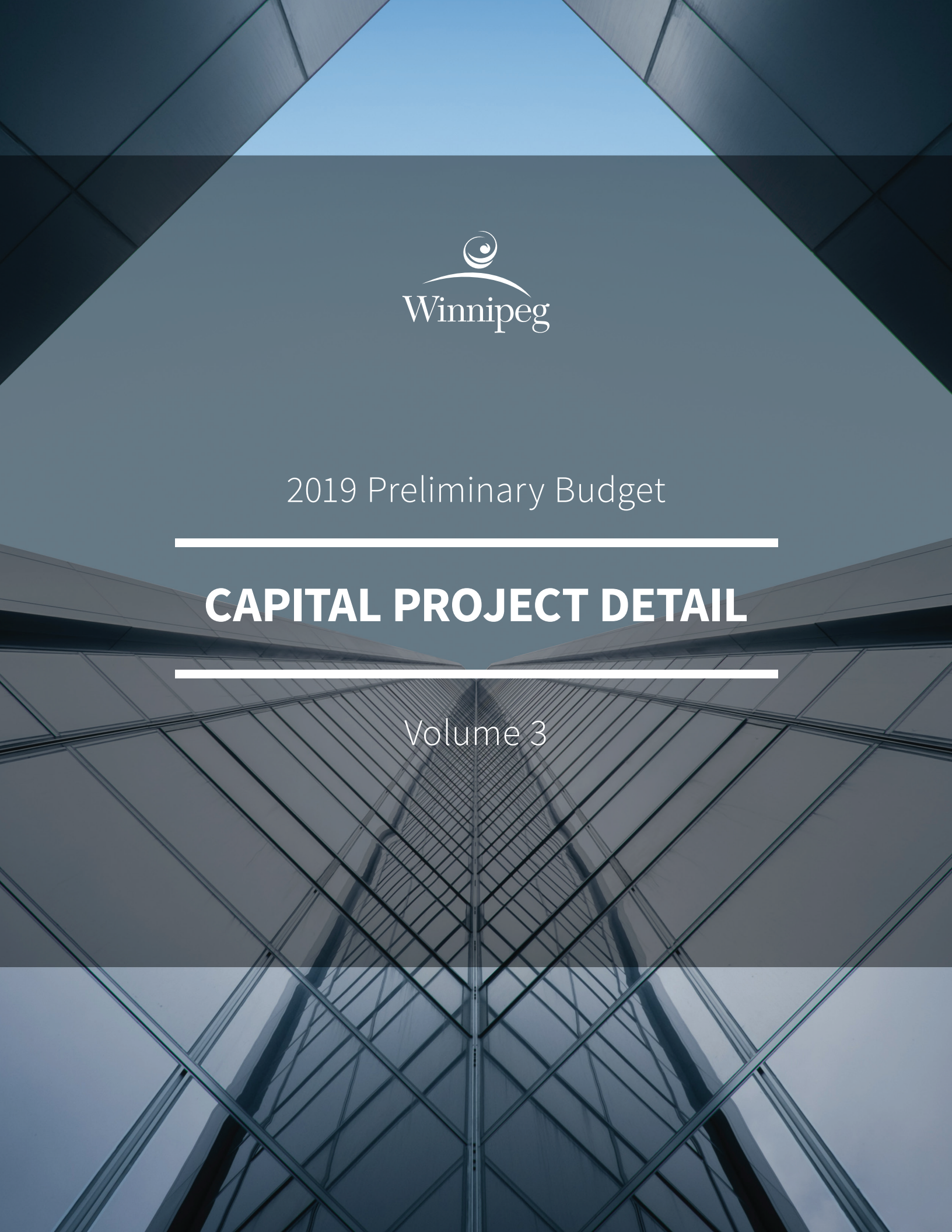

Winnipeg

2019 Preliminary Budget

CAPITAL PROJECT DETAIL

Volume 3



City of Winnipeg

2019
Preliminary Budget
Capital Project Detail
Volume 3

WINNIPEG, MANITOBA, CANADA

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Reader's Guide

This **Reader's Guide** is intended to provide the reader with a basic understanding of the Capital Projects Detail Volume 3, developed from the capital budgeting process, as well as briefly describe the document's content and layout.

The **2019 Preliminary Capital Budget and the 2020 to 2024 Five-Year Forecast** provides summary and detailed information on capital projects and financing for the capital program, set out in the following sections:

- The **Capital Projects Summary** provides a listing of capital projects for 2019 through to 2024, highlighting related financing sources.
- The **Capital Projects Detail** section gives additional information about each project in the budget, including project descriptions, current year's budget and five-year forecast, cash flow projections, net impact on the operating budget, and previous budget authorizations, if applicable. The capital estimate and service area are identified, as well as the link to OurWinnipeg to ensure all capital projects align with city objectives.
- The **Appendices** provide additional context information in support of the rest of the budget document.

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Capital Projects Summary

2019 Preliminary Capital Budget
And 2020 to 2024 Five-Year Forecast

Notes:

1. In the attached Capital Projects Summary, tax supported capital projects are financed by cash to capital unless other funding is disclosed for the project.

2. Over the past several years, the City has prepared Volume 1 – "Community Trends and Performance Report". Included in Appendix 1 of the report is a Financial Trends section setting out details concerning the City's structural deficit which has been described as financially unsustainable. The City has been contributing cash from its operating budget to the capital budget for many years which at times has averaged over $60 million. This cash has been used to pay for capital projects which otherwise would require debt financing or further support from federal and provincial partners. However, the City reduced its contribution to the capital budget by $23.2 million ($78.8 million to $55.6 million) commencing in 2017, $57 million ($80.3 million to $23.3 million) in 2018 and $44.9 million ($65.9 million to $21.0 million) in 2019. In 2020 onwards, cash to capital planned contributions in the capital budget (Volume 3) remain at values over $60 million even though the City's contribution levels have fallen to $21.0 million. In turn Appendix 1 of the operating budget (Volume 2) reflects higher value cash to capital contributions leading to growing structural deficits of $105.4 million in 2020 and $131.9 million in 2021. If the City is unable to contribute cash to capital in excess of $60 million in 2020 onwards, it will need to consider increased debt to maintain the capital program at its planned levels, significantly reduce the capital program, reduce expenses or increase revenues.

   On June 21, 2018, Council approved a report directing the Public Service to initiate a process to implement a multi-year budget approach effective for the 2020 budget year, with a particular focus on addressing the structural deficit in tax-supported City operations. Significant financial decisions will need to be considered to balance future operating budgets with a view to maintaining levels of service both in tax-supported operations and capital.

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SUMMARY OF CAPITAL PROGRAM									
Public Works		**164,726**	**118,384**	**150,609**	**177,219**	**191,016**	**178,253**	**174,703**	**990,184**
Community Services		**20,420**	**30,640**	**12,135**	**29,231**	**15,692**	**13,549**	**11,518**	**112,765**
Winnipeg Police Service		**3,277**	**4,558**	**2,966**	**5,540**	**6,616**	**2,789**	**3,075**	**25,544**
Fire Paramedic Service		**4,093**	**16,085**	**15,948**	**3,891**	**6,355**	**2,531**	**2,724**	**47,534**
Planning, Property and Development		**1,725**	**2,735**	**3,068**	**2,994**	**2,323**	**1,142**	**2,251**	**14,513**
City Clerks		**700**			**200**	**1,400**	**150**		**1,750**
Innovation, Transformation and Technology [1]		**9,317**	**11,353**	**11,524**	**9,567**	**9,094**	**7,723**	**7,450**	**56,711**
Customer Service and Communications [1]		**250**		**350**	**150**	**100**	**450**	**450**	**1,500**
Assessment and Taxation		**2,408**	**2,350**	**1,800**	**2,350**	**2,750**	**2,400**	**2,650**	**14,300**
Total Tax Supported		**206,916**	**186,105**	**198,400**	**231,142**	**235,346**	**208,987**	**204,821**	**1,264,801**
Municipal Accommodations		**7,463**	**18,196**	**6,375**	**7,993**	**4,881**	**5,729**	**8,097**	**51,271**
Transit		**31,863**	**39,771**	**34,293**	**38,271**	**37,952**	**40,397**	**41,943**	**232,627**
Total Tax Supported, Transit and Municipal Accommodations		**246,242**	**244,072**	**239,068**	**277,406**	**278,179**	**255,113**	**254,861**	**1,548,699**
Self-Supporting Utilities									
Waterworks System		**28,483**	**25,000**	**36,930**	**35,320**	**32,430**	**28,045**	**29,035**	**186,760**
Sewage Disposal System		**68,360**	**64,189**	**66,615**	**57,585**	**61,795**	**67,555**	**93,470**	**411,209**
Solid Waste Disposal System		**4,510**	**3,625**	**3,870**	**1,485**	**3,550**	**1,950**	**700**	**15,180**
Land Drainage and Flood Control		**9,790**	**7,195**	**5,710**	**3,600**	**5,770**	**5,600**	**7,200**	**35,075**
Total Self-Supporting Utilities		**111,143**	**100,009**	**113,125**	**97,990**	**103,545**	**103,150**	**130,405**	**648,224**
Special Operating Agencies									
Winnipeg Fleet Management Agency [2]		**22,681**	**23,313**	**16,439**	**16,789**	**16,789**	**16,789**	**16,789**	**106,908**
Winnipeg Golf Services				**1,000**					**1,000**
Winnipeg Parking Authority [2]			**121**	**178**	**126**	**172**	**137**	**238**	**972**
Total Special Operating Agencies		**22,681**	**23,434**	**17,617**	**16,915**	**16,961**	**16,926**	**17,027**	**108,880**
TOTAL CAPITAL PROGRAM		**380,066**	**367,515**	**369,810**	**392,311**	**398,685**	**375,189**	**402,293**	**2,305,803**

Notes:

1. In 2018, Innovation, Transformation and Technology, and Customer Service and Communications were reported in Corporate Support Services (CSS). CSS was reorganized into individual departments so the 2018 figures have been restated accordingly.

2. The 2018 Adopted Capital Budget has been restated to include Winnipeg Fleet Management Agency and Winnipeg Parking Authority.

2018 Adopted Budget	357,385
Winnipeg Fleet Management Agency	22,681
Winnipeg Parking Authority	
2018 Restated Budget	**380,066**

CAPITAL PROJECTS SUMMARY *(in Thousands of $)*	PAGE NO.	RESTATED BUDGET 2018	PRELIMINARY BUDGET BUDGET 2019	FORECAST 2020	2021	2022	2023	2024	6 YEAR TOTAL 2019-2024
SUMMARY OF FINANCING SOURCES									
Cash to Capital		23,344	21,010	65,141	66,565	71,178	65,136	71,178	360,208
Frontage Levy		10,000	10,000	10,000	10,000	10,000	10,000	10,000	60,000
Public Private Partnership Annual Service / Financing Payments		(28,320)	(26,357)	(37,415)	(37,774)	(37,915)	(38,218)	(38,652)	(216,331)
Reserves:									
- Transit Bus Replacement		1,437		5,681	11,773	12,640	14,000	14,504	58,598
- Southwest Rapid Transitway (Stage 2) and Pembina Highway Underpass Payment		350	1,780	14,460	14,720	14,760	14,880	15,190	75,790
- Water Main Renewal		16,500	16,500	18,000	19,000	19,500	20,000	20,000	113,000
- Sewer System Rehabilitation		18,200	17,500	18,500	19,500	20,000	20,500	21,000	117,000
- Environmental Projects		26,098	31,100	32,610	24,110	29,120	27,120	25,130	169,190
- Landfill Rehabilitation Reserve		210	875	420	285	2,800	200	200	4,780
- Waste Diversion		700		250			450		700
- Financial Stabilization			1,035	1,035	1,035	1,035	1,035		5,175
- Land Operating		5,000	7,370	4,065	2,665	965	965	2,665	18,695
- Computer, Critical Systems and Support Reserve		126							
- Insurance Reserve (Proceeds)		250							
- Local Street Renewal		28,298	13,898	26,236	45,698	51,898	62,898	74,298	274,926
- Regional Street Renewal		23,938	29,538	28,800	41,338	47,538	49,538	51,538	248,290
- Economic Development Investment		2,444	3,741						3,741
Interim Financing (Repayment)		1,005	(4,095)	(4,350)	(3,272)	(423)			(12,140)
Contributions from Other Levels of Government:									
- Federal Gas Tax / Surplus		39,126	58,682	44,396	46,414	46,414	48,432	48,432	292,770
- Transfer from Prior Year Authorization - Federal Gas Tax			1,132						1,132
- Federal New Building Canada Fund			12,000	25,000	26,000	24,000	13,000		100,000
- Veterans Affairs Canada		150	700	800	700	150			2,350
- Public Transit Infrastructure Fund (Federal Government)		11,925	3,402						3,402
- Public Transit Infrastructure Fund (Provincial Government)		5,648	438						438
- Province of Manitoba					3,900				3,900
- Province of Manitoba Roads		50,000							
- Province of Manitoba Accelerated Regional Roads			17,000	15,000	29,100	29,100	9,800		100,000
- Shared Health Capital Grant			1,877	1,569	779	22			4,247
- Transfer from Other Capital Accounts / Surplus Capital: Manitoba Winnipeg Infrastructure Agreement		100							
Other Funders:									
- Developer Funding / Developer Capacity Charges		3,100		2,586	500	700	1,000	1,700	6,486
- St. James 55+ Centre (Winnipeg Foundation)		(250)							
- Sponsorship / Sponsor Winnipeg		95	95	95					190
- External Funding (Sewer)		250							

CAPITAL PROJECTS SUMMARY *(in Thousands of $)*	PAGE NO.	RESTATED BUDGET 2018	PRELIMINARY BUDGET						6 YEAR TOTAL
			BUDGET 2019	FORECAST					
				2020	2021	2022	2023	2024	2019-2024
Retained Earnings - Transit			6,992		139				7,131
Retained Earnings - Self-supporting Utilities		33,928	25,339	35,135	31,495	26,355	29,280	56,875	204,479
Accumulated Surplus (Retained Earnings) - Special Operating Agencies		1,457	1,098	1,439	1,245	1,291	1,256	1,357	7,686
Transfer from Sewage Disposal System Fund		6,690	6,324	5,710	3,100	5,070	4,600	5,500	30,304
External Debt		48,249	38,187	37,469	17,626	6,817	3,647	5,708	109,454
Debt - Fleet Borrowing		21,224	22,336	15,178	15,670	15,670	15,670	15,670	100,194
Internal Financing		22,143	34,900						34,900
Transfers from Other Capital Accounts / Surplus Capital		6,651	13,118	2,000					15,118
TOTAL FINANCING SOURCES		380,066	367,515	369,810	392,311	398,685	375,189	402,293	2,305,803

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CAPITAL PROJECTS SUMMARY *(in Thousands of $)*	PAGE NO.	RESTATED BUDGET 2018	PRELIMINARY BUDGET BUDGET 2019	FORECAST 2020	2021	2022	2023	2024	6 YEAR TOTAL 2019-2024
FINANCING SOURCES									
Tax Supported, Transit and Municipal Accommodations									
Cash to Capital		23,344	21,010	64,141	66,565	71,178	65,136	71,178	359,208
Frontage Levy		10,000	10,000	10,000	10,000	10,000	10,000	10,000	60,000
Public Private Partnership Annual Service / Financing Payments		(28,320)	(26,357)	(37,415)	(37,774)	(37,915)	(38,218)	(38,652)	(216,331)
Reserves:									
- Transit Bus Replacement		1,437		5,681	11,773	12,640	14,000	14,504	58,598
- Southwest Rapid Transitway (Stage 2) and Pembina Highway Underpass Payment		350	1,780	14,460	14,720	14,760	14,880	15,190	75,790
- Economic Development Investment		2,444	3,741						3,741
- Financial Stabilization			1,035	1,035	1,035	1,035	1,035		5,175
- Land Operating		5,000	7,370	4,065	2,665	965	965	2,665	18,695
- Computer, Critical Systems and Support Reserve		126							
- Insurance Reserve (Proceeds)		250							
- Local Street Renewal		28,298	13,898	26,236	45,698	51,898	62,898	74,298	274,926
- Regional Street Renewal		23,938	29,538	28,800	41,338	47,538	49,538	51,538	248,290
Interim Financing (Repayment)		1,005	(4,095)	(4,350)	(3,272)	(423)			(12,140)
Contributions from Other Levels of Government:									
- Federal Gas Tax		39,126	58,682	44,396	46,414	46,414	48,432	48,432	292,770
- Transfer from Prior Year Authorization - Federal Gas Tax			1,132						1,132
- Federal New Building Canada Fund			12,000	25,000	26,000	24,000	13,000		100,000
- Veterans Affairs Canada		150	700	800	700	150			2,350
- Public Transit Infrastructure Fund (Federal Funding)		11,925	3,402						3,402
- Public Transit Infrastructure Fund (Provincial Funding)		5,648	438						438
- Province of Manitoba					3,900				3,900
- Province of Manitoba Roads		50,000							
- Province of Manitoba Accelerated Regional Roads			17,000	15,000	29,100	29,100	9,800		100,000
- Shared Health Capital Grant			1,877	1,569	779	22			4,247
- Transfer from Other Capital Accounts / Surplus Capital: Manitoba Winnipeg Infrastructure Agreement		100							
Other Funders:									
- Developer Funding / Developer Capacity Charges				2,586					2,586
- St. James 55+ Centre (Winnipeg Foundation)		(250)							
- Sponsorship / Sponsor Winnipeg		95	95	95					190
External Debt		45,449	38,187	34,969	17,626	6,817	3,647	5,708	106,954
Internal Financing		22,143	34,900						34,900
Retained Earnings - Transit			6,992		139				7,131
Transfers from Other Capital Accounts / Surplus Capital		3,984	10,747	2,000					12,747
Total Tax Supported, Transit and Municipal Accommodations		246,242	244,072	239,068	277,406	278,179	255,113	254,861	1,548,699

CAPITAL PROJECTS SUMMARY *(in Thousands of $)*	PAGE NO.	RESTATED BUDGET 2018	PRELIMINARY BUDGET BUDGET 2019	FORECAST 2020	2021	2022	2023	2024	6 YEAR TOTAL 2019-2024
Self-Supporting Utilities									
Reserves:									
- Sewer System Rehabilitation		18,200	17,500	18,500	19,500	20,000	20,500	21,000	117,000
- Water Main Renewal		16,500	16,500	18,000	19,000	19,500	20,000	20,000	113,000
- Environmental Projects		26,098	31,100	32,610	24,110	29,120	27,120	25,130	169,190
- Landfill Rehabilitation Reserve		210	875	420	285	2,800	200	200	4,780
- Waste Diversion		700		250			450		700
Retained Earnings - Self-supporting Utilities		33,928	25,339	35,135	31,495	26,355	29,280	56,875	204,479
Transfer from Sewage Disposal System Fund		6,690	6,324	5,710	3,100	5,070	4,600	5,500	30,304
Developer Funding / Developer Capacity Charges		3,100			500	700	1,000	1,700	3,900
External Funding (Sewer)		250							
External Debt		2,800		2,500					2,500
Transfers from Other Capital Accounts		2,667	2,371						2,371
Total Self-Supporting Utilities		111,143	100,009	113,125	97,990	103,545	103,150	130,405	648,224
Special Operating Agencies									
Cash to Capital				1,000					1,000
Accumulated Surplus (Retained Earnings)		1,457	1,098	1,439	1,245	1,291	1,256	1,357	7,686
Debt - Fleet Borrowing		21,224	22,336	15,178	15,670	15,670	15,670	15,670	100,194
Total Special Operating Agencies		22,681	23,434	17,617	16,915	16,961	16,926	17,027	108,880
TOTAL FINANCING SOURCES		380,066	367,515	369,810	392,311	398,685	375,189	402,293	2,305,803

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CAPITAL PROJECTS SUMMARY *(in Thousands of $)*	PAGE NO.	RESTATED BUDGET 2018	PRELIMINARY BUDGET BUDGET 2019	FORECAST 2020	2021	2022	2023	2024	6 YEAR TOTAL 2019-2024
CAPITAL PROJECTS LISTING									
PUBLIC WORKS									
Active Transportation Facilities									
Pedestrian and Cycling Program									
- Cash to Capital				1,684	1,805	2,431	946		6,866
- Province of Manitoba Roads		2,700							
- Interim Financing from General Capital fund / (Repayment) - Council authorized $3.850 million in 2017 for Chief Peguis Trail - Kildonan Settlers Bridge Pedestrian and Cycling Improvements (Council September 27, 2017)				(155)	(3,272)	(423)			(3,850)
- Federal Gas Tax / Surplus			1,743	286	1,617	992	1,754	2,700	9,092
- External Debt		2,700							
- Internal Financing			957						957
- Transfer from Prior Year Authorization			324						324
Total Pedestrian and Cycling Program	2-1	5,400	3,024	1,815	150	3,000	2,700	2,700	13,389
Tache Promenade									
- Cash to Capital				3,000					3,000
- Interim Financing from General Capital Fund / (Repayment)				(3,000)					(3,000)
Total Tache Promenade	2-5								
Total Active Transportation Facilities		5,400	3,024	1,815	150	3,000	2,700	2,700	13,389
Street Improvements									
Developer Payback - Various Locations									
- Cash to Capital				8,966					8,966
- Federal Gas Tax		3,321		7,147					7,147
- External Debt		6,816							
Total Developer Payback - Various Locations	2-6	10,137		16,113					16,113
Tuxedo Yards Development - First charge against the 2019 Capital Budget of up to $1.25 million (Council March 22, 2018)									
- Economic Development Investment Reserve	2-7	2,444	3,741						3,741
Transportation Master Plan	2-8		250	875	125	250	250	250	2,000
Traffic Signals Improvements									
- Frontage Levy				688	342				1,030
- Province of Manitoba Roads		215							
- Internal Financing			1,030						1,030
Total Traffic Signals Improvements	2-9	215	1,030	688	342				2,060

CAPITAL PROJECTS SUMMARY *(in Thousands of $)*	PAGE NO.	RESTATED BUDGET 2018	PRELIMINARY BUDGET					6 YEAR TOTAL
			BUDGET 2019	FORECAST				
				2020	2021	2022	2023	2024	2019-2024
Traffic Signals Loops									
- Cash to Capital		50	250			250	250	250	1,000
- Frontage Levy				125	250				375
- Province of Manitoba Roads		50							
Total Traffic Signals Loops	2-10	100	250	125	250	250	250	250	1,375
Permanent Traffic Monitoring Stations									
- Cash to Capital			445						445
- Internal Financing		385	500						500
- Frontage Levy				623					623
- Province of Manitoba Roads		385							
Total Permanent Traffic Monitoring Stations	2-11	770	945	623					1,568
Traffic Engineering Improvements - Various Locations									
- Cash to Capital						1,300	1,900	1,900	5,100
- Frontage Levy				950	1,900				2,850
- Internal Financing		250	1,575						1,575
- Province of Manitoba Roads		850							
Total Traffic Engineering Improvements - Various Locations	2-12	1,100	1,575	950	1,900	1,300	1,900	1,900	9,525
Parking and Street Enhancements Program in Exchange District									
- Transfer from Winnipeg Parking Authority SOA (Proceeds from Sale of Winnipeg Square Parkade held in Land Operating Reserve)		1,500							
Inner-Ring Road - Functional Design	2-13							1,000	1,000
Marion Street Improvements - Functional Design Study									
- Transfer from Prior Year Authorization	2-14		917						917
Total Street Improvements		16,266	8,708	19,374	2,617	1,800	2,400	3,400	38,299

CAPITAL PROJECTS SUMMARY *(in Thousands of $)*	PAGE NO.	RESTATED BUDGET 2018	PRELIMINARY BUDGET						6 YEAR TOTAL
			BUDGET 2019	FORECAST					
				2020	2021	2022	2023	2024	2019-2024
Regional and Local Street Renewal - First charge against the 2019 Capital Budget of up to: $2.5 million for Empress St - St. Matthews to Portage (Council December 12, 2017); $7.6 million for Fermor Ave - St. Anne's to Archibald (Council December 12, 2017); $4.8 million for Garry/Notre Dame - Notre Dame to Assiniboine/Portage to Princess (Council December 12, 2017); $8.86 million for Industrial/Commercial Streets projects (Council March 22, 2018)									
- Cash to Capital		**12,764**							
- Federal New Building Canada Fund (Regional)			**12,000**	**25,000**	**26,000**	**24,000**	**13,000**		**100,000**
- Federal Gas Tax (Local)		**11,000**	**12,000**	**12,000**	**12,000**	**12,000**	**12,000**	**12,000**	**72,000**
- Province of Manitoba Roads		**40,000**							
- Province of Manitoba Accelerated Regional Roads			**17,000**	**15,000**	**29,100**	**29,100**	**9,800**		**100,000**
- Local Street Renewal Reserve		**28,298**	**33,898**	**39,698**	**45,698**	**51,898**	**62,898**	**74,298**	**308,388**
- Regional Street Renewal Reserve		**23,938**	**29,538**	**35,338**	**41,338**	**47,538**	**49,538**	**51,538**	**254,828**
- Reduction from the Regional and Local Street Renewal Reserves due to Province of Manitoba 2018 Roads Funding Shortfall			**(20,000)**	**(20,000)**					**(40,000)**
- Interim Financing from General Capital Fund / (Repayment) - Council authorized $4 million in 2017 for Protected Bike Lanes: Chevrier Boulevard & Waverley Pathway Connection (Council September			**(4,000)**						**(4,000)**
- Transfer from Prior Year Authorization			**6,000**	**2,000**					**8,000**
- Developer Funding				**2,586**					**2,586**
Total Regional and Local Street Renewal	2-15	**116,000**	**86,436**	**111,622**	**154,136**	**164,536**	**147,236**	**137,836**	**801,802**
Waterway Crossings and Grade Separations									
Fermor Avenue Bridge (Seine River) - First charge against the 2019 Capital Budget of up to $5.1 million (Council December 12, 2017)									
- Cash to Capital			**250**						**250**
- Province of Manitoba Roads		**2,025**							
- Frontage Levy		**2,075**	**4,350**						**4,350**
Total Fermor Avenue Bridge (Seine River)	2-22	**4,100**	**4,600**						**4,600**
Saskatchewan Avenue Culvert (Sturgeon Creek)									
- Province of Manitoba Roads		**1,925**							
- Frontage Levy		**6,075**							
Total Saskatchewan Avenue Culvert (Sturgeon Creek)		**8,000**							
Osborne Street Underpass									
- Frontage Levy	2-23							**1,100**	**1,100**
Dublin Avenue Bridge (Omand's Creek)									
- Province of Manitoba Roads		**350**							
- Frontage Levy		**350**	**700**	**3,300**					**4,000**
Total Dublin Avenue Bridge (Omand's Creek)	2-24	**700**	**700**	**3,300**					**4,000**

CAPITAL PROJECTS SUMMARY *(in Thousands of $)*	PAGE NO.	RESTATED BUDGET 2018	PRELIMINARY BUDGET BUDGET 2019	FORECAST 2020	2021	2022	2023	2024	6 YEAR TOTAL 2019-2024
Sherwin Road Bridge (Omand's Creek)									
- Frontage Levy	2-25		700	1,400	1,400				3,500
Pembina Highway Overpass (Bishop Grandin) Rehabilitation									
- Cash to Capital						2,000	2,700		4,700
- Frontage Levy				950	2,000	6,000	5,000		13,950
Total Pembina Highway Overpass (Bishop Grandin) Rehabilitation	2-26			950	2,000	8,000	7,700		18,650
Kenaston/Route 90 Widening and St. James Bridges (formerly St. James Bridge South Bound)									
- Frontage Levy	2-27		2,163						2,163
St. Vital Bridge Rehabilitation									
- Cash to Capital								9,900	9,900
- Frontage Levy						2,000	3,000	6,900	11,900
Total St. Vital Bridge Rehabilitation	2-28					2,000	3,000	16,800	21,800
Lagimodiere Twin Overpasses Rehabilitation (Concordia Avenue & CPR Keewatin)	2-29						1,000	2,000	3,000
Waterway Crossing and Grade Separations - Annual Program									
- Cash to Capital						1,000	1,000	1,000	3,000
- Province of Manitoba Roads		1,500							
- Frontage Levy		1,500	2,087	1,964	4,108	2,000	2,000	2,000	14,159
- Internal Financing			913						913
Total Waterway Crossing and Grade Separations - Annual Program	2-30	3,000	3,000	1,964	4,108	3,000	3,000	3,000	18,072
Disraeli Bridge and Overpass Facility									
- Cash to Capital		865	662	650	550	600	600	600	3,662
- Federal Gas Tax		17,385	14,118	12,463	12,617	12,622	12,725	12,735	77,280
- Public Private Partnership Annual Service / Financing Payments		(11,959)	(11,873)	(11,927)	(11,981)	(12,036)	(12,139)	(12,149)	(72,105)
- Debt servicing - repayment of debt		(6,291)	(2,907)	(1,186)	(1,186)	(1,186)	(1,186)	(1,186)	(8,837)
Total Disraeli Bridge and Overpass Facility	2-31								
Charleswood Bridge									
- Cash to Capital		1,478	1,478	1,478	1,478	1,478	1,478	1,478	8,868
- Public Private Partnership Lease Payments		(1,478)	(1,478)	(1,478)	(1,478)	(1,478)	(1,478)	(1,478)	(8,868)
Total Charleswood Bridge	2-33								
Total Waterway Crossings and Grade Separations		15,800	11,163	7,614	7,508	13,000	14,700	22,900	76,885
New Transportation Facilities									
Chief Peguis Trail - Henderson Highway to Lagimodiere Boulevard									
- Cash to Capital		950	1,193	1,250	1,395	1,475	1,475	1,475	8,263
- Federal Gas Tax		6,280	6,070	6,058	5,958	5,924	5,971	6,019	36,000
- Public Private Partnership Annual Service / Financing Payments		(6,251)	(6,284)	(6,329)	(6,374)	(6,420)	(6,467)	(6,515)	(38,389)
- Debt servicing - repayment of debt		(979)	(979)	(979)	(979)	(979)	(979)	(979)	(5,874)
Total Chief Peguis Trail - Henderson Highway to Lagimodiere Boulevard	2-34								
Total New Transportation Facilities									

CAPITAL PROJECTS SUMMARY *(in Thousands of $)*	PAGE NO.	RESTATED BUDGET 2018	PRELIMINARY BUDGET BUDGET 2019	FORECAST 2020	2021	2022	2023	2024	6 YEAR TOTAL 2019-2024
Other Streets Projects									
Work Management / Asset Management Systems Study	2-36		**300**						**300**
Asset Management System - Various Divisions									
- Cash to Capital			**100**	**100**	**100**	**100**	**100**	**100**	**600**
- Internal Financing		**100**							
Total Asset Management System - Various Divisions	2-37	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**600**
Land Acquisition - Transportation Right of Way	2-38			**950**	**680**	**300**	**300**	**300**	**2,530**
Total Other Streets Projects		**100**	**400**	**1,050**	**780**	**400**	**400**	**400**	**3,430**
TOTAL STREETS PROJECTS		**153,566**	**109,731**	**141,475**	**165,191**	**182,736**	**167,436**	**167,236**	**933,805**
Parks and Open Space									
Reforestation - Improvements									
- Cash to Capital			**383**	**383**	**383**	**192**	**192**	**192**	**1,725**
- External Debt		**766**							
Total Reforestation - Improvements	2-39	**766**	**383**	**383**	**383**	**192**	**192**	**192**	**1,725**
Athletic Fields - Improvements									
- Cash to Capital				**192**	**350**	**175**	**175**	**175**	**1,067**
- Federal Gas Tax / Surplus			**350**						**350**
Total Athletic Fields - Improvements	2-40		**350**	**192**	**350**	**175**	**175**	**175**	**1,417**
Community and Neighbourhood Parks - Existing - First charge against the 2019 Capital Budget of up to $170,000 for the St. Vital Memorial Park Soccer Pitch Lighting project (Council March 22, 2018)									
- Cash to Capital			**170**						**170**
- Internal Financing		**150**							
Total Community and Neighbourhood Parks - Existing	2-41	**150**	**170**						**170**
Regional Parks									
- Cash to Capital					**1,175**		**2,825**		**4,000**
- Insurance Reserve (Proceeds)		**250**							
Total Regional Parks	2-42	**250**			**1,175**		**2,825**		**4,000**
Parks Buildings									
- Cash to Capital				**1,000**	**3,020**	**123**			**4,143**
- Federal Gas Tax			**350**				**525**		**875**
Total Parks Buildings	2-43		**350**	**1,000**	**3,020**	**123**	**525**		**5,018**
Boat Docks and Launches									
- Cash to Capital				**100**					**100**
- Federal Gas Tax						**690**			**690**
Total Boat Docks and Launches	2-44			**100**		**690**			**790**

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CAPITAL PROJECTS SUMMARY *(in Thousands of $)*	PAGE NO.	RESTATED BUDGET 2018	PRELIMINARY BUDGET						6 YEAR TOTAL
			BUDGET 2019	FORECAST					
				2020	2021	2022	2023	2024	2019-2024
Parks and Recreation Enhancement Program - First charge against the 2019 Capital Budget of up to $70,000 for the St. John's Park Lighting Project (Council July 19, 2018)									
- Cash to Capital				3,300	3,300	3,300	3,300	3,300	16,500
- External Debt		2,775							
- Internal Financing		885	3,300						3,300
Total Parks and Recreation Enhancement Program	2-45	3,660	3,300	3,300	3,300	3,300	3,300	3,300	19,800
Urban Forest Enhancement Program									
- Cash to Capital				2,759	1,300	3,800	3,800	3,216	14,875
- External Debt		1,734	4,100	2,500	2,500			584	9,684
- Transfer from Winnipeg Parking Authority SOA (Proceeds from Sale of Winnipeg Square Parkade held in Land Operating Reserve)		3,500							
- Interim Financing from General Capital Fund / (Repayment)		1,100		(1,100)					(1,100)
Total Urban Forest Enhancement Program	2-47	6,334	4,100	4,159	3,800	3,800	3,800	3,800	23,459
Total Parks and Open Space		11,160	8,653	9,134	12,028	8,280	10,817	7,467	56,379
TOTAL PUBLIC WORKS		164,726	118,384	150,609	177,219	191,016	178,253	174,703	990,184
COMMUNITY SERVICES									
Library Facility Safety, Security and Accessibility Improvements Program									
- Cash to Capital			162	165	219	171		200	917
- Internal Financing		100							
Total Library Facility Safety, Security and Accessibility Improvements Program	2-48	100	162	165	219	171		200	917
Library Refurbishment & Interior Infrastructure Program (formerly two separate programs; Library Interior Infrastructure Replacement Program & Library Refurbishment and Redevelopment Program - Existing									
- Cash to Capital			18		418		176	176	788
- Federal Gas Tax					146			299	445
- External Debt			465						465
Total Library Refurbishment & Interior Infrastructure Program	2-49		483		564		176	475	1,698
Library Technology Upgrade and Replacement Program	2-50		350	265	356	277	154	300	1,702
Library Facility Redevelopment - Bill and Helen Norrie Library (formerly Library Facility Redevelopment - River Heights Library) - First charge against the 2019 Capital Budget of up to $3.57 million (Council December									
- External Debt	2-51		3,570						3,570
Library Facility Redevelopment - St. James Library									
- External Debt	2-52		100		3,404				3,504

CAPITAL PROJECTS SUMMARY *(in Thousands of $)*	PAGE NO.	RESTATED BUDGET 2018	PRELIMINARY BUDGET						6 YEAR TOTAL
			BUDGET 2019	FORECAST					
				2020	2021	2022	2023	2024	2019-2024
Library Facility Redevelopment - West Kildonan Library and GoLibrary - Old Kildonan Community (formerly Library Facility Redevelopment - West Kildonan Library)									
- Cash to Capital						888			888
- External Debt			242		937	1,886			3,065
Total Library Facility Redevelopment - West Kildonan Library and GoLibrary - Old Kildonan Community	2-54		242		937	2,774			3,953
Library Facility Redevelopment - Westwood Library									
- Federal Gas Tax						794	3,088		3,882
- External Debt					146				146
Total Library Facility Redevelopment - Westwood Library	2-55				146	794	3,088		4,028
Recreational Facility Safety, Security and Accessibility Improvements Program									
- Cash to Capital			13	172	230	186		171	772
- Federal Gas Tax / Surplus			162				158	108	428
- Internal Financing		100							
Total Recreational Facility Safety, Security and Accessibility Improvements Program	2-56	100	175	172	230	186	158	279	1,200
Fitness Equipment Upgrade Program	2-57		248	280	285	292	297	303	1,705
Recreation and Leisure Infrastructure Renewal (formerly Recreation Refurbishment and Redevelopment Program - Existing Infrastructure)									
- Cash to Capital			100		2,131				2,231
- Federal Gas Tax								4,700	4,700
Total Recreation and Leisure Infrastructure Renewal	2-58		100		2,131			4,700	6,931
New Community Facility - Southeast Winnipeg	2-59			100					100
New Recreation Facility - South Winnipeg - First charge against the 2019 Capital Budget of up to $1.75 million (Council December 12, 2017)									
- Cash to Capital				251					251
- Federal Gas Tax / Surplus			1,750		700	5,323	3,763		11,536
Total New Recreation Facility - South Winnipeg	2-60		1,750	251	700	5,323	3,763		11,787
Grant Park Recreation Campus - First charge against the 2019 Capital Budget of up to $200,000 for the Grant Park Recreation Campus (Council July 19, 2018)									
- Cash to Capital			772						772
- Internal Financing			978						978
Total Grant Park Recreation Campus	2-62		1,750						1,750

CAPITAL PROJECTS SUMMARY *(in Thousands of $)*	PAGE NO.	RESTATED BUDGET 2018	PRELIMINARY BUDGET BUDGET 2019	FORECAST 2020	2021	2022	2023	2024	6 YEAR TOTAL 2019-2024
St. James Civic Centre - Facility Renewal and Expansion - First charge against the 2019 Capital Budget of up to $2.405 million (Council December 12, 2017)									
- External Debt		2,400	2,405	3,700	3,900				10,005
- Province of Manitoba					3,900				3,900
- St. James 55+ Centre		(250)							
- Transfer from Corporate Non-Specified Capital Account		250							
Total St. James Civic Centre - Facility Renewal and Expansion	2-63	2,400	2,405	3,700	7,800				13,905
Seven Oaks Pool - Concrete Restoration and Air Handling Unit Replacement - First charge against the 2019 Capital Budget of up to $2.239 million (Council December 12, 2017)									
- External Debt			990						990
- Transfer from Departmental Non-Specified Capital Account			163						163
- Federal Gas Tax			1,086						1,086
Total Seven Oaks Pool - Concrete Restoration and Air Handling Unit Replacement	2-64		2,239						2,239
Pan Am Pool - Ceiling, Lighting and Public Address and Audio System - First charge against the 2019 Capital Budget of up to $2.6 million (Council December 12, 2017)									
- Federal Gas Tax	2-65		2,600						2,600
Repair and Renovation of Pan Am Pool Universal Change Rooms	2-66				937				937
Norwood Pool - Decommissioning	2-67		150						150
Boni-Vital Pool									
- Cash to Capital			42						42
- Federal Gas Tax					5,359				5,359
- External Debt			150						150
Total Boni-Vital Pool	2-68		192		5,359				5,551
Technology Advancement Program	2-69		312		325			345	982
Community Centre Renovation Grant Program (CCRGP)									
- Cash to Capital		609							
- Financial Stabilization Reserve			1,035	1,035	1,035	1,035	1,035		5,175
- Land Operating Reserve			965	965	965	965	965	965	5,790
- Internal Financing		356							
Total Community Centre Renovation Grant Program (CCRGP)	2-70	965	2,000	2,000	2,000	2,000	2,000	965	10,965
Community Incentive Grant Program (CIGP)									
- Cash to Capital		1,732	1,767	1,802	1,838	1,875	1,913	1,951	11,146
- Transfer from Prior Year Authorization			194						194
Total Community Incentive Grant Program (CIGP)	2-71	1,732	1,961	1,802	1,838	1,875	1,913	1,951	11,340
Assiniboine Park Conservancy (APC) - Infrastructure and Sustainability									
- Cash to Capital				400	1,175	2,000	1,955	2,000	7,530
- External Debt		5,123	5,123	1,600	825		45		7,593
Total Assiniboine Park Conservancy (APC) - Infrastructure and	2-72	5,123	5,123	2,000	2,000	2,000	2,000	2,000	15,123

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CAPITAL PROJECTS SUMMARY *(in Thousands of $)*	PAGE NO.	RESTATED BUDGET 2018	PRELIMINARY BUDGET BUDGET 2019	FORECAST 2020	2021	2022	2023	2024	6 YEAR TOTAL 2019-2024
Assiniboine Park Conservancy (APC) - Capital Development Plan									
- External Debt	2-73	**10,000**	**4,728**						**4,728**
St. James Community Recreation Amenities									
- Land Operating Reserve	2-75			**1,400**					**1,400**
TOTAL COMMUNITY SERVICES		**20,420**	**30,640**	**12,135**	**29,231**	**15,692**	**13,549**	**11,518**	**112,765**
WINNIPEG POLICE SERVICE									
East District Police Station									
- Cash to Capital		**1,012**	**1,056**	**1,056**	**1,056**	**1,056**	**1,089**	**1,155**	**6,468**
- Public Private Partnership Lease Payments		**(1,012)**	**(1,056)**	**(1,056)**	**(1,056)**	**(1,056)**	**(1,089)**	**(1,155)**	**(6,468)**
Total East District Police Station	2-76								
Major Case Management System									
- Transfer from Prior Year Authorization	2-77		**1,158**						**1,158**
Police Divisions Systems Upgrades	2-78	**400**	**400**						**400**
Technology Upgrades - Information Systems	2-79		**1,200**					**1,200**	**2,400**
In Car Computing	2-80		**1,000**	**500**					**1,500**
North District Police Station (NDPS)		**250**							
North Station Information Technology Requirements	2-81		**300**		**190**				**490**
North District Station Furniture, Fixtures, and Equipment	2-82				**700**				**700**
Evidence Archival Building Tenant Improvement									
- External Debt	2-83		**500**	**500**					**1,000**
Evidence Archive Racking System									
- External Debt	2-84			**841**					**841**
Computer Assisted Dispatch Upgrade	2-85			**325**			**375**		**700**
Next Generation 911	2-86			**800**	**1,000**				**1,800**
Automated Fingerprint Identification System (AFIS)	2-87				**500**				**500**
Schedule and Management System Upgrade	2-88				**500**				**500**
Police Headquarters Information System Upgrades	2-89				**2,100**				**2,100**
Communication Centre Back Up Site Upgrade	2-90				**550**				**550**
Flight Operations Overhaul	2-91					**602**			**602**
Building Video Surveillance Systems	2-92					**3,056**			**3,056**
Call Answer Software	2-93					**1,000**			**1,000**
Flight Operations - Forward Looking Infra-Red (FLIR) Equipment	2-94					**658**			**658**
Technical Surveillance Systems	2-95					**1,300**			**1,300**
Body Worn Cameras	2-96						**1,014**		**1,014**
Communication Sites Upgrade - Audio Loggers	2-97						**1,400**		**1,400**
Communication Sites - Radio Consoles/Batteries	2-98							**575**	**575**
E-ticketing Hardware	2-99							**300**	**300**
Back Up Centre Renovations	2-100							**1,000**	**1,000**

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CAPITAL PROJECTS SUMMARY *(in Thousands of $)*	PAGE NO.	RESTATED BUDGET 2018	PRELIMINARY BUDGET BUDGET 2019	FORECAST 2020	2021	2022	2023	2024	6 YEAR TOTAL 2019-2024
Intelligence Led Reporting (Phase 2)		**1,665**							
WPS Data Integration, Auditing and Quality Solution Tool		**662**							
Bomb Unit Truck Replacement		**300**							
TOTAL WINNIPEG POLICE SERVICE		**3,277**	**4,558**	**2,966**	**5,540**	**6,616**	**2,789**	**3,075**	**25,544**
FIRE PARAMEDIC SERVICE									
Facilities Optimization									
- Cash to Capital				**4,690**					**4,690**
- External Debt		**550**		**2,811**					**2,811**
Total Facilities Optimization	2-101	**550**		**7,501**					**7,501**
Equipment Obsolescence									
- Cash to Capital						**1,478**	**101**		**1,579**
- Shared Health Capital Grant			**1,014**	**984**	**779**	**22**			**2,799**
- External Debt				**4,667**	**286**	**1,949**	**941**	**1,193**	**9,036**
- Internal Financing		**949**	**399**						**399**
Total Equipment Obsolescence	2-102	**949**	**1,413**	**5,651**	**1,065**	**3,449**	**1,042**	**1,193**	**13,813**
Station Capital Maintenance									
- Cash to Capital						**1,844**	**748**		**2,592**
- Shared Health Capital Grant			**519**	**477**					**996**
- External Debt		**2,594**		**2,211**	**2,826**	**1,062**	**741**	**1,531**	**8,371**
- Internal Financing			**2,148**						**2,148**
- Transfer from Prior Year Authorization			**780**						**780**
Total Station Capital Maintenance	2-104	**2,594**	**3,447**	**2,688**	**2,826**	**2,906**	**1,489**	**1,531**	**14,887**
Emergency Medical Services (EMS) Training Equipment									
- Shared Health Capital Grant	2-106			**108**					**108**
Computer Aided Dispatch (CAD) and Supporting Software Systems									
- Shared Health Capital Grant			**344**						**344**
- Internal Financing			**10,881**						**10,881**
Total Computer Aided Dispatch (CAD) and Supporting Software Systems	2-107		**11,225**						**11,225**
TOTAL FIRE PARAMEDIC SERVICE		**4,093**	**16,085**	**15,948**	**3,891**	**6,355**	**2,531**	**2,724**	**47,534**

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CAPITAL PROJECTS SUMMARY *(in Thousands of $)*	PAGE NO.	RESTATED BUDGET 2018	PRELIMINARY BUDGET BUDGET 2019	FORECAST 2020	2021	2022	2023	2024	6 YEAR TOTAL 2019-2024
PLANNING, PROPERTY AND DEVELOPMENT									
Computer Automation	2-109		133	119	143			100	495
Riverbank Greenway Programs	2-110		205	227	212			129	773
Cemeteries - Improvements									
- Cash to Capital			240	248	236	236	242	240	1,442
- Internal Financing		50							
- Veterans Affairs Canada		150	700	800	700	150			2,350
Total Cemeteries - Improvements	2-111	200	940	1,048	936	386	242	240	3,792
Downtown Enhancement Program									
- Cash to Capital				200	200	200	200	227	1,027
- Internal Financing		125	333						333
Total Downtown Enhancement Program	2-112	125	333	200	200	200	200	227	1,360
BIZ Zones, Image Routes and Neighbourhood Main Streets									
- Cash to Capital				200	200	200	200	226	1,026
- Internal Financing		400	332						332
Total BIZ Zones, Image Routes and Neighbourhood Main Streets	2-114	400	332	200	200	200	200	226	1,358
Public Art Strategy									
- Cash to Capital				500	500	500	500	500	2,500
- Internal Financing		500							
Total Public Art Strategy	2-115	500		500	500	500	500	500	2,500
Land Acquisition for General Unspecified Purposes	2-116					256		199	455
Developer Payback	2-117		292	274	280	281		225	1,352
Riverbank Stabilization - Physical Asset Protection									
- Cash to Capital				500	523	500		405	1,928
- External Debt			500						500
- Internal Financing		500							
Total Riverbank Stabilization - Physical Asset Protection	2-118	500	500	500	523	500		405	2,428
TOTAL PLANNING, PROPERTY AND DEVELOPMENT		1,725	2,735	3,068	2,994	2,323	1,142	2,251	14,513

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CAPITAL PROJECTS SUMMARY *(in Thousands of $)*	PAGE NO.	RESTATED BUDGET 2018	PRELIMINARY BUDGET BUDGET 2019	FORECAST 2020	2021	2022	2023	2024	6 YEAR TOTAL 2019-2024
MUNICIPAL ACCOMMODATIONS									
General Building Renovation and Refurbishing	2-120		180	250	500			310	1,240
Portage and Main Intersection Improvements									
- Transfer from Prior Year Authorization		1,500							
Public Safety Building and Civic Centre Parkade									
- Transfer from Winnipeg Parking Authority SOA (Proceeds from sale of Winnipeg Square Parkade held in Land Operating Reserve)			4,405						4,405
- External Debt			6,055						6,055
Total Public Safety Building and Civic Centre Parkade	2-121		10,460						10,460
Accommodation Facilities									
- Cash to Capital			19		75	978	1,844	1,229	4,145
- Land Operating Reserve			2,000	1,700	1,700			1,700	7,100
- Internal Financing		700							
- Transfer from Prior Year Authorization		634							
Total Accommodation Facilities	2-122	1,334	2,019	1,700	1,775	978	1,844	2,929	11,245
Millennium Library - HVAC and Temperature Control Improvements									
- Cash to Capital				750					750
- Transfer from Prior Year Authorization		600							
- Transfer from Prior Year Authorization - Manitoba Winnipeg Infrastructure Agreement (MWIA)		100							
Total Millennium Library - HVAC and Temperature Control Improvements	2-123	700		750					750
Fire / Life Safety / Regulatory Upgrades									
- Cash to Capital			45	608	704	720	722	712	3,511
- Internal Financing		1,000	759						759
Total Fire / Life Safety / Regulatory Upgrades	2-124	1,000	804	608	704	720	722	712	4,270
Energy Conservation									
- Cash to Capital			158		136				294
- Federal Gas Tax								147	147
Total Energy Conservation	2-125		158		136			147	441
Tenant Improvement Prepayment - Major Department	2-126				183			183	366
Historic Buildings									
- Cash to Capital				217	220	224	229	221	1,111
- Internal Financing		187	214						214
Total Historic Buildings	2-127	187	214	217	220	224	229	221	1,325
Generator Set Replacement and Upgrades									
- Cash to Capital				136	123	148	130	130	667
- Internal Financing		125	113						113
Total Generator Set Replacement and Upgrades	2-128	125	113	136	123	148	130	130	780

CAPITAL PROJECTS SUMMARY *(in Thousands of $)*	PAGE NO.	RESTATED BUDGET 2018	PRELIMINARY BUDGET						6 YEAR TOTAL
			BUDGET 2019	FORECAST 2020	2021	2022	2023	2024	2019-2024
Security / Building Automation System Initiatives									
- Cash to Capital			215	205	255	203	245	276	1,399
- Internal Financing		100	255						255
Total Security / Building Automation System Initiatives	2-129	100	470	205	255	203	245	276	1,654
Community Centres - Refurbishing and Improvements									
- Cash to Capital				266	331	327	330	84	1,338
- Federal Gas Tax / Surplus			299					301	600
- Internal Financing		322	374						374
Total Community Centres - Refurbishing and Improvements	2-130	322	673	266	331	327	330	385	2,312
Arenas									
- Cash to Capital				233					233
- Federal Gas Tax					267	268	269	312	1,116
- Internal Financing		240	525						525
Total Arenas	2-131	240	525	233	267	268	269	312	1,874
Indoor Aquatic Facilities									
- Cash to Capital			408	1,208	1,344	141			3,101
- Federal Gas Tax					1,015	1,066	1,152	1,484	4,717
- Internal Financing		1,200	1,086						1,086
- Transfer from Prior Year Authorization			111						111
Total Indoor Aquatic Facilities	2-132	1,200	1,605	1,208	2,359	1,207	1,152	1,484	9,015
Outdoor Aquatic Facilities									
- Cash to Capital				170	342	170	170	204	1,056
- Federal Gas Tax / Surplus			169						169
- Internal Financing		120							
Total Outdoor Aquatic Facilities	2-133	120	169	170	342	170	170	204	1,225
Recreation & Leisure Centres									
- Cash to Capital				107	109	111	113	109	549
- Federal Gas Tax / Surplus			106						106
- Internal Financing		125							
Total Recreation & Leisure Centres	2-134	125	106	107	109	111	113	109	655
Building Asset / Work Management Program	2-135		175		164			170	509
UFF - Hockey Pen Light Standard Replacement									
- Cash to Capital				100	100	100	100	100	500
- Internal Financing		100	100						100
Total UFF - Hockey Pen Light Standard Replacement	2-136	100	100	100	100	100	100	100	600
City-Wide Accessibility Program									
- Cash to Capital				425	425	425	425	425	2,125
- Internal Financing		410	425						425
Total City-Wide Accessibility Program	2-137	410	425	425	425	425	425	425	2,550

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CAPITAL PROJECTS SUMMARY *(in Thousands of $)*	PAGE NO.	RESTATED BUDGET 2018	PRELIMINARY BUDGET BUDGET 2019	FORECAST 2020	2021	2022	2023	2024	6 YEAR TOTAL 2019-2024
Sherbrook Pool Reopening									
- Kinsmen Club of Winnipeg (Sponsor Winnipeg)		95	95	95					190
- Interim Financing from General Capital Fund / (Repayment)		(95)	(95)	(95)					(190)
Total Sherbrook Pool Reopening	2-138								
TOTAL MUNICIPAL ACCOMMODATIONS		**7,463**	**18,196**	**6,375**	**7,993**	**4,881**	**5,729**	**8,097**	**51,271**
CITY CLERKS									
Innovation Capital Fund									
- Internal Financing		500							
Corporate Records Centre	2-140					200			200
Election Systems									
- Cash to Capital					200	200			400
- Internal Financing		200							
Total Election Systems	2-141	200			200	200			400
Voting Machine Replacement	2-142					1,000			1,000
Audio / Video Equipment Replacement	2-143						150		150
TOTAL CITY CLERKS		**700**			**200**	**1,400**	**150**		**1,750**
INNOVATION, TRANSFORMATION AND TECHNOLOGY									
Innovation Strategy									
- Cash to Capital				1,231	1,735	2,000	2,000	2,000	8,966
- External Debt				769	265				1,034
- Internal Financing		2,000	1,000						1,000
Total Innovation Strategy	2-144	2,000	1,000	2,000	2,000	2,000	2,000	2,000	11,000
Smart Cities Innovation Program									
- Cash to Capital					1,063	2,000	2,000	2,000	7,063
- External Debt				2,000	937				2,937
- Internal Financing			1,000						1,000
Total Smart Cities Innovation Program	2-146		1,000	2,000	2,000	2,000	2,000	2,000	11,000
Communications Network Infrastructure									
- Cash to Capital				317	158	1,151	784	386	2,796
- Internal Financing		813	298						298
Total Communications Network Infrastructure	2-147	813	298	317	158	1,151	784	386	3,094
Enterprise Computing Initiatives									
- Cash to Capital				1,028	2,718	1,391	1,034	1,002	7,173
- External Debt			1,026	572					1,598
- Internal Financing		1,287							
- Transfer from Computer, Critical Systems and Support Reserve		126							
Total Enterprise Computing Initiatives	2-148	1,413	1,026	1,600	2,718	1,391	1,034	1,002	8,771

