Gross Budget Request	-