CAPITAL PROJECTS SUMMARY *(in Thousands of $)*	PAGE NO.	RESTATED BUDGET 2018	PRELIMINARY BUDGET						6 YEAR TOTAL
			BUDGET 2019	FORECAST					
				2020	2021	2022	2023	2024	2019-2024
PeopleSoft Enhancements (formerly PeopleSoft Upgrade)									
- Cash to Capital					823	887	857	922	3,489
- External Debt				854					854
- Internal Financing		412	892						892
Total PeopleSoft Enhancements	2-149	412	892	854	823	887	857	922	5,235
Core Information Technology Program									
- Internal Financing		283							
Geographic Information System Aerial Image Renewal Program (formerly Aerial Imagery Renewal Program)									
- Cash to Capital				159		188		188	535
- Internal Financing	2-150	165							
Communications Systems Branch Facilities									
- Internal Financing	2-151		174						174
Information Security Initiatives									
- Cash to Capital					306	309	318	325	1,258
- External Debt				308					308
- Internal Financing		603	365						365
Total Information Security Initiatives	2-152	603	365	308	306	309	318	325	1,931
E-Mail Archiving									
- Internal Financing	2-153		484						484
Enterprise Content Management									
- Cash to Capital					105				105
- External Debt				303					303
- Internal Financing		2,231	1,102						1,102
Total Enterprise Content Management	2-154	2,231	1,102	303	105				1,510
Microsoft Office License Evergreen									
- Cash to Capital					208	330	184	71	793
- External Debt			1,375	817					2,192
- Internal Financing		222							
Total Microsoft Office License Evergreen	2-155	222	1,375	817	208	330	184	71	2,985
Printing Graphics & Mail Services Asset Renewal (formerly Print Asset Renewal)									
- Cash to Capital					350				350
- Internal Financing		152							
Total Printing Graphics & Mail Services Asset Renewal	2-156	152			350				350
Microsoft Development Network Software Renewal (formerly Software Renewal Program)									
- Cash to Capital						271			271
- External Debt			247						247
Total Microsoft Development Network Software Renewal	2-157		247			271			518

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CAPITAL PROJECTS SUMMARY *(in Thousands of $)*	PAGE NO.	RESTATED BUDGET 2018	PRELIMINARY BUDGET BUDGET 2019	FORECAST 2020	2021	2022	2023	2024	6 YEAR TOTAL 2019-2024
Disaster Recovery Gap Mitigation Phase 1									
- Internal Financing		1,023							
- External Debt			954						954
Total Disaster Recovery Gap Mitigation Phase 1	2-158	1,023	954						954
Tait Radio Replacement									
- Cash to Capital					342				342
- External Debt			48	1,157					1,205
- Internal Financing			1,854						1,854
Total Tait Radio Replacement	2-159		1,902	1,157	342				3,401
Corporate VoIP Phone System									
- External Debt	2-160			188					188
Enterprise Business Intelligence Expansion									
- External Debt	2-161			1,274					1,274
Intake Program									
- Cash to Capital					557	567	546	556	2,226
- External Debt				547					547
- Internal Financing			534						534
Total Intake Program	2-162		534	547	557	567	546	556	3,307
TOTAL INNOVATION, TRANSFORMATION AND TECHNOLOGY		9,317	11,353	11,524	9,567	9,094	7,723	7,450	56,711
CUSTOMER SERVICE AND COMMUNICATIONS									
311 Renewal									
- Cash to Capital				350	150	100	450	450	1,500
- Internal Financing		250							
Total 311 Renewal	2-163	250		350	150	100	450	450	1,500
TOTAL CUSTOMER SERVICE AND COMMUNICATIONS		250		350	150	100	450	450	1,500
ASSESSMENT AND TAXATION									
Assessment Automation	2-164		350	200	350	350		250	1,500
Valcura System									
- Internal Financing		200							
Assessment Data Valuation Information System									
- Internal Financing		1,208							
Local Improvements - Ongoing Program									
- Cash to Capital			180		400	480	480		1,540
- Transfer from Prior Year Authorization (Cash to Capital)		200	220						220
- Transfer from Prior Year Authorization (External Debt)		800	880						880
- External Debt			720	1,600	1,600	1,920	1,920	2,400	10,160
Total Local Improvements - Ongoing Program	2-165	1,000	2,000	1,600	2,000	2,400	2,400	2,400	12,800
TOTAL ASSESSMENT AND TAXATION		2,408	2,350	1,800	2,350	2,750	2,400	2,650	14,300

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CAPITAL PROJECTS SUMMARY *(in Thousands of $)*	PAGE NO.	RESTATED BUDGET 2018	PRELIMINARY BUDGET BUDGET 2019	FORECAST 2020	2021	2022	2023	2024	6 YEAR TOTAL 2019-2024
TRANSIT									
Innovative Transit Program									
- Cash to Capital			700	325	700	325	325	325	2,700
- Internal Financing		500							
Total Innovative Transit Program	2-166	500	700	325	700	325	325	325	2,700
Transit Building Replacement / Refurbishment									
- Cash to Capital				636	1,636	1,049	1,636	1,000	5,957
- External Debt		956							
Total Transit Building Replacement / Refurbishment	2-167	956		636	1,636	1,049	1,636	1,000	5,957
Transit Building Roof Replacement and Ventilation Upgrade - First charge against the 2019 Capital Budget of up to $1.75 million (Council July 19,									
- Cash to Capital		162	522	2,132	2,000	1,400	2,000	2,000	10,054
- Public Transit Infrastructure Fund (Federal Government)		75	875						875
- Public Transit Infrastructure Fund (Provincial Government)		63	438						438
- Retained Earnings			500						500
Total Transit Building Roof Replacement and Ventilation Upgrade	2-168	300	2,335	2,132	2,000	1,400	2,000	2,000	11,867
Garage Improvements - Phase 2 - First charge against the 2019 Capital Budget of up to $1.5 million (Council July 19, 2018)									
- Cash to Capital			750						750
- Public Transit Infrastructure Fund (Federal Government)			750						750
Total Garage Improvements - Phase 2	2-170		1,500						1,500
Transit Buses									
- Cash to Capital		445		11,827	9,088	12,603	12,209	13,787	59,514
- Transit Bus Replacement Reserve		1,437		5,681	11,773	12,640	14,000	14,504	58,598
- Public Transit Infrastructure Fund (Federal Government)		11,850							
- Public Transit Infrastructure Fund (Provincial Government)		5,585							
- Federal Gas Tax			16,188	6,442	6,735	6,735	7,027	7,627	50,754
- External Debt		9,035	4,889	5,750					10,639
- Transfer from Prior Year Authorization - Federal Gas Tax			1,132						1,132
Total Transit Buses	2-171	28,352	22,209	29,700	27,596	31,978	33,236	35,918	180,637
Southwest Rapid Transitway (Stage 2) and Pembina Highway Underpass									
- Southwest Rapid Transitway (Stage 2) and Pembina Highway Underpass Payment Reserve		350	1,780	14,460	14,720	14,760	14,880	15,190	75,790
- P3 Annual Service / Financing Payments (Province)			(80)	(1,010)	(1,110)	(1,120)	(1,180)	(1,300)	(5,800)
- P3 Annual Service / Financing Payments (City)		(350)	(1,700)	(10,060)	(10,220)	(10,250)	(10,310)	(10,500)	(53,040)
- External Debt Annual Service Payments (City)				(3,390)	(3,390)	(3,390)	(3,390)	(3,390)	(16,950)
Total Southwest Rapid Transitway (Stage 2) and Pembina Highway Underpass	2-173								
Transit Safety Management Practices									
- Retained Earnings			165						165
- Internal Financing	2-176	460							

CAPITAL PROJECTS SUMMARY (in Thousands of $)	PAGE NO.	RESTATED BUDGET 2018	PRELIMINARY BUDGET						6 YEAR TOTAL
			BUDGET 2019	FORECAST					
				2020	2021	2022	2023	2024	2019-2024
Bus Fleet Cameras									
- Internal Financing		**155**							
Accessibility Program (formerly Bus Stop Accessibility Program)	2-177		**500**	**500**	**500**	**500**	**500**	**500**	**3,000**
Bus Communication Modernization									
- Federal Gas Tax	2-178	**1,140**	**1,140**						**1,140**
Heavy Shop Equipment Replacement Program - First charge against the 2019 Capital Budget of up to $1.805 million (Council July 19, 2018)									
- Cash to Capital			**928**		**200**	**200**	**200**	**200**	**1,728**
- Public Transit Infrastructure Fund (Federal Government)			**877**						**877**
Total Heavy Shop Equipment Replacement Program	2-179		**1,805**		**200**	**200**	**200**	**200**	**2,605**
Hoist Replacement at Fort Rouge Garage - First charge against the 2019 Capital Budget of up to $1.4 million (Council July 19, 2018)									
- Cash to Capital			**750**	**1,000**	**2,500**	**2,500**	**2,500**	**2,000**	**11,250**
- Public Transit Infrastructure Fund (Federal Government)			**650**						**650**
Total Hoist Replacement at Fort Rouge Garage	2-180		**1,400**	**1,000**	**2,500**	**2,500**	**2,500**	**2,000**	**11,900**
Rapid Overhead Doors at Washrack - First charge against the 2019 Capital Budget of up to $600,000 (Council July 19, 2018)									
- Cash to Capital			**350**						**350**
- Public Transit Infrastructure Fund (Federal Government)			**250**						**250**
Total Rapid Overhead Doors at Washrack	2-181		**600**						**600**
Administration and Control Centre Radio Replacement									
- Retained Earnings	2-182		**1,000**						**1,000**
Land Acquisition									
- Cash to Capital					**3,000**				**3,000**
- Retained Earnings			**1,000**						**1,000**
Total Land Acquisition	2-183		**1,000**		**3,000**				**4,000**
Bus Operator Compartment Safety Shields									
- Cash to Capital			**3**						**3**
- Federal Gas Tax			**551**						**551**
- Retained Earnings			**2,596**						**2,596**
Total Bus Operator Compartment Safety Shields	2-184		**3,150**						**3,150**
Electric Bus Study									
- Retained Earnings	2-185		**1,000**						**1,000**
Heated Bus Shelter Program									
- Cash to Capital			**536**						**536**
- Retained Earnings			**495**						**495**
Total Heated Bus Shelter Program	2-186		**1,031**						**1,031**
Low Income Bus Pass									
- Retained Earnings	2-187		**236**		**139**				**375**
TOTAL TRANSIT		**31,863**	**39,771**	**34,293**	**38,271**	**37,952**	**40,397**	**41,943**	**232,627**

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CAPITAL PROJECTS SUMMARY *(in Thousands of $)*	PAGE NO.	RESTATED BUDGET 2018	PRELIMINARY BUDGET					6 YEAR TOTAL
			BUDGET 2019	FORECAST				
				2020	2021	2022	2023	2024	2019-2024
WATERWORKS SYSTEM									
Waterworks System - Supply and Treatment									
Financed by Waterworks Retained Earnings:									
Shoal Lake Aqueduct Asset Preservation									
- Retained Earnings		698			1,840	2,000	1,465		5,305
- Transfer from Prior Year Authorization - Retained Earnings		500							
Total Shoal Lake Aqueduct Asset Preservation	2-188	1,198			1,840	2,000	1,465		5,305
Shoal Lake Aqueduct Intake Facility Rehabilitation	2-189					7,400	150	3,055	10,605
Aqueduct Condition Assessment and Rehabilitation									
- Retained Earnings		400			1,000		1,000		2,000
- Transfer from Prior Year Authorization - Retained Earnings		500							
Total Aqueduct Condition Assessment and Rehabilitation	2-190	900			1,000		1,000		2,000
Tache Booster Pumping Station	2-191		785		1,000	1,220	645		3,650
Pumping Stations and Reservoirs Structural Upgrades	2-192	600		800					800
Chlorination Upgrading at Pumping Stations	2-193				3,575				3,575
Water Supervisory Control and Data Acquisition (SCADA) Upgrade	2-194		4,125						4,125
Waterworks System Security Upgrades	2-195			500					500
Regulatory Assessment of Water System Infrastructure and Supply Sources	2-196				575				575
Water Treatment Plant Capacity Validation		150							
Branch 1 Aqueduct at Seine River - Riverbank Stabilization (East Side)		500							
Water Treatment Research and Process Optimization		560							
Deacon Reservoir Cell Rehabilitation	2-197					100			100
Deacon Booster Pumping Station Suction Header Divider Wall and Valve	2-198			1,245					1,245
Hurst Pumping Station Building - Structural Repairs		2,425							
Deacon Site Flood Protection									
- Transfer from Prior Year Authorization - Retained Earnings		300							
HVAC Upgrades at Pumping Stations	2-199	1,000		4,090					4,090
Ultraviolet Light Disinfection System Upgrade	2-200			855					855
Discharge Meter Upgrades at the In-town Pumping Stations	2-201		150		3,950				4,100
Water Treatment Plant Asset Refurbishment and Replacement	2-202	125	575	4,650				2,000	7,225
Water Conservation and Efficiency Study	2-203		155						155
Total Waterworks System - Supply and Treatment		7,758	5,790	12,140	11,940	10,720	3,260	5,055	48,905

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CAPITAL PROJECTS SUMMARY *(in Thousands of $)*	PAGE NO.	RESTATED BUDGET 2018	PRELIMINARY BUDGET BUDGET 2019	FORECAST 2020	2021	2022	2023	2024	6 YEAR TOTAL 2019-2024
Waterworks System - Distribution									
Financed by Waterworks Retained Earnings:									
Feeder Main Condition Assessment and Rehabilitation	2-204	**1,350**	**350**	**3,550**	**1,000**	**1,100**	**1,100**	**1,150**	**8,250**
Building Renovations - 1199 Pacific Avenue	2-205	**110**					**2,100**	**2,100**	**4,200**
Water Meter Replacement Program	2-206			**450**					**450**
Public Water Outlets	2-207		**475**						**475**
Water Main Renewals									
- Water Main Renewal Reserve	2-208	**16,500**	**16,500**	**18,000**	**19,000**	**19,500**	**20,000**	**20,000**	**113,000**
Customer Billing and Work Management Systems Upgrades Program	2-209	**1,165**	**185**	**1,565**	**2,110**	**430**	**925**	**730**	**5,945**
Utility Asset Management System									
- Transfer from Prior Year Authorization - Retained Earnings		**600**							
Customer Care and Billing - iNovah Integration	2-210	**300**	**130**						**130**
Web Self Service		**700**							
Automated Remittance Processing	2-211		**400**						**400**
Application and Data Integration	2-212			**250**	**610**				**860**
Digital Enablement for Plant and Field Employees	2-213		**530**	**850**	**660**	**680**	**660**		**3,380**
Information Technology Cybersecurity Review	2-214		**340**						**340**
GIS Enhancements	2-215		**300**						**300**
Information Technology Enterprise Architecture	2-216			**125**					**125**
Total Waterworks System - Distribution		**20,725**	**19,210**	**24,790**	**23,380**	**21,710**	**24,785**	**23,980**	**137,855**
TOTAL WATERWORKS SYSTEM (Utility Supported)		**28,483**	**25,000**	**36,930**	**35,320**	**32,430**	**28,045**	**29,035**	**186,760**
SEWAGE DISPOSAL SYSTEM									
Sewage Disposal System - Treatment									
Financed by Sewage Disposal System Retained Earnings:									
SEWPCC Second Stage Dewatering	2-217					**1,000**			**1,000**
Sludge Drying Beds Decommissioning	2-218					**350**			**350**
Process Control System Master Plan and Upgrade	2-219	**9,000**					**2,000**		**2,000**
Asset Refurbishment and Replacement Program									
- Retained Earnings		**4,000**	**5,000**	**6,000**	**2,000**	**2,000**	**5,000**	**5,000**	**25,000**
- Transfer from Prior Year Authorization - Retained Earnings			**1,000**						**1,000**
Total Asset Refurbishment and Replacement Program	2-220	**4,000**	**6,000**	**6,000**	**2,000**	**2,000**	**5,000**	**5,000**	**26,000**
West End Sewage Treatment Plant (WEWPCC) - Facilities Plan	2-221				**500**				**500**
Total Sewage Disposal System - Treatment		**13,000**	**6,000**	**6,000**	**2,500**	**3,350**	**7,000**	**5,000**	**29,850**

CAPITAL PROJECTS SUMMARY *(in Thousands of $)*	PAGE NO.	RESTATED BUDGET 2018	PRELIMINARY BUDGET BUDGET 2019	FORECAST 2020	2021	2022	2023	2024	6 YEAR TOTAL 2019-2024
Sewage Disposal System - Collection									
Financed by Sewage Disposal System Retained Earnings:									
Arc Flash Hazard Analysis and Remediation									
- Retained Earnings			879	385	320	270			1,854
- Transfer from Prior Year Authorization - Retained Earnings		767							
Total Arc Flash Hazard Analysis and Remediation	2-222	767	879	385	320	270			1,854
Lift Stations Upgrading	2-223	2,750	2,825	2,925	6,250	6,250	6,250	6,500	31,000
River Crossings Monitoring and Rehabilitation									
- Retained Earnings		970	450	700	1,350	1,700	600		4,800
- Transfer from Prior Year Authorization - Retained Earnings			250						250
Total River Crossings Monitoring and Rehabilitation	2-224	970	700	700	1,350	1,700	600		5,050
Combined Sewer Overflow and Basement Flood Management Strategy									
- Environmental Projects Reserve	2-225	26,098	31,100	32,610	24,110	29,120	27,120	25,130	169,190
Comminutor Chamber Rehabilitation Program	2-226	1,100	1,200	1,300					2,500
Airport Area West Water and Sewer Servicing									
- Retained Earnings		1,900							
- External Funding		250							
Total Airport Area West Water and Sewer Servicing		2,150							
Southwest Interceptor River Crossing	2-227	250	1,100				5,000	35,000	41,100
Wastewater Services Facilities Plan	2-228			350					350
Environmental Standards Laboratory Facility Plan	2-229					500			500
Sewer Renewals									
- Sewer System Rehabilitation Reserve	2-230	18,200	17,500	18,500	19,500	20,000	20,500	21,000	117,000
Water and Waste Department (WWD) Business Intelligence	2-231	1,560	600	280	200				1,080
Customer Billing and Work Management Systems Upgrades Program	2-232	1,165	185	1,565	2,110	430	925	730	5,945
Digital Customer Solutions	2-233		1,600	1,000	1,095	175	160	110	4,140
WWD Document Management System	2-234	350	500	500	150				1,150
WWD Learning Management System	2-235			500					500
Total Sewage Disposal System - Collection		55,360	58,189	60,615	55,085	58,445	60,555	88,470	381,359
TOTAL SEWAGE DISPOSAL SYSTEM (Utility Supported)		68,360	64,189	66,615	57,585	61,795	67,555	93,470	411,209

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CAPITAL PROJECTS SUMMARY *(in Thousands of $)*	PAGE NO.	RESTATED BUDGET 2018	PRELIMINARY BUDGET					6 YEAR TOTAL
			BUDGET 2019	FORECAST				
				2020	2021	2022	2023	2024	2019-2024
SOLID WASTE DISPOSAL SYSTEM									
Solid Waste Disposal System - Landfill									
Financed by Solid Waste Disposal Retained Earnings:									
Brady Road Resource Management Facility - Cell Construction	2-236		**2,500**	**700**	**1,200**	**750**	**1,300**	**500**	**6,950**
Brady Road Resource Management Facility - Drainage, Roadways and Site Improvements - External Debt		**2,800**							
Brady Road Resource Management Facility - Site Improvements - Landfill Rehabilitation Reserve	2-237		**200**	**200**					**400**
Brady Road Resource Management Facility - Landfill Gas Capture - Landfill Rehabilitation Reserve	2-238					**2,600**			**2,600**
Brady Road Resource Management Facility - Alternative Energy Project - External Debt	2-239			**2,500**					**2,500**
Brady Road Resource Management Facility - Onsite Leachate Management - Landfill Rehabilitation Reserve	2-240		**450**						**450**
Closed Landfill Site Improvement - Landfill Rehabilitation Reserve	2-241	**210**	**225**	**220**	**285**	**200**	**200**	**200**	**1,330**
Miscellaneous Land Acquisition		**800**							
Total Solid Waste Disposal System - Landfill		**3,810**	**3,375**	**3,620**	**1,485**	**3,550**	**1,500**	**700**	**14,230**
Solid Waste Disposal System - Collection									
Financed by Solid Waste Disposal Waste Diversion Reserve:									
Comprehensive Integrated Waste Management Strategy (CIWMS) - Materials Recovery Facility Education Centre - Transfer from Prior Year Authorization - External Debt	2-242		**250**						**250**
Collection Management System	2-243	**700**		**250**					**250**
Comprehensive Integrated Waste Management Strategy (CIWMS) - Review	2-244						**450**		**450**
Total Solid Waste Disposal System - Collection		**700**	**250**	**250**			**450**		**950**
TOTAL SOLID WASTE DISPOSAL SYSTEM (Utility Supported)		**4,510**	**3,625**	**3,870**	**1,485**	**3,550**	**1,950**	**700**	**15,180**

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CAPITAL PROJECTS SUMMARY *(in Thousands of $)*	PAGE NO.	RESTATED BUDGET 2018	PRELIMINARY BUDGET					6 YEAR TOTAL
			BUDGET 2019	FORECAST				
				2020	2021	2022	2023	2024	2019-2024
LAND DRAINAGE UTILITY									
Land Drainage and Flood Control									
Financed by Transfer from Sewage Disposal System Fund:									
Flood Pumping Station Rehabilitation									
- Transfer from Sewer Disposal Fund		**1,000**	**129**	**1,000**	**1,000**	**1,000**	**1,000**	**1,500**	**5,629**
- Transfer from Prior Year Authorization			**871**						**871**
Total Flood Pumping Station Rehabilitation	2-245	**1,000**	**1,000**	**1,000**	**1,000**	**1,000**	**1,000**	**1,500**	**6,500**
Land Drainage Sewers - Regional / Local Streets	2-246	**500**	**1,000**	**100**	**100**	**100**	**100**	**100**	**1,500**
Land Drainage and Combined Sewers Outfall Gate Structures	2-247	**1,800**	**1,870**	**2,180**					**4,050**
Stormwater Retention Basin Revetments	2-248	**175**		**430**		**470**			**900**
Land Drainage Utility	2-249							**400**	**400**
Lot 16 Drain Slope Stabilization Works	2-250		**1,175**						**1,175**
St. Boniface Hospital Primary Line of Defence (PLD) Slope Stability Analysis and Stabilization Works	2-251		**150**						**150**
Outfall Rehabilitation	2-252	**3,000**	**2,000**	**2,000**	**2,000**	**3,500**	**3,500**	**3,500**	**16,500**
Development Agreement Paybacks									
- Developer Capacity Charges	2-253	**3,100**			**500**	**700**	**1,000**	**1,700**	**3,900**
Floodplain Management		**215**							
TOTAL LAND DRAINAGE UTILITY (Utility Supported)		**9,790**	**7,195**	**5,710**	**3,600**	**5,770**	**5,600**	**7,200**	**35,075**

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CAPITAL PROJECTS SUMMARY *(in Thousands of $)*	PAGE NO.	RESTATED BUDGET 2018	PRELIMINARY BUDGET BUDGET 2019	FORECAST 2020	2021	2022	2023	2024	6 YEAR TOTAL 2019-2024
WINNIPEG FLEET MANAGEMENT AGENCY									
Financed by Accumulated Surplus (Retained Earnings):									
Shop Tools & Equipment Upgrades	2-254	**737**	**627**	**701**	**664**	**664**	**664**	**664**	**3,984**
Power Tools	2-255	**180**	**150**	**150**	**150**	**150**	**150**	**150**	**900**
Fuel Site Upgrades and Improvements	2-256	**540**	**200**	**410**	**305**	**305**	**305**	**305**	**1,830**
Fleet Asset Acquisitions									
- Debt - Fleet Borrowing	2-257	**21,224**	**22,336**	**15,178**	**15,670**	**15,670**	**15,670**	**15,670**	**100,194**
TOTAL WINNIPEG FLEET MANAGEMENT AGENCY		**22,681**	**23,313**	**16,439**	**16,789**	**16,789**	**16,789**	**16,789**	**106,908**
WINNIPEG GOLF SERVICES									
Golf Course Amenities	2-258			**1,000**					**1,000**
TOTAL WINNIPEG GOLF SERVICES				**1,000**					**1,000**
WINNIPEG PARKING AUTHORITY									
Financed by Accumulated Surplus (Retained Earnings):									
Automated License Plate Recognition (ALPR) Program	2-259		**121**	**178**	**126**	**172**	**137**	**238**	**972**
TOTAL WINNIPEG PARKING AUTHORITY			**121**	**178**	**126**	**172**	**137**	**238**	**972**

The 2018 Adopted Capital Budget has been restated to include Winnipeg Fleet Management Agency and Winnipeg Parking Authority.

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Capital Projects Detail

2019 Preliminary Capital Budget
and 2020 to 2024 Five-Year Forecast

Notes:

1. Capital Budget amounts are estimates only and are subject to materials management policy (e.g. tenders, bids, and contract awards including Public Private Partnership Proposals)

2. The Public Service uses a cost estimate classification determined using AACE International Recommended Practices for capital budget estimates – see Appendix 2.

3. Included in the capital project authorizations are corporate and departmental overhead amounts (FTE related costs, administrative costs, etc.). Consistent with asset management principles, specific recoveries are included in the capital project business case/basis of estimate. Actual expenses may vary from budget depending on in-year circumstances.

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Project Name: **Pedestrian and Cycling Program**

Standing Policy Committee: Infrastructure Renewal and Public Works

Department: Public Works
Project: 1832000119

Service: Roadway Construction and Maintenance
OurWinnipeg: Sustainability

AUTHORIZATION	Previous Budgets	2019 Estimate	FORECAST 2020	2021	2022	2023	2024	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	N/A *	3,024	1,815	150	3,000	2,700	2,700	10,365	13,389
Financed by:									
Cash to Capital			1,684	1,805	2,431	946		6,866	6,866
Interim Financing from General Capital Fund / (Repayment)	3,850		(155)	(3,272)	(423)			(3,850)	(3,850)
Federal Gas Tax / Surplus		1,743	286	1,617	992	1,754	2,700	7,349	9,092
Internal Financing		957						-	957
Transfer from Prior Year Authorization		324						-	324

CASH FLOW	2019	2020	2021	2022	2023	2024	Beyond 2024	Total
Project Costs ($000's)	2,570	1,974	(68)	3,000	2,809	2,700	404	13,389
Financed by:								
Cash to Capital		1,431	1,787	2,337	1,169	142		6,866
Interim Financing from General Capital Fund / (Repayment)		(155)	(3,272)	(423)				(3,850)
Federal Gas Tax / Surplus	1,482	505	1,417	1,086	1,640	2,558	404	9,092
Internal Financing	813	144						957
Transfer from Prior Year Authorization	275	49						324

NET OPERATING IMPACT ($000's)	2019	2020	2021
Operating costs			
Debt and finance charges	89	196	212
Transfer to General Capital Fund		1,684	1,805
Total Direct Costs	89	1,880	2,017
Less: Incremental Revenue/Recovery	54	54	
Net Cost/(Benefit)	35	1,826	2,017
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: Not applicable, as this is a scalable program

Projects in 2019 will not proceed to construction until a class 3 estimate is obtained.

Any surplus funds will automatically be transferred to the following years Pedestrian and Cycling Program Budget.

The Director of Public Works may be required to reallocate funds within the Pedestrian and Cycling Program based on financing requirements.

On July 15, 2015 Council approved the Winnipeg Pedestrian and Cycling Strategies (PCS) with the following motion: All costs included in the Pedestrian and Cycling Strategies are estimates, no budget allocation is included with the approval of the Pedestrian and Cycling Strategies document, and all projects and project costs relating to the Pedestrian and Cycling Strategies document will be considered by City Council through the annual budget process. Pedestrian and Cycling Action Plans will be presented to the Standing Policy Committee for information on a yearly basis to provide status updates on previous and current projects.

Pedestrian and Cycling Program (continued):

On July 13, 2016 Council approved the recommendation of the Standing Policy Committee on Infrastructure Renewal and Public Works: That all projects related to the Pedestrian and Cycling Strategies document be submitted to the Standing Policy Committee on Infrastructure Renewal and Public Works for recommendation to Council.

Funding in 2019 includes budgeted amounts from previously authorized capital projects from 2011, 2013 and 2015 - see Appendix 4.

The Pedestrian and Cycling Program supports the delivery of the City's long-term vision to maximize transportation options by ensuring the accessibility, comfort, and safety of walking and cycling in Winnipeg.

Budget is used for the construction of new pedestrian and cycling facilities, facilities enhancements, studies and support for public education, awareness and promotions of walking and cycling. Funding is also used to support public engagement and design studies in advance of planned road renewals.

On September 27, 2017 Council approved a first charge against the 2018 Capital Budget of up to $2.250 million for the Protected Bike Lanes McDermot Avenue/Bannatyne Avenue (Phase 2) project, and approved an additional $3.850 million in 2017 financed by Interim Financing from General Capital Fund for Chief Peguis Trail - Kildonan Settlers Bridge Pedestrian and Cycling Improvements.

* N/A - No amounts have been included in the “Previous Budgets” due to this projects on-going nature.

The Pedestrian and Cycling Program supports the following program areas:

New Regional Sidewalks

Construction of new sidewalks on regional streets where none presently exist and where provision is warranted. Provides additional funding to support pedestrian crossings improvements and/or crossing upgrades on regional streets. Future locations that are to be determined will be identified through the annual Pedestrian and Cycling Action Plan or through the yearly Capital Budget process.

New Non-Regional Sidewalks

Construction of new sidewalk on non-regional street must meet at least one of the following:

> connect existing sidewalks to a significant destination business/public facility/senior facility, etc.

> is located within 1.5 km of a school and have been identified by a Neighbourhood Based Consultation process (for example a School Travel Plan or Neighbourhood Area Plan);

> is required to connect pedestrians to a bus stop, where the property owners fronting the proposed sidewalk are not considered to be the main or a major benefiter from the new sidewalk, and likely would not support the sidewalk as a Local Improvement.

Future locations that are to be determined will be identified through the annual Pedestrian and Cycling Action Plan or through the yearly Capital Budget process.

Bicycle Corridors

Development of new bicycle facilities on the Bicycle Network as prioritized in the Pedestrian and Cycling Strategies. Provides support to complete gaps in the Bicycle Network. Supports the supply and installation of permanent and temporary bicycle parking through an annual Bicycle Parking Grant program. Provides additional funding to support the development of Neighbourhood Greenways during local street renewal projects. Considers support for a pedestrian and cycling monitoring strategy.

Public Education, Awareness and Promotion

Support educational programming, public safety and awareness in support of walking and cycling. Supports the promotion of new and existing pedestrian and cycling facilities including a walking and cycling communications strategy. Considers support for a City-wide wayfinding system.

Recreational Walkways and Bicycle Paths

Construction of new recreational walkways and off-street bicycle paths facilities where no walkway or cycle facility presently exists, and where the provision of such a facility is warranted.

See next pages for program details.

Pedestrian and Cycling Program (continued):

PEDESTRIAN AND CYCLING PROGRAM Authorization ($000's)	2019	2020	2021	2022	2023	2024	Six-Year Total
New Non-Regional Sidewalks:							
Cliffwood Dr west/Newcroft Rd north/Shamrock Dr south	200						200
Wellington Cres, north side, from Omand's Path to Renfrew St	200						200
Bicycle Corridors:							
St Boniface West -- East Corridor Study and Improvements	550						550
Maryland Ave/Sherbrook Ave Upgrade to Protected Bike Lane	324						324
Recreational Walkways and Bicycle Paths:							
North Winnipeg Parkway -- Rover Ave to Chief Peguis Trail Study	300						300
Northwest Hydro Corridor Construction--phase 2 & 3	1,100						1,100
Bike Parking in Parks, various locations	75						75
Bicycle Parking Partnership Grants:	25						25
Exchange District BIZ $10,000							
Selkirk BIZ $5,000							
Downtown Winnipeg BIZ $10,000							
Communication and Promotions	25						25
Partnership Grant Program:	175						175
International Trails Day (Winnipeg Trails) $10,000 Winnipeg Trails $10,300 Bike Week Winnipeg / Ciclovia (Bike Winnipeg) $45,000 Winnipeg Repair Education and Cycling Hub (WRENCH) $35,000 Moveable Feast (Downtown Winnipeg BIZ) $1,750 Bike Friendly Business Program (Downtown Winnipeg BIZ) $6,450 Pedal in the Peg (Downtown Winnipeg BIZ) $2,500 Infrastructure Educational Videos (Exchange District BIZ) $7,000 Bike Friendly BIZ (Exchange District BIZ) $7,000 Commuter Challenge (Green Action Centre) $20,000 Bike to School Month (Green Action Centre) $10,000 Bike Education and Skills Training (Green Action Centre) $20,000							
Total Partnership Grant Program	**175**	**-**	**-**	**-**	**-**	**-**	**175**
Active Safe Routes to School, various locations	50						50
Future projects will be identified and funding allocated through future Pedestrian and Cycling Action Planning Processes, in advance of the 2020 Capital Budget		1,815	150	3,000	2,700	2,700	10,365
Total Pedestrian and Cycling Program	**3,024**	**1,815**	**150**	**3,000**	**2,700**	**2,700**	**13,389**

Next page will detail additional Active Transportation funding in other projects.

Pedestrian and Cycling Program (continued):

The following projects include Active Transportation (AT) facilities funding:

	2019	2020	2021	2022	2023	2024	Total
Fermor Avenue Bridge (Seine River)							
- Mixed use sidewalk on Bridge, AT Tunnel, AT connecting paths	2,500						2,500
Pembina Hwy Overpass (Bishop Grandin)							
- to be determined				**	**		-
Regional Street Renewals:							
Garry/Notre Dame - Notre Dame to Assiniboine/Portage to Princess							
- two way protected bicycle lanes	3,500						3,500
Memorial - York to St Mary							
- muti-use path	250						250
Archibald St - St Catherine to Cottonwood							
- to be determined		**	**	**	**		-
Pandora Ave E - Day to Wayoata							
- multi-use path			**				-
Dunkirk Dr - Fermor to St Mary's							
- to be determined			**				-
Keewatin St - Selkirk to Logan							
- multi-use path			**				-
University Cres - Pembina to Chancellor Matheson							
- protected bike lanes			**	**	**		-
Leila Ave - McPhillips to McGregor							
- protected bike lanes				**	**		-
Pembina Hwy - McGillivray to Chevrier							
- buffered bike lanes				**	**		-
St Mary Ave - Memorial to Portage							
- protected bike lanes				**	**		-
Jubilee Ave - Osborne to Pembina							
- buffered bike lanes				**	**		-
Dakota St - St Mary's to Bishop Grandin							
- to be determined							-
Lagimodiere Blvd NB - Fermor to Cottonwood							
- to be determined							-
	6,250	**-**	**-**	**-**	**-**	**-**	**6,250**

** to be determined

Project Name: **Tache Promenade**

Standing Policy Committee: Infrastructure Renewal and Public Works

Department: Public Works
Project: 6351800417
Service: City Beautification
OurWinnipeg: Sustainability

AUTHORIZATION	Previous Budgets	2019 Estimate	FORECAST 2020	2021	2022	2023	2024	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	10,000	-	-	-	-	-	-	-	-
Financed by:									
Cash to Capital			3,000					3,000	3,000
Interim Financing from General Capital Fund / (Repayment)			(3,000)					(3,000)	(3,000)

CASH FLOW	2019	2020	2021	2022	2023	2024	Beyond 2024	Total
Project Costs ($000's)	-	-	-	-	-	-	-	-
Financed by:								
Cash to Capital		3,000						3,000
Interim Financing from General Capital Fund / (Repayment)		(3,000)						(3,000)

NET OPERATING IMPACT ($000's)	2019	2020	2021
Operating costs			
Debt and finance charges			
Transfer to General Capital Fund		3,000	
Total Direct Costs	-	3,000	-
Less: Incremental Revenue/Recovery			
Net Cost/(Benefit)	-	3,000	-
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: 3

A number of community initiatives are underway to renew the Tache Promenade including enhanced pedestrian connections and viewing locations as well and connections to the Canadian Museum for Human Rights, St. Boniface Hospital, St, Boniface Basilica, Provencher Boulevard, the Downtown and with the Red River.

This capital project consists of riverbank stabilization, construction of a Belvedere, including a public art component and expansion of the sidewalk forming part of the St. Boniface River Trail.

Project Name: **Developer Payback - Various Locations**

Standing Policy Committee: Infrastructure Renewal and Public Works

Department: Public Works
Project: 1807000120

Service: Roadway Construction and Maintenance
OurWinnipeg: Key Directions for the Entire City

AUTHORIZATION	Previous Budgets	2019 Estimate	FORECAST 2020	2021	2022	2023	2024	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	N/A *	-	16,113	-	-	-	-	16,113	16,113
Financed by:									
Cash to Capital			8,966					8,966	8,966
Federal Gas Tax			7,147					7,147	7,147

CASH FLOW	2019	2020	2021	2022	2023	2024	Beyond 2024	Total
Project Costs ($000's)	-	16,113	-	-	-	-	-	16,113
Financed by:								
Cash to Capital		8,966						8,966
Federal Gas Tax		7,147						7,147

NET OPERATING IMPACT ($000's)	2019	2020	2021
Operating costs			
Debt and finance charges			
Transfer to General Capital Fund		8,966	
Total Direct Costs		8,966	
Less: Incremental Revenue/Recovery		381	
Net Cost/(Benefit)	-	8,585	-
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: 4

A development agreement payback is the required funding to enable the City to fulfill a Council approved contractual obligation for certain works constructed by the developer within the right-of-way or to obtain land required to establish or expand right-of-ways.

The current funding requirements are based on planning level assessments.

Funds will be allocated to:	2019	2020	2021	2022	2023	2024	Total
Kildare Avenue extension (AG 10/13)		16,113					16,113
	-	**16,113**	**-**	**-**	**-**	**-**	**16,113**

* N/A - No amounts have been included in the "Previous Budgets" due to this project's on-going nature.

Project Name: **Tuxedo Yards Development**

Standing Policy Committee: Property and Development, Heritage, and Downtown Development

Department: Public Works
Project: 1807000519
Service: Roadway Construction and Maintenance
OurWinnipeg: Opportunity

AUTHORIZATION	Previous Budgets	2019 Estimate	FORECAST 2020	2021	2022	2023	2024	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	17,319	3,741	-	-	-	-	-	-	3,741
Financed by:									
Economic Development Investment Reserve	9,219	3,741						-	3,741
Provincial Government Funding	8,000							-	-
Other	100							-	-

CASH FLOW	2019	2020	2021	2022	2023	2024	Beyond 2024	Total
Project Costs ($000's)	3,741	-	-	-	-	-	-	3,741
Financed by:								
Economic Development Investment Reserve	3,741							3,741

NET OPERATING IMPACT ($000's)	2019	2020	2021
Operating costs	3,741		
Debt and finance charges			
Transfer to General Capital Fund			
Total Direct Costs	3,741	-	-
Less: Incremental Revenue/Recovery	3,863		
Net Cost/(Benefit)	(122)	-	-
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: 1

On March 25, 2009, Council approved the recommendations contained in the "Tuxedo Yards Redevelopment" report and directed the Public Service to enter into a Strategic Economic Agreement with the Developer for the development of 1.5 million square feet of mixed-use commercial development at the southwest and northwest quadrants of Sterling Lyon Parkway and Kenaston Boulevard. Pursuant to this Agreement, the Developer was responsible for the financing of all costs of off-site infrastructure and servicing, any acquisitions of land required and of relocating Manitoba Hydro services located in City right-of-ways. Further, the Developer is entitled to recover from the City approximately $12 million of such costs (plus interest) subject to the conditions outlined in the Strategic Economic Agreement.

The Agreement also included provisions regarding the responsibility of the Developer for the acquisition of certain lands (to a maximum of $450,000) and the construction and/or modification of certain railway crossings (to a maximum of $500,000). The Agreement provided that these costs will be funded by the City of Winnipeg and deducted from the $12 million entitled to be recovered by the Developer.

On September 14, 2009, the City of Winnipeg (City) and the Province of Manitoba (Province) entered into the "Manitoba - Winnipeg Offsite Infrastructure Funding Agreement" whereby the Province provided $8 million in funding, paid in equal installments from 2010 to 2012, to the City. The City in turn paid the Developer the equivalent amount upon receipt of payment from the Province.

On November 16, 2011, Council approved that the 2011 capital budget be amended from $3.117 million to a total of $3.217 million with the additional $0.1 million to be funded by a contribution from Lehigh Cement Ltd. This $0.1 million together with the $8 million Provincial funding and the $6.775 million noted under "Authorization" above comprise the previous budgets amount of $14,875 million.

On March 22, 2018, Council approved that the expenditure of up to $1.25 million in 2018 prior to the adoption of the 2019 Capital Budget be authorized, as a first charge against the General Capital Fund, in accordance with Subsection 288(2) of the City of Winnipeg Charter, to pay the remaining portion of 2017 incremental municipal taxes plus interest to the developer, Minox Equities Ltd., in accordance with the September 2009 Strategic Economic Agreement related to the Tuxedo Yards Development. The actual first charge amount was $1.199 million that, combined with $2.542 million in estimated 2018 incremental municipal taxes plus interest, comprises the 2019 budget amount of $3.741 million.

Project Name: **Transportation Master Plan**

Standing Policy Committee: Infrastructure Renewal and Public Works

Department: Public Works
Project: 1833000119

Service: Transportation Planning and Traffic Management
OurWinnipeg: Sustainability

AUTHORIZATION	Previous Budgets	2019 Estimate	FORECAST 2020	2021	2022	2023	2024	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	N/A *	250	875	125	250	250	250	1,750	2,000
Financed by:									
Cash to Capital		250	875	125	250	250	250	1,750	2,000

CASH FLOW	2019	2020	2021	2022	2023	2024	Beyond 2024	Total
Project Costs ($000's)	213	781	238	231	250	250	37	2,000
Financed by:								
Cash to Capital	213	781	238	231	250	250	37	2,000

NET OPERATING IMPACT ($000's)	2019	2020	2021
Operating costs			
Debt and finance charges			
Transfer to General Capital Fund	250	875	125
Total Direct Costs	250	875	125
Less: Incremental Revenue/Recovery	7	25	8
Net Cost/(Benefit)	243	850	117
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: 3

Updating information that affects the recommendations in the TMP (Transportation Master Plan) is necessary to account for temporal changes in land use and transportation needs. This is also required to meet the needs of OurWinnipeg and Complete Communities.

* N/A - No amounts have been included in the "Previous Budgets" due to this project's on-going nature.

Project Name: **Traffic Signals Improvements**

Standing Policy Committee: Infrastructure Renewal and Public Works

Department: Public Works
Project: 1831100119

Service: Transportation Planning and Traffic Management
OurWinnipeg: Sustainability

AUTHORIZATION	Previous Budgets	2019 Estimate	FORECAST 2020	2021	2022	2023	2024	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	N/A*	1,030	688	342	-	-	-	1,030	2,060
Financed by:									
Frontage Levy			688	342				1,030	1,030
Internal Financing		1,030						-	1,030

CASH FLOW	2019	2020	2021	2022	2023	2024	Beyond 2024	Total
Project Costs ($000's)	875	740	394	51	-	-	-	2,060
Financed by:								
Frontage Levy		585	394	51				1,030
Internal Financing	875	155						1,030

NET OPERATING IMPACT ($000's)	2019	2020	2021
Operating costs	252	285	285
Debt and finance charges	96	210	228
Transfer to General Capital Fund			
Total Direct Costs	348	495	513
Less: Incremental Revenue/Recovery	28	24	13
Net Cost/(Benefit)	320	471	500
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: Not applicable, as this is a scalable program

This is an annual program which includes city-wide installation of:

- audible pedestrian signals following the 2008 agreement between the City of Winnipeg and the Human Rights Commission obligating the City to complete all installations by the year 2023. The installations are expected to be completed in 2021.
- pedestrian countdown signals following a successful pilot project completed in 2012.

* N/A - No amounts have been included in the "Previous Budgets" due to this project's on-going nature. This program was previously a sub-program of the Traffic Engineering Improvements program.

Project Name: **Traffic Signals Loops**

Standing Policy Committee: Infrastructure Renewal and Public Works

Department: Public Works
Project: 1831100219

Service: Transportation Planning and Traffic Management
OurWinnipeg: Sustainability

AUTHORIZATION	Previous Budgets	2019 Estimate	FORECAST 2020	2021	2022	2023	2024	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	N/A *	250	125	250	250	250	250	1,125	1,375
Financed by:									
Cash to Capital		250			250	250	250	750	1,000
Frontage Levy			125	250				375	375

CASH FLOW	2019	2020	2021	2022	2023	2024	Beyond 2024	Total
Project Costs ($000's)	212	144	231	250	250	250	38	1,375
Financed by:								
Cash to Capital	212	38		212	250	250	38	1,000
Frontage Levy		106	231	38				375

NET OPERATING IMPACT ($000's)	2019	2020	2021
Operating costs	23	31	31
Debt and finance charges			
Transfer to General Capital Fund	250		
Total Direct Costs	273	31	31
Less: Incremental Revenue/Recovery	7	5	8
Net Cost/(Benefit)	266	26	23
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: Not applicable, as this is a scalable program

This is an annual program which includes city-wide installation of vehicle detection loops in order to maintain proper (designed) operation of signalized intersections.

* N/A - No amounts have been included in the "Previous Budgets" due to this project's on-going nature.

Project Name: **Permanent Traffic Monitoring Stations**

Standing Policy Committee: Infrastructure Renewal and Public Works

Department: Public Works
Project: 1831200119

Service: Transportation Planning and Traffic Management
OurWinnipeg: Sustainability

AUTHORIZATION	Previous Budgets	2019 Estimate	FORECAST 2020	2021	2022	2023	2024	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	N/A *	945	623	-	-	-	-	623	1,568
Financed by:									
Cash to Capital		445						-	445
Internal Financing		500						-	500
Frontage Levy			623					623	623

CASH FLOW	2019	2020	2021	2022	2023	2024	Beyond 2024	Total
Project Costs ($000's)	803	672	93	-	-	-	-	1,568
Financed by:								
Cash to Capital	378	67						445
Internal Financing	425	75						500
Frontage Levy		530	93					623

NET OPERATING IMPACT ($000's)	2019	2020	2021
Operating costs	10	10	10
Debt and finance charges	46	102	111
Transfer to General Capital Fund	445		
Total Direct Costs	501	112	121
Less: Incremental Revenue/Recovery	26	22	3
Net Cost/(Benefit)	475	90	118
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: Not applicable, as this is a scalable program

This project is to implement a city wide traffic monitoring system that will include installation of permanent traffic monitoring stations with a live traffic flow map and database, to support active traffic management (by Traffic Monitoring Centre) and short/long term transportation, utilities & development planning (by Public Works, Water & Waste and Planning, Property and Development departments).

* N/A - No amounts have been included in the "Previous Budgets" due to this project's on-going nature.

Project Name: **Traffic Engineering Improvements - Various Locations**

Standing Policy Committee: Infrastructure Renewal and Public Works

Department: Public Works
Project: 1831000119

Service: Transportation Planning and Traffic Management
OurWinnipeg: Key Directions for the Entire City

AUTHORIZATION	Previous Budgets	2019 Estimate	FORECAST 2020	2021	2022	2023	2024	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	N/A *	1,575	950	1,900	1,300	1,900	1,900	7,950	9,525
Financed by:									
Cash to Capital					1,300	1,900	1,900	5,100	5,100
Frontage Levy			950	1,900				2,850	2,850
Internal Financing		1,575						-	1,575

CASH FLOW	2019	2020	2021	2022	2023	2024	Beyond 2024	Total
Project Costs ($000's)	1,339	1,044	1,757	1,390	1,810	1,900	285	9,525
Financed by:								
Cash to Capital				1,105	1,810	1,900	285	5,100
Frontage Levy		808	1,757	285				2,850
Internal Financing	1,339	236						1,575

NET OPERATING IMPACT ($000's)	2019	2020	2021
Operating costs	23	23	23
Debt and finance charges	146	322	348
Transfer to General Capital Fund			
Total Direct Costs	169	345	371
Less: Incremental Revenue/Recovery	44	34	57
Net Cost/(Benefit)	125	311	314
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: Not applicable, as this is a scalable program

This is an annual program which includes city-wide installation of:

- new full signals, half signals and pedestrian corridors based on priority warrant systems **
- roadside safety improvements
- traffic calming measures
- left turn signal phases
- traffic sign upgrades
- railway crossing safety improvements
- installation of permanent pavement markings
- research studies and operational reviews

* N/A - No amounts have been included in the "Previous Budgets" due to this project's on-going nature.

** Locations are submitted to Standing Policy Committee on Infrastructure Renewal and Public Works for approval prior to construction.

Project Name: **Inner-Ring Road - Functional Design**

Standing Policy Committee: Infrastructure Renewal and Public Works

Department: Public Works
Project: 1803000124

Service: Roadway Construction and Maintenance
OurWinnipeg: Key Directions for the Entire City

AUTHORIZATION	Previous Budgets	2019 Estimate	FORECAST 2020	2021	2022	2023	2024	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	-	-	-	-	-	-	1,000	1,000	1,000
Financed by:									
Cash to Capital							1,000	1,000	1,000

CASH FLOW	2019	2020	2021	2022	2023	2024	Beyond 2024	Total
Project Costs ($000's)	-	-	-	-	-	850	150	1,000
Financed by:								
Cash to Capital						850	150	1,000

NET OPERATING IMPACT ($000's)	2019	2020	2021
Operating costs			
Debt and finance charges			
Transfer to General Capital Fund			
Total Direct Costs	-	-	-
Less: Incremental Revenue/Recovery			
Net Cost/(Benefit)	-	-	-
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: 3

Commencement of a functional design study in 2024 to identify the requirements to achieve a limited access, high level of mobility Inner-Ring Road system utilizing roads within the Strategic Road Network as identified in the Transportation Master Plan.

Project Name: **Marion Street Improvements - Functional Design Study**

Standing Policy Committee: Infrastructure Renewal and Public Works

Department: Public Works
Project: 1803000319
Service: Roadway Construction and Maintenance
OurWinnipeg: Key Directions for Specific City Areas

AUTHORIZATION	Previous Budgets	2019	FORECAST 2020	2021	2022	2023	2024	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	-	917	-	-	-	-	-	-	917
Financed by:									
Transfer from Prior Year Authorization		917						-	917

CASH FLOW	2019	2020	2021	2022	2023	2024	Beyond 2024	Total
Project Costs ($000's)	779	138	-	-	-	-	-	917
Financed by:								
Transfer from Prior Year Authorization	779	138						917

NET OPERATING IMPACT ($000's)	2019	2020	2021
Operating costs			
Debt and finance charges			
Transfer to General Capital Fund			
Total Direct Costs	-	-	-
Less: Incremental Revenue/Recovery			
Net Cost/(Benefit)	-	-	-
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: 3

The Public Service conducted a functional design study to review the alignment for a widening and grade separation of Marion Street as directed by Council. The study was performed and it was concluded the results of the study were received as information by Council on November 16, 2017. Council directed the Public Service to investigate and report back on more affordable functional design options to improve transportation deficiencies along Marion Street between Lagimodiere Boulevard and Youville Street that do not include a grade separation or widening.

The Functional Design Study will focus on the following:

• Investigation of budget-conscious design solutions along Marion Street between Lagimodiere Boulevard and St. Mary's Road with a "complete streets" approach for the Marion/Goulet couplet.

• Localized improvements that can enhance safety, reduce congestion, and improve throughput for traffic at east end of corridor. Locations include

- o Marion/Goulet at Youville
- o Marion at Archibald
- o Marion at Lagimodiere and Lagimodiere at Dugald intersections

• Comprehensive public engagement to ensure community needs are met, including public participation in the scoping of the project pre-Request For Proposal.

Funding in 2019 includes budgeted amounts from previously authorized capital projects from 2013 and 2015 - see Appendix 4.

Project Name: **Regional and Local Street Renewal**

Standing Policy Committee: Infrastructure Renewal and Public Works

Department: Public Works
Project: 1804000119

Service: Roadway Construction and Maintenance
OurWinnipeg: Sustainability

AUTHORIZATION	Previous Budgets	2019 Estimate	FORECAST 2020	2021	2022	2023	2024	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	N/A *	86,436	111,622	154,136	164,536	147,236	137,836	715,366	801,802
Financed by:									
Federal New Building Canada Fund (Regional)		12,000	25,000	26,000	24,000	13,000		88,000	100,000
Federal Gas Tax (Local)		12,000	12,000	12,000	12,000	12,000	12,000	60,000	72,000
Province of Manitoba Accelerated Regional Roads**		17,000	15,000	29,100	29,100	9,800		83,000	100,000
Local Street Renewal Reserve		33,898	39,698	45,698	51,898	62,898	74,298	274,490	308,388
Regional Street Renewal Reserve		29,538	35,338	41,338	47,538	49,538	51,538	225,290	254,828
Reduction from the Regional and Local Street Reserves due to Province of Manitoba - 2018 Roads Funding Shortfall		(20,000)	(20,000)					(20,000)	(40,000)
Interim Financing		(4,000)						-	(4,000)
Prior Years Surplus		6,000	2,000					2,000	8,000
Developer Funding			2,586					2,586	2,586

CASH FLOW	2019	2020	2021	2022	2023	2024	Beyond 2024	Total
Project Costs ($000's)	73,321	107,932	152,186	162,976	146,936	137,776	20,675	801,802
Financed by:								
Federal New Building Canada Fund (Regional)	10,200	23,050	25,850	24,300	14,650	1,950		100,000
Federal Gas Tax (Local)	10,200	12,000	12,000	12,000	12,000	12,000	1,800	72,000
Province of Manitoba Accelerated Regional Roads**	17,000	15,000	29,100	29,100	9,800			100,000
Local Street Renewal Reserve	28,813	38,828	44,798	50,968	61,248	72,588	11,145	308,388
Regional Street Renewal Reserve	25,108	34,468	40,438	46,608	49,238	51,238	7,730	254,828
Reduction from the Regional and Local Street Reserves due to Province of Manitoba - 2018 Roads Funding Shortfall	(20,000)	(20,000)						(40,000)
Interim Financing	(4,000)							(4,000)
Prior Year Surplus	6,000	2,000						8,000
Developer Funding		2,586						2,586

NET OPERATING IMPACT ($000's)	2019	2020	2021
Operating costs			
Debt and finance charges			
Transfer to General Capital Fund			
Total Direct Costs	-	-	-
Less: Incremental Revenue/Recovery	1,318	1,706	1,905
Net Cost/(Benefit)	(1,318)	(1,706)	(1,905)
Incremental Full Time Equivalent Positions	-	-	-

Regional and Local Street Renewal (continued):

Class Estimate: Not applicable, as this is a scalable program

Projects in 2019 will not proceed to construction until a class 3 estimate is obtained.

Any surplus funds will automatically be transferred to the following years Regional and Local Street Renewal Program Budget.

* N/A - No amounts have been included in the "Previous Budgets" due to this projects on-going nature.

** To be confirmed as there as uncertainty regarding provincial funding.

Regional Street Renewal Program

The Regional Street Renewal program includes the renewal and reconstruction of the City's regional streets, sidewalks and recreational walkways/paths, as well as incorporating pedestrian and cycling facilities on regional street renewal projects where identified in the Winnipeg Pedestrian and Cycling Strategies. The program also funds the condition rating of regional streets. The purpose of this program is to maintain the level of service, structural integrity, and rideability of the transportation infrastructure network.

On May 14, 2008, Council concurred in the recommendation that a policy be adopted to incorporate Active Transportation facilities into any reconstruction or rehabilitation required on any infrastructure identified as an Active Transportation facility in the Proposed Active Transportation Network. On July 15, 2015, Council adopted the Pedestrian and Cycling Strategies as the long range pedestrian and cycling transportation policy for the City of Winnipeg. Depending on the proposed street renewal treatment and the planning and priority status of the proposed pedestrian and / or cycling facility, the Regional Street Renewal program may implement the intention of the Winnipeg Pedestrian and Cycling Strategies.

All Regional Street Renewal projects have a warranty period after substantial completion and/or in-service date for which costs may be incurred by the City. The Director of Public Works is authorized to establish projects to a maximum of $100,000 each to charge costs associated with warranty work should the related Regional Streets project be closed. The capital budget for the new project will be allocated from other surpluses within the program.

Any new projects using surplus funds in the 2019 Regional Street Renewal Program shall be approved by the Standing Policy Committee on Infrastructure Renewal and Public Works.

A Regional Street Renewal Reserve was established in 2014 to increase investment in regional streets. A separate 1% property tax increase will continually fund this reserve each year to ensure a dedicated funding stream for regional streets.

Use of the Regional Street Renewal Reserve for purposes other than regional street or sidewalk renewals requires approval of 2/3 of City Council.

On December 12, 2017 Council authorized:

a first charge of up to $2.5 million in 2018 or prior to the adoption of the 2019 Capital Budget to facilitate timely work on the Empress St / Empress St E / Westway / Eastway - St Matthews to Portage regional street renewal project;

a first charge of up to $7.6 million in 2018 or prior to the adoption of the 2019 Capital Budget to facilitate timely work on the Fermor Avenue - St Anne's to Archibald regional street renewal project; and

a first charge of up to $4.8 million in 2018 or prior to the adoption of the 2019 Capital Budget to facilitate timely work on the Garry/Notre Dame - Notre Dame to Assiniboine/Portage to Princess regional street renewal project.

With the adoption of the 2019 Capital Budget Council authorizes first charges to facilitate timely delivery of these projects:

up to $1.700 million in 2019 on the 2020 Broadway, Portage, etc. accelerated regional street renewal project;

up to $0.250 million in 2019 on the 2020 Archibald accelerated regional street renewal project;

up to $0.750 million in 2019 on the 2020 Watt, Munroe, Johnson, accelerated regional street renewal project;

up to $1.400 million in 2019 on the 2020 Stafford, Taylor, Corydon accelerated regional street renewal project;

up to $2.200 million in 2019 on the 2020 Erin, Wall, Sargent accelerated regional street renewal project;

up to $0.400 million in 2019 on the 2020 Roblin accelerated regional street renewal project;

up to $6.7 million in 2019 on the 2020 Dublin Ave - Notre Dame to St. James accelerated regional street renewal project;

up to $2.7 million in 2019 on the 2020 St. James St. – Dublin to Saskatchewan accelerated regional street renewal project; and

up to $12.186 million in 2019 on the 2020 Fermor Ave - Lagimodiere to Plessis accelerated regional street renewal project which includes Developer Funding in the amount of $2.586 million that covers on demand payment for the Development Charge for Regional Streets and the estimated cost to construct auxiliary lanes and miscellaneous improvements,

Regional and Local Street Renewal (continued):

On March 22, 2018 the City received approval in principle from the Province and on September 4, 2018 received approval in principle from the Federal Government indicating the federal and provincial contributions towards the Accelerated Regional Renewals Application will be in the order of $100 million from each over 5 years (2019 to 2023).

See next pages for program details.

Local Street Renewal Program

Local streets are all non-regional streets including residential streets, collector streets, industrial streets, and parks roads. The Local Street Renewal program includes the renewal and reconstruction of the City's local streets, sidewalks, lanes, and recreational walkways/paths, as well as constructing new sidewalks on local street renewal projects where identified in the Winnipeg Pedestrian and Cycling Strategies or where the terms for New Non-Regional Sidewalks under the Pedestrian and Cycling Program are met. The program also funds the condition rating of streets, sidewalks, lanes and recreation walkways/paths. The purpose of this program is to maintain the level of service, structural integrity, and rideability of the transportation infrastructure network.

On May 14, 2008, Council concurred in the recommendation that a policy be adopted to incorporate Active Transportation facilities into any reconstruction or rehabilitation required on any infrastructure identified as an Active Transportation facility in the Proposed Active Transportation Network. On July 15, 2015, Council adopted the Pedestrian and Cycling Strategies as the long range pedestrian and cycling transportation policy for the City of Winnipeg. Depending on the proposed street renewal treatment and the planning and priority status of the proposed sidewalk, the Local Street Renewal program may include new sidewalks where identified in the Winnipeg Pedestrian and Cycling Strategies or where the terms for New Non-Regional Sidewalks under the Pedestrian and Cycling Program are met.

This program also includes funding for improving granular surface roadways that are functioning as collector-type streets and/or have significant traffic volumes and will focus on Type II Road Oiling Surface Treatment as the upgrade.

On November 20, 2013 Council amended the Local Improvement process by creating a pilot project for six years (2014-2019) whereby the City of Winnipeg will finance asphalt paving of granular lanes as local improvements to the maximum of 50% of the cost of the improvement; and approved that the $1 million Granular Lane Fund be used as a funding source for the City's share of the amended Local Improvement Program. Due to the loss of Provincial funding, $700,000 has been allocated to this program in 2019. Further investment of $900,000 in 2020 and $1 million per year is included from 2021 to 2024.

On March 22, 2018, Council authorized a first charge of up to $8.86 million in 2018 prior to the adoption of the 2019 capital budget for timely delivery of projects associated with the 2018/2019 Local Street Renewal Program - Industrial/Commercial Streets contracts.

All Local Street Renewal projects have a warranty period after substantial completion and/or in-service date for which costs may be incurred by the City. The Director of Public Works is authorized to establish projects to a maximum of $100,000 each to charge costs associated with warranty work should the related Local Streets project be closed. The capital budget for the new project will be allocated from other surpluses within the program.

Any new projects using surplus funds in the 2019 Local Street Renewal Program shall be approved by the Standing Policy Committee on Infrastructure Renewal and Public Works.

A Local Street Renewal Reserve was established in 2013 to increase investment in local streets, lanes and sidewalks. A separate 1% property tax increase will ensure a dedicated funding stream for local streets.

Use of the Local Street Renewal Reserve for purposes other than local streets, lanes, or sidewalk renewals requires approval of 2/3 of City Council.

Interim financing of $4 million in 2019 will fund the City's share of the work on the 2017 Chevrier Boulevard and Waverley Pathway Extension project which is jointly funded with the Federal Government.

See next pages for program details.

Regional and Local Street Renewal (continued):

REGIONAL STREET RENEWAL PROGRAM Authorization ($000's)	2019	2020	2021	2022	2023	2024	Six-Year Total
ACCELERATED REGIONAL STREET RENEWAL (NBCF APPLICATION):							
Funding							
- Federal New Building Canada Fund (NBFC)	12,000	25,000	26,000	24,000	13,000		100,000
- Province of Manitoba Accelerated Regional Roads	17,000	15,000	29,100	29,100	9,800		100,000
- Regional Street Renewal Reserve	12,000	25,000	26,000	24,000	13,000		100,000
- Developer Funding		2,586					2,586
- Regional Street Renewal Reserve Ineligibles	3,800	3,800	3,400	3,300	1,600		15,900
Sub-total Accelerated Regional Streets Renewal	**44,800**	**71,386**	**84,500**	**80,400**	**37,400**	**-**	**318,486**
Regional Reconstruction & Major Rehabilitation Works:							
Ellice Ave - Arlington to Maryland	3,100						3,100
Inkster Blvd - Fife to Milner	4,600						4,600
Main St NB - McAdam Ave to Kildonan Park golf course	6,500						6,500
Roblin Blvd WB - Shaftesbury to Assiniboine Park Drive	4,900						4,900
York Ave - Osborne to Memorial	800						800
Colony St - Portage to Ellice	1,800						1,800
Memorial Blvd NB - St Mary to Portage Ave	1,000						1,000
Memorial Blvd - York to St Mary Ave	1,600						1,600
Corydon Ave WB - Cordova St to Lanark St	2,200						2,200
Corydon Av EB - Borebank St to Brock St	1,100						1,100
Fermor Ave - Lagimodiere to Plessis	9,800	12,186					21,986
Downtown Streets:	1,500	8,000	8,900	7,400	7,000		32,800
Broadway - Osborne to Main							
Portage - Main to Memorial							
Donald - St Mary to Gertrude							
Fort NB - Graham to Broadway							
Hargrave NB - Portage to Ellice							
Hargrave NB - Broadway to York							
Smith NB - Notre Dame to Midtown Bridge							
Carlton St - Portage to Ellice							
Dublin Ave - Notre Dame to St James		6,700					6,700
St James St - Dublin to Saskatchewan		2,700					2,700
Maryland St - Fawcett Ave to Maryland Bridge		3,400					3,400
Leila Ave - McPhillips to McGregor				6,200			6,200
Day St / Pandora Ave:		250	4,650				4,900
Day St - Pandora to Regent							
Pandora Ave E - Day to Wayoata							
Dunkirk Dr - Fermor to St Mary's Rd		350	6,200				6,550
Roblin Blvd - Dieppe to PTH101	400	4,000	4,450				8,850
Archibald Street:	1,250	4,700	4,900	4,900			15,750
Archibald St - St Catherine to Cottonwood							
Archibald St - Plinguet to Doucet							
Watt St / Munroe Ave / Johnson Ave W:	1,250	4,800	4,850	4,900	4,000		19,800
Watt St - Chalmers to Munroe							
Munroe Ave - Raleigh to Henderson							
Johnson Ave W - Levis St to Henderson Hwy							

Regional and Local Street Renewal (continued):

REGIONAL STREET RENEWAL PROGRAM Authorization ($000's)	2019	2020	2021	2022	2023	2024	Six-Year Total
Stafford St / Taylor Ave / Corydon Ave:	1,300	6,700	7,000	7,300	4,700		27,000
Stafford St - Corydon to Pembina Taylor Ave - Wilton to Pembina Corydon EB - Waterloo to Cambridge Corydon Ave - Cambridge to Stafford							
Erin St / Wall St / Sargent Ave:	1,300	8,300	9,100	9,700	8,000		36,400
Erin St - Notre Dame to Wolever Wall St - St Matthews to Notre Dame Sargent Ave - Arlington to Erin							
Salter St - Dufferin to Mountain		400	6,900				7,300
Portage Ave EB - Woodlawn St to Garden Rd		500	6,000				6,500
Pembina Hwy - Des Trappistes St to Ducharme Ave		300	2,600				2,900
Lagimodiere Blvd - Springfield to 200m S of Headmaster		500	4,500				5,000
Sargent Ave - Empress to St James		300	2,500				2,800
Selkirk Ave - Arlington to McPhillips		700	3,000	3,580			7,280
Pembina Hwy - McGillivray to Chevrier		900		8,600			9,500
Keewatin St NB - Inkster to Adsum		500		4,150			4,650
Pioneer Ave - Westbrook to Main		200		1,700			1,900
William Stephenson Way - Main to Westbrook		100		820			920
Stradbrook Ave - Wellington Cr to Osborne		100		800			900
Sturgeon Rd - Ness Ave to Hallonquist		200		1,900			2,100
Colony St / St. Mary Ave:		300		2,700			3,000
Colony St - Portage to St Mary St Mary Ave - Memorial to Portage							
Nairn Ave - Stadacona to Watt		600		5,400			6,000
William Ave - Arlington St to McPhillips St		150		1,450			1,600
Jubilee Ave - Osborne to Pembina		900		4,400	4,000		9,300
Mountain Ave - Arlington to McPhillips			1,000	4,500	5,000		10,500
McGregor Ave - Seven Oaks to McAdam			250		2,250		2,500
McGregor St - Church to Mountain			250		2,450		2,700
Regional Mill and Fill / Overlay Preservation Works							
Memorial Blvd SB - Portage to St Mary	400						400
Portage Ave WB - David to St Charles		900					900
Lagimodiere Blvd SB - Reenders Dr to Regent Ave W		500					500
St James St - Notre Dame to Omand's Creek		500					500
Keewatin St - Selkirk to Logan Ave		300	2,800				3,100
King Edward St - Park Lane to Logan Ave		150	1,450				1,600
Regent Ave W - Plessis to Rougeau		300	3,200				3,500
Total Accelerated Regional Street Renewal Program	**44,800**	**71,386**	**84,500**	**80,400**	**37,400**	**-**	**318,486**

Regional and Local Street Renewal (continued):

REGIONAL STREET RENEWAL PROGRAM Authorization ($000's)	2019	2020	2021	2022	2023	2024	Six-Year Total
NON-ACCELERATED REGIONAL STREET RENEWAL:							
Funding							
- Regional Street Renewal Reserve	13,738	6,538	11,938	20,238	34,938	51,538	138,928
- Province of Manitoba - Roads 2018 Shortfall		(6,538)					(6,538)
- Prior Years Surplus	6,000	2,000				-	8,000
Total Funding Non-accelerated Regional Street Renewal	**19,738**	**2,000**	**11,938**	**20,238**	**34,938**	**51,538**	**140,390**
Regional Reconstruction & Major Rehabilitation Works:							
Empress St / Empress St E / Westway / Eastway - St Matthews to Portage	2,500						2,500
Garry/Notre Dame - Notre Dame to Assiniboine/Portage to Princess	4,800						4,800
St James St - Sargent to Ellice	2,000						2,000
Fermor Ave - St Anne's to Archibald	7,600						7,600
Henderson Hwy - N of Gilmore to City Limit (Preliminary Design)			700				700
Portage Ave EB - St Charles to David	250		2,150				2,400
Henderson Hwy SB - McLeod to Leighton		150	1,250				1,400
University Cr - Pembina to Chancellor Matheson			4,000	5,900			9,900
Grant Ave EB - Lanark to Montrose / Grant WB - Montrose to Queenston			900	4,900	3.600		9,400
Salter St - Inkster to Jefferson				500	5,100		5,600
Logan Ave - Disraeli Fr to Main				200	2,100		2,300
Selkirk Ave - Main to Salter				550	5,500		6,050
St Anne's Rd - St Mary's to Fermor				500	4,800		5,300
Dakota St - St Mary's to Bishop Grandin				300	1,900		2,200
Des Meurons St - Goulet to Marion / Goulet WB - Youville to Braemar				200	1,500		1,700
Lagimodiere Blvd NB - Fermor to Cottonwood				250	2,250		2,500
Sargent Ave - Edmonton to Furby / Edmonton St - Sargent to Ellice				200	2,700		2,900
McPhillips St SB - Machray to Mountain				100	1,100		1,200
Empress St - St Matthews to Saskatchewan (Preliminary Design)					400		400
Inkster Blvd - Arlington St to McKenzie St				200	1,000		1,200
Regional Mill and Fill Preservation Works:							
Lagimodiere Blvd NB - Regent Ave W to Almey	100	600					700
Regional Accessibility Improvements:							
Regional Sidewalk and Curb Renewals	500	500	500	500	500	500	3,000
Regional Paving of Granular Shoulders	250	250	250	250	250	250	1,500
Detectable Warning Surface Tiles - Regional Streets	100	100	100	100	100	100	600
Downtown Streets:							
Sidewalk, Curb, and Street Renewals	1,500	300	1,500	1,500	1,500	1,500	7,800
Regional Provisional Maintenance:							
Kenaston Blvd - Ness to Taylor	100	100	100	100	100	100	600
Regional Street Renewals - Annual Program - Various locations to be identified.	38		488	3,988	538	49,088	54,140
Total Non-accelerated Regional Street Renewal Program	**19,738**	**2,000**	**11,938**	**20,238**	**34,938**	**51,538**	**140,390**
Total Accelerated and Non-accelerated Regional Street Renewal Program	**64,538**	**73,386**	**96,438**	**100,638**	**72,338**	**51,538**	**458,876**

Regional and Local Street Renewal (continued):

LOCAL STREET RENEWAL PROGRAM Authorization ($000's)	2019	2020	2021	2022	2023	2024	Six-Year Total
Funding							
- Local Street Renewal Reserve	33,898	39,698	45,698	51,898	62,898	74,298	308,388
- Federal Gas Tax	12,000	12,000	12,000	12,000	12,000	12,000	72,000
- Province of Manitoba - Roads 2018 Shortfall	(20,000)	(13,462)					(33,462)
- Interim Financing Repayment	(4,000)						(4,000)
Total Local Street Renewal	**21,898**	**38,236**	**57,698**	**63,898**	**74,898**	**86,298**	**342,926**
Local Street Renewals	14,533	28,966	42,748	53,348	64,348	75,748	279,691
Local Thin Bituminous Overlay (TBO)	3,000	5,000	5,000	5,000	5,000	5,000	28,000
Granular Roadway Improvements:							
- Type II Road Oiling	500	500	500	500	500	500	3,000
- Granular Lane Improvement Program	700	900	1,000	1,000	1,000	1,000	5,600
- Waverley Street - Grandmont to the City Limit	1,500	1,000					2,500
Sub-total Granular Roadway Improvements	2,700	2,400	1,500	1,500	1,500	1,500	11,100
Lanes, Sidewalks, & Active Transportation Renewals:							
- Lane Renewals - Engineering Design (2019) & Various Locations	365	570	7,150	2,750	2,750	2,750	16,335
- Sidewalk Renewals on Local Streets - Various Locations	800	800	800	800	800	800	4,800
- Recreational Walkways and Bike Pathway Renewals	500	500	500	500	500	500	3,000
Sub-total Lanes, Sidewalks & Active Transportation Renewals	1,665	1,870	8,450	4,050	4,050	4,050	24,135
Total Local Street Renewal Program	**21,898**	**38,236**	**57,698**	**63,898**	**74,898**	**86,298**	**342,926**
Total Regional and Local Street Renewal Program	**86,436**	**111,622**	**154,136**	**164,536**	**147,236**	**137,836**	**801,802**

Project Name: **Fermor Avenue Bridge (Seine River)**

Standing Policy Committee: Infrastructure Renewal and Public Works

Department: Public Works
Project: 1805001916

Service: Roadway Construction and Maintenance
OurWinnipeg: Sustainability

AUTHORIZATION	Previous Budgets	2019 Estimate	FORECAST 2020	2021	2022	2023	2024	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	6,300	4,600	-	-	-	-	-	-	4,600
Financed by:									
Cash to Capital		250						-	250
Frontage Levy		4,350						-	4,350

CASH FLOW	2019	2020	2021	2022	2023	2024	Beyond 2024	Total
Project Costs ($000's)	3,910	690	-	-	-	-	-	4,600
Financed by:								
Cash to Capital	212	38						250
Frontage Levy	3,698	652						4,350

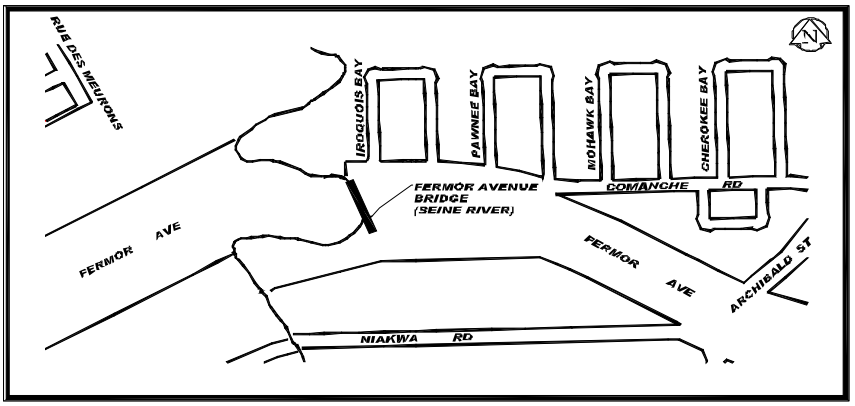
NET OPERATING IMPACT ($000's)	2019	2020	2021
Operating costs			
Debt and finance charges			
Transfer to General Capital Fund	250		
Total Direct Costs	250	-	-
Less: Incremental Revenue/Recovery	127	22	
Net Cost/(Benefit)	123	(22)	-
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: 3

This project includes rehabilitation of the Fermor Avenue Bridge over the Seine River, and reconstruction of Fermor Avenue between St. Anne's Road and Archibald Street funded by the Regional and Local Street Renewal program. Renewal of active transportation pathways and the provision of a pedestrian-cycling underpass under Fermor Avenue west of the Seine River is included. Preliminary design was carried out in 2016 and was completed in early 2017. Detailed design commenced in 2017 and was completed in early 2018. Construction will be staged over 2018 and 2019.

On December 12, 2017 Council authorized a first charge of up to $5.1 million in 2018 or prior to the adoption of the 2019 Capital Budget to facilitate timely delivery of the project. The total first charge authorized is $12.7 million ($5.1 million Fermor Avenue Bridge and $7.6 million Regional and Local Street Renewal).

The rehabilitated bridge is expected to provide service for 50 years.



Project Name: **Osborne Street Underpass**

Standing Policy Committee: Infrastructure Renewal and Public Works

Department: Public Works
Project: 1805002324

Service: Roadway Construction and Maintenance
OurWinnipeg: Sustainability

AUTHORIZATION	Previous Budgets	2019 Estimate	FORECAST 2020	2021	2022	2023	2024	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	-	-	-	-	-	-	1,100	1,100	1,100
Financed by:									
Frontage Levy							1,100	1,100	1,100

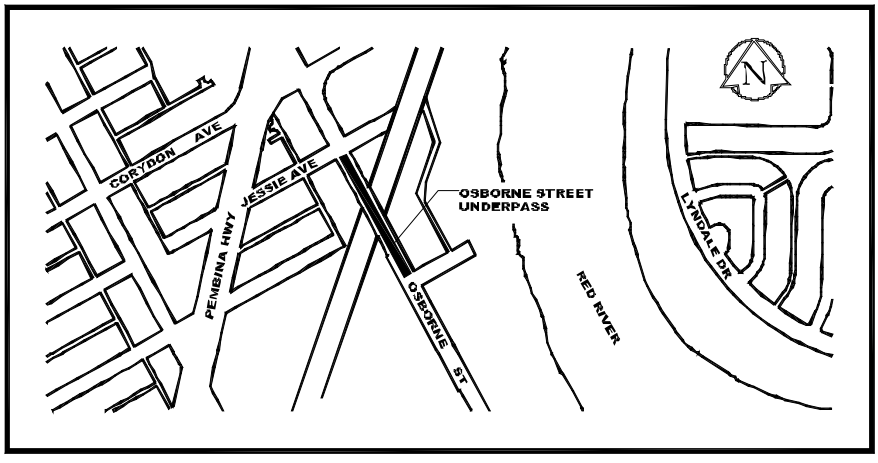
CASH FLOW	2019	2020	2021	2022	2023	2024	Beyond 2024	Total
Project Costs ($000's)	-	-	-	-	-	1,100	-	1,100
Financed by:								
Frontage Levy						1,100		1,100

NET OPERATING IMPACT ($000's)	2019	2020	2021
Operating costs			
Debt and finance charges			
Transfer to General Capital Fund			
Total Direct Costs	-	-	-
Less: Incremental Revenue/Recovery			
Net Cost/(Benefit)	-	-	-
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: 4

This project involves undertaking a conceptual study and preliminary design of the widening of the Osborne Street Underpass under the CNR Rivers rail line to rehabilitate the structure and upgrade it to accommodate pedestrian-cycling pathways. The project likely will not proceed to detailed design until the pedestrian cycling network north past Confusion Corner and south to the St. Vital Bridge is determined and becomes a priority to construct.

Full project financing including detailed design for the potential reconstruction/widening will require commitments from other levels of government.



Project Name: **Dublin Avenue Bridge (Omand's Creek)**

Standing Policy Committee: Infrastructure Renewal and Public Works

Department: Public Works
Project: 1805002118

Service: Roadway Construction and Maintenance
OurWinnipeg: Sustainability

AUTHORIZATION	Previous Budgets	2019 Estimate	FORECAST 2020	2021	2022	2023	2024	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	700	700	3,300	-	-	-	-	3,300	4,000
Financed by:									
Frontage Levy		700	3,300					3,300	4,000

CASH FLOW	2019	2020	2021	2022	2023	2024	Beyond 2024	Total
Project Costs ($000's)	700	3,300	-	-	-	-	-	4,000
Financed by:								
Frontage Levy	700	3,300						4,000

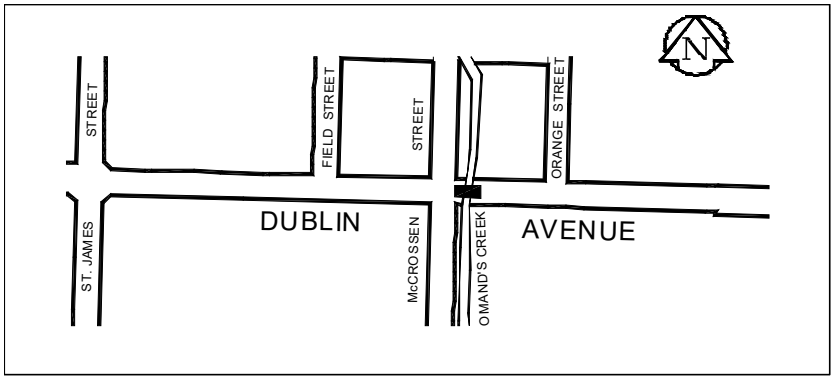
NET OPERATING IMPACT ($000's)	2019	2020	2021
Operating costs			
Debt and finance charges			
Transfer to General Capital Fund			
Total Direct Costs	-	-	-
Less: Incremental Revenue/Recovery		107	
Net Cost/(Benefit)	-	(107)	-
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: 3 applies to preliminary & detailed design only

This project includes the replacement of the Dublin Avenue Bridge over Omand's Creek and the reconstruction of Dublin Avenue between Notre Dame Avenue and St James Street, and the rehabilitation of St. James Street from Dublin to Saskatchewan, funded by the Regional and Local Street Renewal program. Preliminary and detailed design will be completed by 2019, and construction will commence in 2020.

With the adoption of the 2019 Capital Budget Council authorizes a first charge of up to $3.3 million in 2019 or prior to the adoption of the 2020 Capital Budget to allow for the timely delivery of this project.

The replacement bridge is expected to provide service for 75 years.



Project Name: **Sherwin Road Bridge (Omand's Creek)**

Standing Policy Committee: Infrastructure Renewal and Public Works

Department: Public Works
Project: 1805002419

Service: Roadway Construction and Maintenance
OurWinnipeg: Sustainability

AUTHORIZATION	Previous Budgets	2019 Estimate	FORECAST 2020	2021	2022	2023	2024	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	-	700	1,400	1,400	-	-	-	2,800	3,500
Financed by:									
Frontage Levy		700	1,400	1,400				2,800	3,500

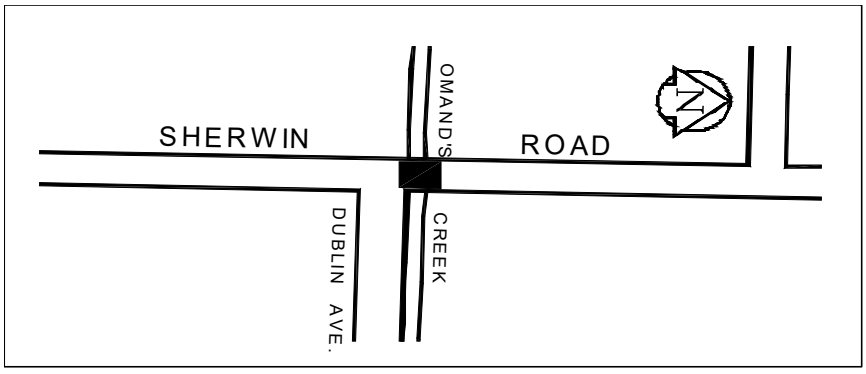
CASH FLOW	2019	2020	2021	2022	2023	2024	Beyond 2024	Total
Project Costs ($000's)	595	1,295	1,400	210	-	-	-	3,500
Financed by:								
Frontage Levy	595	1,295	1,400	210				3,500

NET OPERATING IMPACT ($000's)	2019	2020	2021
Operating costs			
Debt and finance charges			
Transfer to General Capital Fund			
Total Direct Costs	-	-	-
Less: Incremental Revenue/Recovery		42	46
Net Cost/(Benefit)	-	(42)	(46)
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: 4 applies to preliminary & detailed design only

This project will replace the existing corrugated steel pipe culvert at Sherwin Road and Omand's Creek with a new cast-in-place box culvert. Improvement of the intersection at Sherwin Road and Dublin Avenue is included. Preliminary and detailed design will be completed in 2019 and construction will occur in 2021 with tendering in fall of 2020. Construction will not proceed until a class 3 estimate is obtained. Project will include associated roadworks funded by 2020 Local Street Renewal budget.

The new culvert is expected to provide service for 75 years.



Project Name: **Pembina Highway Overpass (Bishop Grandin) Rehabilitation**

Standing Policy Committee: Infrastructure Renewal and Public Works

Department: Public Works
Project: 1805002520

Service: Roadway Construction and Maintenance
OurWinnipeg: Sustainability

AUTHORIZATION	Previous Budgets	2019 Estimate	FORECAST 2020	2021	2022	2023	2024	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	-	-	950	2,000	8,000	7,700	-	18,650	18,650
Financed by:									
Cash to Capital					2,000	2,700		4,700	4,700
Frontage Levy			950	2,000	6,000	5,000		13,950	13,950

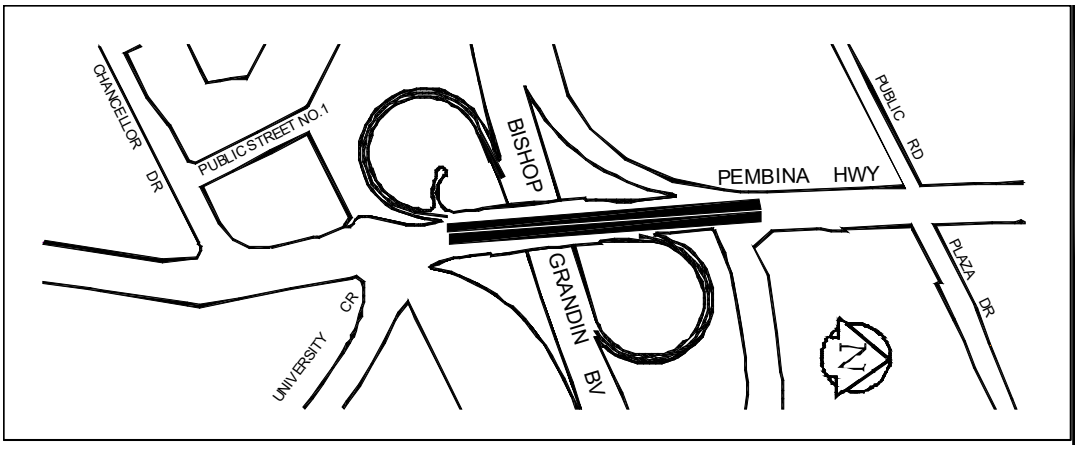
CASH FLOW	2019	2020	2021	2022	2023	2024	Beyond 2024	Total
Project Costs ($000's)	-	807	1,843	7,100	7,745	1,155	-	18,650
Financed by:								
Cash to Capital				1,700	2,595	405		4,700
Frontage Levy		807	1,843	5,400	5,150	750		13,950

NET OPERATING IMPACT ($000's)	2019	2020	2021
Operating costs			
Debt and finance charges			
Transfer to General Capital Fund			
Total Direct Costs	-	-	-
Less: Incremental Revenue/Recovery			
Net Cost/(Benefit)	-	-	-
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: 4 applies to preliminary & detailed design only

The overpass on Pembina Highway over Bishop Grandin requires bridge deck rehabilitation including reconstruction of the exit loop ramps. Construction of a pedestrian-cycling overpass over Pembina Highway connecting legs of the Bishop Grandin Greenway is included. Funding shown in 2020 is for preliminary design. Funding in 2021 is for detailed design. Construction is expected to be staged over two years in 2022 and 2023.

The rehabilitated structure will provide an additional 50 years of service life and the new pedestrian overpass structure will provide service life of 75 years.



Project Name: **Kenaston / Route 90 Widening and St. James Bridges (formerly St. James Bridge South Bound)**

Standing Policy Committee: Infrastructure Renewal and Public Works

Department: Public Works
Project: 1805001317

Service: Roadway Construction and Maintenance
OurWinnipeg: Key Directions for Specific City Areas

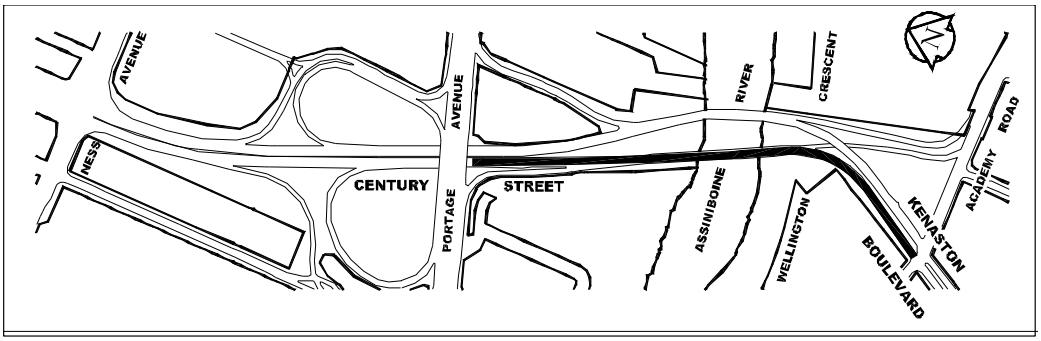
AUTHORIZATION	Previous Budgets	2019 Estimate	FORECAST 2020	2021	2022	2023	2024	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	3,245	2,163	-	-	-	-	-	-	2,163
Financed by:									
Frontage Levy		2,163						-	2,163

CASH FLOW	2019	2020	2021	2022	2023	2024	Beyond 2024	Total
Project Costs ($000's)	1,839	324	-	-	-	-	-	2,163
Financed by:								
Frontage Levy	1,839	324						2,163

NET OPERATING IMPACT ($000's)	2019	2020	2021
Operating costs			
Debt and finance charges			
Transfer to General Capital Fund			
Total Direct Costs	-	-	-
Less: Incremental Revenue/Recovery	60	11	
Net Cost/(Benefit)	(60)	(11)	-
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: 4 applies to detailed design only

The project name has been updated to "Kenaston/Route 90 Widening and St. James Bridges" from "St. James Bridge South Bound". Rehabilitation of the southbound structure in its current configuration would not be proceed as it would be an uncesessary cost when the structure would have to be reconfigured to fit in the widening project. This project includes the preliminary design of the widening of Kenaston / Route 90 from Taylor Avenue to Ness Avenue and the rehabilitation, reconfiguration, and widening of the St. James Southbound and Northbound Bridges over the Assiniboine River project in the amount of $3.245 million (previous budget). Funding of $2.163 million in 2019 will be used for maintenance as required to keep the bridges safe and functional and for possible key property acquistions including the rail bridge located immediately east of the northbound structure. Funding for the entire Kenaston / Route 90 widening has a Class 5 cost estimate of $450 million with an earliest project commencement date of 2020.



Project Name: **St. Vital Bridge Rehabilitation**

Standing Policy Committee: Infrastructure Renewal and Public Works

Department: Public Works
Project: 1805002722

Service: Roadway Construction and Maintenance
OurWinnipeg: Sustainability

AUTHORIZATION	Previous Budgets	2019 Estimate	FORECAST 2020	2021	2022	2023	2024	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	-	-	-	-	2,000	3,000	16,800	21,800	21,800
Financed by:									
Cash to Capital							9,900	9,900	9,900
Frontage Levy					2,000	3,000	6,900	11,900	11,900

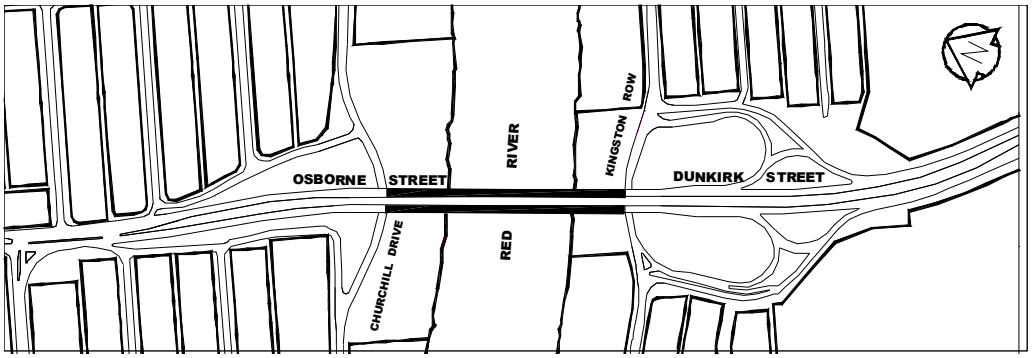
CASH FLOW	2019	2020	2021	2022	2023	2024	Beyond 2024	Total
Project Costs ($000's)	-	-	-	1,700	2,850	14,730	2,520	21,800
Financed by:								
Cash to Capital						8,415	1,485	9,900
Frontage Levy				1,700	2,850	6,315	1,035	11,900

NET OPERATING IMPACT ($000's)	2019	2020	2021
Operating costs			
Debt and finance charges			
Transfer to General Capital Fund			
Total Direct Costs	-	-	-
Less: Incremental Revenue/Recovery			
Net Cost/(Benefit)	-	-	-
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: 4 applies to preliminary & detailed design only

The St. Vital Bridge (Red River) connecting Osborne Street to Dunkirk Drive will require bridge deck rehabilitation including marginal widening to better accommodate pedestrian and cycling requirements. Funding shown in 2022 is for preliminary design. Funding identified in 2023 is for detailed design. Construction is expected to be staged over a two year period.

The rehabilitated structure will provide an additional 50 years of service life.



Project Name: **Lagimodiere Twin Overpasses Rehabilitation (Concordia Avenue & CPR Keewatin)**

Standing Policy Committee: Infrastructure Renewal and Public Works

Department: Public Works
Project: 1805002123

Service: Roadway Construction and Maintenance
OurWinnipeg: Sustainability

AUTHORIZATION	Previous Budgets	2019 Estimate	FORECAST 2020	2021	2022	2023	2024	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	-	-	-	-	-	1,000	2,000	3,000	3,000
Financed by:									
Cash to Capital						1,000	2,000	3,000	3,000

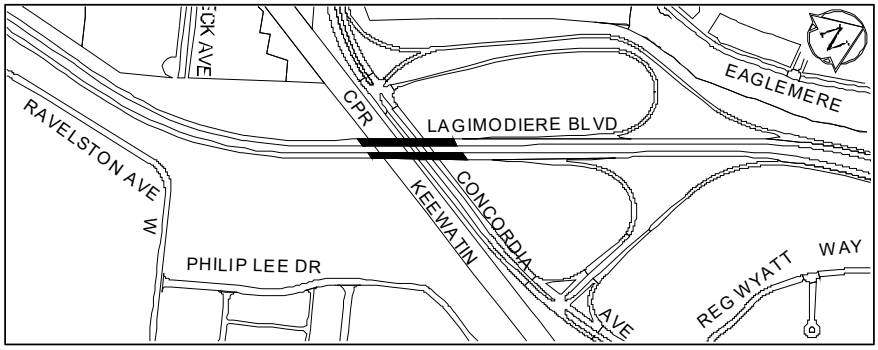
CASH FLOW	2019	2020	2021	2022	2023	2024	Beyond 2024	Total
Project Costs ($000's)	-	-	-	-	850	1,850	300	3,000
Financed by:								
Cash to Capital					850	1,850	300	3,000

NET OPERATING IMPACT ($000's)	2019	2020	2021
Operating costs			
Debt and finance charges			
Transfer to General Capital Fund			
Total Direct Costs	-	-	-
Less: Incremental Revenue/Recovery			
Net Cost/(Benefit)	-	-	-
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: 4 applies to preliminary & detailed design only

This project includes major rehabilitation of the Lagimodiere Twin Overpasses over Concordia Avenue and the CPR Keewatin rail lines. Funding identified in 2023 is for preliminary design. Detailed design will occur in 2024. Construction is expected to be staged over a two year period.

The rehabilitated structure will provide an additional 50 years of service life.



Project Name: **Waterway Crossing and Grade Separations - Annual Program**

Standing Policy Committee: Infrastructure Renewal and Public Works

Department: Public Works
Project: 1805000119

Service: Roadway Construction and Maintenance
OurWinnipeg: Key Directions for the Entire City

AUTHORIZATION	Previous Budgets	2019 Estimate	FORECAST 2020	2021	2022	2023	2024	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	N/A *	3,000	1,964	4,108	3,000	3,000	3,000	15,072	18,072
Financed by:									
Cash to Capital					1,000	1,000	1,000	3,000	3,000
Frontage Levy		2,087	1,964	4,108	2,000	2,000	2,000	12,072	14,159
Internal Financing		913							913

CASH FLOW	2019	2020	2021	2022	2023	2024	Beyond 2024	Total
Project Costs ($000's)	2,550	2,120	3,786	3,166	3,000	3,000	450	18,072
Financed by:								
Cash to Capital				850	1,000	1,000	150	3,000
Frontage Levy	1,774	1,983	3,786	2,316	2,000	2,000	300	14,159
Internal Financing	776	137						913

NET OPERATING IMPACT ($000's)	2019	2020	2021
Operating costs			
Debt and finance charges	85	187	202
Transfer to General Capital Fund			
Total Direct Costs	85	187	202
Less: Incremental Revenue/Recovery	83	69	123
Net Cost/(Benefit)	2	118	79
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: Not applicable, as this is a scalable program

Annual program to carry out preventative maintenance, major repairs, improvements or replacement to existing bridges, subways, overpasses, culverts and related bridge infrastructure ensuring continued and continuous services of these facilities to the maximum practical extent.

* N/A - No amounts have been included in the "Previous Budgets" due to this project's on-going nature.

Project Name: **Disraeli Bridge and Overpass Facility**

Standing Policy Committee: Infrastructure Renewal and Public Works

Department: Public Works
Project: 1805001119

Service: Roadway Construction and Maintenance
OurWinnipeg: Sustainability

AUTHORIZATION	Previous Budgets	2019 Estimate	FORECAST 2020	2021	2022	2023	2024	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	-	-	-	-	-	-	-	-	-
Financed by:									
Cash to Capital		662	650	550	600	600	600	3,000	3,662
Federal Gas Tax		14,118	12,463	12,617	12,622	12,725	12,735	63,162	77,280
Public Private Partnership Annual Service / Financing Payments		(11,873)	(11,927)	(11,981)	(12,036)	(12,139)	(12,149)	(60,232)	(72,105)
Debt servicing - repayment of debt		(2,907)	(1,186)	(1,186)	(1,186)	(1,186)	(1,186)	(5,930)	(8,837)

CASH FLOW	2019	2020	2021	2022	2023	2024	Beyond 2024	Total
Project Costs ($000's)	14,780	13,113	13,167	13,222	13,325	13,335	283,827	364,769
Financed by:								
Cash to Capital	662	650	550	600	600	600	400	4,062
Federal Gas Tax	14,118	12,463	12,617	12,622	12,725	12,735	283,427	360,707

NET OPERATING IMPACT ($000's)	2019	2020	2021
Operating costs			
Debt and finance charges			
Transfer to General Capital Fund	662	650	550
Total Direct Costs	662	650	550
Less: Incremental Revenue/Recovery			
Net Cost/(Benefit)	662	650	550
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: Not applicable

The Disraeli Bridges and Overpass Facility was procured using a P3 approach and the facility opened on November 19, 2012.

The City will make on-going lease payments to Plenary Roads Winnipeg (PRW) extending until 2042. These payments are required under a 30-year contract with PRW and cover the remaining capital cost of the facility as well as the maintenance of the facility.

There are significant provisions in the contract to ensure the City's performance specifications are met and the facility is returned to the City in good condition at the end of the contract. Costs associated with monitoring this contract, including the salary recovery of the Senior Project Review/P3 Specialist and other P3 costs related to land titles registration are also included in this budget. Payments to PRW are performance based and are reduced where the City's performance specifications are not met.

A portion of the payment to PRW represents an annual amount dedicated to the maintenance of the facility, including long-term rehabilitative costs. This amount is adjusted for changes to the Consumer Price Index on an annual basis.

A portion of the project ($75 million) was financed by $25 million in external debt and the balance being financed internally. The Public Service issued $25 million in external debt at an interest rate of 3.759% over a repayment term of 40 years. The outstanding balance of internal financing as at the end of 2017 is $6.7 million and will be repaid over a period of 2 years. Debt servicing represents interest and principal repayment of external debt and internal financing. In the event internal financing was to become unavailable, authority is in place to seek additional external financing.

Disraeli Bridge and Overpass Facility (continued):

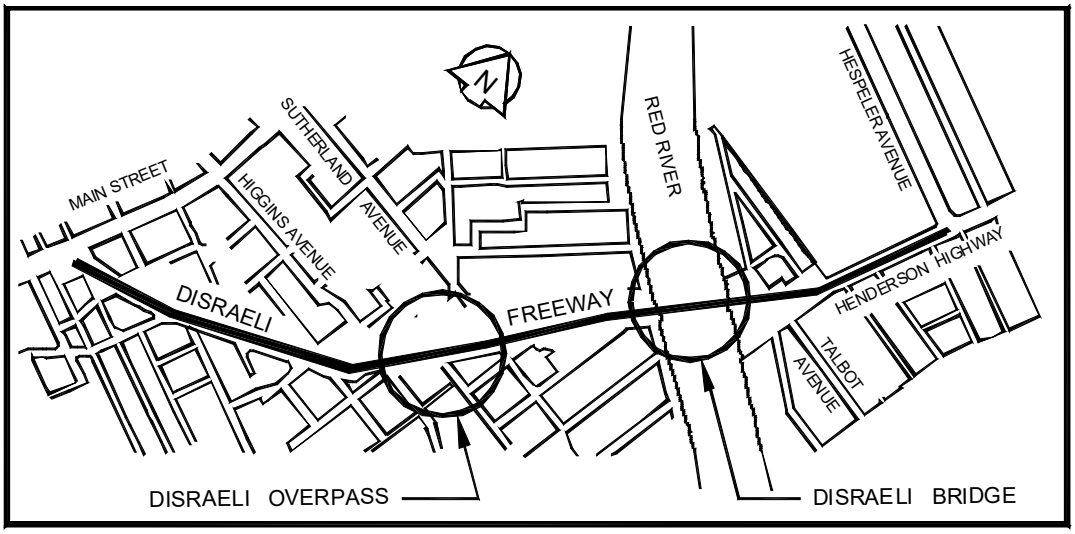
The above annual estimates include the authorization for the lease and financing payments to be incurred and charged to the projects in the General Capital Fund.

The above annual estimates relate to the maintenance phase of the project and include the authorization for the lease payments and debt servicing related to the facility.

On March 22, 2016 Council authorized a first charge of up to 30% of the annual lease payments prior to the adoption of annual capital budget in the event the capital budget is adopted after December 31 in order to facilitate payments on the P3 contract.

In accordance with Bylaw 8164/2002 where the City's capital budget has not been adopted before January 1 of the year to which the budget is applicable, the Chief Administrative Officer is authorized, before the adoption of the capital budget, to approve expenditures not exceeding 30% of the amount the City of Winnipeg is contractually obligated to pay annually in respect of Public-Private Partnerships, as a first charge against the General Capital Fund. The amount for 2019 is $3 million and represents 20% of the 2019 budget.

As financing and administration costs are implicit in the lease payments, this project is exempt from the Corporate Administration and Interest charges.



Project Name: **Charleswood Bridge**

Standing Policy Committee: Infrastructure Renewal and Public Works

Department: Public Works
Project: 1805001019

Service: Roadway Construction and Maintenance
OurWinnipeg: Key Directions for the Entire City

AUTHORIZATION	Previous Budgets	2019 Estimate	FORECAST 2020	2021	2022	2023	2024	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	-	-	-	-	-	-	-	-	-
Financed by:									
Cash to Capital		1,478	1,478	1,478	1,478	1,478	1,478	7,390	8,868
Public Private Partnership Lease Payments		(1,478)	(1,478)	(1,478)	(1,478)	(1,478)	(1,478)	(7,390)	(8,868)

CASH FLOW	2019	2020	2021	2022	2023	2024	Beyond 2024	Total
Project Costs ($000's)	1,478	1,478	1,478	1,478	1,478	1,478	-	8,868
Financed by:								
Cash to Capital	1,478	1,478	1,478	1,478	1,478	1,478		8,868

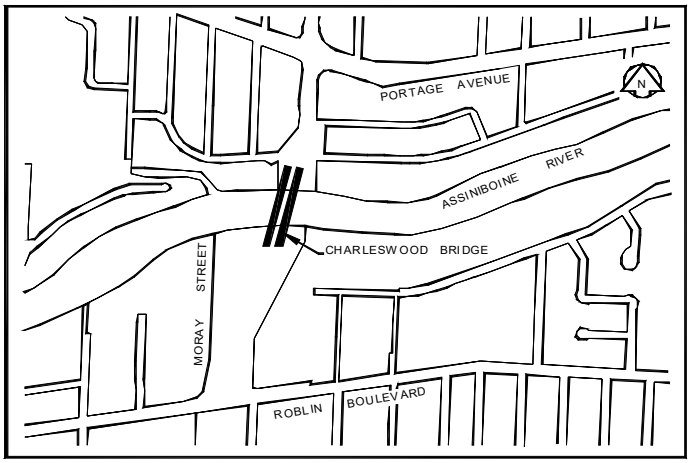
NET OPERATING IMPACT ($000's)	2019	2020	2021
Operating costs			
Debt and finance charges			
Transfer to General Capital Fund	1,478	1,478	1,478
Total Direct Costs	1,478	1,478	1,478
Less: Incremental Revenue/Recovery			
Net Cost/(Benefit)	1,478	1,478	1,478
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: Not applicable

The Charleswood Bridge was constructed in 1994 and 1995 along with the roadworks between Roblin Boulevard and Ness Avenue.

The bridge portion of the project was undertaken as a Public - Private Partnership, with lease payments extending until 2024.

The above annual estimates include the authorization for the lease payments to be incurred and charged to the Project in the General Capital Fund.



Project Name: **Chief Peguis Trail - Henderson Highway to Lagimodiere Boulevard**

Standing Policy Committee: Infrastructure Renewal and Public Works

Department: Public Works
Project: 1801000219

Service: Roadway Construction and Maintenance
OurWinnipeg: Sustainability

AUTHORIZATION	Previous Budgets	2019 Estimate	FORECAST 2020	2021	2022	2023	2024	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	-	-	-	-	-	-	-	-	-
Financed by:									
Cash to Capital		1,193	1,250	1,395	1,475	1,475	1,475	7,070	8,263
Federal Gas Tax		6,070	6,058	5,958	5,924	5,971	6,019	29,930	36,000
Public Private Partnership Annual Service / Financing Payments		(6,284)	(6,329)	(6,374)	(6,420)	(6,467)	(6,515)	(32,105)	(38,389)
Debt servicing - repayment of debt		(979)	(979)	(979)	(979)	(979)	(979)	(4,895)	(5,874)

CASH FLOW	2019	2020	2021	2022	2023	2024	Beyond 2024	Total
Project Costs ($000's)	7,263	7,308	7,353	7,399	7,446	7,494	151,363	195,626
Financed by:								
Cash to Capital	1,193	1,250	1,395	1,475	1,475	1,475	64,001	72,264
Federal Gas Tax	6,070	6,058	5,958	5,924	5,971	6,019	87,362	123,362

NET OPERATING IMPACT ($000's)	2019	2020	2021
Operating costs			
Debt and finance charges			
Transfer to General Capital Fund	1,193	1,250	1,395
Total Direct Costs	1,193	1,250	1,395
Less: Incremental Revenue/Recovery			
Net Cost/(Benefit)	1,193	1,250	1,395
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: Not applicable

The Chief Peguis Trail Extension from Henderson Highway to Lagimodiere Boulevard was procured using a P3 approach and the facility opened on December 2, 2011.

There are significant provisions in the contract to ensure the City's performance specifications are met and the facility is returned to the City in good condition at the end of the contract. Costs associated with monitoring this contract, including the salary recovery for the Senior Project Review/P3 Specialist and other P3 costs related to land titles registration are also included in this budget. Payments to DBF2 are performance based and are reduced where the City's performance specifications are not met.

A portion of the payment to DBF2 represents an annual amount dedicated to the maintenance of the facility, including long-term rehabilitative costs. This amount is adjusted for changes to the Consumer Price Index on an annual basis.

A portion of the project was financed by the City issuing $18.7 million in external debt. The debt servicing above represents the repayment of principal and interest on the external debt associated with the project over a period of 40 years.

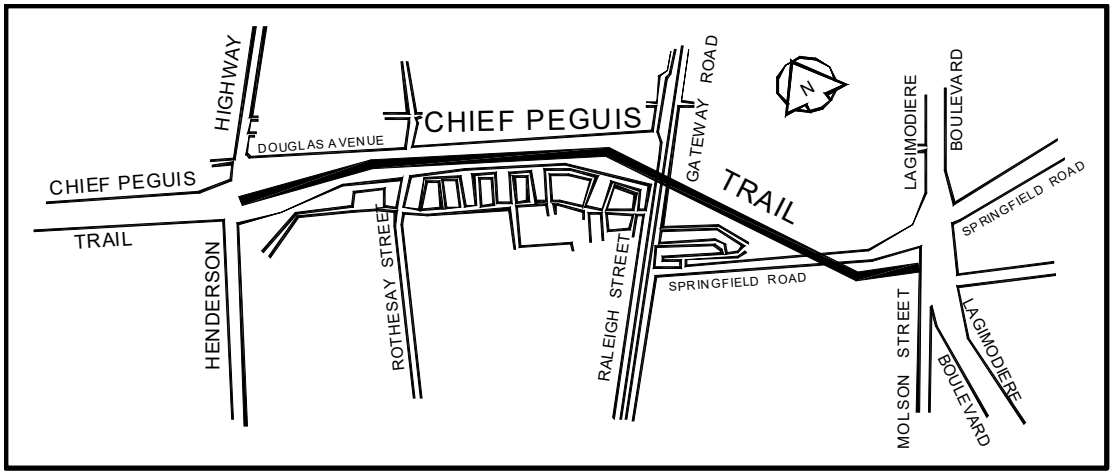
The above annual estimates include the authorization for the lease and financing payments to be incurred and charged to the Projects in the General Capital Fund.

Chief Peguis Trail - Henderson Highway to Lagimodiere Boulevard (continued):

On March 22, 2016 Council authorized a first charge of up to 30% of the annual lease payments prior to the adoption of annual capital budget in the event the capital budget is adopted after December 31 in order to facilitate payments on the P3 contract.

In accordance with Bylaw 8164/2002 where the City's capital budget has not been adopted before January 1 of the year to which the budget is applicable, the Chief Administrative Officer is authorized, before the adoption of the capital budget, to approve expenditures not exceeding 30% of the amount the City of Winnipeg is contractually obligated to pay annually in respect of Public-Private Partnerships, as a first charge against the General Capital Fund. The amount for 2019 is $1.550 million and represents 21% of the 2019 budget.

As financing and administration costs are implicit in the lease payments, this capital project is exempt from the Corporate Administration and Interest charges.



Project Name: **Work Management / Asset Management Systems Study**

Standing Policy Committee: Infrastructure Renewal and Public Works

Department: Public Works
Project: 1869000117

Service: Roadway Construction and Maintenance
OurWinnipeg: Sustainability

AUTHORIZATION	Previous Budgets	2019 Estimate	FORECAST 2020	2021	2022	2023	2024	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	459	300	-	-	-	-	-	-	300
Financed by:									
Cash to Capital		300						-	300

CASH FLOW	2019	2020	2021	2022	2023	2024	Beyond 2024	Total
Project Costs ($000's)	300	-	-	-	-	-	-	300
Financed by:								
Cash to Capital	300							300

NET OPERATING IMPACT ($000's)	2019	2020	2021
Operating costs			
Debt and finance charges			
Transfer to General Capital Fund	300		
Total Direct Costs	300	-	-
Less: Incremental Revenue/Recovery	10		
Net Cost/(Benefit)	290	-	-
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: 3

Consultants to do the analysis, design, recommendations, and develop an RFP (request for proposal) plus implementation roadmap.

This project will analyze current work methods and practices in Public Works operational areas (Streets Maintenance, Parks & Open Space, Transportation, and Engineering divisions), and will do an in depth needs analysis in order to suggest a suitable solution to meeting Work Management and Asset Management systems needs. In addition to considering commercially available software packages, the project will also review and evaluate existing solutions in the Public Works department and in other City departments. Examples of existing systems are TKMMS, Vemax, Oracle WAM, Maximo, etc. Enhancements to, and/or integration with current systems (TKMMS and Vemax) may also be suggested as part of the solution package.

The project will result in an RFP to solicit proposals for a Work Management System (WMS) and an Asset Management System (AMS).

Project Name: **Asset Management System - Various Divisions**

Standing Policy Committee: Infrastructure Renewal and Public Works

Department: Public Works
Project: 1812000119
Service: Roadway Construction and Maintenance
OurWinnipeg: Sustainability

AUTHORIZATION	Previous Budgets	2019 Estimate	FORECAST 2020	2021	2022	2023	2024	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	N/A *	100	100	100	100	100	100	500	600
Financed by:									
Cash to Capital		100	100	100	100	100	100	500	600

CASH FLOW	2019	2020	2021	2022	2023	2024	Beyond 2024	Total
Project Costs ($000's)	85	100	100	100	100	100	15	600
Financed by:								
Cash to Capital	85	100	100	100	100	100	15	600

NET OPERATING IMPACT ($000's)	2019	2020	2021
Operating costs			
Debt and finance charges			
Transfer to General Capital Fund	100	100	100
Total Direct Costs	100	100	100
Less: Incremental Revenue/Recovery	3	3	3
Net Cost/(Benefit)	97	97	97
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: Not applicable, as this is a scalable program

The asset management program being implemented in the Public Works Department is centered on the application of quality management principles to the operation, maintenance, and renewal of infrastructure. A primary objective is the development and implementation of methodologies to preserve the infrastructure and to identify the funding necessary for the long term preservation of the assets.

An objective of the asset management program is to extend this systematic structural quality management approach to all the infrastructure under the Public Works Department responsibility. Funds are required to implement new or maintain existing asset management programs.

* N/A - No amounts have been included in the "Previous Budgets" due to this project's on-going nature.

Project Name: **Land Acquisition - Transportation Right of Way**

Standing Policy Committee: Infrastructure Renewal and Public Works

Department: Public Works
Project: 1834000119

Service: Transportation Planning and Traffic Management
OurWinnipeg: Key Directions for the Entire City

AUTHORIZATION	Previous Budgets	2019 Estimate	FORECAST 2020	2021	2022	2023	2024	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	N/A *	-	950	680	300	300	300	2,530	2,530
Financed by:									
Cash to Capital			950	680	300	300	300	2,530	2,530

CASH FLOW	2019	2020	2021	2022	2023	2024	Beyond 2024	Total
Project Costs ($000's)	-	950	680	300	300	300	-	2,530
Financed by:								
Cash to Capital		950	680	300	300	300		2,530

NET OPERATING IMPACT ($000's)	2019	2020	2021
Operating costs			
Debt and finance charges			
Transfer to General Capital Fund		950	680
Total Direct Costs	-	950	680
Less: Incremental Revenue/Recovery		19	14
Net Cost/(Benefit)	-	931	666
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: Not applicable, as this is a scalable program

Allowance for the acquisition of land for future transportation rights-of-way was not included in any specific capital project within the given year's capital program. This program facilitates acquiring rights-of-way when the necessary land becomes available or when non-compatible private development is proposed on the land that will be required.

* N/A - No amounts have been included in the "Previous Budgets" due to this project's on-going nature.

Project Name: **Reforestation - Improvements**

Standing Policy Committee: Protection, Community Services and Parks

Department: Public Works
Project: 1850000119

Service: Parks and Urban Forestry
OurWinnipeg: Environment

AUTHORIZATION	Previous Budgets	2019 Estimate	FORECAST 2020	2021	2022	2023	2024	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	N/A *	383	383	383	192	192	192	1,342	1,725
Financed by:									
Cash to Capital		383	383	383	192	192	192	1,342	1,725

CASH FLOW	2019	2020	2021	2022	2023	2024	Beyond 2024	Total
Project Costs ($000's)	326	383	383	221	192	192	28	1,725
Financed by:								
Cash to Capital	326	383	383	221	192	192	28	1,725

NET OPERATING IMPACT ($000's)	2019	2020	2021
Operating costs			
Debt and finance charges			
Transfer to General Capital Fund	383	383	383
Total Direct Costs	383	383	383
Less: Incremental Revenue/Recovery	11	12	12
Net Cost/(Benefit)	372	371	371
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: Not applicable, as this is a scalable program

Sustainable urban forest management program may include tree replacements, pruning and removals, improvement of tree vaults, grates or wells, and inventory along City boulevards, plazas, and parks.

* N/A - No amounts have been included in the "Previous Budgets" due to this project's on-going nature.

Project Name: **Athletic Fields - Improvements**

Standing Policy Committee: Protection, Community Services and Parks

Department: Public Works
Project: 1852000119

Service: Parks and Urban Forestry
OurWinnipeg: Environment

AUTHORIZATION	Previous Budgets	2019 Estimate	FORECAST 2020	2021	2022	2023	2024	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	N/A *	350	192	350	175	175	175	1,067	1,417
Financed by:									
Cash to Capital			192	350	175	175	175	1,067	1,067
Federal Gas Tax / Surplus		350						-	350

CASH FLOW	2019	2020	2021	2022	2023	2024	Beyond 2024	Total
Project Costs ($000's)	298	215	327	201	175	175	26	1,417
Financed by:								
Cash to Capital		163	327	201	175	175	26	1,067
Federal Gas Tax / Surplus	298	52						350

NET OPERATING IMPACT ($000's)	2019	2020	2021
Operating costs			
Debt and finance charges			
Transfer to General Capital Fund		192	350
Total Direct Costs	-	192	350
Less: Incremental Revenue/Recovery	4	6	11
Net Cost/(Benefit)	(4)	186	339
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: Not applicable, as this is a scalable program

Athletic field improvements for existing athletic fields in areas requiring grading, sodding, seeding, irrigation and/or drainage improvements, replacement of backstops, goal posts, and other related work as required on a site-by-site basis.

* N/A - No amounts have been included in the "Previous Budgets" due to this project's on-going nature.

Project Name: **Community and Neighbourhood Parks - Existing**

Standing Policy Committee: Protection, Community Services and Parks

Department: Public Works
Project: 1853000119
Service: Parks and Urban Forestry
OurWinnipeg: Environment

AUTHORIZATION	Previous Budgets	2019 Estimate	FORECAST 2020	2021	2022	2023	2024	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	N/A *	170	-	-	-	-	-	-	170
Financed by:									
Cash to Capital		170						-	170

CASH FLOW	2019	2020	2021	2022	2023	2024	Beyond 2024	Total
Project Costs ($000's)	145	25	-	-	-	-	-	170
Financed by:								
Cash to Capital	145	25						170

NET OPERATING IMPACT ($000's)	2019	2020	2021
Operating costs			
Debt and finance charges			
Transfer to General Capital Fund	170		
Total Direct Costs	170	-	-
Less: Incremental Revenue/Recovery	5	1	
Net Cost/(Benefit)	165	(1)	-
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: 4

Projects in 2019 will not proceed until a class 3 estimate is obtained. Refurbishment and/or improvements to various parks to repair aging park infrastructure and related amenities.

2019: Funds will be allocated to athletic field lighting and other related amenities at St. Vital Memorial Park ($170,000). On March 22, 2018 Council approved a first charge against the 2019 Capital Budget for the St. Vital Memorial Park Soccer Pitch Lighting project.

* N/A - No amounts have been included in the "Previous Budgets" due to this project's on-going nature.

Project Name: **Regional Parks**

Standing Policy Committee: Protection, Community Services and Parks

Department: Public Works
Project: 1853000321

Service: Parks and Urban Forestry
OurWinnipeg: Environment

AUTHORIZATION	Previous Budgets	2019 Estimate	FORECAST 2020	2021	2022	2023	2024	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	650	-	-	1,175	-	2,825	-	4,000	4,000
Financed by:									
Cash to Capital				1,175		2,825		4,000	4,000

CASH FLOW	2019	2020	2021	2022	2023	2024	Beyond 2024	Total
Project Costs ($000's)	-	-	999	176	2,401	424	-	4,000
Financed by:								
Cash to Capital			999	176	2,401	424		4,000

NET OPERATING IMPACT ($000's)	2019	2020	2021
Operating costs			
Debt and finance charges			
Transfer to General Capital Fund			1,175
Total Direct Costs	-	-	1,175
Less: Incremental Revenue/Recovery			32
Net Cost/(Benefit)	-	-	1,143
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: 4

Refurbishment and/or improvements to various parks to repair aging park infrastructure and related amenities.

2021 and 2023: Funding will contribute to short and long term implementation strategies for Kilcona Park rehabilitation and enhancements based on the 2014 Strategic Renewal and Action Plan prepared by Hilderman Thomas Frank Cram Landscape Architecture in consultation with Meyers Norris Penny LLP, MMM Group Limited and Prairie Architects Inc.

Future budgets are subject to the Regional Parks Investment Strategy and Parks Strategic Master Plan, planned for completion in March 2019.

Project Name: **Parks Buildings**

Standing Policy Committee: Protection, Community Services and Parks

Department: Public Works
Project: 6318020119
Service: Parks and Urban Forestry
OurWinnipeg: Environment

AUTHORIZATION	Previous Budgets	2019 Estimate	FORECAST 2020	2021	2022	2023	2024	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	4,550	350	1,000	3,020	123	525	-	4,668	5,018
Financed by:									
Cash to Capital			1,000	3,020	123			4,143	4,143
Federal Gas Tax		350				525		525	875

CASH FLOW	2019	2020	2021	2022	2023	2024	Beyond 2024	Total
Project Costs ($000's)	298	902	2,717	558	464	79	-	5,018
Financed by:								
Cash to Capital		850	2,717	558	18			4,143
Federal Gas Tax	298	52			446	79		875

NET OPERATING IMPACT ($000's)	2019	2020	2021
Operating costs			
Debt and finance charges			
Transfer to General Capital Fund		1,000	3,020
Total Direct Costs	-	1,000	3,020
Less: Incremental Revenue/Recovery	4	28	88
Net Cost/(Benefit)	(4)	972	2,932
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: 4

Projects in 2019 will not proceed until a class 3 estimate is obtained.

Funds will be allocated to:	2019	2020	2021	2022	2023	2024	Total
Little Mountain Park - Refurbish public washroom building	350						350
Centennial Park - Garage/Staff House Replacement		300					300
Renfrew Yards - Construct new cold storage building to replace building to be demolished at Gary Hobson Memorial Park		275					275
Gary Hobson Memorial Park - Demolish existing buildings and replace with garage including staff amenities		425					425
St Vital Park Yards - Garage/Staff House Replacement			2,650				2,650
Churchill Drive Park - Replace public washrooms/garage			370				370
Grant's Old Mill - Replace washroom building				123			123
Renovate Living Prairie Museum Interpretive Centre					525		525
	350	**1,000**	**3,020**	**123**	**525**	**-**	**5,018**

Project Name: **Boat Docks and Launches**

Standing Policy Committee: Protection, Community Services and Parks

Department: Public Works
Project: 1856000219

Service: Parks and Urban Forestry
OurWinnipeg: Environment

AUTHORIZATION	Previous Budgets	2019 Estimate	FORECAST 2020	2021	2022	2023	2024	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	1,500	-	100	-	690	-	-	790	790
Financed by:									
Cash to Capital			100					100	100
Federal Gas Tax					690			690	690

CASH FLOW	2019	2020	2021	2022	2023	2024	Beyond 2024	Total
Project Costs ($000's)	-	85	15	587	103	-	-	790
Financed by:								
Cash to Capital		85	15					100
Federal Gas Tax				587	103			690

NET OPERATING IMPACT ($000's)	2019	2020	2021
Operating costs		5	5
Debt and finance charges			
Transfer to General Capital Fund		100	
Total Direct Costs	-	105	5
Less: Incremental Revenue/Recovery		3	
Net Cost/(Benefit)	-	102	5
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: 4

Funds will be allocated to:	2019	2020	2021	2022	2023	2024	Total
Boat Dock & Launch Study to identify and prioritize waterway access points.		100					100
North Perimeter Boat Launch - Reinforcement of existing boat launch to ensure safe public access. An engineering assessment will be required to determine full scope of work.				230			230
Whittier Park Dock Approach - Bank armouring, a new river access platform with floating docks, and landscaping including an accessible pathway.				460			460
	-	**100**	**-**	**690**	**-**	**-**	**790**

Project Name: **Parks and Recreation Enhancement Program**

Standing Policy Committee: Protection, Community Services and Parks

Department: Public Works
Project: 1857000119
Service: Parks and Urban Forestry
OurWinnipeg: Environment

AUTHORIZATION	Previous Budgets	2019 Estimate	FORECAST 2020	2021	2022	2023	2024	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	N/A *	3,300	3,300	3,300	3,300	3,300	3,300	16,500	19,800
Financed by:									
Cash to Capital			3,300	3,300	3,300	3,300	3,300	16,500	16,500
Internal Financing		3,300							3,300

CASH FLOW	2019	2020	2021	2022	2023	2024	Beyond 2024	Total
Project Costs ($000's)	2,805	3,300	3,300	3,300	3,300	3,300	495	19,800
Financed by:								
Cash to Capital		2,805	3,300	3,300	3,300	3,300	495	16,500
Internal Financing	2,805	495						3,300

NET OPERATING IMPACT ($000's)	2019	2020	2021
Operating costs			
Debt and finance charges	306	674	730
Transfer to General Capital Fund		3,300	3,300
Total Direct Costs	306	3,974	4,030
Less: Incremental Revenue/Recovery	91	107	107
Net Cost/(Benefit)	215	3,867	3,923
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: Not applicable, as this is a scalable program

Program is focused on playground restorations including play equipment and safety surface replacements, along with associated amenity and pathway improvements to enhance accessibility. It is generally delivered by the Planning, Property and Development Department on behalf of the Parks and Open Space Division of the Public Works Department.

Funding is to be allocated annually as follows:

- $300,000 each year dedicated to address general playground and amenity safety concerns as they arise city wide.

- remaining funding to be divided equally between each of the fifteen electoral wards.

On July 19, 2018, Council authorized a first charge of up to $70,000 for outdoor lighting in St. John's Park in 2018 or prior to the adoption of the 2019 Capital Budget.

* N/A - No amounts have been included in the "Previous Budgets" due to this project's on-going nature

Parks and Recreation Enhancement Program (continued):

	2019	2020	2021	2022	2023	2024	TOTAL
Priority Safety-Related Concerns	300	300	300	300	300	300	**1,800**
Charleswood-Tuxedo-Westwood	200	200	200	200	200	200	**1,200**
Daniel McIntyre	200	200	200	200	200	200	**1,200**
Elmwood-East Kildonan	200	200	200	200	200	200	**1,200**
Fort Rouge-East Fort Garry	200	200	200	200	200	200	**1,200**
Mynarski	200	200	200	200	200	200	**1,200**
North Kildonan	200	200	200	200	200	200	**1,200**
Old Kildonan	200	200	200	200	200	200	**1,200**
Point Douglas	200	200	200	200	200	200	**1,200**
River Heights-Fort Garry	200	200	200	200	200	200	**1,200**
St. Boniface	200	200	200	200	200	200	**1,200**
St. James	200	200	200	200	200	200	**1,200**
St. Norbert - Seine River	200	200	200	200	200	200	**1,200**
St. Vital	200	200	200	200	200	200	**1,200**
Transcona	200	200	200	200	200	200	**1,200**
Waverley West	200	200	200	200	200	200	**1,200**
Total	**3,300**	**3,300**	**3,300**	**3,300**	**3,300**	**3,300**	**19,800**

The Director of the Public Works Department may be required to reallocate ward budgets on approval of the ward councillors.

Project Name: **Urban Forest Enhancement Program**

Standing Policy Committee: Protection, Community Services and Parks

Department: Public Works
Project: 1850000219

Service: Parks and Urban Forestry
OurWinnipeg: Environment

AUTHORIZATION	Previous Budgets	2019 Estimate	FORECAST 2020	2021	2022	2023	2024	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	N/A *	4,100	4,159	3,800	3,800	3,800	3,800	19,359	23,459
Financed by:									
Cash to Capital			2,759	1,300	3,800	3,800	3,216	14,875	14,875
External Debt		4,100	2,500	2,500			584	5,584	9,684
Interim Financing from General Capital Fund / (Repayment)	1,100		(1,100)					(1,100)	(1,100)

CASH FLOW	2019	2020	2021	2022	2023	2024	Beyond 2024	Total
Project Costs ($000's)	4,100	4,159	3,800	3,800	3,800	3,800	-	23,459
Financed by:								
Cash to Capital		2,759	1,300	3,800	3,800	3,216		14,875
External Debt	4,100	2,500	2,500			584		9,684
Interim Financing from General Capital Fund / (Repayment)		(1,100)						(1,100)

NET OPERATING IMPACT ($000's)	2019	2020	2021
Operating costs			
Debt and finance charges	253	670	995
Transfer to General Capital Fund		2,759	1,300
Total Direct Costs	253	3,429	2,295
Less: Incremental Revenue/Recovery	133	135	124
Net Cost/(Benefit)	120	3,294	2,171
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: Not applicable, as this is a scalable program

The program will include the following types of work which will be prioritized by need:

• Management of Dutch Elm Disease (DED)

• Emarld Ash Borer Bettle (EAB) response

• Tree pruning, removals and replacements

• Installation of tree vaults and silva cells along major routes (coordinate with street and sidewalk renewals where possible)

* N/A - No amounts have been included in the "Previous Budgets" due to this project's on-going nature.

Project Name: **Library Facility Safety, Security and Accessibility Improvements Program**

Standing Policy Committee: Protection, Community Services and Parks

Department: Community Services
Project: 6210000119
Service: Libraries
OurWinnipeg: Libraries

AUTHORIZATION	Previous Budgets	2019 Estimate	FORECAST 2020	2021	2022	2023	2024	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	N/A*	162	165	219	171	-	200	755	917
Financed by:									
Cash to Capital		162	165	219	171		200	755	917

CASH FLOW	2019	2020	2021	2022	2023	2024	Beyond 2024	Total
Project Costs ($000's)	162	165	219	171	-	200	-	917
Financed by:								
Cash to Capital	162	165	219	171		200		917

NET OPERATING IMPACT ($000's)	2019	2020	2021
Operating costs			
Debt and finance charges			
Transfer to General Capital Fund	162	165	219
Total Direct Costs	162	165	219
Less: Incremental Revenue/Recovery	5	5	7
Net Cost/(Benefit)	157	160	212
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: Not applicable, as this is a scalable program

Capital funding is required to address three areas:

1. Safety issues need to be addressed in many libraries including upgrading lighting, installing and upgrading closed circuit television (CCTV) video monitoring technology, exterior Crime Prevention Through Environmental Design (CPTED) improvements, and other building upgrades as required to ensure that libraries remain safe and welcoming to the community and deter vandalism and graffiti.

2. Accessibility issues, both physical and customer service related, need to be addressed including adding exterior ramps, upgrading public and staff washrooms, improving way finding signage, and installing life safety apparatus to meet the needs of persons with disabilities.

3. Signage needs on the exterior and interiors of library facilities, including electronic signs, for promotion of services and programs are required to make libraries more visible to the community.

Each year a portion of the funds will be utilized for projects within Library facilities based upon established priorities.

* N/A - No amounts have been included in the "Previous Budgets" due to this program's on-going nature.

Project Name: **Library Refurbishment & Interior Infrastructure Program (formerly two separate programs; Library Interior Infrastructure Replacement Program & Library Refurbishment and Redevelopment Program - Existing Infrastructure)**

Standing Policy Committee: Protection, Community Services and Parks

Department: Community Services
Project: 6210000219
Service: Libraries
OurWinnipeg: Libraries

AUTHORIZATION	Previous Budgets	2019 Estimate	FORECAST 2020	2021	2022	2023	2024	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	N/A *	483	-	564	-	176	475	1,215	1,698
Financed by:									
Cash to Capital		18		418		176	176	770	788
Federal Gas Tax				146			299	445	445
External Debt		465						-	465

CASH FLOW	2019	2020	2021	2022	2023	2024	Beyond 2024	Total
Project Costs ($000's)	483	-	564	-	176	475	-	1,698
Financed by:								
Cash to Capital	18		418		176	176		788
Federal Gas Tax			146			299		445
External Debt	465							465

NET OPERATING IMPACT ($000's)	2019	2020	2021
Operating costs			
Debt and finance charges	18	29	29
Transfer to General Capital Fund	18		418
Total Direct Costs	36	29	447
Less: Incremental Revenue/Recovery	16		15
Net Cost/(Benefit)	20	29	432
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: Not applicable, as this is a scalable program

This capital program is required to support minor renovations and replacement of interior infrastructure (e.g. workstations, public work space, furniture, shelving and children's literacy areas) at Libraries. Renovations and interior infrastructure replacement is required in order to ensure that library branches are safe, functional, accessible and part of a welcoming environment for library users, that meet defined customer levels of service.

* N/A - No amounts have been included in the "Previous Budgets" due to this program's on-going nature.

Project Name: **Library Technology Upgrade and Replacement Program**

Standing Policy Committee: Protection, Community Services and Parks

Department: Community Services
Project: 6210000319
Service: Libraries
OurWinnipeg: Libraries

AUTHORIZATION	Previous Budgets	2019 Estimate	FORECAST 2020	2021	2022	2023	2024	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	N/A *	350	265	356	277	154	300	1,352	1,702
Financed by:									
Cash to Capital		350	265	356	277	154	300	1,352	1,702

CASH FLOW	2019	2020	2021	2022	2023	2024	Beyond 2024	Total
Project Costs ($000's)	350	265	356	277	154	300	-	1,702
Financed by:								
Cash to Capital	350	265	356	277	154	300		1,702

NET OPERATING IMPACT ($000's)	2019	2020	2021
Operating costs	5	10	10
Debt and finance charges			
Transfer to General Capital Fund	350	265	356
Total Direct Costs	355	275	366
Less: Incremental Revenue/Recovery	11	9	12
Net Cost/(Benefit)	344	266	354
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: Not applicable, as this is a scalable program

The Winnipeg Library Service supports the digital economy and fosters digital literacy by making public access computers available to all customers. Capital funds are required to upgrade and replace public access and staff personal computers and support new innovative and efficient technology applications in libraries to address the changing needs of customers and move towards consistent service levels in all facilities by:

- Increasing the number of public access computers system wide.

- Upgrading and replacing aging public access computers, monitors and peripheral devices.

- Providing access to public training sessions using current eReader and mobile technology.

- Expanding and enhancing information services through technological innovation and digitalization projects.

The acquisition of Information Technology has an impact on the Library Services operating budget due to maintenance and/or licensing costs associated with equipment and applications.

* N/A - No amounts have been included in the "Previous Budgets" due to this program's on-going nature.

Project Name: **Library Facility Redevelopment - Bill and Helen Norrie Library (formerly Library Facility Redevelopment - River Heights Library)**

Standing Policy Committee: Protection, Community Services and Parks

Department: Community Services
Project: 6213002114
Service: Libraries
OurWinnipeg: Libraries

AUTHORIZATION	Previous Budgets	2019 Estimate	FORECAST 2020	2021	2022	2023	2024	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	5,747	3,570	-	-	-	-	-	-	3,570
Financed by:									
External Debt		3,570							3,570

CASH FLOW	2019	2020	2021	2022	2023	2024	Beyond 2024	Total
Project Costs ($000's)	3,570	-	-	-	-	-	-	3,570
Financed by:								
External Debt	3,570							3,570

NET OPERATING IMPACT ($000's)	2019	2020	2021
Operating costs			
Debt and finance charges	141	225	225
Transfer to General Capital Fund			
Total Direct Costs	141	225	225
Less: Incremental Revenue/Recovery	116		
Net Cost/(Benefit)	25	225	225
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: 3

Capital funds are projected based on the "Library Facility Redevelopment Strategy" June 2012 administrative report. The "Library Facility Redevelopment Strategy" was adopted by Council January 29, 2013. Funds are necessary to replace and furnish modern, safe, and accessible libraries that are able to accommodate the changing needs of library users.

The Library Redevelopment Strategy includes a plan for eight existing city library facilities:

Charleswood - Opened in 2015

Windsor Park - Opened 2018

St. Vital - Opened 2018

Transcona - Opening in March 2019

Bill and Helen Norrie (formerly River Heights)

St. James

West Kildonan

Westwood

On March 22, 2016, Council adopted a total budget of $5.660 million for the Bill and Helen Norrie (formerly River Heights) Library redevelopment. An amendment was approved April 7, 2017 for a total project budget of $5.747 million.

On December 12, 2017 Council authorized a first charge of up to $3.570 million in 2018 or prior to the adoption of the 2019 Capital Budget to facilitate timely work on the project. This additional capital funding of $3.570 million is required for the redevelopment and re-location of the library to the Grant Park/Pan Am Pool site. The existing library is near the end of its useful life and is too small for any redevelopment or expansion to meet current Library service levels including program space, technology and accessibility including parking. The additional funding supplements the original $5.747 million for a total project cost of $9.317 million.

Project Name: **Library Facility Redevelopment - St. James Library**

Standing Policy Committee: Protection, Community Services and Parks

Department: Community Services
Project: 6362100319
Service: Libraries
OurWinnipeg: Libraries

AUTHORIZATION	Previous Budgets	2019 Estimate	FORECAST 2020	2021	2022	2023	2024	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	-	100	-	3,404	-	-	-	3,404	3,504
Financed by:									
External Debt		100		3,404				3,404	3,504

CASH FLOW	2019	2020	2021	2022	2023	2024	Beyond 2024	Total
Project Costs ($000's)	100	-	3,404	-	-	-	-	3,504
Financed by:								
External Debt	100		3,404					3,504

NET OPERATING IMPACT ($000's)	2019	2020	2021
Operating costs			
Debt and finance charges	4	7	158
Transfer to General Capital Fund			
Total Direct Costs	4	7	158
Less: Incremental Revenue/Recovery	3		111
Net Cost/(Benefit)	1	7	47
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: 5

The "Library Facility Redevelopment Strategy" was adopted by Council January 29, 2013. Funds are necessary to replace and furnish modern, safe, and accessible libraries that are able to accommodate the changing needs of library users. While the Strategy includes replacement of the St. James Library, a renovation and refurbishment of this branch will provide the desired service level outcome of providing citizens with a safe, accessible and modern library building on the existing, centrally located site .

Highlights of the renovation and refurbishment may include:

- New elevator and exterior ramp
- New tutorial rooms
- Accessible, gender neutral washrooms
- Redesign of interior space for improved flexibility and safety
- New flooring, paint and lighting
- Redesigned exterior landscaping

Capital funds are required in 2019 to conduct an appraisal to complete a transfer of the property where the library is currently situated from the St. James School Division to the City of Winnipeg and to conduct additional building assessment work required in advance of the renovation and refurbishment in 2021.

Library Facility Redevelopment - St. James Library (continued):

The Library Redevelopment Strategy includes a plan for eight existing city library facilities:

Charleswood - Opened in 2015

Windsor Park - Opened 2018

St. Vital - Opened 2018

Transcona - Opening in March 2019

Bill and Helen Norrie (formerly River Heights)

St. James

West Kildonan

Westwood

Total capital funding of $3.504 million is based on a preliminary Class 5 estimate for planning, design, construction, and interior infrastructure and is subject to change as Class Estimates are refined. Construction will not commence until a class 3 estimate is obtained.

Project Name: **Library Facility Redevelopment - West Kildonan Library and GoLibrary - Old Kildonan Community (formerly Library Facility Redevelopment - West Kildonan Library)**

Standing Policy Committee: Protection, Community Services and Parks

Department: Community Services
Project: 6362100421
Service: Libraries
OurWinnipeg: Libraries

AUTHORIZATION	Previous Budgets	2019 Estimate	FORECAST 2020	2021	2022	2023	2024	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	-	242	-	937	2,774	-	-	3,711	3,953
Financed by:									
Cash to Capital					888			888	888
External Debt		242		937	1,886			2,823	3,065

CASH FLOW	2019	2020	2021	2022	2023	2024	Beyond 2024	Total
Project Costs ($000's)	242	-	937	2,774	-	-	-	3,953
Financed by:								
Cash to Capital				888				888
External Debt	242		937	1,886				3,065

NET OPERATING IMPACT ($000's)	2019	2020	2021
Operating costs			
Debt and finance charges		16	41
Transfer to General Capital Fund			
Total Direct Costs	-	16	41
Less: Incremental Revenue/Recovery			30
Net Cost/(Benefit)	-	16	11
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: 3 - applies to 2019 only

The "Library Facility Redevelopment Strategy" was adopted by Council January 29, 2013. Funds are necessary to replace and furnish modern, safe, and accessible libraries that are able to accommodate the changing needs of library users.

The Library Redevelopment Strategy includes a plan for eight existing city library facilities:

Charleswood - Opened in 2015
Windsor Park - Opened 2018
St. Vital - Opened 2018
Transcona - Opening in March 2019
Bill and Helen Norrie (formerly River Heights)
St. James
West Kildonan
Westwood

Recognizing that the City of Winnipeg does not provide service to the Old Kildonan community through a dedicated library branch within the community, and as the development and completion of the West Kildonan Library will not occur until 2022, a GoLibrary automated kiosk system service will be implemented in the Old Kildonan community in 2019 to provide an easy-to-use and convenient system to customers.

Total capital funding for the West Kildonan Library of $3.711 million is based on a preliminary Class 5 estimate for planning, design, construction, and interior infrastructure and is subject to change as Class Estimates are refined. The assumption is that West Kildonan Library will be a leased facility, therefore, estimated funding represents this assumption.

Construction will not commence until a class 3 estimate is obtained.

Project Name: **Library Facility Redevelopment - Westwood Library**

Standing Policy Committee: Protection, Community Services and Parks

Department: Community Services
Project: 6362100521
Service: Libraries
OurWinnipeg: Libraries

AUTHORIZATION	Previous Budgets	2019 Estimate	FORECAST 2020	2021	2022	2023	2024	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	-	-	-	146	794	3,088	-	4,028	4,028
Financed by:									
Federal Gas Tax					794	3,088		3,882	3,882
External Debt				146				146	146

CASH FLOW	2019	2020	2021	2022	2023	2024	Beyond 2024	Total
Project Costs ($000's)	-	-	146	794	3,088	-	-	4,028
Financed by:								
Federal Gas Tax				794	3,088			3,882
External Debt			146					146

NET OPERATING IMPACT ($000's)	2019	2020	2021
Operating costs			
Debt and finance charges			6
Transfer to General Capital Fund			
Total Direct Costs	-	-	6
Less: Incremental Revenue/Recovery			5
Net Cost/(Benefit)	-	-	1
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: 5

The "Library Facility Redevelopment Strategy" was adopted by Council January 29, 2013. Funds are necessary to replace and furnish modern, safe, and accessible libraries that are able to accommodate the changing needs of library users.

The Library Redevelopment Strategy includes a plan for eight existing city library facilities:

Charleswood - Opened in 2015

Windsor Park - Opened 2018

St. Vital - Opened 2018

Transcona - Opening in March 2019

Bill and Helen Norrie (formerly River Heights)

St. James

West Kildonan

Westwood

Total capital funding of $4.028 million is based on a preliminary Class 5 estimate for a planning, design, construction, and interior infrastructure and is subject to change as Class Estimates are refined. The assumption is that Westwood Library will be a leased facility, therefore, estimated funding represents this assumption.

Construction will not commence until a class 3 estimate is obtained.

Project Name: **Recreational Facility Safety, Security and Accessibility Improvements Program**

Standing Policy Committee: Protection, Community Services and Parks

Department: Community Services
Project: 6250000119
Service: Recreation
OurWinnipeg: Recreation

AUTHORIZATION	Previous Budgets	2019 Estimate	FORECAST 2020	2021	2022	2023	2024	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	N/A*	175	172	230	186	158	279	1,025	1,200
Financed by:									
Cash to Capital		13	172	230	186		171	759	772
Federal Gas Tax / Surplus		162				158	108	266	428

CASH FLOW	2019	2020	2021	2022	2023	2024	Beyond 2024	Total
Project Costs ($000's)	175	172	230	186	158	279	-	1,200
Financed by:								
Cash to Capital	13	172	230	186		171		772
Federal Gas Tax / Surplus	162				158	108		428

NET OPERATING IMPACT ($000's)	2019	2020	2021
Operating costs			
Debt and finance charges			
Transfer to General Capital Fund	13	172	230
Total Direct Costs	13	172	230
Less: Incremental Revenue/Recovery	1	6	7
Net Cost/(Benefit)	12	167	223
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: Not applicable, as this is a scalable program

This capital program addresses workplace and public safety, health, and accessibility issues.

Recreation and Aquatic facility amenities must be refurbished to meet public health and safety standards, regulations, and to enhance facilities to meet the needs of the public including:

1. Safety issues need to be addressed including upgrading lighting, installing and upgrading closed circuit television (CCTV) video monitoring technology, and other building upgrades as required to ensure that facilities remain safe and welcoming to the community.

2. Address physical and customer service accessibility issues including washrooms, change rooms, specialty change rooms, signage, public entranceways and installing life safety apparatus to meet the needs of persons with disabilities.

3. Upgrades and replacements to facility signage including electronic signs for promotion of services and programs.

Each year a portion of the funds will be utilized for projects within the City's aquatic facilities and recreation centres based upon established priorities.

* N/A - No amounts have been included in the "Previous Budgets" due to this program's on-going nature.

Project Name: **Fitness Equipment Upgrade Program**

Standing Policy Committee: Protection, Community Services and Parks

Department: Community Services
Project: 6250000219
Service: Recreation
OurWinnipeg: Recreation

AUTHORIZATION	Previous Budgets	2019 Estimate	FORECAST 2020	2021	2022	2023	2024	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	N/A *	248	280	285	292	297	303	1,457	1,705
Financed by:									
Cash to Capital		248	280	285	292	297	303	1,457	1,705

CASH FLOW	2019	2020	2021	2022	2023	2024	Beyond 2024	Total
Project Costs ($000's)	248	280	285	292	297	303	-	1,705
Financed by:								
Cash to Capital	248	280	285	292	297	303		1,705

NET OPERATING IMPACT ($000's)	2019	2020	2021
Operating costs			
Debt and finance charges			
Transfer to General Capital Fund	248	280	285
Total Direct Costs	248	280	285
Less: Incremental Revenue/Recovery	8	9	9
Net Cost/(Benefit)	240	271	276
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: Not applicable, as this is a scalable program

Capital funding is required to replace cardio and strength based fitness equipment on a rotating cycle at the City's 10 multi-use recreation and aquatic facilities to continue to meet the program needs of patrons and minimize safety issues that could arise from aging fitness equipment.

* N/A - No amounts have been included in the "Previous Budgets" due to this program's on-going nature.

Project Name: **Recreation and Leisure Infrastructure Renewal (formerly Recreation Refurbishment and Redevelopment Program - Existing Infrastructure)**

Standing Policy Committee: Protection, Community Services and Parks

Department: Community Services
Project: 6362500119
Service: Recreation
OurWinnipeg: Recreation

AUTHORIZATION	Previous Budgets	2019 Estimate	FORECAST 2020	2021	2022	2023	2024	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	N/A *	100	-	2,131	-	-	4,700	6,831	6,931
Financed by:									
Cash to Capital		100		2,131				2,131	2,231
Federal Gas Tax							4,700	4,700	4,700

CASH FLOW	2019	2020	2021	2022	2023	2024	Beyond 2024	Total
Project Costs ($000's)	100	-	2,131	-	-	4,700	-	6,931
Financed by:								
Cash to Capital	100		2,131					2,231
Federal Gas Tax						4,700		4,700

NET OPERATING IMPACT ($000's)	2019	2020	2021
Operating costs			
Debt and finance charges			
Transfer to General Capital Fund	100		2,131
Total Direct Costs	100	-	2,131
Less: Incremental Revenue/Recovery	3		69
Net Cost/(Benefit)	97	-	2,062
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: Not applicable, as this is a scalable program

This capital program supports ongoing renovations, replacement and renewal of existing facilities including arenas, indoor pools, outdoor pools, libraries, recreation and leisure centres. Over 70% of the recreation asset inventory is 40 years or older. Funding will be used to undertake priority infrastructure renewal and replacement initiatives to meet defined levels of service to be identified in the Winnipeg Recreation Strategy, currently in development. The 2018 State of Infrastructure Report and City Asset Management Plan indicate a 10-year infrastructure deficit of over $778 million for existing Community Services Department assets.

As project scope and estimates are further refined, individual projects and budget requirements will be identified in future budget years.

* N/A - No amounts have been included in "Previous Budgets" due to this program's on-going nature.

Project Name: **New Community Facility - Southeast Winnipeg**

Standing Policy Committee: Protection, Community Services and Parks

Department: Community Services
Project: 6362100720
Service: Recreation
OurWinnipeg: Recreation

AUTHORIZATION	Previous Budgets	2019 Estimate	FORECAST 2020	2021	2022	2023	2024	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	-	-	100	-	-	-	-	100	100
Financed by:									
Cash to Capital			100					100	100

CASH FLOW	2019	2020	2021	2022	2023	2024	Beyond 2024	Total
Project Costs ($000's)	-	100	-	-	-	-	-	100
Financed by:								
Cash to Capital		100						100

NET OPERATING IMPACT ($000's)	2019	2020	2021
Operating costs			
Debt and finance charges			
Transfer to General Capital Fund		100	
Total Direct Costs	-	100	-
Less: Incremental Revenue/Recovery		3	
Net Cost/(Benefit)	-	97	-
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: 5

The southeast quadrant of Winnipeg includes existing neighbouhoods of Island Lakes and Royalwood and rapidly growing new developments of Sage Creek and Bonivista/Precinct K that currently lack any recreation or library facilities within their communities. Capital funds in 2020 are necessary to explore opportunities for new infrastructure to service growth in these areas with a focus on developing multi-use facilities (e.g. library, community centre, gymnasium).

Project Name: **New Recreation Facility - South Winnipeg**

Standing Policy Committee: Protection, Community Services and Parks

Department: Community Services
Project: 6362500319

Service: Recreation
OurWinnipeg: Recreation

AUTHORIZATION	Previous Budgets	2019 Estimate	FORECAST 2020	2021	2022	2023	2024	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	4,464	1,750	251	700	5,323	3,763	-	10,037	11,787
Financed by:									
Cash to Capital			251					251	251
Federal Gas Tax / Surplus		1,750		700	5,323	3,763		9,786	11,536

CASH FLOW	2019	2020	2021	2022	2023	2024	Beyond 2024	Total
Project Costs ($000's)	1,750	251	700	5,323	3,763	-	-	11,787
Financed by:								
Cash to Capital		251						251
Federal Gas Tax / Surplus	1,750		700	5,323	3,763			11,536

NET OPERATING IMPACT ($000's)	2019	2020	2021
Operating costs			
Debt and finance charges			
Transfer to General Capital Fund		251	
Total Direct Costs	-	251	-
Less: Incremental Revenue/Recovery	22	8	9
Net Cost/(Benefit)	(22)	243	(9)
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: 5

The southwest quadrant of Winnipeg includes mature neighbourhoods such as Waverley Heights, Fort Richmond, Richmond West and St. Norbert, as well as the rapidly growing neighbourhoods of Waverley West. The quadrant is lacking recreation space, and is facing significant demands for new multi-use community spaces. Capital funds in 2019 are necessary to explore opportunities for new infrastructure to service growth in the area, with a focus on developing a South Winnipeg Recreation Campus that could include such amenities as a library, community centre, leisure pool, fitness facilities, gymnasiums and outdoor recreation facilities.

Additional funding for the new facility will be applied for from Federal, Provincial, and private funding programs. Development of the new campus, including any facility re-purposing within provided financial resources, will adhere to guidelines set out in the Recreation Leisure and Library Facility Policy approved by Council on May 18, 2005 or subsequently approved recreation policies. The South Winnipeg Recreation Campus Project Charter will also be considered to ensure collaboration and consultation. See Council approved 2018 budget recommendation 2A.b for further information.

• Final project scope for both indoor and outdoor community recreation spaces and amenities will be confirmed with community stakeholders in 2019.

• Options for a governance model for the new community centre will be explored in 2019 including a traditional Winnipeg community centre model funded through the Universal Funding Formula, leasing of space from the YM/YWCA or alternate model subject to Council approval.

• Joint Use Agreement(s) to enable access for City of Winnipeg and community centre programming in the recreation centre and adjacent schools will be explored.

Previous budgets include $350,000 adopted in 2014 to commission a feasibility study for conceptual site planning, a secondary planning process and consultancy support to coordinate key stakeholders collaborating in the development of a conceptual site plan and partnership agreement and $4.114 million adopted in the 2017 capital budget allocated for land acquisition.

New Recreation Facility - South Winnipeg (continued):

On December 12, 2017 Council authorized a first charge of up to $1.75 million in 2018 or prior to the adoption of the 2019 Capital Budget to complete a class 3 estimate and facilitate implementation of the project. Subsequent budget years are for facility and site construction including site servicing, land drainage, site and building development. It is assumed that the project will include contributions from the Federal and Provincial governments.

Project construction will not proceed until a class 3 estimate is obtained.

Project Name: **Grant Park Recreation Campus**

Standing Policy Committee: Protection, Community Services and Parks

Department: Community Services
Project: 6362500519
Service: Recreation
OurWinnipeg: Recreation

AUTHORIZATION	Previous Budgets	2019 Estimate	FORECAST 2020	2021	2022	2023	2024	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	-	1,750	-	-	-	-	-	-	1,750
Financed by:									
Cash to Capital		772						-	772
Internal Financing		978						-	978

CASH FLOW	2019	2020	2021	2022	2023	2024	Beyond 2024	Total
Project Costs ($000's)	1,750	-	-	-	-	-	-	1,750
Financed by:								
Cash to Capital	772							772
Internal Financing	978							978

NET OPERATING IMPACT ($000's)	2019	2020	2021
Operating costs			
Debt and finance charges	107	216	216
Transfer to General Capital Fund	772		
Total Direct Costs	879	216	216
Less: Incremental Revenue/Recovery	57		
Net Cost/(Benefit)	822	216	216
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: 5

These project funds are necessary for new infrastructure to service growth and to replace existing aging infrastructure to meet citizen demand for contemporary recreational amenities. Replacement of existing facilities may result in consolidation or closing of existing facilities to meet the requirements in the Recreation Leisure and Library Facility Policy approved by Council on May 18, 2005. The City has a strategic focus on consolidating assets where feasible and developing multi-use facilities (e.g. libraries, water amenities, fitness facilities, multi-purpose space, gymnasiums, arenas).

On July 19, 2018 Council authorized a first charge of up to $200,000 in 2018 or prior to the adoption of the 2019 Capital Budget to facilitate timely work on a feasibility study and business plan by Corydon Community Centre for a potential arena and recreation complex at the Grant Park site. This process is currently underway and will be completed in 2019.

Funding will be used for implementation of the Grant Park Recreation Campus which could include a new arena development and decommissioning of Charles Barbour Arena, as well as other potential site improvements. Projects will not proceed until a class 3 estimate is obtained.

Project Name: **St. James Civic Centre - Facility Renewal and Expansion**

Standing Policy Committee: Protection, Community Services and Parks

Department: Community Services
Project: 6362500217
Service: Recreation
OurWinnipeg: Recreation

AUTHORIZATION	Previous Budgets	2019 Estimate	FORECAST 2020	2021	2022	2023	2024	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	3,595	2,405	3,700	7,800	-	-	-	11,500	13,905
Financed by:									
External Debt		2,405	3,700	3,900				7,600	10,005
Province of Manitoba				3,900				3,900	3,900

CASH FLOW	2019	2020	2021	2022	2023	2024	Beyond 2024	Total
Project Costs ($000's)	2,405	3,700	7,800	-	-	-	-	13,905
Financed by:								
External Debt	2,405	3,700	3,900					10,005
Province of Manitoba			3,900					3,900

NET OPERATING IMPACT ($000's)	2019	2020	2021
Operating costs			
Debt and finance charges	94	307	575
Transfer to General Capital Fund			
Total Direct Costs	94	307	575
Less: Incremental Revenue/Recovery	78	120	176
Net Cost/(Benefit)	16	187	399
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: 4

Note: Building system work is currently at a Class 4; 55+ expansion is at a Class 3.

Capital funding in 2019 and previous budgets is for renovation and renewal of the St. James Civic Centre building systems to ensure continued facility operation. Critical building systems (e.g. electrical, HVAC, building envelope and mechanical) within the facility have reached the end of their useful life and require repair or replacement. The project will also address Building Code compliance within the existing facility. The total project cost for building systems renewals is $6.0 million. Design and construction documents for the building systems work will be developed in 2019, with construction in 2020.

On December 12, 2017 Council authorized a first charge of up to $2.405 million in 2018 or prior to the adoption of the 2019 Capital Budget to facilitate timely delivery of the systems renewal project.

Projected funding of $3.7 million in 2020 is required for structural repairs of the St. James Civic Centre Arena concrete slab and building envelope renewal in the facility for total facility renewal funding of $9.7 million. Additional engineering analysis and development of a Class 3 estimate is required to confirm final project scope and costs. Construction will not commence until a class 3 estimate is obtained.

An expansion to the facility to include the St. James-Assiniboia 55+ Centre is estimated to cost approximately $14.0 million. On July 24, 2018, the Province of Manitoba confirmed funding of $3.9 million towards this renovation and expansion of the facility. City funding of $3.9 million in 2021 will be directed towards the expansion of the facility, but is contingent upon funding commitments from the Federal government and other sources to make up the project shortfall. Timing of the $3.9 million in incremental Provincial funding has not yet been confirmed.

NOTE: The expectation is that as construction estimates are confirmed and as the project proceeds, the projected funding for the various aspects of this multi-use facility may and will likely change (i.e. building systems, arena, and expansion), therefore, funds will be used as required.

Project Name: **Seven Oaks Pool - Concrete Restoration and Air Handling Unit Replacement**

Standing Policy Committee: Protection, Community Services and Parks

Department: Community Services
Project: 6362400119
Service: Recreation
OurWinnipeg: Recreation

AUTHORIZATION	Previous Budgets	2019 Estimate	FORECAST 2020	2021	2022	2023	2024	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	-	2,239	-	-	-	-	-	-	2,239
Financed by:									
External Debt		990						-	990
Transfer from Departmental Non-Specified Capital Account		163						-	163
Federal Gas Tax		1,086						-	1,086

CASH FLOW	2019	2020	2021	2022	2023	2024	Beyond 2024	Total
Project Costs ($000's)	2,239	-	-	-	-	-	-	2,239
Financed by:								
External Debt	990							990
Transfer from Departmental Non-Specified Capital Account	163							163
Federal Gas Tax	1,086							1,086

NET OPERATING IMPACT ($000's)	2019	2020	2021
Operating costs			
Debt and finance charges	39	63	63
Transfer to General Capital Fund			
Total Direct Costs	39	63	63
Less: Incremental Revenue/Recovery	51		
Net Cost/(Benefit)	(12)	63	63
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: 3

Capital funding is required for critical infrastructure remediation to the existing Seven Oaks Indoor Pool facility, for works outside the scope of the Seven Oaks Pool Renewal/ Indoor Spray Pad Project.

Required work includes structural and roofing system repairs and replacement of mechanical and electrical components that have seen 40 years of service in a moist and corrosive pool environment.

On December 12, 2017 Council authorized a first charge of up to $2.239 million in 2018 or prior to the adoption of the 2019 Capital Budget to facilitate timely work on the project. Funding in 2019 includes rebudgeted amounts from previously approved capital budgets - see Appendix 4.

Project Name: **Pan Am Pool - Ceiling, Lighting, and Public Address and Audio System**

Standing Policy Committee: Protection, Community Services and Parks

Department: Community Services
Project: 6362400219

Service: Recreation
OurWinnipeg: Recreation

AUTHORIZATION	Previous Budgets	2019 Estimate	FORECAST 2020	2021	2022	2023	2024	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	-	2,600	-	-	-	-	-	-	2,600
Financed by:									
Federal Gas Tax		2,600							2,600

CASH FLOW	2019	2020	2021	2022	2023	2024	Beyond 2024	Total
Project Costs ($000's)	2,600	-	-	-	-	-	-	2,600
Financed by:								
Federal Gas Tax	2,600							2,600

NET OPERATING IMPACT ($000's)	2019	2020	2021
Operating costs			
Debt and finance charges			
Transfer to General Capital Fund			
Total Direct Costs	-	-	-
Less: Incremental Revenue/Recovery	33		
Net Cost/(Benefit)	(33)	-	-
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: 3

Capital funding is required for the replacement of the acoustic ceiling and lighting over the main pool tank at Pan Am Pool. The public address and audio system is the original system from 1969 and is outdated requiring replacement.

Capital funds will be used for removal of the acoustic ceiling as the support structure is in poor condition. A feasibility study will be undertaken to identify the full scope of work for the ceiling, lighting and public address and audio system upgrades.

On December 12, 2017 Council authorized a first charge of up to $2.6 million in 2018 or prior to the adoption of the 2019 Capital Budget to facilitate timely work on the project.

Project Name: **Repair and Renovation of Pan Am Pool Universal Change Rooms**

Standing Policy Committee: Protection, Community Services and Parks

Department: Community Services
Project: 6362400521
Service: Recreation
OurWinnipeg: Recreation

AUTHORIZATION	Previous Budgets	2019 Estimate	FORECAST 2020	2021	2022	2023	2024	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	-	-	-	937	-	-	-	937	937
Financed by:									
Cash to Capital				937				937	937

CASH FLOW	2019	2020	2021	2022	2023	2024	Beyond 2024	Total
Project Costs ($000's)	-	-	937	-	-	-	-	937
Financed by:								
Cash to Capital			937					937

NET OPERATING IMPACT ($000's)	2019	2020	2021
Operating costs			
Debt and finance charges			
Transfer to General Capital Fund			937
Total Direct Costs	-	-	937
Less: Incremental Revenue/Recovery			30
Net Cost/(Benefit)	-	-	907
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: 5

Capital funding is required to support renovations to the Specialty Change Rooms including the development of Universal Change Rooms at the Pan Am Pool. The existing facility is inadequate to fully meet service requirements of the community and does not meet City of Winnipeg Universal Design / Accessibility Standards.

Pan Am Pool Feasibility Study was completed in September 2015. The study identified a number of requirements that also included the need for renovations to the Specialty Change Rooms and the development of Universal / Family Change Rooms.

Capital funding for the Pan Am Pool Change Room Upgrade in 2021 includes development of tender documents and construction.

Project Name: **Norwood Pool - Decommissioning**

Standing Policy Committee: Protection, Community Services and Parks

Department: Community Services
Project: 6362400419
Service: Recreation
OurWinnipeg: Recreation

AUTHORIZATION	Previous Budgets	2019 Estimate	FORECAST 2020	2021	2022	2023	2024	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	-	150	-	-	-	-	-	-	150
Financed by:									
Cash to Capital		150						-	150

CASH FLOW	2019	2020	2021	2022	2023	2024	Beyond 2024	Total
Project Costs ($000's)	150	-	-	-	-	-	-	150
Financed by:								
Cash to Capital	150							150

NET OPERATING IMPACT ($000's)	2019	2020	2021
Operating costs			
Debt and finance charges			
Transfer to General Capital Fund	150		
Total Direct Costs	150	-	-
Less: Incremental Revenue/Recovery	5		
Net Cost/(Benefit)	145	-	-
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: 3

Norwood Outdoor Pool is nearly 60 years old and has reached the end of its useful life. Engineering analysis has confirmed that rising ground water levels in the area, hydrostatic pressure and regular freeze-thaw cycles have accelerated deterioration of the pool tank to the point where concrete repairs are required each spring and complete failure of the asset is anticipated in the near future.

As the age of the facility and ground water conditions noted above make any refurbishment or replacement of the pool tank infeasible, decommissioning of the asset is recommended. Capital funding in 2019 is for decommissioning and demolition of the existing outdoor pool tank and building, restoration of the area to greenspace and related site works.

Project Name: **Boni-Vital Pool**

Standing Policy Committee: Protection, Community Services and Parks

Department: Community Services
Project: 6362400317
Service: Recreation
OurWinnipeg: Recreation

AUTHORIZATION	Previous Budgets	2019 Estimate	FORECAST 2020	2021	2022	2023	2024	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	240	192	-	5,359	-	-	-	5,359	5,551
Financed by:									
Cash to Capital		42						-	192
Federal Gas Tax				5,359				5,359	5,359
External Debt		150							

CASH FLOW	2019	2020	2021	2022	2023	2024	Beyond 2024	Total
Project Costs ($000's)	192	-	5,359	-	-	-	-	5,551
Financed by:								
Cash to Capital	42							192
Federal Gas Tax			5,359					5,359
External Debt	150							

NET OPERATING IMPACT ($000's)	2019	2020	2021
Operating costs			
Debt and finance charges	5	10	10
Transfer to General Capital Fund	42		
Total Direct Costs	47	10	10
Less: Incremental Revenue/Recovery	6		67
Net Cost/(Benefit)	41	10	(57)
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: 5

Capital funding is required to support facility renovations, upgrades, and facility renewal at the Boni-Vital Pool including but not limited to the development of accessibility improvements, renovation and expansion of public spaces and building systems renewal.

Capital funding for the Boni-Vital Pool project includes $240,000 in 2017 for a feasibility study, including assessment of structural components, building envelope and systems and $192,000 in 2019 for consultant services and detailed design to obtain a class 3 estimate.

Capital funds in 2021 include $5.359 million for construction. Construction will not commence until a class 3 estimate is obtained.

See Indoor Aquatic Facilities (page 2-132) for capital investment planned for Boni-Vital Pool in 2019.

Project Name: **Technology Advancement Program**

Standing Policy Committee: Protection, Community Services and Parks

Department: Community Services
Project: 6262000119
Service: Recreation
OurWinnipeg: Recreation

AUTHORIZATION	Previous Budgets	2019 Estimate	FORECAST 2020	2021	2022	2023	2024	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	N/A *	312	-	325	-	-	345	670	982
Financed by:									
Cash to Capital		312		325			345	670	982

CASH FLOW	2019	2020	2021	2022	2023	2024	Beyond 2024	Total
Project Costs ($000's)	312	-	325	-	-	345	-	982
Financed by:								
Cash to Capital	312		325			345		982

NET OPERATING IMPACT ($000's)	2019	2020	2021
Operating costs			
Debt and finance charges			
Transfer to General Capital Fund	312		325
Total Direct Costs	312	-	325
Less: Incremental Revenue/Recovery	10		11
Net Cost/(Benefit)	302	-	314
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: Not applicable, as this is a scalable program

Capital funding is required for technological initiatives which allow Community Services (CMS) to upgrade existing information technology systems and introduce new / innovative technologies. The projects will incorporate technology that will allow us to increase efficiencies and reliability, and improve service delivery by being more responsive to our customers. The funding will be used for hardware, software and consulting services.

Projects include but are not limited to:

1. Staff Scheduling System to enable scheduling of staff at facilities.

2. Facility Utilization Data Collection System for various sites and review of possible pilot sites including outdoor pools.

3. Continuation of Advertising Program which includes the implementation of digital displays signage at CMS sites. This program will be used to attract new advertisers and increase advertising revenues, introduce new mediums to offset year-to-date decreases in revenue from traditional print-based advertising and provide the capability to digitally present up-to-date program scheduling information to the public inside facilities as well as promote City of Winnipeg programming initiatives and services.

4. Electronic reader outdoor signage for Pan Am Pool, Seven Oaks Pool, St. James Civic Centre and Sergeant Tommy Prince Place.

5. Charging Stations for Pan Am Pool, Seven Oaks Pool, Cindy Klassen Recreation Facility and Sergeant Tommy Prince Place.

6. Miscellaneous upgrades including the purchasing and installation of projectors, mobile software, etc.

* N/A - No amounts have been included in the "Previous Budgets" due to this program's on-going nature.

Project Name: **Community Centre Renovation Grant Program (CCRGP)**

Standing Policy Committee: Protection, Community Services and Parks

Department: Community Services
Project: 6252000119

Service: Recreation
OurWinnipeg: Recreation

AUTHORIZATION	Previous Budgets	2019 Estimate	FORECAST 2020	2021	2022	2023	2024	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	N/A*	2,000	2,000	2,000	2,000	2,000	965	8,965	10,965
Financed by:									
Financial Stabilization Reserve		1,035	1,035	1,035	1,035	1,035		4,140	5,175
Land Operating Reserve		965	965	965	965	965	965	4,825	5,790

CASH FLOW	2019	2020	2021	2022	2023	2024	Beyond 2024	Total
Project Costs ($000's)	2,000	2,000	2,000	2,000	2,000	965	-	10,965
Financed by:								
Financial Stabilization Reserve	1,035	1,035	1,035	1,035	1,035			5,175
Land Operating Reserve	965	965	965	965	965	965		5,790

NET OPERATING IMPACT ($000's)	2019	2020	2021
Operating costs			
Debt and finance charges			
Transfer to General Capital Fund			
Total Direct Costs	-	-	-
Less: Incremental Revenue/Recovery			
Net Cost/(Benefit)	-	-	-
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: Not applicable

The Community Centre Renovation Grant Program (CCRGP), approved in February 2012, provides dedicated funding to renovation projects for city-owned, board-run community centres in order to maintain and/or improve community centre infrastructure. The program is open to all General Council Winnipeg Community Centres (GCWCC) in Winnipeg, is subject to an application process with two intake periods per year, project evaluation completed by a joint committee of GCWCC and the City, with maximum City contributions to each project of $50,000 per project.

Annually, up to $965,000 is funded by the Land Operating Reserve. Transfers from the Land Operating Reserve (not to exceed $1.2 million in aggregate) to the General Revenue Fund ($235,000 for GCWCC programming grant) and General Capital Fund ($965,000 for this CCRGP) are to be equal to 15% of the aggregate of gross land sales and the City's proportionate share of land sales derived from government business partnerships for the fiscal year two years prior to the budget year under consideration (e.g. transfer amounts for the 2019 budget year are based on 15% of the aggregate of actual gross land sales and the City's proportionate share of land sales derived from government business partnerships from 2017).

If actual gross land sales and the City's proportionate share of land sales derived from government business partnerships are less than the amount to achieve the maximum $1.2 million (i.e. $235,000 programming grant + $965,000 for the CCRGP) aggregate amount for this program, the transfer to the General Revenue Fund of up to $235,000 is made first with the residual balance, if any, transferred to the General Capital Fund for the CCRGP. Beginning in 2024, actual gross land sales and the City's proportionate share of land sales derived from government business partnerships are projected to be insufficient to continue funding this capital program entirely from the Land Operating Reserve.

An additional $1.035 million per year is provided for the program for five years beginning in 2019 and is funded from the Financial Stabilization Reserve.

As this is a capital grant program, it is exempt from interest and administrative overhead capital charges.

* N/A - No amounts have been included in the "Previous Budgets" due to this program's on-going nature.

Project Name: **Community Incentive Grant Program (CIGP)**

Standing Policy Committee: Protection, Community Services and Parks

Department: Community Services
Project: 6251000119

Service: Neighbourhood Revitalization
OurWinnipeg: Recreation

AUTHORIZATION	Previous Budgets	2019 Estimate	FORECAST 2020	2021	2022	2023	2024	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	N/A*	1,961	1,802	1,838	1,875	1,913	1,951	9,379	11,340
Financed by:									
Cash to Capital		1,767	1,802	1,838	1,875	1,913	1,951	9,379	11,146
Transfer from Prior Year Authorization		194							194

CASH FLOW	2019	2020	2021	2022	2023	2024	Beyond 2024	Total
Project Costs ($000's)	1,961	1,802	1,838	1,875	1,913	1,951	-	11,340
Financed by:								
Cash to Capital	1,767	1,802	1,838	1,875	1,913	1,951		11,146
Transfer from Prior Year Authorization	194							194

NET OPERATING IMPACT ($000's)	2019	2020	2021
Operating costs			
Debt and finance charges			
Transfer to General Capital Fund	1,767	1,802	1,838
Total Direct Costs	1,767	1,802	1,838
Less: Incremental Revenue/Recovery			
Net Cost/(Benefit)	1,767	1,802	1,838
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: Not applicable

The Community Incentive Grant Program (CIGP), established by Council on March 6, 1985, was designed to encourage non-profit community recreation and sport organizations to undertake capital projects which would result in long-term benefits to the community at large in terms of improved service and facilities. On July 23, 2003 and again on July 18, 2012, Council adopted expanded criteria for the Program.

For 2019, community committees are delegated authority to allocate funding.

On January 25, 2007, Council, with approval of the 2007 - 2012 Capital budget program, approved a 2% annual increase to the Community Incentive Grant Program. The forecast assumes the continuation of this 2% increase each year.

Included in 2019 is $194,000 rebudgeted from the adopted 2010, 2011, 2012, 2013 and 2014 capital programs - see Appendix 4. This represents Councillor and Community Committee approved CIGP requests from the 2010, 2011, 2012, 2013 and 2014 capital budget that will be paid to the recipients once the projects are completed.

Operating expenses for 1.0 FTE Community Development Worker is budgeted in the Operating Budget but recovered through the Community Incentive Grant Program capital for direct costs to administer the program.

As this is a capital grant program, it is exempt from interest and administrative overhead capital charges.

* N/A - No amounts have been included in the "Previous Budgets" due to this program's on-going nature.

Project Name: **Assiniboine Park Conservancy (APC) - Infrastructure and Sustainability**

Standing Policy Committee: Protection, Community Services and Parks

Department: Community Services
Project: 6200000119
Service: Arts, Entertainment and Culture
OurWinnipeg: Creativity

AUTHORIZATION	Previous Budgets	2019 Estimate	FORECAST 2020	2021	2022	2023	2024	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	N/A*	5,123	2,000	2,000	2,000	2,000	2,000	10,000	15,123
Financed by:									
Cash to Capital			400	1,175	2,000	1,955	2,000	7,530	7,530
External Debt		5,123	1,600	825		45		2,470	7,593

CASH FLOW	2019	2020	2021	2022	2023	2024	Beyond 2024	Total
Project Costs ($000's)	5,123	2,000	2,000	2,000	2,000	2,000	-	15,123
Financed by:								
Cash to Capital		400	1,175	2,000	1,955	2,000		7,530
External Debt	5,123	1,600	825		45			7,593

NET OPERATING IMPACT ($000's)	2019	2020	2021
Operating costs			
Debt and finance charges	202	389	467
Transfer to General Capital Fund		400	1,175
Total Direct Costs	202	789	1,642
Less: Incremental Revenue/Recovery			
Net Cost/(Benefit)	202	789	1,642
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: Not applicable

These capital dollars represent the City's ongoing commitment to Assiniboine Park building repairs, upgrades and park improvements.

The first year of funding for this capital grant was 2010 with $5.123 million provided each year from 2010 to 2019 with the grant reduced to $2.0 million effective 2020 as per the Lease and Funding Agreement with APC.

The release of capital funds is subject to annual explanation and submission from APC of projected cash flow needs to the Public Service.

As this is a capital grant program, it is exempt from interest and administrative overhead capital charges.

* N/A - No amounts have been included in the "Previous Budgets" due to this program's on-going nature.

Project Name: **Assiniboine Park Conservancy (APC) - Capital Development Plan**

Standing Policy Committee: Protection, Community Services and Parks

Department: Community Services
Project: 6200000219
Service: Arts, Entertainment and Culture
OurWinnipeg: Creativity

AUTHORIZATION	Previous Budgets	2019 Estimate	FORECAST 2020	2021	2022	2023	2024	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	45,272	4,728	-	-	-	-	-	-	4,728
Financed by:									
External Debt		4,728							4,728

CASH FLOW	2019	2020	2021	2022	2023	2024	Beyond 2024	Total
Project Costs ($000's)	4,728	-	-	-	-	-	-	4,728
Financed by:								
External Debt	4,728							4,728

NET OPERATING IMPACT ($000's)	2019	2020	2020
Operating costs			
Debt and finance charges	186	297	297
Transfer to General Capital Fund			
Total Direct Costs	186	297	297
Less: Incremental Revenue/Recovery			
Net Cost/(Benefit)	186	297	297
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate:Not applicable

These capital dollars represent the City's ongoing commitment to the Assiniboine Park Conservancy - Capital Development Plan which is subject to a maximum contribution of 25% of the total capital costs based on APC's Ten-Year Capital Development Plan (2010 - 2019). APC is required to obtain matching funds from private sector donations and senior government contributions.

Based upon the APC Capital Development Plan, APC will submit on an annual basis its request for the City's contribution for the following funding year's development plan project(s). APC will include detailed information on planned projects including total costs and other funding sources. As Development Plans are completed, or require revision as time progresses, APC will develop and present new and amended Development Plans for Council approval.

Funding since 2010 (the first year for this capital project) has included the following in each years adopted capital budget for the Capital Development Plan:

2010 $2.849 million

2011 $4.500 million

2012 $4.500 million

2013 $7.503 million

2014 $9.251 million

2015 $5.700 million

2016 $0.969 million

2017 $0

2018 $10.0 million

for a total contribution of $45.272 million provided to APC for the Capital Development Plan to December 31, 2018.

Assiniboine Park Conservancy (APC) - Capital Development (continued):

Capital funding in the amount of $4.728 million in 2019 is to provide APC with final funding for Canada's Diversity Gardens and Phase 2 of the Kids Discovery Zone.

The total funds provided to APC for the Capital Development Plan will be $50 million as at December 31, 2019 thereby completing the City's obligation to fund $50 million of Capital Development improvements at Assiniboine Park.

As this is a capital grant program, it is exempt from interest and administrative overhead capital charges.

Project Name: **St. James Community Recreation Amenities**

Standing Policy Committee: Protection, Community Services and Parks

Department: Community Services
Project: 6255000419
Service: Recreation
OurWinnipeg: Recreation

AUTHORIZATION	Previous Budgets	2019 Estimate	FORECAST 2020	2021	2022	2023	2024	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	-	-	1,400	-	-	-	-	1,400	1,400
Financed by:									
Land Operating Reserve			1,400					1,400	1,400

CASH FLOW	2019	2020	2021	2022	2023	2024	Beyond 2024	Total
Project Costs ($000's)	-	1,400	-	-	-	-	-	1,400
Financed by:								
Land Operating Reserve		1,400						1,400

NET OPERATING IMPACT ($000's)	2019	2020	2021
Operating costs			
Debt and finance charges			
Transfer to General Capital Fund			
Total Direct Costs	-	-	
Less: Incremental Revenue/Recovery		46	
Net Cost/(Benefit)	-	(46)	-
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: Not applicable

These capital funds will provide new, enhanced or refurbished recreation and park amenities in the St. James community and include community input through a public consultation process. Funding is subject to the completion of the Vimy Arena re-zoning and land transfer.

On January 25, 2018, Council approved:

• That a $1.4 million commitment from the Land Operating Reserve, for investment in the development of recreation amenities within the Assiniboia Community Committee area be referred to the 2019 Budget;

• That a portion of the $1.4 million be used in consultation with the Public Service to enhance the trails, lighting, security and green space along Sturgeon Creek in the area of 255 Hamilton Avenue;

• That a public consultation process be implemented within the proximity of 255 Hamilton Avenue, subsequent to approval of the $1.4 million in the 2019 Budget, to seek community input on the development of recreation amenities with the remainder of the $1.4 million;

• That the public consultation be funded from the Commitment Reserve out of $50,000 set aside in the 2014 budget per the intention of Recommendation 9 of Item #9 of the Report of the Executive Policy Committee dated February 22, 2013, adopted by Council on February 27, 2013.

Depending on the results of the public consultation and the amenities decided upon, there may be an operating budget impact that will need to be included in the year following construction (e.g. 2021 or 2022). The exact operating impact will be confirmed once final decisions made through the public consultations.

Project Name: **East District Police Station**

Standing Policy Committee: Winnipeg Police Board

Department: Winnipeg Police Service
Project: 6331002819

Service: Police Response
OurWinnipeg: Collaborate to Make Safe Communities

AUTHORIZATION	Previous Budgets	2019 Estimate	FORECAST 2020	2021	2022	2023	2024	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	13,925	-	-	-	-	-	-	-	-
Financed by:									
Cash to Capital		1,056	1,056	1,056	1,056	1,089	1,155	5,412	6,468
Public Private Partnership Lease Payments		(1,056)	(1,056)	(1,056)	(1,056)	(1,089)	(1,155)	(5,412)	(6,468)

CASH FLOW	2019	2020	2021	2022	2023	2024	Beyond 2024	Total
Project Costs ($000's)	1,056	1,056	1,056	1,056	1,089	1,155	17,105	23,573
Financed by:								
Cash to Capital	1,056	1,056	1,056	1,056	1,089	1,155	17,105	23,573

NET OPERATING IMPACT ($000's)	2019	2020	2021
Operating costs	718	727	737
Debt and finance charges			
Transfer to General Capital Fund	1,056	1,056	1,056
Total Direct Costs	1,774	1,783	1,793
Less: Incremental Revenue/Recovery			
Net Cost/(Benefit)	1,774	1,783	1,793
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: 1

On July 18, 2007, Council approved the award of a public-private partnership (P3) contract for the development and operation of the East District Police Station based on a 30-year lease term. Occupancy date was in September 2008.

The above annual cash flow estimates include the authorization for the lease payments to be incurred and charged to the Project in the General Capital Fund. They include technical maintenance, but not utility and other operating maintenance expenses.

As financing and administration costs are implicit in the lease payments, this capital project is exempt from the administration and short-term financing charge.

On March 22, 2016, Council authorized a first charge of up to 30% of the annual lease payments prior to the adoption of the annual capital budget in the event the capital budget is adopted after December 31 in order to facilitate payments on the P3 contract.

In accordance with Bylaw 8164/2002 where the City's capital budget has not been adopted before January 1 of the year to which the budget is applicable, the Chief Administrative Officer is authorized, before the adoption of the capital budget, to approve expenditures not exceeding 30% of the amount the City of Winnipeg is contractually obligated to pay annually in respect of Public-Private Partnerships, as a first charge against the General Capital Fund. The amount for 2019 is $264,000 and represents 25% of the 2019 budget.

Project Name: **Major Case Management System**

Standing Policy Committee: Winnipeg Police Board

Department: Winnipeg Police Service
Project: 2202700019

Service: Police Response
OurWinnipeg: Collaborate to Make Safe Communities

AUTHORIZATION	Previous Budgets	2019 Estimate	FORECAST 2020	2021	2022	2023	2024	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	-	1,158	-	-	-	-	-	-	1,158
Financed by:									
Transfer from Prior Year Authorization		1,158						-	1,158

CASH FLOW	2019	2020	2021	2022	2023	2024	Beyond 2024	Total
Project Costs ($000's)	1,158		-	-	-	-	-	1,158
Financed by:								
Transfer from Prior Year Authorization	1,158							1,158

NET OPERATING IMPACT ($000's)	2019	2020	2021
Operating costs			
Debt and finance charges			
Transfer to General Capital Fund			
Total Direct Costs	-	-	-
Less: Incremental Revenue/Recovery			
Net Cost/(Benefit)	-	-	-
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: 3

The Service requires a software tool in conjunction with concept training to complete investigations to today's professional standards. This tool will identify gaps in investigation accountability, particularly in unsolved files, provide a mechanism to forward unsolved files in an electronic format, and allow better use of resources.

Funding in 2019 includes a re-budgeted amount from the 2016 approved capital budget - see Appendix 4.

Project Name: **Police Divisions Systems Upgrades**

Standing Policy Committee: Winnipeg Police Board

Department: Winnipeg Police Service
Project: 2205000019

Service: Police Response
OurWinnipeg: Collaborate to Make Safe Communities

AUTHORIZATION	Previous Budgets	2019 Estimate	FORECAST 2020	2021	2022	2023	2024	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	9,019	400	-	-	-	-	-	-	400
Financed by:									
Cash to Capital		400						-	400

CASH FLOW	2019	2020	2021	2022	2023	2024	Beyond 2024	Total
Project Costs ($000's)	400	-	-	-	-	-	-	400
Financed by:								
Cash to Capital	400							400

NET OPERATING IMPACT ($000's)	2019	2020	2021
Operating costs			
Debt and finance charges			
Transfer to General Capital Fund	400		
Total Direct Costs	400	-	-
Less: Incremental Revenue/Recovery	13		
Net Cost/(Benefit)	387	-	-
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: 3

The Winnipeg Police Service requires a number of network upgrades to its systems.

Project Name: **Technology Upgrades - Information Systems**

Standing Policy Committee: Winnipeg Police Board

Department: Winnipeg Police Service
Project: 2203200019

Service: Police Response
OurWinnipeg: Collaborate to Make Safe Communities

AUTHORIZATION	Previous Budgets	2019 Estimate	FORECAST 2020	2021	2022	2023	2024	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	-	1,200	-	-	-	-	1,200	1,200	2,400
Financed by:									
Cash to Capital		1,200					1,200	1,200	2,400

CASH FLOW	2019	2020	2021	2022	2023	2024	Beyond 2024	Total
Project Costs ($000's)	1,200	-	-	-	-	1,200	-	2,400
Financed by:								
Cash to Capital	1,200					1,200		2,400

NET OPERATING IMPACT ($000's)	2019	2020	2021
Operating costs			
Debt and finance charges			
Transfer to General Capital Fund	1,200		
Total Direct Costs	1,200	-	-
Less: Incremental Revenue/Recovery	39		
Net Cost/(Benefit)	1,161	-	-
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: 3

Technological changes in information systems requires upgrading and monitoring. Technology is changing rapidly and funding is required to maintain and upgrade systems.

This project is estimated in US dollars and converted to Canadian currency.

Project Name: **In Car Computing**

Standing Policy Committee: Winnipeg Police Board

Department: Winnipeg Police Service
Project: 2203700019

Service: Police Response
OurWinnipeg: Collaborate to Make Safe Communities

AUTHORIZATION	Previous Budgets	2019 Estimate	FORECAST 2020	2021	2022	2023	2024	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	-	1,000	500	-	-	-	-	500	1,500
Financed by:									
Cash to Capital		1,000	500					500	1,500

CASH FLOW	2019	2020	2021	2022	2023	2024	Beyond 2024	Total
Project Costs ($000's)	1,000	500	-	-	-	-	-	1,500
Financed by:								
Cash to Capital	1,000	500						1,500

NET OPERATING IMPACT ($000's)	2019	2020	2021
Operating costs			
Debt and finance charges			
Transfer to General Capital Fund	1,000	500	
Total Direct Costs	1,000	500	-
Less: Incremental Revenue/Recovery	33	16	
Net Cost/(Benefit)	967	484	-
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: 3

The mobile laptop technology in cruiser cars needs to be replaced every 5 to 6 years due to the obsolescence of this equipment and the harsh environment to which they are subjected. Currently there are about 200 mobile laptops in cruiser cars at a cost of $7,000 each. Part of this funding is for purchases of $100,000 for modem upgrades, brackets and mounting equipment used to attach the laptops to the vehicles. Ergonomically placed laptop computers are critical for prevention of back injuries to police officers.

This project is estimated in US dollars and converted to Canadian currency.

Project Name: **North Station Information Technology Requirements**

Standing Policy Committee: Winnipeg Police Board

Department: Winnipeg Police Service
Project: 2201700019

Service: Police Response
OurWinnipeg: Collaborate to Make Safe Communities

AUTHORIZATION	Previous Budgets	2019 Estimate	FORECAST 2020	2021	2022	2023	2024	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	-	300	-	190	-	-	-	190	490
Financed by:									
Cash to Capital		300		190				190	490

CASH FLOW	2019	2020	2021	2022	2023	2024	Beyond 2024	Total
Project Costs ($000's)	300	-	190	-	-	-	-	490
Financed by:								
Cash to Capital	300		190					490

NET OPERATING IMPACT ($000's)	2019	2020	2021
Operating costs			
Debt and finance charges			
Transfer to General Capital Fund	300		190
Total Direct Costs	300	-	190
Less: Incremental Revenue/Recovery	10		6
Net Cost/(Benefit)	290	-	184
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: 3

New District 3 (North Station) information technology requirements to align with capital funding allocated for new station in 2020.

Project Name: **North District Station - Furniture, Fixtures and Equipment**

Standing Policy Committee: Winnipeg Police Board

Department: Winnipeg Police Service
Project: 2206000021

Service: Police Response
OurWinnipeg: Collaborate to Make Safe Communities

AUTHORIZATION	Previous Budgets	2019 Estimate	FORECAST 2020	2021	2022	2023	2024	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	-	-	-	700	-	-	-	700	700
Financed by:									
Cash to Capital				700				700	700

CASH FLOW	2019	2020	2021	2022	2023	2024	Beyond 2024	Total
Project Costs ($000's)	-	-	700	-	-	-	-	700
Financed by:								
Cash to Capital			700					700

NET OPERATING IMPACT ($000's)	2019	2020	2021
Operating costs			
Debt and finance charges			
Transfer to General Capital Fund			700
Total Direct Costs	-	-	700
Less: Incremental Revenue/Recovery			23
Net Cost/(Benefit)	-	-	677
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: 3

To provide furniture, fixtures, and equipment for the new North District Station.

Project Name: **Evidence Archival Building Tenant Improvement**

Standing Policy Committee: Winnipeg Police Board

Department: Winnipeg Police Service
Project: 2205800019

Service: Police Response
OurWinnipeg: Collaborate to Make Safe Communities

AUTHORIZATION	Previous Budgets	2019 Estimate	FORECAST 2020	2021	2022	2023	2024	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	-	500	500	-	-	-	-	500	1,000
Financed by:									
External Debt		500	500					500	1,000

CASH FLOW	2019	2020	2021	2022	2023	2024	Beyond 2024	Total
Project Costs ($000's)	500	500	-	-	-	-	-	1,000
Financed by:								
External Debt	500	500						1,000

NET OPERATING IMPACT ($000's)	2019	2020	2021
Operating costs			
Debt and finance charges	20	52	65
Transfer to General Capital Fund			
Total Direct Costs	20	52	65
Less: Incremental Revenue/Recovery	16	16	
Net Cost/(Benefit)	4	36	65
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: 5

This building is required to provide for the growth in space requirements for the Evidence Control unit. While the new headquarters has provided comparable square footage it has not provided comparable cubic footage, and with additional number of exhibits that need to be stored every year space requirements will continue to grow.

Construction will not proceed until a Class 3 estimate is obtained.

Project Name: **Evidence Archive Racking System**

Standing Policy Committee: Winnipeg Police Board

Department: Winnipeg Police Service
Project: 2205900020

Service: Police Response
OurWinnipeg: Collaborate to Make Safe Communities

AUTHORIZATION	Previous Budgets	2019 Estimate	FORECAST 2020	2021	2022	2023	2024	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	-	-	841	-	-	-	-	841	841
Financed by:									
External Debt			841					841	841

CASH FLOW	2019	2020	2021	2022	2023	2024	Beyond 2024	Total
Project Costs ($000's)	-	841	-	-	-	-	-	841
Financed by:								
External Debt		841						841

NET OPERATING IMPACT ($000's)	2019	2020	2021
Operating costs			
Debt and finance charges		53	108
Transfer to General Capital Fund			
Total Direct Costs	-	53	108
Less: Incremental Revenue/Recovery		27	
Net Cost/(Benefit)	-	26	108
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: 5

An Archive Racking System will be required once a new location has been selected to house the archived exhibits which will allow efficient utilization of space.

Project Name: **Computer Assisted Dispatch Upgrade**

Standing Policy Committee: Winnipeg Police Board

Department: Winnipeg Police Service
Project: 2204700017

Service: Police Response
OurWinnipeg: Collaborate to Make Safe Communities

AUTHORIZATION	Previous Budgets	2019 Estimate	FORECAST 2020	2021	2022	2023	2024	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	250	-	325	-	-	375	-	700	700
Financed by:									
Cash to Capital			325			375		700	700

CASH FLOW	2019	2020	2021	2022	2023	2024	Beyond 2024	Total
Project Costs ($000's)	-	325	-	-	375	-	-	700
Financed by:								
Cash to Capital		325			375			700

NET OPERATING IMPACT ($000's)	2019	2020	2021
Operating costs			
Debt and finance charges			
Transfer to General Capital Fund		325	
Total Direct Costs	-	325	-
Less: Incremental Revenue/Recovery		11	
Net Cost/(Benefit)	-	314	-
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: 3

The Winnipeg Police Service's Computer Assisted Dispatch System will require an upgrade, the last one occurring in 2017. Rather than waiting and doing a number of upgrades at one time, the plan now is to upgrade more often to keep the systems current.

This project is estimated in US dollars and converted to Canadian currency.

Project Name: **Next Generation 911**

Standing Policy Committee: Winnipeg Police Board

Department: Winnipeg Police Service
Project: 2203600020

Service: Police Response
OurWinnipeg: Collaborate to Make Safe Communities

AUTHORIZATION	Previous Budgets	2019 Estimate	FORECAST 2020	2021	2022	2023	2024	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	-	-	800	1,000	-	-	-	1,800	1,800
Financed by:									
Cash to Capital			800	1,000				1,800	1,800

CASH FLOW	2019	2020	2021	2022	2023	2024	Beyond 2024	Total
Project Costs ($000's)	-	800	1,000	-	-	-	-	1,800
Financed by:								
Cash to Capital		800	1,000					1,800

NET OPERATING IMPACT ($000's)	2019	2020	2021
Operating costs			
Debt and finance charges			
Transfer to General Capital Fund		800	1,000
Total Direct Costs	-	800	1,000
Less: Incremental Revenue/Recovery		26	33
Net Cost/(Benefit)	-	774	967
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: 3

Technological changes in 911 to include the latest upgrades to telephony and 911 systems with provisions for video/testing and other technological advancements. This will include upgrade to a fully Public Safety grade IP (Internet Protocol) network at both the primary and back up PSAP (Public Safety Answering Point), and the required upgrades to operational SOG's (Standard Operating Guidelines) and inter-operability with partner agencies.

This project is estimated in US dollars and converted to Canadian currency.

Project Name: **Automated Fingerprint Identification System (AFIS)**

Standing Policy Committee: Winnipeg Police Board

Department: Winnipeg Police Service
Project: 2205600021

Service: Police Response
OurWinnipeg: Collaborate to Make Safe Communities

AUTHORIZATION	Previous Budgets	2019 Estimate	FORECAST 2020	2021	2022	2023	2024	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	500	-	-	500	-	-	-	500	500
Financed by:									
Cash to Capital				500				500	500

CASH FLOW	2019	2020	2021	2022	2023	2024	Beyond 2024	Total
Project Costs ($000's)	-	-	500	-	-	-	-	500
Financed by:								
Cash to Capital			500					500

NET OPERATING IMPACT ($000's)	2019	2020	2021
Operating costs			
Debt and finance charges			
Transfer to General Capital Fund			500
Total Direct Costs	-	-	500
Less: Incremental Revenue/Recovery			16
Net Cost/(Benefit)	-	-	484
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: 3

The PMA (Programmable Matching Accelerator) is a critical component of the Automated Fingerprint Identification System, which is used to capture and search fingerprint records. At the current rate, our existing system will reach its capacity in 2021. This amount is requested to increase storage capacity.

This project is estimated in US dollars and converted to Canadian currency.

Project Name: **Schedule and Management System Upgrade**

Standing Policy Committee: Winnipeg Police Board

Department: Winnipeg Police Service
Project: 2204800021

Service: Police Response
OurWinnipeg: Collaborate to Make Safe Communities

AUTHORIZATION	Previous Budgets	2019 Estimate	FORECAST 2020	2021	2022	2023	2024	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	-	-	-	500	-	-	-	500	500
Financed by:									
Cash to Capital				500				500	500

CASH FLOW	2019	2020	2021	2022	2023	2024	Beyond 2024	Total
Project Costs ($000's)	-	-	500	-	-	-	-	500
Financed by:								
Cash to Capital			500					500

NET OPERATING IMPACT ($000's)	2019	2020	2021
Operating costs			
Debt and finance charges			
Transfer to General Capital Fund			500
Total Direct Costs	-	-	500
Less: Incremental Revenue/Recovery			16
Net Cost/(Benefit)	-	-	484
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: 5

The Schedule and Management System is an in-house developed rostering and overtime control system. It will have been in production for about 20 years in 2021 and will require a major re-write.

Project Name: **Police Headquarters Information System Upgrades**

Standing Policy Committee: Winnipeg Police Board

Department: Winnipeg Police Service
Project: 2204900021

Service: Police Response
OurWinnipeg: Collaborate to Make Safe Communities

AUTHORIZATION	Previous Budgets	2019 Estimate	FORECAST 2020	2021	2022	2023	2024	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	-	-	-	2,100	-	-	-	2,100	2,100
Financed by:									
Cash to Capital				2,100				2,100	2,100

CASH FLOW	2019	2020	2021	2022	2023	2024	Beyond 2024	Total
Project Costs ($000's)	-	-	2,100	-	-	-	-	2,100
Financed by:								
Cash to Capital			2,100					2,100

NET OPERATING IMPACT ($000's)	2019	2020	2021
Operating costs			
Debt and finance charges			
Transfer to General Capital Fund			2,100
Total Direct Costs	-	-	2,100
Less: Incremental Revenue/Recovery			68
Net Cost/(Benefit)	-	-	2,032
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: 5

The Police Service has identified a number of information system upgrades required as the headquarters (HQ) items placed in 2014 will need replacing:

HQ Information Technology server and storage replacement	420,000
HQ Network Switching and Firewall Equipment	1,680,000
	2,100,000

Project Name: **Communication Centre Back Up Site Upgrade**

Standing Policy Committee: Winnipeg Police Board

Department: Winnipeg Police Service
Project: 2202900021

Service: Police Response
OurWinnipeg: Collaborate to Make Safe Communities

AUTHORIZATION	Previous Budgets	2019 Estimate	FORECAST 2020	2021	2022	2023	2024	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	-	-	-	550	-	-	-	550	550
Financed by:									
Cash to Capital				550				550	550

CASH FLOW	2019	2020	2021	2022	2023	2024	Beyond 2024	Total
Project Costs ($000's)	-	-	550	-	-	-	-	550
Financed by:								
Cash to Capital			550					550

NET OPERATING IMPACT ($000's)	2019	2020	2021
Operating costs			
Debt and finance charges			
Transfer to General Capital Fund			550
Total Direct Costs	-	-	550
Less: Incremental Revenue/Recovery			18
Net Cost/(Benefit)	-	-	532
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: 3

To upgrade technical equipment in the 911 backup facility in 2021 for $200,000.

Radio earpieces and accessories replacement - 1,000 units at $100 each for a total capital cost of $100,000.

Portable radio battery upgrade - 2,000 units at $125 each for a total capital cost of $250,000.

This project is estimated in US dollars and converted to Canadian currency.

Project Name: **Flight Operations Overhaul**

Standing Policy Committee: Winnipeg Police Board

Department: Winnipeg Police Service
Project: 2205200022

Service: Police Response
OurWinnipeg: Collaborate to Make Safe Communities

AUTHORIZATION	Previous Budgets	2019 Estimate	FORECAST 2020	2021	2022	2023	2024	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	-	-	-	-	602	-	-	602	602
Financed by:									
Cash to Capital					602			602	602

CASH FLOW	2019	2020	2021	2022	2023	2024	Beyond 2024	Total
Project Costs ($000's)	-	-	-	602	-	-	-	602
Financed by:								
Cash to Capital				602				602

NET OPERATING IMPACT ($000's)	2019	2020	2021
Operating costs			
Debt and finance charges			
Transfer to General Capital Fund			
Total Direct Costs	-	-	-
Less: Incremental Revenue/Recovery			
Net Cost/(Benefit)	-	-	-
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: 5

Helicopter will require a complete overhaul as part of the scheduled 12,000 hour inspection.

Project Name: **Building Video Surveillance Systems**

Standing Policy Committee: Winnipeg Police Board

Department: Winnipeg Police Service
Project: 2202400022

Service: Police Response
OurWinnipeg: Collaborate to Make Safe Communities

AUTHORIZATION	Previous Budgets	2019 Estimate	FORECAST 2020	2021	2022	2023	2024	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	-	-	-	-	3,056	-	-	3,056	3,056
Financed by:									
Cash to Capital					3,056			3,056	3,056

CASH FLOW	2019	2020	2021	2022	2023	2024	Beyond 2024	Total
Project Costs ($000's)	-	-	-	3,056	-	-	-	3,056
Financed by:								
Cash to Capital				3,056				3,056

NET OPERATING IMPACT ($000's)	2019	2020	2021
Operating costs			
Debt and finance charges			
Transfer to General Capital Fund			
Total Direct Costs	-	-	-
Less: Incremental Revenue/Recovery			
Net Cost/(Benefit)	-	-	-
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: 5

To anticipate the need to have a service-wide prisoner tracking system. This may be a legislative requirement in the future.

This project is estimated in US dollars and converted to Canadian currency.

Project Name: **Call Answer Software**

Standing Policy Committee: Winnipeg Police Board

Department: Winnipeg Police Service
Project: 2205200022

Service: Police Response
OurWinnipeg: Collaborate to Make Safe Communities

AUTHORIZATION	Previous Budgets	2019 Estimate	FORECAST 2020	2021	2022	2023	2024	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	-	-	-	-	1,000	-	-	1,000	1,000
Financed by:									
Cash to Capital					1,000			1,000	1,000

CASH FLOW	2019	2020	2021	2022	2023	2024	Beyond 2024	Total
Project Costs ($000's)	-	-	-	1,000	-	-	-	1,000
Financed by:								
Cash to Capital				1,000				1,000

NET OPERATING IMPACT ($000's)	2019	2020	2021
Operating costs			
Debt and finance charges			
Transfer to General Capital Fund			
Total Direct Costs	-	-	-
Less: Incremental Revenue/Recovery			
Net Cost/(Benefit)	-	-	-
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: 5

To purchase a software system to assist in call answering for the Communication Centre.

This project is estimated in US dollars and converted to Canadian currency.

Project Name: **Flight Operations - Forward Looking Infra-Red (FLIR) Equipment**

Standing Policy Committee: Winnipeg Police Board

Department: Winnipeg Police Service
Project: 2205300022

Service: Police Response
OurWinnipeg: Collaborate to Make Safe Communities

AUTHORIZATION	Previous Budgets	2019 Estimate	FORECAST 2020	2021	2022	2023	2024	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	-	-	-	-	658	-	-	658	658
Financed by:									
Cash to Capital					658			658	658

CASH FLOW	2019	2020	2021	2022	2023	2024	Beyond 2024	Total
Project Costs ($000's)	-	-	-	658	-	-	-	658
Financed by:								
Cash to Capital				658				658

NET OPERATING IMPACT ($000's)	2019	2020	2021
Operating costs			
Debt and finance charges			
Transfer to General Capital Fund			
Total Direct Costs	-	-	-
Less: Incremental Revenue/Recovery			
Net Cost/(Benefit)	-	-	-
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: 5

To replace the existing Forward Looking Infra-Red equipment installed on the helicopter, as it is reaching the end of its life expectancy.

This project is estimated in US dollars and converted to Canadian currency.

Project Name: **Technical Surveillance Systems**

Standing Policy Committee: Winnipeg Police Board

Department: Winnipeg Police Service
Project: 2205400022

Service: Police Response
OurWinnipeg: Collaborate to Make Safe Communities

AUTHORIZATION	Previous Budgets	2019 Estimate	FORECAST 2020	2021	2022	2023	2024	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	-	-	-	-	1,300	-	-	1,300	1,300
Financed by:									
Cash to Capital					1,300			1,300	1,300

CASH FLOW	2019	2020	2021	2022	2023	2024	Beyond 2024	Total
Project Costs ($000's)	-	-	-	1,300	-	-	-	1,300
Financed by:								
Cash to Capital				1,300				1,300

NET OPERATING IMPACT ($000's)	2019	2020	2021
Operating costs			
Debt and finance charges			
Transfer to General Capital Fund			
Total Direct Costs	-	-	-
Less: Incremental Revenue/Recovery			
Net Cost/(Benefit)	-	-	-
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: 5

To update voice and data intercept systems.

This project is estimated in US dollars and converted to Canadian currency.

Project Name: **Body Worn Cameras**

Standing Policy Committee: Winnipeg Police Board

Department: Winnipeg Police Service
Project: 2205600023

Service: Police Response
OurWinnipeg: Collaborate to Make Safe Communities

AUTHORIZATION	Previous Budgets	2019 Estimate	FORECAST 2020	2021	2022	2023	2024	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	-	-	-	-	-	1,014	-	1,014	1,014
Financed by:									
Cash to Capital						1,014		1,014	1,014

CASH FLOW	2019	2020	2021	2022	2023	2024	Beyond 2024	Total
Project Costs ($000's)	-	-	-	-	1,014	-	-	1,014
Financed by:								
Cash to Capital					1,014			1,014

NET OPERATING IMPACT ($000's)	2019	2020	2021
Operating costs			
Debt and finance charges			
Transfer to General Capital Fund			
Total Direct Costs	-	-	-
Less: Incremental Revenue/Recovery			
Net Cost/(Benefit)	-	-	-
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: 5

Funding for a body worn camera pilot project.

Project Name: **Communication Sites Upgrade - Audio Loggers**

Standing Policy Committee: Winnipeg Police Board

Department: Winnipeg Police Service
Project: 2205700023

Service: Police Response
OurWinnipeg: Collaborate to Make Safe Communities

AUTHORIZATION	Previous Budgets	2019 Estimate	FORECAST 2020	2021	2022	2023	2024	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	-	-	-	-	-	1,400	-	1,400	1,400
Financed by:									
Cash to Capital						1,400		1,400	1,400

CASH FLOW	2019	2020	2021	2022	2023	2024	Beyond 2024	Total
Project Costs ($000's)	-	-	-	-	1,400	-	-	1,400
Financed by:								
Cash to Capital					1,400			1,400

NET OPERATING IMPACT ($000's)	2019	2020	2021
Operating costs			
Debt and finance charges			
Transfer to General Capital Fund			
Total Direct Costs	-	-	-
Less: Incremental Revenue/Recovery			
Net Cost/(Benefit)	-	-	-
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: 5

Funding for upgrading Audio Loggers and related equipment at the 911 Communication centre and backup site. The Audio Loggers are evergreened on a 5-year plan to ensure operations of the main and back-up sites comply with Public Safety Answering Point legislation timelines for bringing systems back online.

This project is estimated in US dollars and converted to Canadian currency.

Project Name: **Communication Sites - Radio Consoles/Batteries**

Standing Policy Committee: Winnipeg Police Board

Department: Winnipeg Police Service
Project: 2206200024

Service: Police Response
OurWinnipeg: Collaborate to Make Safe Communities

AUTHORIZATION	Previous Budgets	2019 Estimate	FORECAST 2020	2021	2022	2023	2024	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	-	-	-	-	-	-	575	575	575
Financed by:									
Cash to Capital							575	575	575

CASH FLOW	2019	2020	2021	2022	2023	2024	Beyond 2024	Total
Project Costs ($000's)	-	-	-	-	-	575	-	575
Financed by:								
Cash to Capital						575		575

NET OPERATING IMPACT ($000's)	2019	2020	2021
Operating costs			
Debt and finance charges			
Transfer to General Capital Fund			
Total Direct Costs	-	-	-
Less: Incremental Revenue/Recovery			
Net Cost/(Benefit)	-	-	-
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: 5

Replacing radio consoles and batteries at the 911 Communication centre and backup site. The radio consoles are evergreened on a 5-year plan to ensure operations of the main and back-up sites comply with Public Safety Answering Point legislation timelines for bringing systems back online.

Project Name: **E-ticketing Hardware**

Standing Policy Committee: Winnipeg Police Board

Department: Winnipeg Police Service
Project: 2206300024

Service: Police Response
OurWinnipeg: Collaborate to Make Safe Communities

AUTHORIZATION	Previous Budgets	2019 Estimate	FORECAST 2020	2021	2022	2023	2024	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	700	-	-	-	-	-	300	300	300
Financed by:									
Cash to Capital							300	300	300

CASH FLOW	2019	2020	2021	2022	2023	2024	Beyond 2024	Total
Project Costs ($000's)	-	-	-	-	-	300	-	300
Financed by:								
Cash to Capital						300		300

NET OPERATING IMPACT ($000's)	2019	2020	2021
Operating costs			
Debt and finance charges			
Transfer to General Capital Fund			
Total Direct Costs	-	-	-
Less: Incremental Revenue/Recovery			
Net Cost/(Benefit)	-	-	-
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: 5

To replace e-ticketing hardware purchased in 2019 as this equipment needs to be evergreened every 5 years.

Project Name: **Back Up Centre Renovations**

Standing Policy Committee: Winnipeg Police Board

Department: Winnipeg Police Service
Project: 2206500024

Service: Police Response
OurWinnipeg: Collaborate to Make Safe Communities

AUTHORIZATION	Previous Budgets	2019 Estimate	FORECAST 2020	2021	2022	2023	2024	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	-	-	-	-	-	-	1,000	1,000	1,000
Financed by:									
Cash to Capital							1,000	1,000	1,000

CASH FLOW	2019	2020	2021	2022	2023	2024	Beyond 2024	Total
Project Costs ($000's)	-	-	-	-	-	1,000	-	1,000
Financed by:								
Cash to Capital						1,000		1,000

NET OPERATING IMPACT ($000's)	2019	2020	2021
Operating costs			
Debt and finance charges			
Transfer to General Capital Fund			
Total Direct Costs	-	-	-
Less: Incremental Revenue/Recovery			
Net Cost/(Benefit)	-	-	-
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: 5

To upgrade the Service's back-up centre so it can be utilized as the business continuity site.

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Project Name: **Facilities Optimization**

Standing Policy Committee: Protection, Community Services and Parks

Department: Winnipeg Fire Paramedic Service

Service: Fire and Rescue Response

Project: 2111XXXX20

OurWinnipeg: Emergency Preparedness, Response and Recovery

AUTHORIZATION	Previous Budgets	2019 Estimate	FORECAST 2020	2021	2022	2023	2024	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	N/A *	-	7,501	-	-	-	-	7,501	7,501
Financed by:									
Cash to Capital			4,690					4,690	4,690
External Debt			2,811					2,811	2,811

CASH FLOW	2019	2020	2021	2022	2023	2024	Beyond 2024	Total
Project Costs ($000's)	-	7,501	-	-	-	-	-	7,501
Financed by:								
Cash to Capital		4,690						4,690
External Debt		2,811						2,811

NET OPERATING IMPACT (000's)	2019	2020	2021
Operating costs			
Debt and finance charges		117	191
Transfer to General Capital Fund		4,690	
Total Direct Costs	-	4,807	191
Less: Incremental Revenue/Recovery		244	
Net Cost/(Benefit)	-	4,563	191
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: 5

With this capital funding the Winnipeg Fire Paramedic Service seeks to maximize the efficiency of the station network. This is achieved through relocations, replacements and major enhancements to stations that help reduce costs but maintain the desired level of response.

The existing program of work was significantly deferred in 2015 following the Fire Underwriters Survey in order to allow for a Standards of Coverage analysis to be undertaken. This work began in 2016 and completed in 2018. The department will be bringing a report forward to Council during 2019. Standards of Coverage will determine resource allocation in the community, and along with asset condition reports will determine priority for station optimization. At present the committed program of work is as follows:

2020:

Station 9 (Marion) and Station 15 (Autumnwood)

Future work:

Station 19 (Whytewold) and Station 36 (Portage) consolidation evaluation and design

Stations 1 (Ellen), 31 (Furby), 40 (Central Ambulance) and 5 (Sargent) evaluation and design

* N/A - No amounts have been included in the "Previous Budgets" due to this project's on-going nature.

Project Name: **Equipment Obsolescence**

Standing Policy Committee: Protection, Community Services and Parks

Department: Winnipeg Fire Paramedic Service

Service: Medical Response

Project: 2104XXXX19

OurWinnipeg: Emergency Preparedness, Response and Recovery

AUTHORIZATION	Previous Budgets	2019 Estimate	FORECAST 2020	2021	2022	2023	2024	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	N/A *	1,413	5,651	1,065	3,449	1,042	1,193	12,400	13,813
Financed by:									
Cash to Capital					1,478	101		1,579	1,579
Shared Health Capital Grant**		1,014	984	779	22			1,785	2,799
External Debt			4,667	286	1,949	941	1,193	9,036	9,036
Internal Financing		399							399

CASH FLOW	2019	2020	2021	2022	2023	2024	Beyond 2024	Total
Project Costs ($000's)	1,413	5,651	1,065	3,449	1,042	1,193	-	13,813
Financed by:								
Cash to Capital				1,478	101			1,579
Shared Health Capital Grant**	1,014	984	779	22				2,799
External Debt		4,667	286	1,949	941	1,193		9,036
Internal Financing	399							399

NET OPERATING IMPACT (000's)	2019	2020	2021
Operating costs			
Debt and finance charges	44	620	1,204
Transfer to General Capital Fund			
Total Direct Costs	44	620	1,204
Less: Incremental Revenue/Recovery	26	164	44
Net Cost/(Benefit)	18	456	1,160
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: 3 - applies to 2019 only

These capital funds support an ongoing program that deals with the replacement of equipment that is at end of its operating life to ensure the continuity of front line emergency services.

The Fire Paramedic Service needs to replace the following specialized equipment in a cyclical process as it nears the end of its operating life:

2019

- Air compressors used to refill oxygen bottles for use in Self-Contained Breathing Apparatus (SCBA), which allow fire fighters to breathe when entering a building, to check for occupants, and to extinguish fires;

- Cardiac monitor/defibrillators to provide paramedics with mobile patient cardiac monitoring and resuscitation capabilities;

- Power stretchers to transfer patients to and from ambulances safely and smoothly without causing paramedic injury;

- Vehicle hoists to enable safe elevation of fire apparatus to speed up mechanical repair and maintenance.

Equipment Obsolescence (continued):

2020

- Cardiac monitor/defibrillators to provide paramedics with mobile patient cardiac monitoring and resuscitation capabilities;
- Power stretchers to transfer patients to and from ambulances safely and smoothly without causing paramedic injury;
- SCBA equipment used by fire fighters.

2021

- Cardiac monitor/defibrillators to provide paramedics with mobile patient cardiac monitoring and resuscitation capabilities;
- Power stretchers to transfer patients to and from ambulances safely and smoothly without causing paramedic injury;
- Consoles used by emergency call takers and dispatchers.

* N/A - No amounts have been included in the "Previous Budgets" due to this project's on-going nature.

** This project will not proceed until confirmation of funding is received from Shared Health (Province of Manitoba reporting entity).

Project Name: **Station Capital Maintenance**

Standing Policy Committee: Protection, Community Services and Parks

Department: Winnipeg Fire Paramedic Service

Service: Fire and Rescue Response

Project: 2107XXX19

OurWinnipeg: Emergency Preparedness, Response and Recovery

AUTHORIZATION	Previous Budgets	2019 Estimate	FORECAST 2020	2021	2022	2023	2024	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	N/A *	3,447	2,688	2,826	2,906	1,489	1,531	11,440	14,887
Financed by:									
Cash to Capital					1,844	748		2,592	2,592
Shared Health Capital Grant**		519	477					477	996
External Debt			2,211	2,826	1,062	741	1,531	8,371	8,371
Internal Financing		2,148							2,148
Transfer from Prior Year Authorization		780							780

CASH FLOW	2019	2020	2021	2022	2023	2024	Beyond 2024	Total
Project Costs ($000's)	3,447	2,688	2,826	2,906	1,489	1,531	-	14,887
Financed by:								
Cash to Capital				1,844	748			2,592
Shared Health Capital Grant**	519	477						996
External Debt		2,211	2,826	1,062	741	1,531		8,371
Internal Financing	2,148							2,148
Transfer from Prior Year Authorization	780							780

NET OPERATING IMPACT (000's)	2019	2020	2021
Operating costs			
Debt and finance charges	235	599	892
Transfer to General Capital Fund			
Total Direct Costs	235	599	892
Less: Incremental Revenue/Recovery	101	127	303
Net Cost/(Benefit)	134	472	589
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: Not applicable, as this is a scalable program

These capital funds support an ongoing program of repair and structural maintenance to ensure station asset lives are maximized, thereby ensuring the service has an operable station network from which emergency response vehicles can be deployed across the whole city to meet required response times. Included in 2019 is $780,000 rebudgeted from the 2016 and 2017 adopted capital programs - see Appendix 4.

Station Capital Maintenance (continued):

2019

Funds will be allocated to the scheduled works list until exhausted. Incomplete projects will be deferred to a future year. The identified areas of work are:

- Building repairs and reconfiguration work at stations 22, 24, 14, 4;

- Roof replacement for stations 4, 5;

- Boiler replacement for stations 3, 8,14;

- Furnace replacement for stations 2, 4, 5;

- Routine program of station security upgrades - swipe card entry systems for stations 15, 19, 21.

2020

- Building repairs and reconfiguration to stations 5, 30, 3, 20;

- Roof replacement for stations 10, 17;

- Boiler replacement for stations 19, 20, 23;

- Furnace replacement at stations 6, 25, 26;

- Routine program of station security upgrades - swipe card entry systems for stations 23, 25, 26.

2021

- Building repairs and reconfiguration to 4 older stations;

- Perimeter induction (heating) system renewal various stations;

- Replacement of older boiler, furnaces and distribution systems various stations;

- Routine replacement of station roofs: two further stations based on inspection nearer the time.

2022 onwards

Funds will be applied to priority works identified in the Fire Underwriters Survey and guided by VFA Canada Asset Funding Needs Report in four categories:

- Building structural assessments and remediation work;

- Fire, life safety and regulatory upgrades;

- Building envelope repairs and maintenance;

- Building security work.

Work related to capital maintenance is prioritized for stations that are not being considered for optimization.

* N/A - No amounts have been included in the "Previous Budgets" due to this project's on-going nature.

** This project will not proceed until confirmation of funding is received from Shared Health (Province of Manitoba reporting entity).

Project Name: **Emergency Medical Services (EMS) Training Equipment**

Standing Policy Committee: Protection, Community Services and Parks

Department: Winnipeg Fire Paramedic Service

Service: Medical Response

Project: 2108XXXX20

OurWinnipeg: Emergency Preparedness, Response and Recovery

AUTHORIZATION	Previous Budgets	2019 Estimate	FORECAST 2020	2021	2022	2023	2024	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	-	-	108	-	-	-	-	108	108
Financed by:									
Shared Health Capital Grant**			108					108	108

CASH FLOW	2019	2020	2021	2022	2023	2024	Beyond 2024	Total
Project Costs ($000's)	-	108	-	-	-	-	-	108
Financed by:								
Shared Health Capital Grant**		108						108

NET OPERATING IMPACT (000's)	2019	2020	2021
Operating costs			
Debt and finance charges			
Transfer to General Capital Fund			
Total Direct Costs	-	-	-
Less: Incremental Revenue/Recovery		1	
Net Cost/(Benefit)	-	(1)	-
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: 3

The Emergency Medical Service (EMS) utilizes SimMan (adult male) and SimBaby (child) mannequins to provide high fidelity patient simulations during the training and recertification programs for paramedics.

This project will acquire a SimMom (adult female) mannequin to provide high fidelity simulation for patients in active labour in a pre-hospital setting along with SimView equipment to control the simulation.

SimView provides the instructor with remote operation of the mannequin away from the student to make the environment as realistic as possible. SimView enables the instructor to initiate mannequin responses to patient care decisions during a scenario, thus maximizing the learning experience for the student.

** This project will not proceed until confirmation of funding is received from Shared Health (Province of Manitoba reporting entity).

Project Name: **Computer Aided Dispatch (CAD) and Supporting Software Systems**

Standing Policy Committee: Protection, Community Services and Parks

Department: Winnipeg Fire Paramedic Service

Service: Fire and Rescue Response

Project: 2109XXXX19

OurWinnipeg: Emergency Preparedness, Response and Recovery

AUTHORIZATION	Previous Budgets	2019 Estimate	FORECAST 2020	2021	2022	2023	2024	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	-	11,225	-	-	-	-	-	-	11,225
Financed by:									
Shared Health Capital Grant**		344						-	344
Internal financing		10,881						-	10,881

CASH FLOW	2019	2020	2021	2022	2023	2024	Beyond 2024	Total
Project Costs ($000's)	3,320	4,134	3,771					11,225
Financed by:								
Shared Health Capital Grant**	344							344
Internal financing	2,976	4,134	3,771					10,881

NET OPERATING IMPACT (000's)	2019	2020	2021
Operating costs		847	1,097
Debt and finance charges	329	1,124	2,013
Transfer to General Capital Fund			
Total Direct Costs	329	1,971	3,110
Less: Incremental Revenue/Recovery	221	606	1,065
Net Cost/(Benefit)	108	1,365	2,045
Incremental Full Time Equivalent Positions	-	-	2.60

Class Estimate: 3

This program will replace the existing Computer Aided Dispatch (CAD) and associated IT systems over a 30-month period. These systems manage emergency call taking as well as fire and ambulance dispatch functions. The current system does not support the increasing number of interfaces that are required for current and future business processes. This project will provide system sustainability into the future, increase leverage to take advantage of Next Generation 911 call-taking opportunities, and improve response times through better data analytics.

The identified areas of work over the lifespan of the project are:

2019

- Purchase core CAD and Inter-Facility Transport system;

- Purchase and implement a Records Management system;

- Purchase and implement a Scheduling and Electronic Time Card system.

Computer Aided Dispatch (CAD) and Supporting Software Systems (continued):

2020

- Implement core CAD and Inter-Facility Transport system;
- Purchase and implement Station Alerting system;
- Implement Inter-Facility Transport Scheduling system;
- Replace the Automatic Vehicle Location (AVL) system in emergency vehicles.

2021

- Purchase and implement a Real-Time Analytics system to optimize resource deployment;
- Evaluate hardware and software performance and training and make required adjustments;
- Conclude all projects.

These upgrades will result in additional software support costs and information technology support services equivalent to 2.6 FTEs.

The program may include a maximum of 11 temporary capital funded FTEs.

** This project will not proceed until confirmation of funding is received from Shared Health (Province of Manitoba reporting entity).

Project Name: **Computer Automation**

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Standing Policy Committee: Property and Development, Heritage, and Downtown Development

Department: Planning, Property and Development

Service: Property Asset Management

Project: 6361000419

OurWinnipeg: Prosperity

AUTHORIZATION	Previous Budgets	2019 Estimate	FORECAST 2020	2021	2022	2023	2024	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	N/A *	133	119	143	-	-	100	362	495
Financed by:									
Cash to Capital		133	119	143			100	362	495

CASH FLOW	2019	2020	2021	2022	2023	2024	Beyond 2024	Total
Project Costs ($000's)	133	119	143	-	-	100	-	495
Financed by:								
Cash to Capital	133	119	143			100		495

NET OPERATING IMPACT ($000's)	2019	2020	2021
Operating costs			
Debt and finance charges			
Transfer to General Capital Fund	133	119	143
Total Direct Costs	133	119	143
Less: Incremental Revenue/Recovery	4	4	5
Net Cost/(Benefit)	129	115	138
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: Not applicable, as this is a scalable program

This is an on-going office automation program. Its primary goals are to deliver cost-effective solutions that provide convenient customer service to our citizens and to improve organizational efficiencies. These goals can be achieved through expansion of online services, office/ workflow automation, re-engineering of legacy systems, electronic documents management, and systems integration (e.g. database synchronization) between PPD's applications and those of other departments.

It is anticipated that maintaining and improving a solid technological framework can provide the basis for organizational improvements that increase efficiency and reliability. In order to improve service delivery, the goal is to make information more accessible, streamline workflows, and reduce any duplication of efforts. It can also be argued that some initiatives such as electronic document submissions are not only citizen-friendly but environmentally responsible as well.

A general program of ongoing system improvement is suggested and is seen as reasonable to ensure the continued longevity and viability of the City's investment in office automation.

* N/A - No amounts have been included in the "Previous Budgets" due to this project's on-going nature.

Project Name: **Riverbank Greenway Programs**

Standing Policy Committee: Water and Waste, Riverbank Management and the Environment

Department: Planning, Property and Development
Service: Land Drainage and Flood Control
Project: 6351300119
OurWinnipeg: Environment

AUTHORIZATION	Previous Budgets	2019 Estimate	FORECAST 2020	2021	2022	2023	2024	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	N/A *	205	227	212	-	-	129	568	773
Financed by:									
Cash to Capital		205	227	212			129	568	773

CASH FLOW	2019	2020	2021	2022	2023	2024	Beyond 2024	Total
Project Costs ($000's)	205	227	212	-	-	129	-	773
Financed by:								
Cash to Capital	205	227	212			129		773

NET OPERATING IMPACT ($000's)	2019	2020	2021
Operating costs			
Debt and finance charges			
Transfer to General Capital Fund	205	227	212
Total Direct Costs	205	227	212
Less: Incremental Revenue/Recovery	7	7	7
Net Cost/(Benefit)	198	220	205
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: Not applicable, as this is a scalable program

This program supports the acquisition of riverbank lands for the City's linear parkway system and promotes the use of the City's rivers and riverbanks by facilitating public access to rivers and riverbank lands and encouraging the use of Winnipeg rivers for transportation and recreation through the provision of boat launches, docks, pathways, and other accessibility improvements.

Funds provided are for implementation according to the prioritized river segments adopted by Council as opportunities present themselves and as needs dictate. Greenway funds focus on major parks, regional parks and green space connections to the watershed and are aligned to complement active transportation initiatives. Access improvements can take place on primary waterways (Red & Assiniboine) as well as secondary waterways (Seine River, Sturgeon Creek, Truro Creek, Bunn's Creek, Omands Creek).

Proposed projects for 2019 include, but are not limited to, the acquisition of riverbank land, Lyndale Drive Pathway Upgrade, Kildonan Park Dike Assessment, and the Gerald Lynch Park Boat Docks.

* N/A - No amounts have been included in the "Previous Budgets" due to this project's on-going nature.

Project Name: **Cemeteries - Improvements**

Standing Policy Committee: Property and Development, Heritage, and Downtown Development

Department: Planning, Property and Development
Service: Cemeteries

Project: 6322100119
OurWinnipeg: Vitality

AUTHORIZATION	Previous Budgets	2019 Estimate	FORECAST 2020	2021	2022	2023	2024	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	N/A*	940	1,048	936	386	242	240	2,852	3,792
Financed by:									
Cash to Capital		240	248	236	236	242	240	1,202	1,442
Veterans Affairs Canada		700	800	700	150			1,650	2,350

CASH FLOW	2019	2020	2021	2022	2023	2024	Beyond 2024	Total
Project Costs ($000's)	940	1,048	936	386	242	240	-	3,792
Financed by:								
Cash to Capital	240	248	236	236	242	240		1,442
Veterans Affairs Canada	700	800	700	150				2,350

NET OPERATING IMPACT ($000's)	2019	2020	2021
Operating costs			
Debt and finance charges			
Transfer to General Capital Fund	240	248	236
Total Direct Costs	240	248	236
Less: Incremental Revenue/Recovery	17	18	16
Net Cost/(Benefit)	223	230	220
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: Not applicable, as this is a scalable program

City funding is for the purchase and installation of columbaria and mausoleum interment facilities at City cemeteries. Also, Brookside Cemetery requires the establishment of new full body interment sections, including the installation of new roadways and landscaping, as existing interment sections are at capacity with less than 18 months of product remaining for sale in main sections. The Military Field of Honour (FOH) requires a new cremation interment area, to include columbaria, wall plaques, gardens and pathways. St. Vital cremation gardens requires extending to accommodate new product sales. These revenue-generating products/services will contribute to the Cemetery Service's goal of reaching financial self-sustainability. In addition, these funds are used for landscaping, materials and other costs comprising the City's contribution toward the FOH refurbishment project, which is described below.

Funding received from Veterans Affairs Canada (VAC), under a joint City-Federal funding project, is specifically for the refurbishment of the Military Field of Honour at Brookside Cemetery. The FOH is considered Canada's most significantly designated Military Field of Honour in which more than 10,000 Veterans, Service Men and Service Women and War Heroes are interred. All interments are marked by the Military Grey Barrie granite upright monument, mounted in a beam. The FOH refurbishment project involves the replacement of failed concrete beam foundations as well as the cutting, pinning, and cleaning of military monuments. VAC have provided funding for the Field of Honour since 2007 and will continue until the refurbishment is complete; anticipated timeline for completion is reduced to 5 years as VAC now has a funded program in place. The City contributes approximately $1 for every $3 contributed by VAC. This 5-year program will see all refurbishment complete and no funding required after 2022.

On October 26, 2016, Council approved that should future VAC funding commitments exceed the amount included in a given year's Cemeteries Improvements Capital Budget ("the incremental amount"), that budget be increased by the incremental amount, subject to the execution of a Letter of Agreement. As such, in those instances where VAC provides funding commitments to the City for the refurbishment of Brookside Cemetery Military Field of Honour in excess of the amount included in the Capital Budget, the appropriate year's Cemeteries Improvements Capital Budget will be increased by the incremental amount.

* N/A - No amounts have been included in the "Previous Budgets" due to this project's on-going nature.

Project Name: **Downtown Enhancement Program**

Standing Policy Committee: Property and Development, Heritage, and Downtown Development

Department: Planning, Property and Development
Service: City Beautification
Project: 6351800119
OurWinnipeg: Creativity

AUTHORIZATION	Previous Budgets	2019 Estimate	FORECAST 2020	2021	2022	2023	2024	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	N/A*	333	200	200	200	200	227	1,027	1,360
Financed by:									
Cash to Capital			200	200	200	200	227	1,027	1,027
Internal Financing		333						-	333

CASH FLOW	2019	2020	2021	2022	2023	2024	Beyond 2024	Total
Project Costs ($000's)	333	200	200	200	200	227	-	1,360
Financed by:								
Cash to Capital		200	200	200	200	227		1,027
Internal Financing	333							333

NET OPERATING IMPACT ($000's)	2019	2020	2021
Operating costs			
Debt and finance charges	36	74	74
Transfer to General Capital Fund		200	200
Total Direct Costs	36	274	274
Less: Incremental Revenue/Recovery	4	7	7
Net Cost/(Benefit)	32	193	193
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: Not applicable, as this is a scalable program

The program objective is the functional and aesthetic improvements and required upgrades to public spaces and streetscapes in the Downtown and Exchange District National Heritage Site. The funds enhance accessibility, safety, comfort and urban design quality of pedestrian environments and fulfill the commitment to the "Downtown First" philosophy. The Downtown Winnipeg Urban Design Guidelines provide the guiding principles to support design and enhance the livability of Winnipeg's Downtown Urban environment.

The program supports and develops ongoing partnership opportunities for future Public / Private development and redevelopment partnerships and projects such as: Old Market Square, Broadway, Hydro Tower, Millennium Library Park, Bonnycastle Park and the Assiniboine River walk. Projects have traditionally relied on and/or leveraged other partnership opportunities and have supported private redevelopments.

These public open space and streetscape improvements are over and above and exclusive of work assumed by the Public Works, Transit, and Water and Waste Departments who are responsible for existing infrastructure such as curbs, street and sidewalk repairs, street trees, planters, boulevards, required maintenance and accessibility standards.

Downtown Enhancement Program (continued):

Priorities in 2019 - 2024 include but are not limited to:

- Lombard Avenue and Westbrook (Richardson Innovation Centre)

- Air Canada Park

- Old Market Square

- Downtown and Exchange District Pedestrian Facilities Enhancements

- East Exchange Interpretative Strategies

- Chinatown

- Public Art Integration

- Halo SHED (Sports, Hospitality and Entertainment District) developments including 266 Graham Avenue, Garry Street, Smith Street, Edmonton Street and St. Mary Avenue

- Ross Avenue sidewalk improvements and streetscaping

- Alexander Docks

-Supporting Exchange and Downtown BIZ placemaking initiatives

-Streetscaping support for larger scoped Public Works initiatives

* N/A - No amounts have been included in the "Previous Budgets" due to this project's on-going nature.

Project Name: **BIZ Zones, Image Routes and Neighbourhood Main Streets**

Standing Policy Committee: Property and Development, Heritage, and Downtown Development

Department: Planning, Property and Development
Service: City Beautification
Project: 6351241519
OurWinnipeg: Creativity

AUTHORIZATION	Previous Budgets	2019 Estimate	FORECAST 2020	2021	2022	2023	2024	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	N/A*	332	200	200	200	200	226	1,026	1,358
Financed by:									
Cash to Capital			200	200	200	200	226	1,026	1,026
Internal Financing		332						-	332

CASH FLOW	2019	2020	2021	2022	2023	2024	Beyond 2024	Total
Project Costs ($000's)	332	200	200	200	200	226	-	1,358
Financed by:								
Cash to Capital		200	200	200	200	226		1,026
Internal Financing	332							332

NET OPERATING IMPACT ($000's)	2019	2020	2021
Operating costs			
Debt and finance charges	36	73	73
Transfer to General Capital Fund		200	200
Total Direct Costs	36	273	273
Less: Incremental Revenue/Recovery	4	7	7
Net Cost/(Benefit)	32	193	193
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: Not applicable, as this is a scalable program

The City of Winnipeg reinvests in partnered projects in Business Improvement Zone (BIZ) districts and Neighbourhood Main Streets. These areas have their own distinct character with their own style of mixed-use, walkable business districts that serve as the cores of their neighbourhoods. With the completion of "OurWinnipeg" and the adoption of the document "Complete Communities", these funds provide the opportunity for the City to work with the resident and business owners in 'partnerships' between the City, BIZ, private sector, not-for-profit, other funding agencies and other government bodies. This capital fund gives the incentive for the BIZ groups to go out and match dollars from sources other than the City. This capital fund, through partnerships, assists in stimulating community revitalization.

This enhancement program takes the form of decorative medians, pedestrian lighting, banner poles, special entry nodes, special pavement treatments, character signage, plants, trees and site furnishings, to ensure the renewal and sustainment of the infrastructure that creates a sense of place and destination in and along Business Improvement Zones and on Image Routes.

2019 - 2024: Projects are adjusted based upon community readiness and partnership opportunities.

These organizations utilize grants received from the City to leverage additional funding to undertake projects. Some of the BIZ's considered for funding in 2019, but not limited to, are; West End BIZ, Osborne Village BIZ, Norwood Grove BIZ, Transcona BIZ, West Broadway BIZ, Selkirk Ave BIZ and North End BIZ. Specific allocations to BIZ groups will be by separate Council report in early 2019. Project funding will be delivered as a grant to each BIZ group through legally executed Grant Agreements.

* N/A - No amounts have been included in the "Previous Budgets" due to this project's on-going nature.

Project Name: **Public Art Strategy**

Standing Policy Committee: Property and Development, Heritage, and Downtown Development

Department: Planning, Property and Development
Service: Arts, Entertainment and Culture

Project: 6351400719
OurWinnipeg: Creativity

AUTHORIZATION	Previous Budgets	2019 Estimate	FORECAST 2020	2021	2022	2023	2024	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	N/A*	-	500	500	500	500	500	2,500	2,500
Financed by:									
Cash to Capital			500	500	500	500	500	2,500	2,500

CASH FLOW	2019	2020	2021	2022	2023	2024	Beyond 2024	Total
Project Costs ($000's)	-	500	500	500	500	500	-	2,500
Financed by:								
Cash to Capital		500	500	500	500	500		2,500

NET OPERATING IMPACT ($000's)	2019	2020	2021
Operating costs			
Debt and finance charges			
Transfer to General Capital Fund		500	500
Total Direct Costs	-	500	500
Less: Incremental Revenue/Recovery		10	10
Net Cost/(Benefit)	-	490	490
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: Not applicable, as this is a scalable program

On September 24, 2003, Council approved in principle the Public Art Policy of the Mayor's Task Force on Public Art in Winnipeg and directed that the Chief Administrative Officer work in conjunction with WAC (Winnipeg Arts Council) to develop the necessary procedures for implementing the direction of the policy, including but not limited to those areas relating to governance and funding. Council adopted a Public Art Policy on October 27, 2004.

The Winnipeg Arts Council, as the City of Winnipeg's implementation partner, submits for approval annually, a plan for the works to be undertaken.

This program is excluded from administrative overhead capital charges.

* N/A - No amounts have been included in the "Previous Budgets" due to this project's on-going nature.

Project Name: **Land Acquisition for General Unspecified Purposes**

Standing Policy Committee: Property and Development, Heritage, and Downtown Development

Department: Planning, Property and Development | Service: Property Asset Management

Project: 6321100119 | OurWinnipeg: Prosperity

AUTHORIZATION	Previous Budgets	2019 Estimate	FORECAST 2020	2021	2022	2023	2024	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	N/A *	-	-	-	256	-	199	455	455
Financed by:									
Cash to Capital					256		199	455	455

CASH FLOW	2019	2020	2021	2022	2023	2024	Beyond 2024	Total
Project Costs ($000's)	-	-	-	256	-	199	-	455
Financed by:								
Cash to Capital				256		199		455

NET OPERATING IMPACT ($000's)	2019	2020	2021
Operating costs			
Debt and finance charges			
Transfer to General Capital Fund			
Total Direct Costs	-	-	-
Less: Incremental Revenue/Recovery			
Net Cost/(Benefit)	-	-	-
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: Not applicable, as this is a scalable program

General provision for the acquisition of land for purposes other than regional streets and riverbank property as well as for acquisition related expenses such as survey costs, site testing, appraisal fees, etc. which are not funded through a Council approved land acquisition program. This program budget provides a funding source for the acquisition of properties which are unforeseen at this time.

* N/A - No amounts have been included in the "Previous Budgets" due to this project's on-going nature.

Project Name: **Developer Payback**

Standing Policy Committee: Property and Development, Heritage, and Downtown Development

Department: Planning, Property and Development
Service: Parks and Urban Forestry

Project: 6351000219
OurWinnipeg: Environment

AUTHORIZATION	Previous Budgets	2019 Estimate	FORECAST 2020	2021	2022	2023	2024	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	N/A *	292	274	280	281	-	225	1,060	1,352
Financed by:									
Cash to Capital		292	274	280	281		225	1,060	1,352

CASH FLOW	2019	2020	2021	2022	2023	2024	Beyond 2024	Total
Project Costs ($000's)	292	274	280	281	-	225	-	1,352
Financed by:								
Cash to Capital	292	274	280	281		225		1,352

NET OPERATING IMPACT ($000's)	2019	2020	2021
Operating costs			
Debt and finance charges			
Transfer to General Capital Fund	292	274	280
Total Direct Costs	292	274	280
Less: Incremental Revenue/Recovery	9	9	9
Net Cost/(Benefit)	283	265	271
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: Not applicable, as this is a scalable program

The City of Winnipeg is legally obligated through the approved Development Agreement Parameters to provide payback on older Developer Agreements based on the approved 48/52 split on the development of park costs. The funding formula is that the City of Winnipeg contributes 52% to the park development costs. Additionally, recognizing the need to do work concurrently beyond the basic requirements of the Development Agreement, these funds will cover provision of basic amenities that are more cost-effective and practical to install at the time of initial development (such as pathways, lighting, site furnishings, tree planting), particularly for linear park developments.

Applications from some of the outstanding (older) agreements are now being received due to the current build out.

Calculations are based on industry consultation and the actual reviewed costs of works as they are completed each calendar year. Capital requirements are updated on an ongoing basis to reflect industry build out and Development Agreement amendments.

* N/A - No amounts have been included in the "Previous Budgets" due to this project's on-going nature.

Project Name: **Riverbank Stabilization - Physical Asset Protection**

Standing Policy Committee: Water and Waste, Riverbank Management and the Environment

Department: Planning, Property and Development
Service: Land Drainage and Flood Control
Project: 6351300219
OurWinnipeg: Environment

AUTHORIZATION	Previous Budgets	2019 Estimate	FORECAST 2020	2021	2022	2023	2024	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	N/A*	500	500	523	500	-	405	1,928	2,428
Financed by:									
Cash to Capital			500	523	500		405	1,928	1,928
External Debt		500						-	500

CASH FLOW	2019	2020	2021	2022	2023	2024	Beyond 2024	Total
Project Costs ($000's)	500	500	523	500	-	405	-	2,428
Financed by:								
Cash to Capital		500	523	500		405		1,928
External Debt	500							500

NET OPERATING IMPACT ($000's)	2019	2020	2021
Operating costs			
Debt and finance charges	31	62	62
Transfer to General Capital Fund		500	523
Total Direct Costs	31	562	585
Less: Incremental Revenue/Recovery	6	16	17
Net Cost/(Benefit)	25	546	568
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: Not applicable, as this is a scalable program

In 2000, the Riverbank Stability Characterization Study evaluated stability conditions of 106 km. of City owned riverbank property which comprises approximately 45% of all such river frontage within the City of Winnipeg. This initial assessment of City owned riverbanks has since been supplemented with a risk based asset management approach utilizing the proprietary Riverbank Asset Management System (RAMS), with a comprehensive update completed in 2015. To effectively provide erosion protection or stabilize all City owned riverbanks that generally exhibit positive benefit to cost ratio (considering the value of land lost over time to riverbank processes), a funding commitment of approximately $60 million would be required to fully address the 27 sites identified as "critical" and an additional $150 million to address the 89 sites categorized as "significant" (out of the 220 sites that have been assessed on the Red and Assiniboine Rivers).

To date, seven major priority sites have been stabilized via the Riverbank Stabilization and Physical Asset Protection Fund since 2003, namely, Annabella Street to May Street (2003), St. John's Park (2006), Bunn's Creek (2006), St. Vital Park (2008), Churchill Drive Park (2012), King's Park (2015) Guay Park (2016), and Tache between Provencher and Cathedral (2017) at a total cost of approximately $10 million.

The priority list provided below is not intended to be a program schedule and is subject to change with ongoing updates to RAMS, changes to the risk assessment, the results of investigations and monitoring programs, the addition of more sites to the database, or where cost savings can be achieved by collaborating with other City departments on specific projects. In particular, several of the following projects are interrelated with strategic Active Transportation projects.

Riverbank Stabilization - Physical Asset Protection (continued):

The project priority listing as of May 2018, including Class 5 cost estimates, is as follows:

Site	Amount
Assiniboine River - Wellington Cr - Lamont Blvd to Academy Rd (est. $2 million for riverbank erosion protection)	2,000,000
Red River - Osborne St - Brandon Ave to Woodward Ave (to support AT path development)	2,100,000
Red River - River Rd to Rivergate Dr (to support AT path development)	2,900,000
Red River - Crescent Dr Park	1,600,000
Red River - St. Cross St - Mortimer Pl to Anderson Ave	2,400,000
Red River - Canoe Club	6,400,000
Red River - Lyndale Drive Park and Lyndale Dr Lawndale Ave to Claremont Ave	3,400,000
Red River - D'arcy Dr	3,800,000
Red River - River Road at Minnetonka	1,100,000
Red River - Michelle Jean Park	2,000,000
Total	**27,700,000**

Geotechnical investigations and monitoring programs are underway at the Wellington Crescent, Osborne Street, River to Rivergate, Lyndale Drive Park and River Road at Minnetonka sites.

* N/A - No amounts have been included in the "Previous Budgets" due to this project's on-going nature.

Project Name: **General Building Renovation and Refurbishing**

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Standing Policy Committee: Property and Development, Heritage, and Downtown Development

Department: Municipal Accommodations
Service: Property Asset Management

Project: 6331000219
OurWinnipeg: Prosperity

AUTHORIZATION	Previous Budgets	2019 Estimate	FORECAST 2020	2021	2022	2023	2024	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	N/A *	180	250	500	-	-	310	1,060	1,240
Financed by:									
Cash to Capital		180	250	500			310	1,060	1,240

CASH FLOW	2019	2020	2021	2022	2023	2024	Beyond 2024	Total
Project Costs ($000's)	180	250	500	-	-	310	-	1,240
Financed by:								
Cash to Capital	180	250	500			310		1,240

NET OPERATING IMPACT ($000's)	2019	2020	2021
Operating costs			
Debt and finance charges			
Transfer to General Capital Fund	180	250	500
Total Direct Costs	180	250	500
Less: Incremental Revenue/Recovery	17	23	46
Net Cost/(Benefit)	163	227	454
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: Not applicable, as this is a scalable program

This is an ongoing program to fund small corporate moves, minor interior renovations and other miscellaneous projects for which no other separate financing is available. This program is fundamental for renovations and productivity gain, which facilitate client/activities.

* N/A - No amounts have been included in the "Previous Budgets" due to this project's on-going nature.

Project Name: **Public Safety Building and Civic Centre Parkade**

Standing Policy Committee: Property and Development, Heritage, and Downtown Development

Department: Municipal Accommodations
Service: Property Asset Management
Project: 63xxxxxx19
OurWinnipeg: Prosperity

AUTHORIZATION	Previous Budgets	2019 Estimate	FORECAST 2020	2021	2022	2023	2024	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	-	10,460	-	-	-	-	-	-	10,460
Financed by:									
Transfer from Winnipeg Parking Authority SOA (Proceeds from sale of Winnipeg Square Parkade held in Land Operating Reserve)		4,405						-	4,405
External Debt		6,055						-	6,055

CASH FLOW	2019	2020	2021	2022	2023	2024	Beyond 2024	Total
Project Costs ($000's)	10,460	-	-	-	-	-	-	10,460
Financed by:								
Transfer from Winnipeg Parking Authority SOA (Proceeds from sale of Winnipeg Square Parkade held in Land Operating Reserve)	4,405							4,405
External Debt	6,055							6,055

NET OPERATING IMPACT ($000's)	2019	2020	2021
Operating costs			
Debt and finance charges	239	380	380
Transfer to General Capital Fund			
Total Direct Costs	239	380	380
Less: Incremental Revenue/Recovery	369		-
Net Cost/(Benefit)	(130)	380	380
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: 3

This project encompasses the demolition of the former Public Safety Building (PSB) and Civic Centre Car Park (CP), and clearing of the associated civic lands on Princess Street to make way for the subsequent redevelopment by third-party developers. Upon adoption, within suitable timelines, the associated construction work is anticipated to commence early in the second quarter of 2019 and to conclude by the first quarter of 2020. Approval of this project will in part support CentreVenture Development Corporation's 2020 Business Plan, and will enable redevelopment and revitalization of the subject property within the Civic Campus/Exchange District area.

If capital project funding is not approved the PSB & CP buildings are not demolished, then:

• The Public Service will be obliged to continue asset operations/maintenance with associated funding implications;

• Over time, the risk of a structural failure of the CP building or PSB cladding will increase;

• CentreVenture Development Corporation cannot pursue redevelopment of the subject property, as part of their approved 2020 Business Plan;

• Reinvestment and revitalization of that part of Exchange District area of Downtown Winnipeg, will not occur.

Project Name: **Accommodation Facilities**

Standing Policy Committee: Property and Development, Heritage, and Downtown Development

Department: Municipal Accommodations
Service: Property Asset Management

Project: 6395000119
OurWinnipeg: Prosperity

AUTHORIZATION	Previous Budgets	2019 Estimate	FORECAST 2020	2021	2022	2023	2024	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	N/A*	2,019	1,700	1,775	978	1,844	2,929	9,226	11,245
Financed by:									
Cash to Capital		19		75	978	1,844	1,229	4,126	4,145
Land Operating Reserve		2,000	1,700	1,700			1,700	5,100	7,100

CASH FLOW	2019	2020	2021	2022	2023	2024	Beyond 2024	Total
Project Costs ($000's)	2,019	1,700	1,775	978	1,844	2,929	-	11,245
Financed by:								
Cash to Capital	19		75	978	1,844	1,229		4,145
Land Operating Reserve	2,000	1,700	1,700			1,700		7,100

NET OPERATING IMPACT ($000's)	2019	2020	2021
Operating costs			
Debt and finance charges			
Transfer to General Capital Fund	19		75
Total Direct Costs	19	-	75
Less: Incremental Revenue/Recovery	187	157	164
Net Cost/(Benefit)	(168)	(157)	(89)
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: Not applicable, as this is a scalable program

This program is for refurbishment and/or improvements to various City-owned facilities and includes interior, accessibility, elevator, escalator, heating, ventilation, air conditioning, electrical, plumbing, parking lot, building envelope and structural improvements. It also includes required upgrades to downtown walkways.

Planned projects for 2019 are noted below, however due to the age and ongoing deterioration of buildings and facilities, planned priorities may shift throughout the year if higher risk investments arise:

- Structural evaluation and Repair - 245 Smith Street
- HVAC Upgrade - 1155 Pacific
- Boiler and Cooling Tower Replacement - 185 King
- Roof & Attic Upgrades - 20 Westgate
- Roof Replacement - 260 Hartford
- Roof & Attic Upgrades - 500 Salter
- Roof Replacement - 601 Atkins
- Retro-Commissioning - Various Locations
- Roof Repair - 510 Main
- Building System upgrades (HVAC, Building Envelop, Electrical Structural etc.) - various locations

* N/A - No amounts have been included in the "Previous Budgets" due to this project's on-going nature.

Project Name: **Millennium Library - HVAC and Temperature Control Improvements**

Standing Policy Committee: Property and Development, Heritage, and Downtown Development

Department: Municipal Accommodations
Service: Property Asset Management

Project: 6395020120
OurWinnipeg: Prosperity

AUTHORIZATION	Previous Budgets	2019 Estimate	FORECAST 2020	2021	2022	2023	2024	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	700	-	750	-	-	-	-	750	750
Financed by:									
Cash to Capital			750					750	750

CASH FLOW	2019	2020	2021	2022	2023	2024	Beyond 2024	Total
Project Costs ($000's)	-	750	-	-	-	-	-	750
Financed by:								
Cash to Capital		750						750

NET OPERATING IMPACT ($000's)	2019	2020	2021
Operating costs			
Debt and finance charges			
Transfer to General Capital Fund		750	
Total Direct Costs	-	750	-
Less: Incremental Revenue/Recovery		69	
Net Cost/(Benefit)	-	681	-
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: 4

A redevelopment of the existing library located at 251 Donald was started in 2003 and was completed in 2005. The redevelopment was comprised of renovations of the existing space and the addition of a new fourth floor and a new reading terrace with a four story tall glass curtain wall along the southeast elevation of the building.

Since the redevelopment, the facility has experienced problems relating to solar heat gain, space temperature, air balance and static pressure and overall occupant comfort.

The variables that are impacting the building environment need to be addressed in order to reduce negative impacts on building infrastructure and occupant comfort. Addressing these variables (see listing below) will add to the service life of the facility, reduce energy costs and improve the indoor environment to clients using the services and programs provided by the Community Services Department.

• Heating, Ventilation and Cooling (HVAC) system inadequacies and imbalances

• The energy efficiency of the four story glass curtain wall is less than optimal

• A solar shade system installation at the glass curtain wall should be considered to reduce solar gain in the summer while allowing solar gain in the winter.

Preliminary design work in 2018 will provide a class 3 estimate prior to construction.

Project Name: **Fire / Life Safety / Regulatory Upgrades**

Standing Policy Committee: Property and Development, Heritage, and Downtown Development

Department: Municipal Accommodations | Service: Property Asset Management

Project: 6331000419 | OurWinnipeg: Prosperity

AUTHORIZATION	Previous Budgets	2019 Estimate	FORECAST 2020	2021	2022	2023	2024	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	N/A *	804	608	704	720	722	712	3,466	4,270
Financed by:									
Cash to Capital		45	608	704	720	722	712	3,466	3,511
Internal Financing		759						-	759

CASH FLOW	2019	2020	2021	2022	2023	2024	Beyond 2024	Total
Project Costs ($000's)	804	608	704	720	722	712	-	4,270
Financed by:								
Cash to Capital	45	608	704	720	722	712		3,511
Internal Financing	759							759

NET OPERATING IMPACT ($000's)	2019	2020	2021
Operating costs			
Debt and finance charges	83	168	168
Transfer to General Capital Fund	45	608	704
Total Direct Costs	128	776	872
Less: Incremental Revenue/Recovery	59	56	65
Net Cost/(Benefit)	69	720	807
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: Not applicable, as this is a scalable program

This program is for Fire/Life Safety/Regulatory Requirements which includes upgrading/replacement of fire safety systems, emergency lighting, regulatory upgrades, asbestos and other hazardous material abatement as identified through the Asset Management Program for various facilities to meet the requirements of Fire/Building Codes and changing Government Regulations. Facilities include all recreation and accommodation facilities.

Planned projects for 2019 are noted below, however due the age and ongoing deterioration of buildings and facilities, planned priorities may shift throughout the year if higher risk investments arise:

• LED Exit Signs and Visual Devices - 510 Main

• LED Exit Signs and Visual Devises - 251 Donald

• Fire Alarm Upgrade - 1155/1199 Pacific

• Fire alarm system upgrades, Fire Separations, Exit Signs, Asbestos Abatement, Hazardous materials Abatement, Elevator upgrades - Various locations

* N/A - No amounts have been included in the "Previous Budgets" due to this project's on-going nature.

Project Name: **Energy Conservation**

Standing Policy Committee: Property and Development, Heritage, and Downtown Development

Department: Municipal Accommodations | Service: Property Asset Management

Project: 6331000619 | OurWinnipeg: Prosperity

AUTHORIZATION	Previous Budgets	2019 Estimate	FORECAST 2020	2021	2022	2023	2024	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	N/A *	158	-	136	-	-	147	283	441
Financed by:									
Cash to Capital		158		136				136	294
Federal Gas Tax							147	147	147

CASH FLOW	2019	2020	2021	2022	2023	2024	Beyond 2024	Total
Project Costs ($000's)	158	-	136	-	-	147	-	441
Financed by:								
Cash to Capital	158		136					294
Federal Gas Tax						147		147

NET OPERATING IMPACT ($000's)	2019	2020	2021
Operating costs			
Debt and finance charges			
Transfer to General Capital Fund	158		136
Total Direct Costs	158	-	136
Less: Incremental Revenue/Recovery	15		13
Net Cost/(Benefit)	143	-	123
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: Not applicable, as this is a scalable program

This program is for energy conservation and retro-commissioning initiatives which include upgrading/replacement of building systems to improve energy efficiency and to provide anticipated long-term savings through reduced energy usage for various facilities. Facilities include all recreation and accommodation facilities.

Planned projects for 2019 are noted below, however due the age and ongoing deterioration of buildings and facilities, planned priorities may shift throughout the year if higher risk investments arise:

• Utility retrofits - various locations

• Lighting conversions - various locations

• Facility Audits - various locations

* N/A - No amounts have been included in the "Previous Budgets" due to this project's on-going nature.

Project Name: **Tenant Improvement Prepayment - Major Department**

Standing Policy Committee: Property and Development, Heritage, and Downtown Development

Department: Municipal Accommodations
Service: Property Asset Management
Project: 6331002321
OurWinnipeg: Prosperity

AUTHORIZATION	Previous Budgets	2019 Estimate	FORECAST 2020	2021	2022	2023	2024	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	N/A *	-	-	183	-	-	183	366	366
Financed by:									
Cash to Capital				183			183	366	366

CASH FLOW	2019	2020	2021	2022	2023	2024	Beyond 2024	Total
Project Costs ($000's)	-	-	183	-	-	183	-	366
Financed by:								
Cash to Capital			183			183		366

NET OPERATING IMPACT ($000's)	2019	2020	2021
Operating costs			
Debt and finance charges			
Transfer to General Capital Fund			183
Total Direct Costs	-	-	183
Less: Incremental Revenue/Recovery			17
Net Cost/(Benefit)	-	-	166
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: Not applicable, as this is a scalable program

Funds set aside for replacement of depreciated tenant improvements.

* N/A - No amounts have been included in the "Previous Budgets" due to this project's on-going nature.

Project Name: **Historic Buildings**

Standing Policy Committee: Property and Development, Heritage, and Downtown Development

Department: Municipal Accommodations | Service: Heritage Conservation

Project: 6331000719 | OurWinnipeg: Heritage

AUTHORIZATION	Previous Budgets	2019 Estimate	FORECAST 2020	2021	2022	2023	2024	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	N/A*	214	217	220	224	229	221	1,111	1,325
Financed by:									
Cash to Capital			217	220	224	229	221	1,111	1,111
Internal Financing		214						-	214

CASH FLOW	2019	2020	2021	2022	2023	2024	Beyond 2024	Total
Project Costs ($000's)	214	217	220	224	229	221	-	1,325
Financed by:								
Cash to Capital		217	220	224	229	221		1,111
Internal Financing	214							214

NET OPERATING IMPACT ($000's)	2019	2020	2021
Operating costs			
Debt and finance charges	23	47	47
Transfer to General Capital Fund		217	220
Total Direct Costs	23	264	267
Less: Incremental Revenue/Recovery	16	20	20
Net Cost/(Benefit)	7	244	247
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: Not applicable, as this is a scalable program

The City of Winnipeg has a substantial inventory of historic buildings that are steadily deteriorating. This program will provide for building system refurbishing, structural planning and remediation of further deterioration. Major structural repairs may be required.

Planned projects for 2019 are noted below, however due the age and ongoing deterioration of buildings and facilities, planned priorities may shift throughout the year if higher risk investments arise:

• Building Envelop upgrades - 56 Maple

• Building System upgrades - Various

* N/A - No amounts have been included in the "Previous Budgets" due to this project's on-going nature.

Project Name: **Generator Set Replacement and Upgrades**

Standing Policy Committee: Property and Development, Heritage, and Downtown Development

Department: Municipal Accommodations
Service: Property Asset Management
Project: 6331020819
OurWinnipeg: Prosperity

AUTHORIZATION	Previous Budgets	2019 Estimate	FORECAST 2020	2021	2022	2023	2024	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	N/A*	113	136	123	148	130	130	667	780
Financed by:									
Cash to Capital			136	123	148	130	130	667	667
Internal Financing		113						-	113

CASH FLOW	2019	2020	2021	2022	2023	2024	Beyond 2024	Total
Project Costs ($000's)	113	136	123	148	130	130	-	780
Financed by:								
Cash to Capital		136	123	148	130	130		667
Internal Financing	113							113

NET OPERATING IMPACT ($000's)	2019	2020	2021
Operating costs			
Debt and finance charges	12	25	25
Transfer to General Capital Fund		136	123
Total Direct Costs	12	161	148
Less: Incremental Revenue/Recovery	8	13	11
Net Cost/(Benefit)	4	148	137
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: Not applicable, as this is a scalable program

Emergency Generator Sets need to meet Code requirements for Health & Safety and current information technology operations requirements.

The emergency generator sets in a number of facilities are coming to the end of their useful life and there is a possibility existing generators are not functioning as intended in future power outages. Present building codes require additional equipment, needed for fire and life safety purposes, to be supplied with backup power from a generator. As such existing generators may not have the capacity to supply these systems. Building occupants are requesting backup power for their information technology operations which existing generator sets are not able to provide. Therefore, to meet the targeted performance, there is a need to strategically locate new generators in facilities as part of an overall city emergency preparedness plan.

Planned projects for 2019 are noted below, however due to the aged and ongoing deterioration of buildings and facilities, planned priorities may shift throughout the year if higher risk investments arise:

• Diesel exhaust fume mitigation - Air Scrubbers at 1155 Pacific

• Diesel exhaust fume mitigation - Air Scrubbers at 510 Main

• Generator upgrade and repair - various locations

* N/A - No amounts have been included in the "Previous Budgets" due to this project's on-going nature.

Project Name: **Security / Building Automation System Initiatives**

Standing Policy Committee: Property and Development, Heritage, and Downtown Development

Department: Municipal Accommodations | Service: Property Asset Management

Project: 6331002619 | OurWinnipeg: Prosperity

AUTHORIZATION	Previous Budgets	2019 Estimate	FORECAST 2020	2021	2022	2023	2024	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	N/A*	470	205	255	203	245	276	1,184	1,654
Financed by:									
Cash to Capital		215	205	255	203	245	276	1,184	1,399
Internal Financing		255						-	255

CASH FLOW	2019	2020	2021	2022	2023	2024	Beyond 2024	Total
Project Costs ($000's)	470	205	255	203	245	276	-	1,654
Financed by:								
Cash to Capital	215	205	255	203	245	276		1,399
Internal Financing	255							255

NET OPERATING IMPACT ($000's)	2019	2020	2021
Operating costs			
Debt and finance charges	28	56	56
Transfer to General Capital Fund	215	205	255
Total Direct Costs	243	261	311
Less: Incremental Revenue/Recovery	38	19	24
Net Cost/(Benefit)	205	242	287
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: Not applicable, as this is a scalable program.

Security/Building Automation systems include: Heating, Ventilation and Cooling (HVAC) controls, security systems and building access and monitoring systems.

Security has been noted as an on-going concern within all facilities. Enhanced security will reflect the evolving risk management needs to protect City staff and property from potential injury and loss and reduce legal liability. Possible upgrades may include security system improvements, system upgrades, access control and surveillance systems.

Present HVAC controls in buildings are aging and require replacement or upgrading to current standards. Up-to-date building HVAC controls are required for occupant comfort and contribute to reductions in energy consumption.

Planned projects for 2019 are noted below, however due the age and ongoing deterioration of buildings and facilities, planned priorities may shift throughout the year if higher risk investments arise:

- Access Controls and Intrusion System upgrades - Various Facilities
- CCTV System Upgrades- Various Facilities
- Building Automation System upgrades - Various Facilities
- Migration of 3rd party monitoring to ULC compliant Monitoring platform - Various Facilities
- Control monitoring station upgrade to meet ULC compliance standards
- Retro-Commissioning - Various Facilities

* N/A - No amounts have been included in the "Previous Budgets" due to this project's on-going nature.

Project Name: **Community Centres - Refurbishing and Improvements**

Standing Policy Committee: Property and Development, Heritage, and Downtown Development

Department: Municipal Accommodations | Service: Recreation

Project: 6390000119 | OurWinnipeg: Prosperity

AUTHORIZATION	Previous Budgets	2019 Estimate	FORECAST 2020	2021	2022	2023	2024	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	N/A*	673	266	331	327	330	385	1,639	2,312
Financed by:									
Cash to Capital			266	331	327	330	84	1,338	1,338
Federal Gas Tax / Surplus		299					301	301	600
Internal Financing		374						-	374

CASH FLOW	2019	2020	2021	2022	2023	2024	Beyond 2024	Total
Project Costs ($000's)	673	266	331	327	330	385	-	2,312
Financed by:								
Cash to Capital		266	331	327	330	84		1,338
Federal Gas Tax / Surplus	299					301		600
Internal Financing	374							374

NET OPERATING IMPACT ($000's)	2019	2020	2021
Operating costs			
Debt and finance charges	41	83	83
Transfer to General Capital Fund		266	331
Total Direct Costs	41	349	414
Less: Incremental Revenue/Recovery	49	25	31
Net Cost/(Benefit)	(8)	324	383
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: Not applicable, as this is a scalable program

Planned projects for 2019 are noted below, however due to the age and ongoing deterioration of buildings and facilities, planned priorities may shift throughout the year if higher risk investments arise.

This program is for refurbishment and improvements of Community Centres (CC).

Projects include the following:

- Roof replacement-Community Centres-various locations
- Fire life safety improvements- Community Centres- various locations
- HVAC improvements- Community Centres - various locations
- Building envelope refurbishment- Community Centres- various locations
- Electrical upgrades- Community Centres- various locations
- Parking lot and underground service improvements - various locations
- Building systems refurbishment- Community Centres - various locations

* N/A - No amounts have been included in the "Previous Budgets" due to this project's on-going nature.

Project Name: **Arenas**

Standing Policy Committee: Property and Development, Heritage, and Downtown Development

Department: Municipal Accommodations | Service: Recreation

Project: 6391000119 | OurWinnipeg: Prosperity

AUTHORIZATION	Previous Budgets	2019 Estimate	FORECAST 2020	2021	2022	2023	2024	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	N/A*	525	233	267	268	269	312	1,349	1,874
Financed by:									
Cash to Capital			233					233	233
Federal Gas Tax				267	268	269	312	1,116	1,116
Internal Financing		525						-	525

CASH FLOW	2019	2020	2021	2022	2023	2024	Beyond 2024	Total
Project Costs ($000's)	525	233	267	268	269	312	-	1,874
Financed by:								
Cash to Capital		233						233
Federal Gas Tax			267	268	269	312		1,116
Internal Financing	525							525

NET OPERATING IMPACT ($000's)	2019	2020	2021
Operating costs			
Debt and finance charges	57	116	116
Transfer to General Capital Fund		233	
Total Direct Costs	57	349	116
Less: Incremental Revenue/Recovery	38	22	19
Net Cost/(Benefit)	18	327	97
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: Not applicable, as this is a scalable program

This program is for refurbishment and/or improvements to various indoor arenas including ice plant component replacement, interior improvements, heating, ventilation and electrical improvements, replacement of rink components, building envelope and structural improvements.

Planned projects for 2019 are noted below, however due to the age and ongoing deterioration of buildings and facilities, planned priorities may shift throughout the year if higher risk investments arise:

- LED rink light conversion - Pioneer Arena
- LED rink light conversion - St. James Civic Centre
- Structural repairs - Various Arenas
- Rink floor replacement - Century Arena

* N/A - No amounts have been included in the "Previous Budgets" due to this project's on-going nature.

Project Name: **Indoor Aquatic Facilities**

Standing Policy Committee: Property and Development, Heritage, and Downtown Development

Department: Municipal Accommodations | Service: Recreation

Project: 6392000119 | OurWinnipeg: Prosperity

AUTHORIZATION	Previous Budgets	2019 Estimate	FORECAST 2020	2021	2022	2023	2024	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	N/A*	1,605	1,208	2,359	1,207	1,152	1,484	7,410	9,015
Financed by:									
Cash to Capital		408	1,208	1,344	141			2,693	3,101
Federal Gas Tax				1,015	1,066	1,152	1,484	4,717	4,717
Internal Financing		1,086						-	1,086
Transfer from Prior Year Authorization		111						-	111

CASH FLOW	2019	2020	2021	2022	2023	2024	Beyond 2024	Total
Project Costs ($000's)	1,605	1,208	2,359	1,207	1,152	1,484	-	9,015
Financed by:								
Cash to Capital	408	1,208	1,344	141				3,101
Federal Gas Tax			1,015	1,066	1,152	1,484		4,717
Internal Financing	1,086							1,086
Transfer from Prior Year Authorization	111							111

NET OPERATING IMPACT ($000's)	2019	2020	2021
Operating costs			
Debt and finance charges	119	240	240
Transfer to General Capital Fund	408	1,208	1,344
Total Direct Costs	527	1,448	1,584
Less: Incremental Revenue/Recovery	125	112	198
Net Cost/(Benefit)	402	1,336	1,386
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: Not applicable, as this is a scalable program

This program is for refurbishment and replacement of deteriorated building components/systems to selected aquatic facilities due to safety issues and aging building systems.

Planned projects for 2019 are noted below, however due to the age and ongoing deterioration of buildings and facilities, planned priorities may shift throughout the year if higher risk investments arise:

• Structural repairs, pool tank and deck re-tiling and re-grouting - Boni-Vital Pool +/- $1.3 million

• Main AHU replacement - Cindy Klassen Recreation Centre +/- $0.3 million

Funding in 2019 includes rebudgeted amounts amounts from the 2016 approved capital budget - see Appendix 4

* N/A - No amounts have been included in the "Previous Budgets" due to this project's on-going nature.

Project Name: **Outdoor Aquatic Facilities**

Standing Policy Committee: Property and Development, Heritage, and Downtown Development

Department: Municipal Accommodations | Service: Recreation

Project: 6393000119 | OurWinnipeg: Prosperity

AUTHORIZATION	Previous Budgets	2019 Estimate	FORECAST 2020	2021	2022	2023	2024	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	N/A*	169	170	342	170	170	204	1,056	1,225
Financed by:									
Cash to Capital			170	342	170	170	204	1,056	1,056
Federal Gas Tax / Surplus		169						-	169

CASH FLOW	2019	2020	2021	2022	2023	2024	Beyond 2024	Total
Project Costs ($000's)	169	170	342	170	170	204	-	1,225
Financed by:								
Cash to Capital		170	342	170	170	204		1,056
Federal Gas Tax / Surplus	169							169

NET OPERATING IMPACT ($000's)	2019	2020	2021
Operating costs			
Debt and finance charges			
Transfer to General Capital Fund		170	342
Total Direct Costs	-	170	342
Less: Incremental Revenue/Recovery	12	16	32
Net Cost/(Benefit)	(12)	154	310
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: Not applicable, as this is a scalable program

This program is for refurbishing/improvements to various outdoor facilities including wading pool basins, slide components, outdoor swimming pool tanks, mechanical systems and pool decks required due to aging building infrastructure.

Projects for 2019 include the following:

• Pool tank repairs - various outdoor pools

• Pool basin/tank repairs - various wading pools

• Mechanical upgrades - various outdoor pools

• Building repairs - various wading pools

* N/A - No amounts have been included in the "Previous Budgets" due to this project's on-going nature.

Project Name: **Recreation & Leisure Centres**

Standing Policy Committee: Property and Development, Heritage, and Downtown Development

Department: Municipal Accommodations | Service: Recreation

Project: 6394000119 | OurWinnipeg: Prosperity

AUTHORIZATION	Previous Budgets	2019 Estimate	FORECAST 2020	2021	2022	2023	2024	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	N/A*	106	107	109	111	113	109	549	655
Financed by:									
Cash to Capital			107	109	111	113	109	549	549
Federal Gas Tax / Surplus		106						-	106

CASH FLOW	2019	2020	2021	2022	2023	2024	Beyond 2024	Total
Project Costs ($000's)	106	107	109	111	113	109	-	655
Financed by:								
Cash to Capital		107	109	111	113	109		549
Federal Gas Tax / Surplus	106							106

NET OPERATING IMPACT ($000's)	2019	2020	2021
Operating costs			
Debt and finance charges			
Transfer to General Capital Fund		107	109
Total Direct Costs	-	107	109
Less: Incremental Revenue/Recovery	8	10	10
Net Cost/(Benefit)	(8)	97	99
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: Not applicable, as this is a scalable program

This program is for refurbishment and/or replacement of building components and systems to meet safety and health concerns and correct deteriorating infrastructure at shops, leisure centres, etc.

Planned projects for 2019 are noted below, however due to the age and ongoing deterioration of buildings and facilities, planned priorities may shift throughout the year if higher risk investments arise:

• Building system upgrades - various locations

* N/A - No amounts have been included in the "Previous Budgets" due to this project's on-going nature.

Project Name: **Building Asset / Work Management Program**

Standing Policy Committee: Property and Development, Heritage, and Downtown Development

Department: Municipal Accommodations
Service: Property Asset Management
Project: 6390001019
OurWinnipeg: Prosperity

AUTHORIZATION	Previous Budgets	2019 Estimate	FORECAST 2020	2021	2022	2023	2024	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	N/A*	175	-	164	-	-	170	334	509
Financed by:									
Cash to Capital		175		164			170	334	509

CASH FLOW	2019	2020	2021	2022	2023	2024	Beyond 2024	Total
Project Costs ($000's)	175	-	164	-	-	170	-	509
Financed by:								
Cash to Capital	175		164			170		509

NET OPERATING IMPACT ($000's)	2019	2020	2021
Operating costs			
Debt and finance charges			
Transfer to General Capital Fund	175		164
Total Direct Costs	175	-	164
Less: Incremental Revenue/Recovery	16		15
Net Cost/(Benefit)	159	-	149
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: Not applicable, as this is a scalable program

The City Auditor presented the Public Works Asset Management Audit - Part 2 Facilities Maintenance in June 2006. The Auditor made a number of recommendations relative to the development of an asset management/work management program and linking to other division/ corporate programs. This funding provides for the on-going program of building assessment/inspection to ensure building condition data is current, and on-going improvements to the division's work management program.

Program includes: building assessments, integrations with Corporate Asset Management initiatives and work management initiatives.

* N/A - No amounts have been included in the "Previous Budgets" due to this project's on-going nature.

Project Name: **UFF - Hockey Pen Light Standard Replacement**

Standing Policy Committee: Property and Development, Heritage, and Downtown Development

Department: Municipal Accommodations | Service: Recreation

Project: 6390002019 | OurWinnipeg: Prosperity

AUTHORIZATION	Previous Budgets	2019 Estimate	FORECAST 2020	2021	2022	2023	2024	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	N/A*	100	100	100	100	100	100	500	600
Financed by:									
Cash to Capital			100	100	100	100	100	500	500
Internal Financing		100						-	100

CASH FLOW	2019	2020	2021	2022	2023	2024	Beyond 2024	Total
Project Costs ($000's)	100	100	100	100	100	100	-	600
Financed by:								
Cash to Capital		100	100	100	100	100		500
Internal Financing	100							100

NET OPERATING IMPACT ($000's)	2019	2020	2021
Operating costs			
Debt and finance charges	11	22	22
Transfer to General Capital Fund		100	100
Total Direct Costs	11	122	122
Less: Incremental Revenue/Recovery	7	9	9
Net Cost/(Benefit)	4	113	113
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: Not applicable, as this is a scalable program

The replacement of hockey pen light standards at various locations has been determined to be the City's responsibility under the Universal Funding Formula (UFF) with the Community Centres. As such, this program is intended to fund the replacement of hockey pen light standards and bases in consideration of workplace safety and health issues, utilization of such hockey pens, number of pens at the specific site, and the Recreation and Leisure Facilities (RALF) policy context.

Projects for 2019 include refurbishing light standards at various sites.

* N/A - No amounts have been included in the "Previous Budgets" due to this project's on-going nature.

Project Name: **City-Wide Accessibility Program**

Standing Policy Committee: Property and Development, Heritage, and Downtown Development

Department: Municipal Accommodations
Service: Neighbourhood Revitalization

Project: 6390005019
OurWinnipeg: Prosperity

AUTHORIZATION	Previous Budgets	2019 Estimate	FORECAST 2020	2021	2022	2023	2024	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	N/A*	425	425	425	425	425	425	2,125	2,550
Financed by:									
Cash to Capital			425	425	425	425	425	2,125	2,125
Internal Financing		425						-	425

CASH FLOW	2019	2020	2021	2022	2023	2024	Beyond 2024	Total
Project Costs ($000's)	425	425	425	425	425	425	-	2,550
Financed by:								
Cash to Capital		425	425	425	425	425		2,125
Internal Financing	425							425

NET OPERATING IMPACT ($000's)	2019	2020	2021
Operating costs			
Debt and finance charges	46	94	94
Transfer to General Capital Fund		425	425
Total Direct Costs	46	519	519
Less: Incremental Revenue/Recovery	31	39	39
Net Cost/(Benefit)	15	480	480
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: Not applicable, as this is a scalable program

Funding to address city wide accessibility issues (Adopted by Council September 25, 2002).

* N/A - No amounts have been included in the "Previous Budgets" due to this project's on-going nature.

Project Name: **Sherbrook Pool Reopening**

Standing Policy Committee: Property and Development, Heritage, and Downtown Development

Department: Municipal Accommodations
Service: Recreation
Project: 6392040114
OurWinnipeg: Prosperity

AUTHORIZATION	Previous Budgets	2019 Estimate	FORECAST 2020	2021	2022	2023	2024	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	3,773	-	-	-	-	-	-	-	-
Financed by:									
Kinsmen Club of Winnipeg (Sponsor Winnipeg)		95	95					95	190
Interim Financing from General Capital Fund / (Repayment)		(95)	(95)					(95)	(190)

CASH FLOW	2019	2020	2021	2022	2023	2024	Beyond 2024	Total
Project Costs ($000's)	-	-	-	-	-	-	-	-
Financed by:								
Kinsmen Club of Winnipeg (Sponsor Winnipeg)	95	95						190
Interim Financing from General Capital Fund / (Repayment)	(95)	(95)						(190)

NET OPERATING IMPACT ($000's)	2019	2020	2021
Operating costs			
Debt and finance charges			
Transfer to General Capital Fund			
Total Direct Costs	-	-	-
Less: Incremental Revenue/Recovery			
Net Cost/(Benefit)	-	-	-
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: 3

On December 17, 2013, Council approved $1.671 million in capital funding for the reopening of Sherbrook Pool. The funding consisted of $0.2 million from the Mayor's 2013 Civic Initiatives Fund, $0.4 million from the 2014 Parks and Recreation Enhancement Program, $0.6 million from the Daniel McIntyre Recreation Initiative, $0.271 million from Building Communities Initiative (BCI) II - Phase 3 (formerly "Recreation and Leisure Facilities" amended by the City and Province October 2, 2013) and $0.2 million from the Municipal Accommodations operating funds. On June 27, 2014, BCI Policy Committee approved an additional allocation of $0.15 million from BCI II - Phase 2.

On March 7, 2014, it was announced that the Kinsmen Club of Winnipeg will make a Sponsor Winnipeg contribution of $1 million towards the renovation of Sherbrook Pool. Subsequent to this announcement, the City learned that such contributions are now deemed subject to GST, reducing the net contribution from $1 million to $0.952 million. On May 16, 2014, the Province announced a contribution of $1 million in 2015 Manitoba-Winnipeg Infrastructure Agreement funding toward the rehabilitation project.

On September 24, 2014, Council approved that the Kinsmen Club, if required, be provided with the option to extend the time period for the payment of their sponsorship contribution to a 9-year period with the final payment to be received by the City in 2022. It was anticipated that $572,000 (60%) in payments would be received by the end of 2015 with payments of $95,000 (10%) each year from 2016 to 2019.

Sherbrook Pool Reopening (continued):

On January 27, 2016, Council approved a revised payment schedule for the Kinsmen Club as follows: the first payment of $500,000 (i.e. $476,000 net of GST) to be received by the City on or before March 31, 2016; the remaining payments of $100,000 (i.e. $95,000 net of GST) per year to be received on or before December 31 in each year beginning with the year 2016 and continuing until December 31, 2020 with all payments totaling $1 million including GST. The expected payments of $476,000 before March 31, 2016 and $96,000 in 2016 equals the Council approved 2015 budget of $572,000. Kinsmen Club, if required, is also permitted to extend the time period of the payment of its sponsorship contribution to a 9-year period with the final payment to be received by the City in 2024.

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Project Name: **Corporate Records Centre**

Standing Policy Committee: Executive Policy Committee

Department: City Clerks
Project: 0400000922
Service: Heritage Conservation
OurWinnipeg: Heritage

AUTHORIZATION	Previous Budgets	2019 Estimate	FORECAST 2020	2021	2022	2023	2024	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	875	-	-	-	200	-	-	200	200
Financed by:									
Cash to Capital					200			200	200

CASH FLOW	2019	2020	2021	2022	2023	2024	Beyond 2024	Total
Project Costs ($000's)	-	-	-	200	-	-	-	200
Financed by:								
Cash to Capital				200				200

NET OPERATING IMPACT (000's)	2019	2020	2021
Operating costs			
Debt and finance charges			
Transfer to General Capital Fund			
Total Direct Costs	-	-	-
Less: Incremental Revenue/Recovery			
Net Cost/(Benefit)	-	-	-
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: 5

The City Clerk's Department has a corporate responsibility for records management services and archives as outlined in the City of Winnipeg Charter. Historically, records storage for temporary and archival records have been at two locations, 380 William and 311 Ross. Damage to the building at 380 William has resulted in this facility being vacated since 2013. Archival storage continues to occur at a smaller leased facility at 55 Myrtle. Records storage is currently limited to 311 Ross Avenue. Development of a new records centre is now underway and records storage is expected to be transferred by April 2019.

This project is to ensure ongoing development of the Corporate Records Centre. Costs will include development of more and specialized shelving solutions and other requirements in the records centre to ensure that City records are protected as required by by-law and can be accessed and retrieved in the most effective manner.

Costs will be well known due to RFP's put out in 2013 and 2018 for shelving solutions.

This is an ongoing redevelopment of space to meet the City's record storage needs; a further capital project will be established at the 5-year mark for this project to further improve the system.

Project Name: **Election Systems**

Standing Policy Committee: Executive Policy Committee

Department: City Clerks
Project: 0400000521

Service: Council Services
OurWinnipeg: Prosperity

AUTHORIZATION	Previous Budgets	2019 Estimate	FORECAST 2020	2021	2022	2023	2024	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	N/A *	-	-	200	200	-	-	400	400
Financed by:									
Cash to Capital				200	200			400	400

CASH FLOW	2019	2020	2021	2022	2023	2024	Beyond 2024	Total
Project Costs ($000's)	-	-	200	200	-	-	-	400
Financed by:								
Cash to Capital			200	200				400

NET OPERATING IMPACT (000's)	2019	2020	2021
Operating costs			
Debt and finance charges			
Transfer to General Capital Fund			200
Total Direct Costs	-	-	200
Less: Incremental Revenue/Recovery			7
Net Cost/(Benefit)	-	-	193
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: Not applicable, as this is a scalable program

In accordance with the Department's statutory responsibility to compile a List of Electors and convene elections, every four years the Department ensures the renewal of equipment and systems used in election processes.

As some of the systems are only used every 4 years, they require either extensive renovations or complete rewrites to allow them to function with changed systems, networks and databases. In the past, this has involved corporate mainframes and a large number of staff hours. For the 2014 election the City Clerk's Department ensured systems were operational using in-house resources and contract personnel, and by purchasing ready made systems from election partners, such as our voting machine partner, Election Systems and Software and our voters list partners, Elections Canada and Elections Manitoba.

Systems which needed to be upgraded / revitalized for the 2018 election included the List of Electors system, GIS mapping systems, election night reporting systems and web sites, especially those utilizing the Internet for more effective communication with candidates, media and the public. As well, as directed by Council on February 24, 2016, the City Clerk's Department undertook a ward boundaries commission review, in the fall of 2017. The new Council Wards became effective in September 2018 in time for the 2018 election. Implementation of these new boundaries and related location / voting sub-division boundaries required an investment in upgraded mapping geometries, systems and GIS personnel. Similar investments will be required for the 2022 election.

* N/A - No amounts have been included in the "Previous Budgets" due to this project's on-going nature.

Project Name: **Voting Machine Replacement**

Standing Policy Committee: Executive Policy Committee

Department: City Clerks
Project: 0400001022
Service: Council Services
OurWinnipeg: Prosperity

AUTHORIZATION	Previous Budgets	2019 Estimate	FORECAST 2020	2021	2022	2023	2024	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	-	-	-	-	1,000	-	-	1,000	1,000
Financed by:									
Cash to Capital					1,000			1,000	1,000

CASH FLOW	2019	2020	2021	2022	2023	2024	Beyond 2024	Total
Project Costs ($000's)	-	-	-	1,000	-	-	-	1,000
Financed by:								
Cash to Capital				1,000				1,000

NET OPERATING IMPACT (000's)	2019	2020	2021
Operating costs			
Debt and finance charges			
Transfer to General Capital Fund			
Total Direct Costs	-	-	-
Less: Incremental Revenue/Recovery			
Net Cost/(Benefit)	-	-	-
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: Not applicable, as this is a scalable program

The City of Winnipeg purchased its first Automated Voting Machine system in 1994. This system was used through the 2006 General Municipal Election. The system consists of both software and hardware, including approximately 250 precinct-based voting machines and 20 accessible voting units. The system was replaced by a new system which was first used in the 2010 General Municipal Election. The current system is expected to have a 12-year life span, according to the manufacturers. Difficulties in aligning computer systems used with City systems and acquiring parts become more difficult over time, effectively rendering the system obsolete over time.

As such, a new capital program is being proposed for 2022, to enable the City Clerk's Department to replace the current system and be ready to proceed if required with a new system in time for the 2022 general municipal election.

Project Name: **Audio / Video Equipment Replacement**

Standing Policy Committee: Executive Policy Committee

Department: City Clerks
Project: 0400001823
Service: Council Services
OurWinnipeg: Prosperity

AUTHORIZATION	Previous Budgets	2019 Estimate	FORECAST 2020	2021	2022	2023	2024	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	-	-	-	-	-	150	-	150	150
Financed by:									
Cash to Capital						150		150	150

CASH FLOW	2019	2020	2021	2022	2023	2024	Beyond 2024	Total
Project Costs ($000's)	-	-	-	-	150	-	-	150
Financed by:								
Cash to Capital					150			150

NET OPERATING IMPACT (000's)	2019	2020	2021
Operating costs			
Debt and finance charges			
Transfer to General Capital Fund			
Total Direct Costs	-	-	-
Less: Incremental Revenue/Recovery			
Net Cost/(Benefit)	-	-	-
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: Not applicable, as this is a scalable program

The City Clerk's Department undertakes over 200 protocol events annually including openings, announcements and flag raisings, where audio and other, pool sound and other technology is required. The Department also supports live streaming, live television broadcast, recording of and providing various audio / video capabilities in 6 separate meeting areas, including the Council Chamber. These facilities are used for 300+ meetings of Council and its committees, and up to 5,000 appeal hearings each year. Equipment used for protocol events including speakers, amplifiers, pool sound, etc. is often used outdoors and is required to be moved from event to event. As such the equipment does require regular maintenance and replacement to ensure 100% operational ability and reliability.

Equipment used in committee rooms is less subject to physical stresses, but is used virtually every day. Much of the equipment was refreshed in 2017 and is expected to have a 5-year life span. Equipment includes automated cameras, microphones, speakers, amplifiers, digital recorders, live streaming boxes, closed captioning converters, digital storage, and television broadcast stations. As much of the equipment used is accessed by the public, media, outside television stations, etc. It is also subject to obsolescence, and must be upgraded to ensure the various feeds can be accessed by newer technology and can access evolving City networks.

Project Name: **Innovation Strategy**

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Standing Policy Committee: Executive Policy Committee

Department: Innovation, Transformation & Technology

Service: Organizational Support Services

Project: 3459000119

OurWinnipeg: Prosperity

AUTHORIZATION	Previous Budgets	2019 Estimate	FORECAST 2020	2021	2022	2023	2024	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	2,000	1,000	2,000	2,000	2,000	2,000	2,000	10,000	11,000
Financed by:									
Cash to Capital			1,231	1,735	2,000	2,000	2,000	8,966	8,966
External Debt			769	265				1,034	1,034
Internal Financing		1,000							1,000

CASH FLOW	2019	2020	2021	2022	2023	2024	Beyond 2024	Total
Project Costs ($000's)	1,000	2,000	2,000	2,000	2,000	2,000	-	11,000
Financed by:								
Cash to Capital		1,231	1,735	2,000	2,000	2,000		8,966
External Debt		769	265					1,034
Internal Financing	1,000							1,000

NET OPERATING IMPACT ($000's)	2019	2020	2021
Operating costs			
Debt and finance charges	109	309	430
Transfer to General Capital Fund		1,231	1,735
Total Direct Costs	109	1,540	2,165
Less: Incremental Revenue/Recovery	33	65	65
Net Cost/(Benefit)	76	1,475	2,100
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: Not applicable, as this is a scalable program

This program will enable the City to bring innovative technologies, ideas, and processes and use them to improve existing systems, tools, and processes to reduce costs, improve service levels, and add new capabilities. This will enable the Chief Innovation Officer to fulfill the mandate of providing innovation for the City of Winnipeg, and to develop and deliver innovation portfolio ideas. The portfolio of innovation investments may include, but not be limited to:

• Unified City Communications Platform will evaluate and explore effective, efficient communication tools and paradigms to allow departments, teams, and individuals to work together. Tools that enable low-friction real-time communication as well as effective information sharing will be fundamental to effective innovation going forward.

• Unified Incident Management Capability will evaluate and trial systems and processes focused on streamlining and unifying how departments accept and track incidents within their business lines. Incidents could be physical (e.g. road work), technical (e.g. IT incidents), media, etc. and this will work to define and explore how to maintain context and information as an incident is handled by multiple parties.

• Project Approval and Management Optimization will trial and evaluate project management tooling and processes that will form the foundation of a unified project management process shared across all departments. Such a unified project manage landscape will vastly improve the efficiency of inter-departmental collaboration and institutional information capture for future teams referencing that project.

Innovation Strategy (continued):

• Decision Making Support System Expansion will begin gathering requirements for projects that will expand the functionality of DMIS to satisfy the openness, accountability, and efficiencies that Winnipeg is working towards.

• Innovation Technology Pilots will encompass pilot and trial projects that focus on the applications of novel technologies or novel applications of commodity technologies to business problems with an emphasis on identifying small projects that answer questions and test hypotheses to better inform future incrementally larger trials.

• Innovation Business Process Enhancement will look at the application of commodity and well-understood technologies and their applications to existing business processes that are currently a significant bottleneck or hindrance. This will focus less on technology and more on addressing the human and organizational elements and how those can be improved through the assistance of technology.

• Innovation Prototyping represents a collection of small projects aimed at testing concepts in a fail-fast-fail-cheap mindset, and will often be the precursor to projects started in the other areas. These small initiatives will aim to gather information about the viability of an idea, technology, or approach in order to ensure that follow-up project decisions are made with solid information.

The 2019 program may include a maximum of 7 temporary capital funded FTEs.

The program budget is available for the Chief Innovation Officer to make allocations to projects as deemed necessary.

Project Name: **Smart Cities Innovation Program**

Standing Policy Committee: Executive Policy Committee

Department: Innovation, Transformation & Technology

Service: Organizational Support Services

Project: 3459100119

OurWinnipeg: Prosperity

AUTHORIZATION	Previous Budgets	2019 Estimate	FORECAST 2020	2021	2022	2023	2024	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	2,000	1,000	2,000	2,000	2,000	2,000	2,000	10,000	11,000
Financed by:									
Cash to Capital				1,063	2,000	2,000	2,000	7,063	7,063
External Debt			2,000	937				2,937	2,937
Internal Financing		1,000							1,000

CASH FLOW	2019	2020	2021	2022	2023	2024	Beyond 2024	Total
Project Costs ($000's)	1,000	2,000	2,000	2,000	2,000	2,000	-	11,000
Financed by:								
Cash to Capital			1,063	2,000	2,000	2,000		7,063
External Debt		2,000	937					2,937
Internal Financing	1,000							1,000

NET OPERATING IMPACT ($000's)	2019	2020	2021
Operating costs	187	392	418
Debt and finance charges	109	449	793
Transfer to General Capital Fund			1,063
Total Direct Costs	296	841	2,274
Less: Incremental Revenue/Recovery	33	65	65
Net Cost/(Benefit)	263	776	2,209
Incremental Full Time Equivalent Positions	0.75	2.00	2.00

Class Estimate: Not applicable, as this is a scalable program

Projects in 2019 will not proceed until a class 3 estimate is obtained.

The program budget is available for the Chief Innovation Officer to allocate funding to projects based on financing requirements.

This program will enable the City to undertake the initiatives identified under the Smart Cities Challenge launched by Infrastructure Canada. The Challenge encouraged communities to adopt a smart cities approach to improve the lives of their residents through innovation, data and connected technology. Several initiatives being considered for 2019 under this program which support these goals include:

- Enterprise Smart Sensor Platform (ESSP) will transform the Transportation Management Centre Video Management System to an enterprise system with smart sensor capability used across all city departments and services, with advanced functions and capabilities. Shared usage of camera/sensor infrastructure delivers synergies and economies of scale which will deliver value at economical cost, and provisions significant scalability and use-case opportunities in the future, as city needs and camera/sensor technology rapidly changes.

- Live Train! & Winnipeg Reduced Impact of Train Crossings System (WRITES) (Phase 1 and Phase 2) will provide vehicle operators, emergency responders and the TMC with active train information which enable the City to significantly mitigate the impact of active railway system within the City roadway system. Significant value proposition which spans mobility, public safety, and economic benefits.

- Advanced Mobility Intelligent System (AMIS) - is the development and adoption of a 'corporate' enterprise-wide data bus whereby data will be stored, secured and available for cross-departmental data mining and analytics.

The project requires 2 additional FTEs in 2019 to be added to the Public Works Department complement to maintain the Enterprise Smart Sensor Platform asset.

Project Name: **Communications Network Infrastructure**

Standing Policy Committee: Executive Policy Committee

Department: Innovation, Transformation & Technology

Service: Organizational Support Services

Project: 3401200019

OurWinnipeg: Prosperity

AUTHORIZATION	Previous Budgets	2019 Estimate	FORECAST 2020	2021	2022	2023	2024	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	N/A *	298	317	158	1,151	784	386	2,796	3,094
Financed by:									
Cash to Capital			317	158	1,151	784	386	2,796	2,796
Internal Financing		298							298

CASH FLOW	2019	2020	2021	2022	2023	2024	Beyond 2024	Total
Project Costs ($000's)	298	317	158	1,151	784	386	-	3,094
Financed by:								
Cash to Capital		317	158	1,151	784	386		2,796
Internal Financing	298							298

NET OPERATING IMPACT ($000's)	2019	2020	2021
Operating costs	98	130	133
Debt and finance charges	33	66	66
Transfer to General Capital Fund		317	158
Total Direct Costs	131	513	357
Less: Incremental Revenue/Recovery	10	10	5
Net Cost/(Benefit)	121	503	352
Incremental Full Time Equivalent Positions	0.75	1.00	1.00

Class Estimate: 3

Communications Network Infrastructure is the implementation and enhancement of the backbone network infrastructure which connects the computers in Civic Departments. This is a high speed infrastructure to enable the sharing and distribution of corporate information across departments with more management, control, flexibility, and ease of use at the department level.

The initiatives in this program may include a maximum of 1 temporary, capital funded FTE.

Upon completion of the 2019 component of this program, 1 additional FTE is required (Network Analyst) to maintain the assets.

* N/A - No amounts have been included in the "Previous Budgets" due to this project's on-going nature.

Project Name: **Enterprise Computing Initiatives**

Standing Policy Committee: Executive Policy Committee

Department: Innovation, Transformation & Technology

Service: Organizational Support Services

Project: 3402500019

OurWinnipeg: Prosperity

AUTHORIZATION	Previous Budgets	2019 Estimate	FORECAST 2020	2021	2022	2023	2024	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	N/A*	1,026	1,600	2,718	1,391	1,034	1,002	7,745	8,771
Financed by:									
Cash to Capital			1,028	2,718	1,391	1,034	1,002	7,173	7,173
External Debt		1,026	572					572	1,598

CASH FLOW	2019	2020	2021	2022	2023	2024	Beyond 2024	Total
Project Costs ($000's)	1,026	1,600	2,718	1,391	1,034	1,002	-	8,771
Financed by:								
Cash to Capital		1,028	2,718	1,391	1,034	1,002		7,173
External Debt	1,026	572						1,598

NET OPERATING IMPACT ($000's)	2019	2020	2021
Operating costs			
Debt and finance charges	115	299	367
Transfer to General Capital Fund		1,028	2,718
Total Direct Costs	115	1,327	3,085
Less: Incremental Revenue/Recovery	33	52	88
Net Cost/(Benefit)	82	1,275	2,997
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: 3

The City utilizes enterprise servers and storage and systems software infrastructure to address the computing requirements of a wide variety of critical business functions (311, PeopleSoft, Property Assessment, Taxation, Permitting, Parking Enforcement, Public Facing Internet, etc.). This infrastructure has a finite lifespan and needs to be replaced (evergreened) on a periodic basis to ensure its continued operation and support of the business functions. There are also requirements to expand the capacity of this infrastructure to support the growing requirements of the organization.

The initiatives in the 2019 program may include a maximum of 2 temporary capital funded FTE.

* N/A - No amounts have been included in the "Previous Budgets" due to this project's on-going nature.

Project Name: **PeopleSoft Enhancements (Formerly PeopleSoft Upgrade)**

Standing Policy Committee: Executive Policy Committee

Department: Innovation, Transformation & Technology

Service: Organizational Support Services

Project: 3455000019

OurWinnipeg: Prosperity

AUTHORIZATION	Previous Budgets	2019 Estimate	FORECAST 2020	2021	2022	2023	2024	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	N/A*	892	854	823	887	857	922	4,343	5,235
Financed by:									
Cash to Capital				823	887	857	922	3,489	3,489
External Debt			854					854	854
Internal Financing		892						-	892

CASH FLOW	2019	2020	2021	2022	2023	2024	Beyond 2024	Total
Project Costs ($000's)	892	854	823	887	857	922	-	5,235
Financed by:								
Cash to Capital			823	887	857	922		3,489
External Debt		854						854
Internal Financing	892							892

NET OPERATING IMPACT ($000's)	2019	2020	2021
Operating costs			
Debt and finance charges	97	295	395
Transfer to General Capital Fund			823
Total Direct Costs	97	295	1,218
Less: Incremental Revenue/Recovery	29	28	27
Net Cost/(Benefit)	68	267	1,191
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: 3

Provide mandatory tax and regulatory updates and deliver innovative enhancements to our PeopleSoft applications through 2024 to meet the Human Resource, Payroll and budgeting needs of the City. The City may face financial penalty without proper tax updates. Also, to meet the human resource, payroll and budgeting demands of the City, high value of annual PeopleSoft expansion projects will be performed.

The 2019 program may include a maximum of 7 temporary capital funded FTEs.

* N/A - No amounts have been included in the "Previous Budgets" due to this project's on-going nature.

Project Name: **Geographic Information System Aerial Imagery Renewal Program (formerly Aerial Imagery Renewal Program)**

Standing Policy Committee: Executive Policy Committee

Department: Innovation, Transformation & Technology

Service: Organizational Support Services

Project: 3458100020

OurWinnipeg: Prosperity

AUTHORIZATION	Previous Budgets	2019 Estimate	FORECAST 2020	2021	2022	2023	2024	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	315	-	159	-	188	-	188	535	535
Financed by:									
Cash to Capital			159		188		188	535	535

CASH FLOW	2019	2020	2021	2022	2023	2024	Beyond 2024	Total
Project Costs ($000's)	-	159	-	188	-	188	-	535
Financed by:								
Cash to Capital		159		188		188		535

NET OPERATING IMPACT ($000's)	2019	2020	2021
Operating costs			
Debt and finance charges			
Transfer to General Capital Fund		159	
Total Direct Costs	-	159	-
Less: Incremental Revenue/Recovery		5	
Net Cost/(Benefit)	-	154	-
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: 3

Departmental business processes depend on new ortho and oblique imagery every two years, of the entire City of Winnipeg, delivered by September of 2020, 2022 and 2024. The imagery data is the shared common background to promote data sharing and support business processes.

Project Name: **Communications Systems Branch Facilities**

Standing Policy Committee: Executive Policy Committee

Department: Innovation, Transformation & Technology

Service: Organizational Support Services

Project: 34XX000019

OurWinnipeg: Prosperity

AUTHORIZATION	Previous Budgets	2019 Estimate	FORECAST 2020	2021	2022	2023	2024	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	-	174	-	-	-	-	-	-	174
Financed by:									
Internal Financing		174						-	174

CASH FLOW	2019	2020	2021	2022	2023	2024	Beyond 2024	Total
Project Costs ($000's)	174	-	-	-	-	-	-	174
Financed by:								
Internal Financing	174							174

NET OPERATING IMPACT ($000's)	2019	2020	2021
Operating costs			
Debt and finance charges	19	38	38
Transfer to General Capital Fund			
Total Direct Costs	19	38	38
Less: Incremental Revenue/Recovery	6		
Net Cost/(Benefit)	13	38	38
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: 3

Perform urgent repairs to the existing Communications Systems Branch facility floor and relocation of additional staff to work from the Winnipeg Police Service garage. Without this project the installation and support of the specialty electronics in the Public Safety fleet will be at severe risk.

This project will allow urgent installation/service on City vehicles (including Public Safety WPS and WFPS fleet).

Project Name: **Information Security Initiatives**

Standing Policy Committee: Executive Policy Committee

Department: Innovation, Transformation & Technology

Service: Organizational Support Services

Project: 34XX000019

OurWinnipeg: Prosperity

AUTHORIZATION	Previous Budgets	2019 Estimate	FORECAST 2020	2021	2022	2023	2024	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	603	365	308	306	309	318	325	1,566	1,931
Financed by:									
Cash to Capital				306	309	318	325	1,258	1,258
External Debt			308					308	308
Internal Financing		365							365

CASH FLOW	2019	2020	2021	2022	2023	2024	Beyond 2024	Total
Project Costs ($000's)	365	308	306	309	318	325	-	1,931
Financed by:								
Cash to Capital			306	309	318	325		1,258
External Debt		308						308
Internal Financing	365							365

NET OPERATING IMPACT ($000's)	2019	2020	2021
Operating costs	49	72	95
Debt and finance charges	40	116	152
Transfer to General Capital Fund			306
Total Direct Costs	89	188	553
Less: Incremental Revenue/Recovery	12	10	10
Net Cost/(Benefit)	77	178	543
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: 3

Information Security program will provide the minimum acceptable level of protection against the rapidly increasing number of threats to City business systems. The program will implement the processes, tools, and people elements required to manage the risk. Without the program, the City will be facing levels of security risk that could cause widespread business impact and prevent the City from meeting legislated responsibilities for the confidentiality, integrity, and availability of critical data.

Project Name: **E-Mail Archiving**

Standing Policy Committee: Executive Policy Committee

Department: Innovation, Transformation & Technology

Service: Organizational Support Services

Project: 34XX000019

OurWinnipeg: Prosperity

AUTHORIZATION	Previous Budgets	2019 Estimate	FORECAST 2020	2021	2022	2023	2024	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	-	484	-	-	-	-	-	-	484
Financed by:									
Internal Financing		484						-	484

CASH FLOW	2019	2020	2021	2022	2023	2024	Beyond 2024	Total
Project Costs ($000's)	484	-	-	-	-	-	-	484
Financed by:								
Internal Financing	484							484

NET OPERATING IMPACT ($000's)	2019	2020	2021
Operating costs	91	355	364
Debt and finance charges	53	107	107
Transfer to General Capital Fund			
Total Direct Costs	144	462	471
Less: Incremental Revenue/Recovery	16		
Net Cost/(Benefit)	128	462	471
Incremental Full Time Equivalent Positions	0.25	1.00	1.00

Class Estimate: 3

Implement a secure central email archive solution to ensure all emails are archived to meet regulatory and operational requirements.

This project may include a maximum of 2 temporary capital funded FTEs.

This project will require 1 additional FTE (Senior System Programmer) to maintain the asset.

Project Name: **Enterprise Content Management**

Standing Policy Committee: Executive Policy Committee

Department: Innovation, Transformation & Technology

Service: Organizational Support Services

Project: 34XX000019

OurWinnipeg: Prosperity

AUTHORIZATION	Previous Budgets	2019 Estimate	FORECAST 2020	2021	2022	2023	2024	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	2,806	1,102	303	105	-	-	-	408	1,510
Financed by:									
Cash to Capital				105				105	105
External Debt			303					303	303
Internal Financing		1,102							1,102

CASH FLOW	2019	2020	2021	2022	2023	2024	Beyond 2024	Total
Project Costs ($000's)	1,102	303	105	-	-	-	-	1,510
Financed by:								
Cash to Capital			105					105
External Debt		303						303
Internal Financing	1,102							1,102

NET OPERATING IMPACT ($000's)	2019	2020	2021
Operating costs	345	345	580
Debt and finance charges	120	278	314
Transfer to General Capital Fund			105
Total Direct Costs	465	623	999
Less: Incremental Revenue/Recovery	36	10	3
Net Cost/(Benefit)	429	613	996
Incremental Full Time Equivalent Positions	-	-	2.00

Class Estimate: 3

Enterprise-wide deployment of an Enterprise Content Management system solution to provide the platform for innovation in business document workflow, organization and storage.

This project may include a maximum of 7 temporary capital funded FTEs.

Upon project completion in 2021, this project will require 2 additional FTEs (1 Records Manager, 1 Document Controller) to utilize the asset, in addition to 3.5 FTEs approved as part of the 2018 budget process.

Project Name: **Microsoft Office License Evergreen**

Standing Policy Committee: Executive Policy Committee

Department: Innovation, Transformation & Technology

Service: Organizational Support Services

Project: 34XX000019

OurWinnipeg: Prosperity

AUTHORIZATION	Previous Budgets	2019 Estimate	FORECAST 2020	2021	2022	2023	2024	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	222	1,375	817	208	330	184	71	1,610	2,985
Financed by:									
Cash to Capital				208	330	184	71	793	793
External Debt		1,375	817					817	2,192

CASH FLOW	2019	2020	2021	2022	2023	2024	Beyond 2024	Total
Project Costs ($000's)	1,375	817	208	330	184	71	-	2,985
Financed by:								
Cash to Capital			208	330	184	71		793
External Debt	1,375	817						2,192

NET OPERATING IMPACT ($000's)	2019	2020	2021
Operating costs			
Debt and finance charges	154	407	503
Transfer to General Capital Fund			208
Total Direct Costs	154	407	711
Less: Incremental Revenue/Recovery	45	27	7
Net Cost/(Benefit)	109	380	704
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: 3

Upgrade Microsoft Office Productivity Software to a supported version so critical security updates are received from Microsoft. Without security updates, the software cannot be used due to the organizational risk of security attacks to the rest of the City computing environment. The upgrade must start in 2019 to avoid loss of use of Microsoft Office and widespread business impact.

This program may include a maximum of 1 temporary capital funded FTE.

Project Name: **Printing Graphics & Mail Services Asset Renewal (Formerly Print Asset Renewal)**

Standing Policy Committee: Executive Policy Committee

Department: Innovation, Transformation & Technology

Service: Organizational Support Services

Project: 3458400021

OurWinnipeg: Prosperity

AUTHORIZATION	Previous Budgets	2019 Estimate	FORECAST 2020	2021	2022	2023	2024	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	152	-	-	350	-	-	-	350	350
Financed by:									
Cash to Capital				350				350	350

CASH FLOW	2019	2020	2021	2022	2023	2024	Beyond 2024	Total
Project Costs ($000's)	-	-	350	-	-	-	-	350
Financed by:								
Cash to Capital			350					350

NET OPERATING IMPACT ($000's)	2019	2020	2021
Operating costs			
Debt and finance charges			
Transfer to General Capital Fund			350
Total Direct Costs	-	-	350
Less: Incremental Revenue/Recovery			11
Net Cost/(Benefit)	-	-	339
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: 3

Evergreen the essential printing graphics and mail services (PGMS) assets to ensure continued reliable production of critical revenue generating print and mail streams and to reduce the risks associated with unacceptable quality, delayed deliveries and limited production capabilities.

Project Name: **Microsoft Development Network Software Renewal (Formerly Software Renewal Program)**

Standing Policy Committee: Executive Policy Committee

Department: Innovation, Transformation & Technology

Service: Organizational Support Services

Project: 3458200019

OurWinnipeg: Prosperity

AUTHORIZATION	Previous Budgets	2019 Estimate	FORECAST 2020	2021	2022	2023	2024	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	157	247	-	-	271	-	-	271	518
Financed by:									
Cash to Capital					271			271	271
External Debt		247							247

CASH FLOW	2019	2020	2021	2022	2023	2024	Beyond 2024	Total
Project Costs ($000's)	247	-	-	271	-	-	-	518
Financed by:								
Cash to Capital				271				271
External Debt	247							247

NET OPERATING IMPACT ($000's)	2019	2020	2021
Operating costs			
Debt and finance charges	28	56	56
Transfer to General Capital Fund			
Total Direct Costs	28	56	56
Less: Incremental Revenue/Recovery	8		
Net Cost/(Benefit)	20	56	56
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: 3

Microsoft Developer Network(MSDN) software is a required component to provide support for business applications used across the City. Without renewal of the MSDN software the business application will not be supported and the business services that depend on the applications (e.g. Finance, HR, 311. etc.) will be impacted.

Project Name: **Disaster Recovery Gap Mitigation Phase 1**

Standing Policy Committee: Executive Policy Committee

Department: Innovation, Transformation & Technology

Service: Organizational Support Services

Project: 34XX000019

OurWinnipeg: Prosperity

AUTHORIZATION	Previous Budgets	2019 Estimate	FORECAST 2020	2021	2022	2023	2024	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	1,023	954	-	-	-	-	-	-	954
Financed by:									
External Debt		954						-	954

CASH FLOW	2019	2020	2021	2022	2023	2024	Beyond 2024	Total
Project Costs ($000's)	954	-	-	-	-	-	-	954
Financed by:								
External Debt	954							954

NET OPERATING IMPACT ($000's)	2019	2020	2021
Operating costs	429	443	446
Debt and finance charges	107	218	218
Transfer to General Capital Fund			
Total Direct Costs	536	661	664
Less: Incremental Revenue/Recovery	31		
Net Cost/(Benefit)	505	661	664
Incremental Full Time Equivalent Positions	1.00	1.00	1.00

Class Estimate: 3

Implement Disaster Recovery capability enhancements for the City business systems that will most impact City operations in the event of a major computing disruption. If these Disaster Recovery gaps are not addressed, there would be serious, long term impacts to the majority of services delivered by the City and regulatory, financial, and reputation consequences.

This project may include a maximum of 2 temporary capital funded FTEs.

Project Name: **Tait Radio Replacement**

Standing Policy Committee: Executive Policy Committee

Department: Innovation, Transformation & Technology

Service: Organizational Support Services

Project: 34XX000019

OurWinnipeg: Prosperity

AUTHORIZATION	Previous Budgets	2019 Estimate	FORECAST 2020	2021	2022	2023	2024	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	-	1,902	1,157	342	-	-	-	1,499	3,401
Financed by:									
Cash to Capital				342				342	342
External Debt		48	1,157					1,157	1,205
Internal Financing		1,854						-	1,854

CASH FLOW	2019	2020	2021	2022	2023	2024	Beyond 2024	Total
Project Costs ($000's)	1,902	1,157	342	-	-	-	-	3,401
Financed by:								
Cash to Capital			342					342
External Debt	48	1,157						1,205
Internal Financing	1,854							1,854

NET OPERATING IMPACT ($000's)	2019	2020	2021
Operating costs			
Debt and finance charges	208	553	689
Transfer to General Capital Fund			342
Total Direct Costs	208	553	1,031
Less: Incremental Revenue/Recovery	62	38	11
Net Cost/(Benefit)	146	515	1,020
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: 3

Migrate all current civic departments, utilizing the Tait Radio Network that has reached end of life, to the new P25 radio Network by the end of 2021. Departments will lose all effective field communication without the project.

This project may include a maximum of 1 temporary capital funded FTE.

Project Name: **Corporate VoIP Phone System**

Standing Policy Committee: Executive Policy Committee

Department: Innovation, Transformation & Technology

Service: Organizational Support Services

Project: 34XX000020

OurWinnipeg: Prosperity

AUTHORIZATION	Previous Budgets	2019 Estimate	FORECAST 2020	2021	2022	2023	2024	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	-	-	188	-	-	-	-	188	188
Financed by:									
External Debt			188					188	188

CASH FLOW	2019	2020	2021	2022	2023	2024	Beyond 2024	Total
Project Costs ($000's)	-	188	-	-	-	-	-	188
Financed by:								
External Debt		188						188

NET OPERATING IMPACT ($000's)	2019	2020	2021
Operating costs			
Debt and finance charges		21	44
Transfer to General Capital Fund			
Total Direct Costs	-	21	44
Less: Incremental Revenue/Recovery		6	
Net Cost/(Benefit)	-	15	44
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: 3

The existing contract for VoIP phone service expires in 2020. This project will conduct a Request for Proposal and award of contract for VoIP telephone service. This project may include a maximum of 1 temporary capital funded FTE.

Project Name: **Enterprise Business Intelligence Expansion**

Standing Policy Committee: Executive Policy Committee

Department: Innovation, Transformation & Technology

Service: Organizational Support Services

Project: 34XX000019

OurWinnipeg: Prosperity

AUTHORIZATION	Previous Budgets	2019 Estimate	FORECAST 2020	2021	2022	2023	2024	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	-	-	1,274	-	-	-	-	1,274	1,274
Financed by:									
External Debt			1,274					1,274	1,274

CASH FLOW	2019	2020	2021	2022	2023	2024	Beyond 2024	Total
Project Costs ($000's)	-	1,274	-	-	-	-	-	1,274
Financed by:								
External Debt		1,274						1,274

NET OPERATING IMPACT ($000's)	2019	2020	2021
Operating costs		524	535
Debt and finance charges		145	295
Transfer to General Capital Fund			
Total Direct Costs	-	669	830
Less: Incremental Revenue/Recovery		41	
Net Cost/(Benefit)	-	628	830
Incremental Full Time Equivalent Positions	-	4.00	4.00

Class Estimate: 3

Implement Enterprise Business Intelligence (BI) capability to address the highest priority needs across the organization. Project will leverage elements of the planned Water and Waste BI solution. This project will enhance the organization's decision making capabilities and increase its ability to share key insights between business units.

This program may include a maximum of 6 temporary capital funded FTEs.

This project requires 4 additional FTEs in 2020 (2 Information System Specialists, 2 Information Consultants) to maintain the asset.

Project Name: **Intake Program**

Standing Policy Committee: Executive Policy Committee

Department: Innovation, Transformation & Technology

Service: Organizational Support Services

Project: 34XX000019

OurWinnipeg: Prosperity

AUTHORIZATION	Previous Budgets	2019 Estimate	FORECAST 2020	2021	2022	2023	2024	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	-	534	547	557	567	546	556	2,773	3,307
Financed by:									
Cash to Capital				557	567	546	556	2,226	2,226
External Debt			547					547	547
Internal Financing		534							534

CASH FLOW	2019	2020	2021	2022	2023	2024	Beyond 2024	Total
Project Costs ($000's)	534	547	557	567	546	556	-	3,307
Financed by:								
Cash to Capital			557	567	546	556		2,226
External Debt		547						547
Internal Financing	534							534

NET OPERATING IMPACT ($000's)	2019	2020	2021
Operating costs	35	142	254
Debt and finance charges	58	180	245
Transfer to General Capital Fund			557
Total Direct Costs	93	322	1,056
Less: Incremental Revenue/Recovery	17	18	18
Net Cost/(Benefit)	76	304	1,038
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: Not applicable, as this is a scalable program

Organizational Support Services depend on modern industry technologies for the delivery of their City-wide supports. As business needs continue to grow and change, so does the need for enhancement to existing systems, or entirely new systems to support these changes.

The Intake Program will provide a way for initiatives, which have been estimated to cost under $100,000, to secure capital funding. This ability will improve the digital dexterity of the organization and better position the City of Winnipeg for a sustainable future. Projects within the program will be prioritized based on highest positive citizen impact, business value, return on investment projection, and cross organizational use.

The initiatives in this program may include a maximum of 3 temporary capital funded FTEs.

Project Name: **311 Renewal**

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Standing Policy Committee: Executive Policy Committee

Department: Customer Service and Communications

Service: Organizational Support Services

Project: 3700000119

OurWinnipeg: Prosperity

AUTHORIZATION	Previous Budgets	2019 Estimate	FORECAST 2020	2021	2022	2023	2024	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	1,596	-	350	150	100	450	450	1,500	1,500
Financed by:									
Cash to Capital			350	150	100	450	450	1,500	1,500

CASH FLOW	2019	2020	2021	2022	2023	2024	Beyond 2024	Total
Project Costs ($000's)	-	350	150	100	450	450	-	1,500
Financed by:								
Cash to Capital		350	150	100	450	450		1,500

NET OPERATING IMPACT ($000's)	2019	2020	2021
Operating costs			
Debt and finance charges			
Transfer to General Capital Fund		350	150
Total Direct Costs	-	350	150
Less: Incremental Revenue/Recovery		11	5
Net Cost/(Benefit)	-	339	145
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: 3

The City is committed to renewing its Call Center application investments on an ongoing basis to take advantage of new functionality and remain current with suppliers' support.

Project Name: **Assessment Automation**

Standing Policy Committee: Executive Policy Committee

Department: Assessment and Taxation

Service: Assessment, Taxation and Corporate

Project: 1400000119

OurWinnipeg: Sustainability

AUTHORIZATION	Previous Budgets	2019 Estimate	FORECAST 2020	2021	2022	2023	2024	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	N/A *	350	200	350	350	-	250	1,150	1,500
Financed by:									
Cash to Capital		350	200	350	350		250	1,150	1,500

CASH FLOW	2019	2020	2021	2022	2023	2024	Beyond 2024	Total
Project Costs ($000's)	350	200	350	350	-	250	-	1,500
Financed by:								
Cash to Capital	350	200	350	350		250		1,500

NET OPERATING IMPACT ($000's)	2019	2020	2021
Operating costs			
Debt and finance charges			
Transfer to General Capital Fund	350	200	350
Total Direct Costs	350	200	350
Less: Incremental Revenue/Recovery	11	7	11
Net Cost/(Benefit)	339	193	339
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate:Not applicable, as this is a scalable program

The funding in 2019 to 2024 is for system upgrades and rehabilitation to key assessment and taxation systems that interface with the two main CAMA and Manta systems. There are approximately 40 subsystems that interface directly with these systems and funding is required to ensure that they continue to work effectively and efficiently with upgraded platforms and operating systems.

The initiatives in this program may include a maximum of 2 temporary capital funded FTEs.

* N/A - No amounts have been included in the "Previous Budgets" due to this project's on-going nature.

Project Name: **Local Improvements - Ongoing Program**

Standing Policy Committee: Infrastructure Renewal and Public Works

Department: Assessment and Taxation

Service: Roadway Construction and Maintenance

Project: 1420000119

OurWinnipeg: Vitality

AUTHORIZATION	Previous Budgets	2019 Estimate	FORECAST 2020	2021	2022	2023	2024	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	N/A*	2,000	1,600	2,000	2,400	2,400	2,400	10,800	12,800
Financed by:									
Cash to Capital		180		400	480	480		1,360	1,540
Transfer from Prior Authorization (Cash to Capital)		220						-	220
Transfer from Prior Authorization (External Debt)		880						-	880
External Debt		720	1,600	1,600	1,920	1,920	2,400	9,440	10,160

CASH FLOW	2019	2020	2021	2022	2023	2024	Beyond 2024	Total
Project Costs ($000's)	2,000	1,600	2,000	2,400	2,400	2,400	-	12,800
Financed by:								
Cash to Capital	180		400	480	480			1,540
Transfer from Prior Authorization (Cash to Capital)	220							220
Transfer from Prior Authorization (External Debt)	880							880
External Debt	720	1,600	1,600	1,920	1,920	2,400		10,160

NET OPERATING IMPACT ($000's)	2019	2020	2021
Operating costs			
Debt and finance charges	28	112	224
Transfer to General Capital Fund	180		400
Total Direct Costs	208	112	624
Less: Incremental Revenue/Recovery	65	52	65
Net Cost/(Benefit)	143	60	559
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate:Not applicable, as this is a scalable program

Local Improvement capital projects are those which are financed partly by a direct levy on the properties benefited. The program is governed by Local Improvements By-Law No. 98/72 and is subject to advertising and subsequent approval by the majority of ratepayers involved. The types of expenditure generally falling within this category are: paving of local streets and lanes; sidewalk and boulevard construction; installation of new watermains and sewers; ornamental street lighting and lane lighting.

Funding in 2019 includes rebudgeted amounts from 2015 and 2016 approved capital programs - See Appendix 4.

* N/A - No amounts have been included in the "Previous Budgets" due to this project's on-going nature.

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Project Name: **Innovative Transit Program**

Standing Policy Committee: Infrastructure Renewal and Public Works

Department: Transit
Project: 4230030119

Service: Public Transit
OurWinnipeg: Environment

AUTHORIZATION	Previous Budgets	2019 Estimate	FORECAST 2020	2021	2022	2023	2024	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	N/A *	700	325	700	325	325	325	2,000	2,700
Financed by:									
Cash to Capital		700	325	700	325	325	325	2,000	2,700

CASH FLOW	2019	2020	2021	2022	2023	2024	Beyond 2024	Total
Project Costs ($000's)	700	325	700	325	325	325	-	2,700
Financed by:								
Cash to Capital	700	325	700	325	325	325		2,700

NET OPERATING IMPACT ($000's)	2019	2020	2021
Operating costs			
Debt and finance charges			
Transfer to General Capital Fund	700	325	700
Total Direct Costs	700	325	700
Less: Incremental Revenue/Recovery	22	10	22
Net Cost/(Benefit)	678	315	678
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: Not applicable, as this is a scalable program

The Innovative Transit Program mainly provides technology upgrades to systems that support interaction between Transit operations and the public, as well as improvements to transit terminals and shelters including rapid transit stations and allows for improved technology throughout the department.

Transit also uses this program to implement innovative practices throughout the department to improve efficiency. Equipment related to achieving this innovation may be funded through this program.

Includes 2.0 temporary capital funded Full-Time Equivalent (FTE) positions (Analyst Programmer).

* N/A - No amounts have been included in the "Previous Budgets" due to this project's on-going nature.

Project Name: **Transit Building Replacement / Refurbishment**

Standing Policy Committee: Infrastructure Renewal and Public Works

Department: Transit
Project: 4210010119

Service: Public Transit
OurWinnipeg: Environment

AUTHORIZATION	Previous Budgets	2019 Estimate	FORECAST 2020	2021	2022	2023	2024	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	N/A *	-	636	1,636	1,049	1,636	1,000	5,957	5,957
Financed by:									
Cash to Capital			636	1,636	1,049	1,636	1,000	5,957	5,957

CASH FLOW	2019	2020	2021	2022	2023	2024	Beyond 2024	Total
Project Costs ($000's)	-	636	1,636	1,049	1,636	1,000	-	5,957
Financed by:								
Cash to Capital		636	1,636	1,049	1,636	1,000		5,957

NET OPERATING IMPACT ($000's)	2019	2020	2021
Operating costs			
Debt and finance charges			
Transfer to General Capital Fund		636	1,636
Total Direct Costs	-	636	1,636
Less: Incremental Revenue/Recovery		20	51
Net Cost/(Benefit)	-	616	1,585
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: Not applicable, as this is a scalable program

Note: Any surplus funds will automatically be transferred to the following year's Transit Building Replacement/Refurbishment program budget.

Transit's operations are housed at two primary facilities, the Fort Rouge complex and the North Main garage. These facilities are approximately 40 and 80 years old respectively and are operating at capacity. The department funds the maintenance of its facilities through the operating budget, however, many of the structural, mechanical and electrical systems in the existing facilities are past their design and economic lives and capital funding is required to bring the facilities up to acceptable standards.

This multi-year capital program addresses the need for smaller scale projects within Transit's existing facilities. These projects are required due to the age and condition of the buildings.

Includes 2.0 temporary capital funded Full-Time Equivalent (FTE) positions (Project Manager).

Project (in $000s)	2019	2020	2021	2022	2023	2024	Total
General Amounts (Concrete floor repair, replacement of wash rack, etc.)	-	636	1,636	1,049	1,636	1,636	5,957
	-	**636**	**1,636**	**1,049**	**1,636**	**1,000**	**5,957**

Estimated useful life - dependent on the specific project.
* N/A - No amounts have been included in the "Previous Budgets" due to this project's on-going nature.

Project Name: **Transit Building Roof Replacement and Ventilation Upgrade**

Standing Policy Committee: Infrastructure Renewal and Public Works

Department: Transit
Project: 4210010219
Service: Public Transit
OurWinnipeg: Environment

AUTHORIZATION	Previous Budgets	2019 Estimate	FORECAST 2020	2021	2022	2023	2024	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	N/A *	2,335	2,132	2,000	1,400	2,000	2,000	9,532	11,867
Financed by:									
Cash to Capital		522	2,132	2,000	1,400	2,000	2,000	9,532	10,054
Public Transit Infrastructure Fund (Federal Government)		875						-	875
Public Transit Infrastructure Fund (Provincial Government)		438						-	438
Retained Earnings		500						-	500

CASH FLOW	2019	2020	2021	2022	2023	2024	Beyond 2024	Total
Project Costs ($000's)	2,335	2,132	2,000	1,400	2,000	2,000	-	11,867
Financed by:								
Cash to Capital	522	2,132	2,000	1,400	2,000	2,000		10,054
Public Transit Infrastructure Fund (Federal Government)	875							875
Public Transit Infrastructure Fund (Provincial Government)	438							438
Retained Earnings	500							500

NET OPERATING IMPACT ($000's)	2019	2020	2021
Operating costs			
Debt and finance charges			
Transfer to General Capital Fund	522	2,132	2,000
Total Direct Costs	522	2,132	2,000
Less: Incremental Revenue/Recovery	49	67	40
Net Cost/(Benefit)	473	2,065	1,960
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: Not applicable, as this is a scalable program

Note: Any surplus funds will automatically be transferred to the following year's Transit Building Roof Replacement and Ventilation Upgrade project budget.

Transit's Fort Rouge Garage (FRG) at 421 Osborne Street includes two major buildings that total approximately 480,000 square feet in area. The buildings were constructed in 1969 and 1978 and house over 70% of Transit's bus inventory. The roofs are now at the end of their economic and useful lives and need to be replaced.

The FRG storage and maintenance facilities require replacement of the existing ventilation systems, which includes makeup air units and exhaust fans, in response to a regulatory change in allowable levels of airborne nitrogen dioxide (NO2) in diesel exhaust, age and inefficiency of equipment, and pressure imbalances throughout the buildings.

Transit Building Roof Replacement and Ventilation Upgrade (continued):

The breakdown between roof and ventilation work is subject to change, but estimated as:

Project (in $000s)	2019	2020	2021	2022	2023	2024	Total
Fort Rouge Garage Roof Replacement **	885	895					1,780
Upgrade Garage Ventilation Systems **	1,450	1,237	2,000	1,400	2,000	2,000	10,087
	2,335	**2,132**	**2,000**	**1,400**	**2,000**	**2,000**	**11,867**

This project has been impacted by the allocation of provincial and federal funding from the Public Transit Infrastructure Fund program (PTIF - 0004). On April 12, 2018 the Federal government approved the re-application for this project. On July 19, 2018, Council authorized expenditures of up to $1.750 million in 2018 or prior to the adoption of the 2019 capital budget as a first charge against the Transit System Fund and/or other authorized funding sources as determined by the Chief Financial Officer to facilitate timely work on the project.

Estimated useful life - dependent on the specific project.

* N/A - No amounts have been included in the "Previous Budgets" due to this project's on-going nature.

** Projects are considered annual scalable programs and will incorporate annual tenders and are not considered a major capital project.

Project Name: **Garage Improvements - Phase 2**

Standing Policy Committee: Infrastructure Renewal and Public Works

Department: Transit
Project: 4210010319

Service: Public Transit
OurWinnipeg: Environment

AUTHORIZATION	Previous Budgets	2019 Estimate	FORECAST 2020	2021	2022	2023	2024	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	-	1,500	-	-	-	-	-	-	1,500
Financed by:									
Cash to Capital		750						-	750
Public Transit Infrastructure Fund (Federal Government)		750						-	750

CASH FLOW	2019	2020	2021	2022	2023	2024	Beyond 2024	Total
Project Costs ($000's)	1,500	-	-	-	-	-	-	1,500
Financed by:								
Cash to Capital	750							750
Public Transit Infrastructure Fund (Federal Government)	750							750

NET OPERATING IMPACT ($000's)	2019	2020	2021
Operating costs			
Debt and finance charges			
Transfer to General Capital Fund	750		
Total Direct Costs	750	-	-
Less: Incremental Revenue/Recovery	33		
Net Cost/(Benefit)	717	-	-
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: Not applicable, as this is a scalable program

Transit's Fort Rouge Garage (FRG) at 421 Osborne Street includes two major buildings that total approximately 480,000 square feet in area. The buildings were constructed in 1969 and 1978 and house over 70% of Transit's bus inventory. The roofs are now at the end of their economic and useful lives and need to be replaced.

The FRG storage and maintenance facilities require replacement of the existing ventilation systems, which includes makeup air units and exhaust fans, in response to a regulatory change in allowable levels of airborne nitrogen dioxide (NO2) in diesel exhaust, age and inefficiency of equipment, and pressure imbalances throughout the buildings.

The breakdown between roof and ventilation work is subject to change, but estimated as:

Project (in $000s)	**2019**
Fort Rouge Garage Roof Replacement	500
Upgrade Garage Ventilation Systems	1,000
	1,500

This project has been impacted by the allocation of federal funding from the Public Transit Infrastructure Fund program (PTIF - 1084). On April 12, 2018 the Federal government approved the re-application for this project. On July 19, 2018, Council authorized expenditures of up to $1.500 million in 2018 or prior to the adoption of the 2019 capital budget as a first charge against the Transit System Fund and/or other authorized funding sources as determined by the Chief Financial Officer to facilitate timely work on the project.

Estimated useful life - dependent on the specific project.

Project Name: **Transit Buses**

Standing Policy Committee: Infrastructure Renewal and Public Works

Department: Transit
Project: 4210000219

Service: Public Transit
OurWinnipeg: Environment

AUTHORIZATION	Previous Budgets	2019 Estimate	FORECAST 2020	2021	2022	2023	2024	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	N/A *	22,209	29,700	27,596	31,978	33,236	35,918	158,428	180,637
Financed by:									
Cash to Capital			11,827	9,088	12,603	12,209	13,787	59,514	59,514
Transit Bus Replacement Reserve			5,681	11,773	12,640	14,000	14,504	58,598	58,598
Federal Gas Tax		16,188	6,442	6,735	6,735	7,027	7,627	34,566	50,754
External Debt		4,889	5,750					5,750	10,639
Transfer from Prior Year Authorization - Federal Gas Tax		1,132							1,132

CASH FLOW	2019	2020	2021	2022	2023	2024	Beyond 2024	Total
Project Costs ($000's)	22,209	29,700	27,596	31,978	33,236	35,918	-	180,637
Financed by:								
Cash to Capital		11,827	9,088	12,603	12,209	13,787		59,514
Transit Bus Replacement Reserve		5,681	11,773	12,640	14,000	14,504		58,598
Federal Gas Tax	16,188	6,442	6,735	6,735	7,027	7,627		50,754
External Debt	4,889	5,750						10,639
Transfer from Prior Year Authorization - Federal Gas Tax	1,132							1,132

NET OPERATING IMPACT ($000's)	2019	2020	2021
Operating costs	164	334	507
Debt and finance charges	228	738	1,022
Transfer to General Capital Fund		11,827	9,088
Total Direct Costs	392	12,899	10,617
Less: Incremental Revenue/Recovery	197	565	517
Net Cost/(Benefit)	195	12,334	10,100
Incremental Full Time Equivalent Positions	2.00	4.00	6.00

Class Estimate: Not applicable, as this is a scalable program

Note: Any surplus funds will automatically be transferred to the following year's Transit Buses program budget.

This project is for the on-going purchase of low-floor urban transit buses for the replacement of buses that have reached the end of their useful life. Costs will also include all outfitting costs associated with these purchases.

	2019	2020	2021	2022	2023	2024
Forecasted Number of Buses Included in Budget and Forecast above **	34	44	38	38	42	42

The 2019 budget estimate includes provision for buses required for operation on the Southwest Rapid Transitway upon completion of Stage 2

Funding in 2019 includes rebudgeted amount from previously approved 2014 capital budget - see Appendix 4.

Transit Buses (continued):

Includes 1.0 temporary capital funded Full-Time Equivalent (FTE) position starting in 2019 (Coordinator Contracts).

Incremental FTE positions reflect the additional maintenance hours required to maintain new and more complex systems on today's bus. New buses have more complex electronics, emission controls systems, air conditioning units, and fire suppression systems which result in increased maintenance hours. Additionally the change in composition to the fleet with the addition of articulated buses also increases the maintenance needs.

Estimated useful life - 18 years.

* N/A - No amounts have been included in the "Previous Budgets" due to this project's on-going nature.

** The projection of the number of buses included in the budget is subject to change as the price per bus changes based on a number of factors. These factors include, the movement in the Statistics Canada Monthly Industrial Product Price Index which is influenced by the fluctuation in the Canadian currency and inflation, steel tariffs, timing of order placement in relation to the budget approval and changes to technology or product development.

Project Name: **Southwest Rapid Transitway (Stage 2) and Pembina Highway Underpass**

Standing Policy Committee: Infrastructure Renewal and Public Works

Department: Transit
Project: 4230010519

Service: Public Transit
OurWinnipeg: Environment

AUTHORIZATION	Previous Budgets *	2019 Estimate	FORECAST 2020	2021	2022	2023	2024	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	467,300	-	-	-	-	-	-	-	-
Financed by:									
P3 Canada	93,300							-	-
Provincial Grant	180,650							-	-
2010 Provincial Grant for Roads	6,350							-	-
Public Private Partnership (City)	137,150							-	-
External Debt	40,050							-	-
Southwest Rapid Transit Corridor Reserve	4,200							-	-
CN Rail Cost Apportionment	5,600							-	-
Southwest Rapid Transitway (Stage 2) and Pembina Highway Underpass Payment Reserve	350	1,780	14,460	14,720	14,760	14,880	15,190	74,010	75,790
P3 Annual Service / Financing Payments (Province)		(80)	(1,010)	(1,110)	(1,120)	(1,180)	(1,300)	(5,720)	(5,800)
P3 Annual Service / Financing Payments (City)	(350)	(1,700)	(10,060)	(10,220)	(10,250)	(10,310)	(10,500)	(51,340)	(53,040)
External Debt Annual Service Payments (City)			(3,390)	(3,390)	(3,390)	(3,390)	(3,390)	(16,950)	(16,950)

CASH FLOW	2019	2020	2021	2022	2023	2024	Beyond 2024	Total
Project Costs ($000's)	1,780	14,460	14,720	14,760	14,880	15,190	416,613	492,403
Financed by:								
Southwest Rapid Transitway (Stage 2) and Pembina Highway Underpass Payment Reserve	1,780	14,460	14,720	14,760	14,880	15,190	416,613	492,403

NET OPERATING IMPACT ($000's)	2019	2020	2021
Operating costs		3,724	5,065
Debt and finance charges			
Transfer to General Capital Fund			
Total Direct Costs	-	3,724	5,065
Less: Incremental Revenue/Recovery			
Net Cost/(Benefit)	-	3,724	5,065
Incremental Full Time Equivalent Positions	-	32.90	43.86

Class Estimate: Not applicable

Southwest Rapid Transitway (Stage 2) and Pembina Highway Underpass (continued):

The Southwest Rapid Transitway (Stage 2) and Pembina Highway Underpass was approved by Council on June 25, 2014 as a 2014 capital project. This project has been awarded as a Design-Build-Finance-Operate-Maintain Public-Private-Partnership (P3) Project and is expected to be complete in late 2019 with service beginning in 2020.

The Southwest Rapid Transitway (Stage 2) is 7.6 km. in length and runs from Jubilee Avenue south to the University of Manitoba. It will serve various residential, commercial, industrial, recreational and educational centres in southwest Winnipeg. The project will include the construction of several grade separations, multiple Transitway stations, and an extension to the existing active transportation path built as part of the Stage 1 Transitway project. Combined with the construction of the Transitway extension is the widening of Pembina Highway Underpass by one northbound lane, rehabilitation of the underpass and also active transportation components.

Upon completion of Stage 2, rapid transit service will operate the full length of the 11.2 km. corridor between downtown and all destinations in the southwest part of the city, including the University of Manitoba and Investors Group Field.

The project's successful bidder was selected in June 2016 and the project achieved Financial Close June 24, 2016. The project's previous budgets have been updated to reflect project savings achieved and the distribution of the savings to the different funding sources. Funding shares are based on agreements in place and reflect current estimates of eligible expenditures.

On December 14, 2017, P3 Canada and the City of Winnipeg executed an amendment to the existing P3 Canada / City of Winnipeg Southwest Rapid Transit Stage 2 & Pembina Hwy Underpass Project - Financial Agreement. The amendment was the result of a review of P3 Canada's eligible cost criteria and resulted in P3 Canada increasing their financial commitment by $2.1 million up to $93.3 million. The overall project budget does not change.

Revision to Previous Budgets and Approximate Overall Project Funding (in $000s)

	Previous	Revisions	Revised
City	188,050	(1,050)	187,000
Province	188,050	(1,050)	187,000
Federal	91,200	2,100	93,300
	467,300	-	467,300

Approved budget includes the following assumptions/provisions:

- 4 year project construction period, 2016 to end of 2019.

- Upfront costs include land, procurement costs, City contract administration (temporary staff), external advisors and engineers, etc.

- P3 Annual Service / Financing Payment is comprised of both P3 construction cost repayment and maintenance costs both over 30 years. Transit related maintenance costs are paid for by City 50% and Province 50%. An agreement is still required.

- Previous Budgets for related projects not reflected above include: $1.3 million from the Pembina Highway Underpass project, $1 million from P3 Consulting and Project Development, and a portion of $4.2 million approved for Rapid Transit Planning and Design.

- The project budget does not include amounts for Transit Bus purchases. Transit Bus purchases related to Stage 2 of the Southwest Rapid Transitway have been budgeted in 2019 within the Transit Buses capital project.

- The 2014 Budget request included 5.0 temporary capital funded Full-Time Equivalent (FTE) positions (various positions).

The Provincial funding for the 2019 Estimate and 2020 to 2024 Forecast represents previously approved funding levels.

P3 Annual Service Payments

The above annual estimates include the authorization for the lease and financing payments to be incurred and charged to the projects in the Transit System Fund.

A portion of the payment to the successful bidder will represent an annual amount dedicated to the maintenance of the facility, including long term rehabilitative costs. This amount is adjusted for changes to the Consumer Price Index on an annual basis.

Southwest Rapid Transitway (Stage 2) and Pembina Highway Underpass (continued):

Debt and Other Financing

On March 23, 2015 Council approved additional borrowing authority of $31 million and on July 15, 2015 approved an additional $112 million of borrowing, for a total of $143 million, as a method of interim financing the project, to be repaid as funding from the Province of Manitoba is received. This repayment is expected to be complete by 2022 with payments flowing as follows:

(in $000s)	Authorized	2019	2020	2021	2022	Total
Interim Financing - External Debt / (Repayments)	143,000	(31,000)	(67,000)	(22,500)	(22,500)	-

On January 27, 2016, Council approved a cost-sharing arrangement for CN Rail to pay the City $5.6 million as their cost apportionment for the Pembina Highway Underpass reconstruction as part of the "Southwest Rapid Transitway (Stage 2) and Pembina Highway Underpass" capital project.

On March 22, 2016 Council approved an additional $16.5 million of external debt in replacement of Public Private Partnership debt. The revised budget for the Public Private Partner was reduced to $204.3 million. This allowed the Request for Proposals to be structured in a way to ensure bidders did not add significant contingencies to their bid submissions for utility costing. Utility costing is difficult for the bidders to determine, therefore the City limited their exposure on this item. It may mean paying amounts directly to Project Co. and a funding mechanism (external debt) will be required for this. This was in the best interest of the City to ensure the lowest cost project.

On December 13, 2016 Council approved an additional $23.55 million of external debt in replacement of Public Private Partnership debt. This will make the external borrowing amount equal to $16.5 million and $23.55 million for a total of $40.05 million in 2016 with all related debt and finance charges to be repaid from the Southwest Rapid Transitway (Stage 2) and Pembina Highway Underpass Payment Reserve.

* Previous budgets reflect 2014 approval of the capital project plus all Council approved recommendations to revise the budget as indicated above.

Project Name: **Transit Safety Management Practices**

Standing Policy Committee: Infrastructure Renewal and Public Works

Department: Transit
Project: 4210001219

Service: Public Transit
OurWinnipeg: Environment

AUTHORIZATION	Previous Budgets	2019 Estimate	FORECAST 2020	2021	2022	2023	2024	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	N/A *	165	-	-	-	-	-	-	165
Financed by:									
Retained Earnings		165							165

CASH FLOW	2019	2020	2021	2022	2023	2024	Beyond 2024	Total
Project Costs ($000's)	165	-	-	-	-	-	-	165
Financed by:								
Retained Earnings	165							165

NET OPERATING IMPACT ($000's)	2019	2020	2021
Operating costs		5	5
Debt and finance charges			
Transfer to General Capital Fund			
Total Direct Costs	-	5	5
Less: Incremental Revenue/Recovery	5		
Net Cost/(Benefit)	(5)	5	5
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: 3

This program is for on-going Transit safety initiatives. The 2019 Estimates are for the provision of protective vests for Transit inspectors and a safety study.

* N/A - No amounts have been included in the "Previous Budgets" due to this project's on-going nature.

Project Name: **Accessibility Program (Formerly Bus Stop Accessibility Program)**

Standing Policy Committee: Infrastructure Renewal and Public Works

Department: Transit
Project: 4230030219

Service: Public Transit
OurWinnipeg: Environment

AUTHORIZATION	Previous Budgets	2019 Estimate	FORECAST 2020	2021	2022	2023	2024	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	-	500	500	500	500	500	500	2,500	3,000
Financed by:									
Cash to Capital		500	500	500	500	500	500	2,500	3,000

CASH FLOW	2019	2020	2021	2022	2023	2024	Beyond 2024	Total
Project Costs ($000's)	500	500	500	500	500	500	-	3,000
Financed by:								
Cash to Capital	500	500	500	500	500	500		3,000

NET OPERATING IMPACT ($000's)	2019	2020	2021
Operating costs			
Debt and finance charges			
Transfer to General Capital Fund	500	500	500
Total Direct Costs	500	500	500
Less: Incremental Revenue/Recovery	16	16	16
Net Cost/(Benefit)	484	484	484
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: Not applicable, as this is a scalable program

This program includes work over several years to update bus stops in order to meet accessibility standards, provide wheelchair access (powered) doors at all heated shelters, and paved access. It will also include a design study to determine solutions to provide information for visually-impaired riders at major stops.

Includes 0.50 temporary capital funded Full-time Equivalent (FTE) position beginning in 2019 (Project Manager). In 2020 this is a shared position between the Accessibility Program, Heavy Shop Equipment Replacement Program, and the Hoist Replacement at Fort Rouge Garage Program.

Project Name: **Bus Communication Modernization**

Standing Policy Committee: Infrastructure Renewal and Public Works

Department: Transit
Project: 4210001319

Service: Public Transit
OurWinnipeg: Environment

AUTHORIZATION	Previous Budgets	2019 Estimate	FORECAST 2020	2021	2022	2023	2024	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	1,140	1,140	-	-	-	-	-	-	1,140
Financed by:									
Federal Gas Tax		1,140							1,140

CASH FLOW	2019	2020	2021	2022	2023	2024	Beyond 2024	Total
Project Costs ($000's)	1,140	-	-	-	-	-	-	1,140
Financed by:								
Federal Gas Tax	1,140							1,140

NET OPERATING IMPACT ($000's)	2019	2020	2021
Operating costs	141	144	150
Debt and finance charges			
Transfer to General Capital Fund			
Total Direct Costs	141	144	150
Less: Incremental Revenue/Recovery	14		
Net Cost/(Benefit)	127	144	150
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: 3

This project will replace existing outdated communication hardware to improve the abilities of Winnipeg Transit's fleet of buses to communicate critical operational information with central computer systems, thereby increasing the reliability of customer information and Peggo payment systems. The new communications equipment will also allow for the future roll out of customer Wi-Fi, as well as numerous opportunities for improving safety, customer service, and operational efficiency through real-time communications.

The net operating impact reflects the funding required for data plans and on-going third party maintenance.

Project Name: **Heavy Shop Equipment Replacement Program**

Standing Policy Committee: Infrastructure Renewal and Public Works

Department: Transit
Project: 4210010619

Service: Public Transit
OurWinnipeg: Environment

AUTHORIZATION	Previous Budgets	2019 Estimate	FORECAST 2020	2021	2022	2023	2024	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	-	1,805	-	200	200	200	200	800	2,605
Financed by:									
Cash to Capital		928		200	200	200	200	800	1,728
Public Transit Infrastructure Fund (Federal Government)		877						-	877

CASH FLOW	2019	2020	2021	2022	2023	2024	Beyond 2024	Total
Project Costs ($000's)	1,805	-	200	200	200	200	-	2,605
Financed by:								
Cash to Capital	928		200	200	200	200		1,728
Public Transit Infrastructure Fund (Federal Government)	877							877

NET OPERATING IMPACT ($000's)	2019	2020	2021
Operating costs			
Debt and finance charges			
Transfer to General Capital Fund	928		200
Total Direct Costs	928	-	200
Less: Incremental Revenue/Recovery	40		6
Net Cost/(Benefit)	888	-	194
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: Not applicable, as this is a scalable program

The Heavy Shop Equipment Replacement Program will replace several of Transit's outdated and aged equipment in the maintenance shop. This will minimize equipment and bus downtime, save money on expensive custom parts, and ensure buses are available for service in a timely manner.

Includes 0.33 temporary capital funded Full-time Equivalent (FTE) position (Project Manager). In 2019 this is a shared position supporting the Rapid Overhead Doors at Washrack Project, Heavy Shop Equipment Replacement Program, and the Hoist Replacement at Fort Rouge Garage Program. In 2020 this is a shared position supporting the Accessibility Program, Heavy Shop Equipment Replacement Program, and the Hoist Replacement at Fort Rouge Garage Program.

This project has been impacted by the allocation of federal funding from the Public Transit Infrastructure Fund program (PTIF - 1070). On April 12, 2018 the Federal government approved the re-application for this project. On July 19, 2018, Council authorized expenditures of up to $1.805 million in 2018 or prior to the adoption of the 2019 capital budget as a first charge against the Transit System Fund and/or other authorized funding sources as determined by the Chief Financial Officer to facilitate timely work on the project.

Project Name: **Hoist Replacement at Fort Rouge Garage**

Standing Policy Committee: Infrastructure Renewal and Public Works

Department: Transit
Project: 4210010419

Service: Public Transit
OurWinnipeg: Environment

AUTHORIZATION	Previous Budgets	2019 Estimate	FORECAST 2020	2021	2022	2023	2024	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	-	1,400	1,000	2,500	2,500	2,500	2,000	10,500	11,900
Financed by:									
Cash to Capital		750	1,000	2,500	2,500	2,500	2,000	10,500	11,250
Public Transit Infrastructure Fund (Federal Government)		650						-	650

CASH FLOW	2019	2020	2021	2022	2023	2024	Beyond 2024	Total
Project Costs ($000's)	1,400	1,000	2,500	2,500	2,500	2,000	-	11,900
Financed by:								
Cash to Capital	750	1,000	2,500	2,500	2,500	2,000		11,250
Public Transit Infrastructure Fund (Federal Government)	650							650

NET OPERATING IMPACT ($000's)	2019	2020	2021
Operating costs			
Debt and finance charges			
Transfer to General Capital Fund	750	1,000	2,500
Total Direct Costs	750	1,000	2,500
Less: Incremental Revenue/Recovery	32	31	79
Net Cost/(Benefit)	718	969	2,421
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: Not applicable, as this is a scalable program

All 39 in-ground hoists found in the Fort Rouge Garage maintenance shop require replacement mainly due to deterioration and age, inefficient and outdated designs, and to ensure compliance with new hoist codes and standards.

Includes 0.33 temporary capital funded Full-time Equivalent (FTE) position (Project Manager). In 2019 this is a shared position supporting the Rapid Overhead Doors at Washrack Project, Heavy Shop Equipment Replacement Program, and the Hoist Replacement at Fort Rouge Garage Program. In 2020 this is a shared position supporting the Accessibility Program, Heavy Shop Equipment Replacement Program, and the Hoist Replacement at Fort Rouge Garage Program.

This project has been impacted by the allocation of federal funding from the Public Transit Infrastructure Fund program (PTIF - 1053). On April 12, 2018 the Federal government approved the re-application for this project. On July 19, 2018, Council authorized expenditures of up to $1.400 million in 2018 or prior to the adoption of the 2019 capital budget as a first charge against the Transit System Fund and/or other authorized funding sources as determined by the Chief Financial Officer to facilitate timely work on the project.

Project Name: **Rapid Overhead Doors at Washrack**

Standing Policy Committee: Infrastructure Renewal and Public Works

Department: Transit
Project: 4210010519

Service: Public Transit
OurWinnipeg: Environment

AUTHORIZATION	Previous Budgets	2019 Estimate	FORECAST 2020	2021	2022	2023	2024	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	-	600	-	-	-	-	-	-	600
Financed by:									
Cash to Capital		350							350
Public Transit Infrastructure Fund (Federal Government)		250						-	250

CASH FLOW	2019	2020	2021	2022	2023	2024	Beyond 2024	Total
Project Costs ($000's)	600	-	-	-	-	-	-	600
Financed by:								
Cash to Capital	350							350
Public Transit Infrastructure Fund (Federal Government)	250							250

NET OPERATING IMPACT ($000's)	2019	2020	2021
Operating costs			
Debt and finance charges			
Transfer to General Capital Fund	350		
Total Direct Costs	350	-	-
Less: Incremental Revenue/Recovery	14		
Net Cost/(Benefit)	336	-	-
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: Not applicable, as this is a scalable program

This project is for the replacement of failing overhead doors on track servicing bays with more energy efficient fast operating doors to reduce heat loss.

Includes 0.34 temporary capital funded Full-time Equivalent (FTE) position (Project Manager). In 2019 this is a shared position supporting the Rapid Overhead Doors at Washrack Project, Heavy Shop Equipment Replacement Program, and the Hoist Replacement at Fort Rouge Garage Program.

This project has been impacted by the allocation of federal funding from the Public Transit Infrastructure Fund program (PTIF - 1048). On April 12, 2018 the Federal government approved the re-application for this project. On July 19, 2018 Council authorized expenditures of up to $600,000 in 2018 or prior to the adoption of the 2019 capital budget as a first charge against the Transit System Fund and/or other authorized funding sources as determined by the Chief Financial Officer to facilitate timely work on the project.

Project Name: **Administration and Control Centre Radio Replacement**

Standing Policy Committee: Infrastructure Renewal and Public Works

Department: Transit
Project: 4210010719

Service: Public Transit
OurWinnipeg: Environment

AUTHORIZATION	Previous Budgets	2019 Estimate	FORECAST 2020	2021	2022	2023	2024	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	-	1,000	-	-	-	-	-	-	1,000
Financed by:									
Retained Earnings		1,000							1,000

CASH FLOW	2019	2020	2021	2022	2023	2024	Beyond 2024	Total
Project Costs ($000's)	1,000	-	-	-	-	-	-	1,000
Financed by:								
Retained Earnings	1,000							1,000

NET OPERATING IMPACT ($000's)	2019	2020	2021
Operating costs			
Debt and finance charges			
Transfer to General Capital Fund			
Total Direct Costs	-	-	-
Less: Incremental Revenue/Recovery	31		
Net Cost/(Benefit)	(31)	-	-
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: 3

The Administration and Control Centre Radio Replacement project will replace Transit's aging and obsolete current administrative radio system. The project will involve connecting to the City's new P25 Digital Public Safety Communication System, replacement of the existing Control Centre communications consoles with new full range consoles, replacement of mobile radios in all Transit (non-bus) vehicles, and replacement of portable radios currently used by Transit employees with mid-tier and high-tier radios.

Project Name: **Land Acquisition**

Standing Policy Committee: Infrastructure Renewal and Public Works

Department: Transit
Project: 4210010819

Service: Public Transit
OurWinnipeg: Environment

AUTHORIZATION	Previous Budgets	2019 Estimate	FORECAST 2020	2021	2022	2023	2024	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	-	1,000	-	3,000	-	-	-	3,000	4,000
Financed by:									
Cash to Capital				3,000				3,000	3,000
Retained Earnings		1,000						-	1,000

CASH FLOW	2019	2020	2021	2022	2023	2024	Beyond 2024	Total
Project Costs ($000's)	1,000	-	3,000	-	-	-	-	4,000
Financed by:								
Cash to Capital			3,000					3,000
Retained Earnings	1,000							1,000

NET OPERATING IMPACT ($000's)	2019	2020	2021
Operating costs			
Debt and finance charges			
Transfer to General Capital Fund			3,000
Total Direct Costs	-	-	3,000
Less: Incremental Revenue/Recovery	31		94
Net Cost/(Benefit)	(31)	-	2,906
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: Not applicable, as this is a scalable program

Transit has identified two properties that are required to support ongoing operational needs and strategic development. Lands identified include a parcel adjacent to Transit's Fort Rouge Campus that is required to carry out the department's long-term plan of consolidating staff into one location, as well as enabling the department to properly secure the Fort Rouge Campus and limit access to authorized individuals only. The second parcel is required for the future replacement of the North Garage. The location for the garage replacement has yet to be identified.

Project Name: **Bus Operator Compartment Safety Shields**

Standing Policy Committee: Infrastructure Renewal and Public Works

Department: Transit
Project: 4210001619

Service: Public Transit
OurWinnipeg: Environment

AUTHORIZATION	Previous Budgets	2019 Estimate	FORECAST 2020	2021	2022	2023	2024	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	-	3,150	-	-	-	-	-	-	3,150
Financed by:									
Cash to Capital		3						-	3
Federal Gas Tax		551						-	551
Retained Earnings		2,596							2,596

CASH FLOW	2019	2020	2021	2022	2023	2024	Beyond 2024	Total
Project Costs ($000's)	3,150	-	-	-	-	-	-	3,150
Financed by:								
Cash to Capital	3							3
Federal Gas Tax	551							551
Retained Earnings	2,596							2,596

NET OPERATING IMPACT ($000's)	2019	2020	2021
Operating costs			
Debt and finance charges			
Transfer to General Capital Fund	3	-	-
Total Direct Costs	3	-	-
Less: Incremental Revenue/Recovery	90		
Net Cost/(Benefit)	(87)	-	-
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: 3

A pilot project to test bus operator compartment safety shields concluded in August 2018. This project is for the purchase and installation of the safety shields on all buses in Transit's current fleet.

Includes 3.0 temporary capital funded Full-Time Equivalent (FTE) positions for shield installation.

Project Name: **Electric Bus Study**

Standing Policy Committee: Infrastructure Renewal and Public Works

Department: Transit
Project: 4210001419

Service: Public Transit
OurWinnipeg: Environment

AUTHORIZATION	Previous Budgets	2019 Estimate	FORECAST 2020	2021	2022	2023	2024	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	-	1,000	-	-	-	-	-	-	1,000
Financed by:									
Retained Earnings		1,000						-	1,000

CASH FLOW	2019	2020	2021	2022	2023	2024	Beyond 2024	Total
Project Costs ($000's)	1,000	-	-	-	-	-	-	1,000
Financed by:								
Retained Earnings	1,000							1,000

NET OPERATING IMPACT ($000's)	2019	2020	2021
Operating costs			
Debt and finance charges			
Transfer to General Capital Fund			
Total Direct Costs	-	-	-
Less: Incremental Revenue/Recovery	3		
Net Cost/(Benefit)	(3)	-	-
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: 3

This project is for the creation of a detailed study and other related research and planning to provide a Class 3 cost estimate for the purchase of 12-20 battery-electric buses, associated charging infrastructure, and other related infrastructure. This work will determine the steps required for a larger scale deployment of electric buses beyond the current pilot project, including, but not limited to, identifying decisions that would be required on charging infrastructure, highlighting any potential planning, operational and maintenance issues, as well as determining the lifecycle costs of electric buses versus diesel buses.

Includes 1.0 temporary capital funded Full-Time Equivalent (FTE) position for a project lead.

Project Name: **Heated Bus Shelter Program**

Standing Policy Committee: Infrastructure Renewal and Public Works

Department: Transit
Project: 4210001519

Service: Public Transit
OurWinnipeg: Environment

AUTHORIZATION	Previous Budgets	2019 Estimate	FORECAST 2020	2021	2022	2023	2024	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	-	1,031	-	-	-	-	-	-	1,031
Financed by:									
Cash to Capital		536						-	536
Retained Earnings		495						-	495

CASH FLOW	2019	2020	2021	2022	2023	2024	Beyond 2024	Total
Project Costs ($000's)	1,031	-	-	-	-	-	-	1,031
Financed by:								
Cash to Capital	536							536
Retained Earnings	495							495

NET OPERATING IMPACT ($000's)	2019	2020	2021
Operating costs			
Debt and finance charges			
Transfer to General Capital Fund	536		
Total Direct Costs	536	-	-
Less: Incremental Revenue/Recovery	32		
Net Cost/(Benefit)	504	-	-
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate:5

This program includes the purchase and installation of heated bus shelters. In addition to installing heated bus shelters, the 2019 estimate includes funds to conduct site assessments and selections as well as work required to achieve a Class 3 estimate. The Department will provide a strategy to fund additional shelters beyond what is achieved with this budget, concurrent with the result of Transit's operational review. Future operating budget impacts, following construction, have not yet been determined.

Construction will not commence until a class 3 estimate is obtained.

Project Name: **Low Income Bus Pass**

Standing Policy Committee: Infrastructure Renewal and Public Works

Department: Transit
Project: 4210001619

Service: Public Transit
OurWinnipeg: Environment

AUTHORIZATION	Previous Budgets	2019 Estimate	FORECAST 2020	2021	2022	2023	2024	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	-	236	-	139	-	-	-	139	375
Financed by:									
Retained Earnings		236		139				139	375

CASH FLOW	2019	2020	2021	2022	2023	2024	Beyond 2024	Total
Project Costs ($000's)	236	-	139	-	-	-	-	375
Financed by:								
Retained Earnings	236		139					375

NET OPERATING IMPACT ($000's)	2019	2020	2021
Operating costs		292	371
Debt and finance charges			
Transfer to General Capital Fund			
Total Direct Costs	-	292	371
Less: Incremental Revenue/Recovery	7		4
Net Cost/(Benefit)	(7)	292	367
Incremental Full Time Equivalent Positions	-	5.25	7.00

Class Estimate: 3

The low income pass program is recommended with an effective launch date of April 1st, 2020. This project is to set up all aspects of the low income pass program including, but not limited to, technological and system requirements, program administration including application routing and review, and customer support.

Incremental costs, included above in Net Operating Impact, are fully offset by reductions in bus parts in 2020.

Project Name: **Shoal Lake Aqueduct Asset Preservation**

Standing Policy Committee: Water and Waste, Riverbank Management and the Environment

Department: Water and Waste
Project: 2003000621

Service: Water
OurWinnipeg: Environment

AUTHORIZATION	Previous Budgets	2019 Estimate	FORECAST 2020	2021	2022	2023	2024	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	N/A*	-	-	1,840	2,000	1,465	-	5,305	5,305
Financed by:									
Retained Earnings				1,840	2,000	1,465		5,305	5,305

CASH FLOW	2019	2020	2021	2022	2023	2024	Beyond 2024	Total
Project Costs ($000's)	-	-	1,840	2,000	1,465	-	-	5,305
Financed by:								
Retained Earnings			1,840	2,000	1,465			5,305

NET OPERATING IMPACT ($000's)	2019	2020	2021
Operating costs			
Debt and finance charges			
Transfer to General Capital Fund			
Total Direct Costs	-	-	-
Less: Incremental Revenue/Recovery			
Net Cost/(Benefit)	-	-	-
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: 5

The Shoal Lake Aqueduct, which has been in continuous service since 1919, delivers water to Winnipeg from Shoal Lake, a distance of 156 kilometers (97 miles).

Funds are for rehabilitation work identified through on-going monitoring and inspection programs. Work identified to date includes rehabilitation of the Aqueduct underdrain system, rehabilitation of the drainage siphons crossing under the Aqueduct, and the rehabilitation/ replacement of select boathouses, overflow structures, bar screens, stop logs, vent pipes, manholes, culverts, and railway crossings signals.

Class estimates for individual projects within this program will be revised to class 3 through preliminary engineering prior to construction.

The expected life of this asset is 40 years.

* N/A - No amounts have been included in the "Previous Budgets" due to this project's on-going nature.

Project Name: **Shoal Lake Aqueduct Intake Facility Rehabilitation**

Standing Policy Committee: Water and Waste, Riverbank Management and the Environment

Department: Water and Waste
Project: 2012000222
Service: Water
OurWinnipeg: Environment

AUTHORIZATION	Previous Budgets	2019 Estimate	FORECAST 2020	2021	2022	2023	2024	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	N/A*	-	-	-	7,400	150	3,055	10,605	10,605
Financed by:									
Retained Earnings					7,400	150	3,055	10,605	10,605

CASH FLOW	2019	2020	2021	2022	2023	2024	Beyond 2024	Total
Project Costs ($000's)	-	-	-	7,400	150	3,055	-	10,605
Financed by:								
Retained Earnings				7,400	150	3,055		10,605

NET OPERATING IMPACT ($000's)	2019	2020	2021
Operating costs			
Debt and finance charges			
Transfer to General Capital Fund			
Total Direct Costs	-	-	-
Less: Incremental Revenue/Recovery			
Net Cost/(Benefit)	-	-	-
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: 4

The Shoal Lake Aqueduct, which has been in continuous service since 1919, is the sole water supply infrastructure for the City. The Shoal Lake Intake Structure is the transition headworks to receive water from Shoal Lake and to control the water flow into the Aqueduct. Given the critical nature of the intake structure and its associated venturi structure to the safe operation of the Aqueduct and the City's water supply, a condition assessment was undertaken and identified a number of rehabilitation and replacement requirements. This included the replacement and refurbishment of various mechanical components that date back to the original construction, upgrades to the mussel control system, as well as upgrades and improvements to the existing infrastructure. The recommended improvements will be completed in phases according to priority.

Preliminary design will provide a class 3 estimate prior to construction.

$1,465,000 from 2016 capital budget authorization was returned to Retained Earnings for redistribution and is being budgeted in future years of the project.

The expected life of this asset is 50 years.

* N/A - No amounts have been included in the "Previous Budgets" due to this project's on-going nature.

Project Name: **Aqueduct Condition Assessment and Rehabilitation**

Standing Policy Committee: Water and Waste, Riverbank Management and the Environment

Department: Water and Waste
Project: 2003000521
Service: Water
OurWinnipeg: Environment

AUTHORIZATION	Previous Budgets	2019 Estimate	FORECAST 2020	2021	2022	2023	2024	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	2,400	-	-	1,000	-	1,000	-	2,000	2,000
Financed by:									
Retained Earnings				1,000		1,000		2,000	2,000

CASH FLOW	2019	2020	2021	2022	2023	2024	Beyond 2024	Total
Project Costs ($000's)	-	-	1,000	-	1,000	-	-	2,000
Financed by:								
Retained Earnings			1,000		1,000			2,000

NET OPERATING IMPACT ($000's)	2019	2020	2021
Operating costs			
Debt and finance charges			
Transfer to General Capital Fund			
Total Direct Costs	-	-	-
Less: Incremental Revenue/Recovery			
Net Cost/(Benefit)	-	-	-
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: 4

The Shoal Lake Aqueduct, the Branch I and II Aqueducts, and the Branch Interconnection Aqueduct are specialized pipes which are unique in size, materials, construction techniques and failure modes. The Shoal Lake Aqueduct and the Branch I Aqueduct were installed between 1914 to 1918 and the Branch II and Interconnection Aqueducts were installed between 1959 and 1963. All of these require specialized inspection, testing, and maintenance to preserve the asset.

Funds are for the condition assessment and rehabilitation of the aqueduct and branch aqueducts.

Preliminary planning will provide a class 3 estimate prior to inspection and/or construction.

The expected life of this asset is 40 years.

Project Name: **Tache Booster Pumping Station**

Standing Policy Committee: Water and Waste, Riverbank Management and the Environment

Department: Water and Waste
Project: 2005000619
Service: Water
OurWinnipeg: Environment

AUTHORIZATION	Previous Budgets	2019 Estimate	FORECAST 2020	2021	2022	2023	2024	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	394	785	-	1,000	1,220	645	-	2,865	3,650
Financed by:									
Retained Earnings		785		1,000	1,220	645		2,865	3,650

CASH FLOW	2019	2020	2021	2022	2023	2024	Beyond 2024	Total
Project Costs ($000's)	785	-	1,000	1,220	645	-	-	3,650
Financed by:								
Retained Earnings	785		1,000	1,220	645			3,650

NET OPERATING IMPACT ($000's)	2019	2020	2021
Operating costs			
Debt and finance charges			
Transfer to General Capital Fund			
Total Direct Costs	-	-	-
Less: Incremental Revenue/Recovery			
Net Cost/(Benefit)	-	-	-
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: 4

The Tache Booster Pumping Station, on the Branch 1 Aqueduct, was constructed in 1950 in order to develop the full capacity of the aqueduct. A study identified a number of required upgrades to the pumping station and the aqueduct surge tower adjacent to the station. The work includes upgrading the station's electrical, heating and ventilation systems, upgrading the foundation and roof structures, and upgrading and reconfiguring the valve and piping system between the pumping station and the surge tower. Also, aesthetic, security fencing and landscaping upgrades to the site and facilities will be undertaken to coincide and assimilate with the proposed residential redevelopment of the surrounding area.

Preliminary design work will provide a class 3 estimate prior to construction.

The expected life of the rehabilitated asset is 50 years.

Project Name: **Pumping Stations and Reservoirs Structural Upgrades**

Standing Policy Committee: Water and Waste, Riverbank Management and the Environment

Department: Water and Waste
Project: 2005001220

Service: Water
OurWinnipeg: Environment

AUTHORIZATION	Previous Budgets	2019 Estimate	FORECAST 2020	2021	2022	2023	2024	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	N/A*	-	800	-	-	-	-	800	800
Financed by:									
Retained Earnings			800					800	800

CASH FLOW	2019	2020	2021	2022	2023	2024	Beyond 2024	Total
Project Costs ($000's)	-	800	-	-	-	-	-	800
Financed by:								
Retained Earnings		800						800

NET OPERATING IMPACT ($000's)	2019	2020	2021
Operating costs			
Debt and finance charges			
Transfer to General Capital Fund			
Total Direct Costs	-	-	-
Less: Incremental Revenue/Recovery			
Net Cost/(Benefit)	-	-	-
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: 5

The McPhillips, Wilkes and MacLean reservoirs provide balancing storage to meet fluctuating daily water demands; the McPhillips, Hurst, and MacLean pumping stations provide the final pumping to deliver water to the Water Utility customers. These pump stations and reservoirs were constructed in the early 1960s. It is anticipated that the building structures will require upgrading to ensure the uninterrupted operation of these pumping facilities.

Condition assessments will be undertaken at the reservoirs to identify any repairs needed to ensure the reservoirs remain operational for the next 50 years. Additional investments in the pumping stations and reservoirs will be put forward as a result of the condition assessments.

Class 3 estimates will be developed prior to award of work.

The expected life of these assets is 50 years.

* N/A - No amounts have been included in the "Previous Budgets" due to this project's on-going nature.

Project Name: **Chlorination Upgrading at Pumping Stations**

Standing Policy Committee: Water and Waste, Riverbank Management and the Environment

Department: Water and Waste
Project: 2005001121
Service: Water
OurWinnipeg: Environment

AUTHORIZATION	Previous Budgets	2019 Estimate	FORECAST 2020	2021	2022	2023	2024	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	200	-	-	3,575	-	-	-	3,575	3,575
Financed by:									
Retained Earnings				3,575				3,575	3,575

CASH FLOW	2019	2020	2021	2022	2023	2024	Beyond 2024	Total
Project Costs ($000's)	-	-	3,575	-	-	-	-	3,575
Financed by:								
Retained Earnings			3,575					3,575

NET OPERATING IMPACT ($000's)	2019	2020	2021
Operating costs			
Debt and finance charges			
Transfer to General Capital Fund			
Total Direct Costs	-	-	-
Less: Incremental Revenue/Recovery			
Net Cost/(Benefit)	-	-	-
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: 4

The Drinking Water Quality Strategy Project has determined that chlorination at the existing pumping stations should continue in order to maintain a chlorine residual in the distribution system. The existing chlorination system uses chlorine gas, which is a hazardous chemical.

Funds are for the design and installation of a new chlorine system or for the existing system to be upgraded in order to reduce risks.

The expected life of these assets is 25 years.

Project Name: **Water Supervisory Control and Data Acquisition (SCADA) Upgrade**

Standing Policy Committee: Water and Waste, Riverbank Management and the Environment

Department: Water and Waste
Project: 2005000219

Service: Water
OurWinnipeg: Environment

AUTHORIZATION	Previous Budgets	2019 Estimate	FORECAST 2020	2021	2022	2023	2024	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	12,300	4,125	-	-	-	-	-	-	4,125
Financed by:									
Retained Earnings		4,125						-	4,125

CASH FLOW	2019	2020	2021	2022	2023	2024	Beyond 2024	Total
Project Costs ($000's)	4,125	-	-	-	-	-	-	4,125
Financed by:								
Retained Earnings	4,125							4,125

NET OPERATING IMPACT ($000's)	2019	2020	2021
Operating costs			
Debt and finance charges			
Transfer to General Capital Fund			
Total Direct Costs	-	-	-
Less: Incremental Revenue/Recovery			
Net Cost/(Benefit)	-	-	-
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: 3

The City's Regional SCADA system, which is used to provide automated control and visualization of the water supply and distribution system, has reached the end of its useful life. Further, the Programmable Logic Controllers (PLCs), which are specialized hardware with customized software that provide local control of the water distribution system, have also reached the end of their useful life. To ensure a continuous supply of water to the City of Winnipeg, the Regional SCADA system and PLCs need to be replaced. Power reliability upgrades will be undertaken in conjunction with the SCADA and PLC upgrades to address shortcomings in the existing control and instrumentation design and will add redundancy to ensure greater station reliability.

The expected life of these assets ranges from 5 to 12 years.

Project Name: **Waterworks System Security Upgrades**

Standing Policy Committee: Water and Waste, Riverbank Management and the Environment

Department: Water and Waste
Project: 2001001520

Service: Water
OurWinnipeg: Environment

AUTHORIZATION	Previous Budgets	2019 Estimate	FORECAST 2020	2021	2022	2023	2024	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	N/A *	-	500	-	-	-	-	500	500
Financed by:									
Retained Earnings			500	-				500	500

CASH FLOW	2019	2020	2021	2022	2023	2024	Beyond 2024	Total
Project Costs ($000's)	-	500	-	-	-	-	-	500
Financed by:								
Retained Earnings		500						500

NET OPERATING IMPACT ($000's)	2019	2020	2021
Operating costs			
Debt and finance charges			
Transfer to General Capital Fund			
Total Direct Costs	-	-	-
Less: Incremental Revenue/Recovery			
Net Cost/(Benefit)	-	-	-
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: 5

The waterworks system is made up of complex infrastructure that delivers water from Shoal Lake to Winnipeg homes and businesses. Operating the waterworks system is subject to legislation including the Drinking Water Safety Act, Public Health Act, Operator Certification Regulations, Workplace Safety and Health Act, and Environment Act. Safeguarding our infrastructure from accidental or intentional damage or destruction is critical to drinking water quality and public health. Funding is required for increased security measures to adequately protect the waterworks system.

Preliminary design work will provide a class 3 estimate prior to construction.

Funds for this program will be included in future years as needs are identified.

* N/A - No amounts have been included in the "Previous Budgets" due to this project's on-going nature.

Project Name: **Regulatory Assessment of Water System Infrastructure and Supply Sources**

Standing Policy Committee: Water and Waste, Riverbank Management and the Environment

Department: Water and Waste
Project: 2001000721

Service: Water
OurWinnipeg: Environment

AUTHORIZATION	Previous Budgets	2019 Estimate	FORECAST 2020	2021	2022	2023	2024	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	-	-	-	575	-	-	-	575	575
Financed by:									
Retained Earnings				575				575	575

CASH FLOW	2019	2020	2021	2022	2023	2024	Beyond 2024	Total
Project Costs ($000's)	-	-	575	-	-	-	-	575
Financed by:								
Retained Earnings			575					575

NET OPERATING IMPACT ($000's)	2019	2020	2021
Operating costs			
Debt and finance charges			
Transfer to General Capital Fund			
Total Direct Costs	-	-	-
Less: Incremental Revenue/Recovery			
Net Cost/(Benefit)	-	-	-
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: 3

A drinking water system Infrastructure Assessment is required under the Provincial Drinking Water Safety Act. The objective of the report is to carry out an onsite evaluation to identify, analyze, and mitigate any potential adverse health risks and environmental impacts associated with the water system in a "source to tap" methodology. This work will also determine whether the water system's source, facilities, equipment, and operations are effective in producing safe drinking water, and meet current regulations.

Infrastructure assessment reports are required on a five-year reporting frequency.

Project Name: **Deacon Reservoir Cell Rehabilitation**

Standing Policy Committee: Water and Waste, Riverbank Management and the Environment

Department: Water and Waste
Project: 2011000122
Service: Water
OurWinnipeg: Environment

AUTHORIZATION	Previous Budgets	2019 Estimate	FORECAST 2020	2021	2022	2023	2024	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	2,825	-	-	-	100	-	-	100	100
Financed by:									
Retained Earnings					100			100	100

CASH FLOW	2019	2020	2021	2022	2023	2024	Beyond 2024	Total
Project Costs ($000's)	-	-	-	100	-	-	-	100
Financed by:								
Retained Earnings				100				100

NET OPERATING IMPACT ($000's)	2019	2020	2021
Operating costs			
Debt and finance charges			
Transfer to General Capital Fund			
Total Direct Costs	-	-	-
Less: Incremental Revenue/Recovery			
Net Cost/(Benefit)	-	-	-
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: 5

The Deacon Reservoir is used to supplement the City's water supply when the daily demand exceeds the capacity of the Shoal Lake Aqueduct and to provide water during Shoal Lake Aqueduct shutdowns. A topographic survey of the top of the reservoir dikes found some top of dike elevations that were substantially lower than design elevations. Geotechnical testing was completed and found that the dike fill remains well compacted and consolidation of the soils below the dikes is ongoing but is slowing over time. Based on existing water demands and the operational strategy of the reservoir, consolidation will continue to be monitored through dike surveys and any dike raises will be deferred until water demands increase.

The expected life of this asset is 50 years.

Project Name: **Deacon Booster Pumping Station Suction Header Divider Wall and Valve**

Standing Policy Committee: Water and Waste, Riverbank Management and the Environment

Department: Water and Waste
Project: 2005000920
Service: Water
OurWinnipeg: Environment

AUTHORIZATION	Previous Budgets	2019 Estimate	FORECAST 2020	2021	2022	2023	2024	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	57	-	1,245	-	-	-	-	1,245	1,245
Financed by:									
Retained Earnings			1,245					1,245	1,245

CASH FLOW	2019	2020	2021	2022	2023	2024	Beyond 2024	Total
Project Costs ($000's)	-	1,245	-	-	-	-	-	1,245
Financed by:								
Retained Earnings		1,245						1,245

NET OPERATING IMPACT ($000's)	2019	2020	2021
Operating costs			
Debt and finance charges			
Transfer to General Capital Fund			
Total Direct Costs	-	-	-
Less: Incremental Revenue/Recovery			
Net Cost/(Benefit)	-	-	-
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: 5

The Deacon Booster Pumping Station suction header pipe has been identified as a single point of failure for the supply of treated water to the City.

Funds are used to effectively divide the suction header. This will permit a continuous supply of water to the City in the event a leak occurs on this suction header.

The expected life of this asset is 50 years.

Project Name: **HVAC Upgrades at Pumping Stations**

Standing Policy Committee: Water and Waste, Riverbank Management and the Environment

Department: Water and Waste
Project: 2005001420

Service: Water
OurWinnipeg: Environment

AUTHORIZATION	Previous Budgets	2019 Estimate	FORECAST 2020	2021	2022	2023	2024	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	1,000	-	4,090	-	-	-	-	4,090	4,090
Financed by:									
Retained Earnings			4,090					4,090	4,090

CASH FLOW	2019	2020	2021	2022	2023	2024	Beyond 2024	Total
Project Costs ($000's)	-	4,090	-	-	-	-	-	4,090
Financed by:								
Retained Earnings		4,090						4,090

NET OPERATING IMPACT ($000's)	2019	2020	2021
Operating costs			
Debt and finance charges			
Transfer to General Capital Fund			
Total Direct Costs	-	-	-
Less: Incremental Revenue/Recovery			
Net Cost/(Benefit)	-	-	-
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: 4

The McPhillips, Hurst and MacLean pumping stations provide the final pumping to deliver water to the water utility customers. The pump stations use chillers and distribution water to maintain operating temperatures in the facilities and for the equipment. The chillers at McPhillips and Hurst have to be replaced as the refrigerant currently used will be phased out in 2020. The natural gas engines and the fluid couplings use distribution water for cooling which is then sent to waste. A new method for cooling the natural gas engines will be investigated and implemented.

Preliminary design work will provide a class 3 estimate prior to construction.

The estimated life of this asset is 20 years.

Project Name: **Ultraviolet Light Disinfection System Upgrade**

Standing Policy Committee: Water and Waste, Riverbank Management and the Environment

Department: Water and Waste
Project: 2005001520

Service: Water
OurWinnipeg: Environment

AUTHORIZATION	Previous Budgets	2019 Estimate	FORECAST 2020	2021	2022	2023	2024	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	1,762	-	855	-	-	-	-	855	855
Financed by:									
Retained Earnings			855					855	855

CASH FLOW	2019	2020	2021	2022	2023	2024	Beyond 2024	Total
Project Costs ($000's)	-	855	-	-	-	-	-	855
Financed by:								
Retained Earnings		855						855

NET OPERATING IMPACT ($000's)	2019	2020	2021
Operating costs		(40)	(40)
Debt and finance charges			
Transfer to General Capital Fund			
Total Direct Costs	-	(40)	(40)
Less: Incremental Revenue/Recovery			
Net Cost/(Benefit)	-	(40)	(40)
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: 3

Filtered water produced by the Water Treatment Plant undergoes final treatment by ultraviolet light at the Deacon Booster Pumping Station before being delivered to the City's water distribution system. The ultraviolet light disinfection system is an integral pathogen barrier in the treatment process. An assessment report was finalized in 2016 to evaluate upgrade options to address recent research findings in medium-pressure lamp technology, maintenance concerns from several key system components at or near the end of their useful life, as well as optimization of the system for the treated water quality. Funding is to complete the recommended upgrades.

The expected life of this asset is 20 years.

Project Name: **Discharge Meter Upgrades at the In-town Pumping Stations**

Standing Policy Committee: Water and Waste, Riverbank Management and the Environment

Department: Water and Waste
Project: 2005001619
Service: Water
OurWinnipeg: Environment

AUTHORIZATION	Previous Budgets	2019 Estimate	FORECAST 2020	2021	2022	2023	2024	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	-	150	-	3,950	-	-	-	3,950	4,100
Financed by:									
Retained Earnings		150		3,950				3,950	4,100

CASH FLOW	2019	2020	2021	2022	2023	2024	Beyond 2024	Total
Project Costs ($000's)	150	-	3,950	-	-	-	-	4,100
Financed by:								
Retained Earnings	150		3,950					4,100

NET OPERATING IMPACT ($000's)	2019	2020	2021
Operating costs			
Debt and finance charges			
Transfer to General Capital Fund			
Total Direct Costs	-	-	-
Less: Incremental Revenue/Recovery			
Net Cost/(Benefit)	-	-	-
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: 3 - applies to 2019 only

The in-town pumping stations supply 100% of the City's daily water use. Accurate flow measurement of water leaving the pumping stations is critical to the operation of the water distribution system. Due to age and lack of hardware support, the accuracy of the existing meters is not within an acceptable range.

Funds are to replace the meters and provide a means of secondary measurement.

Preliminary design will provide a class 3 estimate prior to construction.

The estimated life of this asset is 25 years.

Project Name: **Water Treatment Plant Asset Refurbishment and Replacement**

Standing Policy Committee: Water and Waste, Riverbank Management and the Environment

Department: Water and Waste
Project: 2002500819
Service: Water
OurWinnipeg: Environment

AUTHORIZATION	Previous Budgets	2019 Estimate	FORECAST 2020	2021	2022	2023	2024	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	125	575	4,650	-	-	-	2,000	6,650	7,225
Financed by:									
Retained Earnings		575	4,650				2,000	6,650	7,225

CASH FLOW	2019	2020	2021	2022	2023	2024	Beyond 2024	Total
Project Costs ($000's)	575	4,650	-	-	-	2,000	-	7,225
Financed by:								
Retained Earnings	575	4,650				2,000		7,225

NET OPERATING IMPACT ($000's)	2019	2020	2021
Operating costs			
Debt and finance charges			
Transfer to General Capital Fund			
Total Direct Costs	-	-	-
Less: Incremental Revenue/Recovery			
Net Cost/(Benefit)	-	-	-
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: 5

The Water Treatment Plant provides treated drinking water to the City of Winnipeg. The continued upkeep and maintenance of the Water Treatment Plant's assets is required to ensure a continuous supply of water. An asset refurbishment and replacement plan has been developed to address asset lifecycle issues at the Water Treatment Plant as they arise.

Condition assessment of the Water Treatment Plant assets is ongoing and the asset refurbishment and replacement program will address items as they are identified and prioritized.

Individual projects within this program will be revised to Class 3 estimates through preliminary engineering prior to construction.

The estimated life of a rehabilitated asset ranges from 20 to 80 years, depending on asset type, condition, and the rehabilitation method used.

Project Name: **Water Conservation and Efficiency Study**

Standing Policy Committee: Water and Waste, Riverbank Management and the Environment

Department: Water and Waste
Project: 2001002819

Service: Water
OurWinnipeg: Environment

AUTHORIZATION	Previous Budgets	2019 Estimate	FORECAST 2020	2021	2022	2023	2024	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	230	155	-	-	-	-	-	-	155
Financed by:									
Retained Earnings		155							155

CASH FLOW	2019	2020	2021	2022	2023	2024	Beyond 2024	Total
Project Costs ($000's)	155	-	-	-	-	-	-	155
Financed by:								
Retained Earnings	155							155

NET OPERATING IMPACT ($000's)	2019	2020	2021
Operating costs			
Debt and finance charges			
Transfer to General Capital Fund			
Total Direct Costs	-	-	-
Less: Incremental Revenue/Recovery			
Net Cost/(Benefit)	-	-	-
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: 3

In 2011, City Council adopted OurWinnipeg - Sustainable Water and Waste Directional Strategy, a 25-year planning vision (until 2035) for the City of Winnipeg. As part of this strategy, the City will continue it's Water Conservation Program.

A Water Conservation and Efficiency Study is a critical component to the City's water and wastewater infrastructure. This study will identify potential policies, programs and resource requirements to align with the major planning documents OurWinnipeg - Sustainable Water and Waste Directional Strategy. Key work areas include detailed evaluations of Winnipeg's water demand, conservation initiatives, metering and water rate impacts.

Project Name: **Feeder Main Condition Assessment and Rehabilitation**

Standing Policy Committee: Water and Waste, Riverbank Management and the Environment

Department: Water and Waste
Project: 2004000719
Service: Water
OurWinnipeg: Environment

AUTHORIZATION	Previous Budgets	2019 Estimate	FORECAST 2020	2021	2022	2023	2024	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	N/A *	350	3,550	1,000	1,100	1,100	1,150	7,900	8,250
Financed by:									
Retained Earnings		350	3,550	1,000	1,100	1,100	1,150	7,900	8,250

CASH FLOW	2019	2020	2021	2022	2023	2024	Beyond 2024	Total
Project Costs ($000's)	350	3,550	1,000	1,100	1,100	1,150	-	8,250
Financed by:								
Retained Earnings	350	3,550	1,000	1,100	1,100	1,150		8,250

NET OPERATING IMPACT ($000's)	2019	2020	2021
Operating costs			
Debt and finance charges			
Transfer to General Capital Fund			
Total Direct Costs	-	-	-
Less: Incremental Revenue/Recovery			
Net Cost/(Benefit)	-	-	-
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: Not applicable, as this is a scalable program

Feeder mains are specialized pipes which are unique in size, materials, construction techniques, and failure modes. The majority of feeder mains were installed in the 1960s and require inspection, testing, and maintenance to preserve the asset. The program will also include replacement of valves and operators, related pipe connections, valve chambers, structural assessments, and restoration works.

Additional investments in Feeder Main Condition Assessment and Rehabilitation will be put forward as a result of recent and ongoing condition assessment.

The estimated life of a rehabilitated asset ranges from 20 to 80 years, depending on asset type, condition, and the rehabilitation method used.

* N/A - No amounts have been included in the "Previous Budgets" due to this project's on-going nature.

Project Name: **Building Renovations - 1199 Pacific Avenue**

Standing Policy Committee: Water and Waste, Riverbank Management and the Environment

Department: Water and Waste
Project: 2001000823

Service: Water
OurWinnipeg: Environment

AUTHORIZATION	Previous Budgets	2019 Estimate	FORECAST 2020	2021	2022	2023	2024	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	110	-	-	-	-	2,100	2,100	4,200	4,200
Financed by:									
Retained Earnings						2,100	2,100	4,200	4,200

CASH FLOW	2019	2020	2021	2022	2023	2024	Beyond 2024	Total
Project Costs ($000's)	-	-	-	-	2,100	2,100	-	4,200
Financed by:								
Retained Earnings					2,100	2,100		4,200

NET OPERATING IMPACT ($000's)	2019	2020	2021
Operating costs			
Debt and finance charges			
Transfer to General Capital Fund			
Total Direct Costs	-	-	-
Less: Incremental Revenue/Recovery			
Net Cost/(Benefit)	-	-	-
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: 5

Reconfiguration and/or renovations to the Water and Waste building at 1199 Pacific Avenue are necessary to expand meeting space and accommodate project staff working on the Winnipeg Sewage Treatment Program. Relocation of expanded Solid Waste and Information Systems and Technology Divisions has resulted in a need to reconfigure the space.

Project Name: **Water Meter Replacement Program**

Standing Policy Committee: Water and Waste, Riverbank Management and the Environment

Department: Water and Waste
Project: 2001003420

Service: Water
OurWinnipeg: Environment

AUTHORIZATION	Previous Budgets	2019 Estimate	FORECAST 2020	2021	2022	2023	2024	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	-	-	450	-	-	-	-	450	450
Financed by:									
Retained Earnings			450					450	450

CASH FLOW	2019	2020	2021	2022	2023	2024	Beyond 2024	Total
Project Costs ($000's)	-	450	-	-	-	-	-	450
Financed by:								
Retained Earnings		450						450

NET OPERATING IMPACT ($000's)	2019	2020	2021
Operating costs			
Debt and finance charges			
Transfer to General Capital Fund			
Total Direct Costs	-	-	-
Less: Incremental Revenue/Recovery			
Net Cost/(Benefit)	-	-	-
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: 5

The majority of the City's inventory of water meters are at end of life. Funds in 2020 will be used to review current water meter technology, validate the best replacement technology and develop a plan and class 3 estimate for implementation of a multi-year direct-read water meter replacement program.

The estimated life of a water meter is 15 years.

Project Name: **Public Water Outlets**

Standing Policy Committee: Water and Waste, Riverbank Management and the Environment

Department: Water and Waste
Project: 2001001719
Service: Water
OurWinnipeg: Environment

AUTHORIZATION	Previous Budgets	2019 Estimate	FORECAST 2020	2021	2022	2023	2024	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	750	475	-	-	-	-	-	-	475
Financed by:									
Retained Earnings		475						-	475

CASH FLOW	2019	2020	2021	2022	2023	2024	Beyond 2024	Total
Project Costs ($000's)	475	-	-	-	-	-	-	475
Financed by:								
Retained Earnings	475							475

NET OPERATING IMPACT ($000's)	2019	2020	2021
Operating costs			
Debt and finance charges			
Transfer to General Capital Fund			
Total Direct Costs	-	-	-
Less: Incremental Revenue/Recovery			
Net Cost/(Benefit)	-	-	-
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: 2

The City currently operates two public water outlets located at 1539 Waverley Street and on Portage Avenue, west of the Perimeter Highway. Public water outlets are bulk water fill stations (also known as standpipes) where the public can purchase and collect water.

Both public water outlets currently exist in a state of age related deterioration. The main deficiencies include end of life metering systems, poor site drainage, overhead water delivery systems that are no longer in use and structural deterioration which poses risk to continued safe operation of the facilities. The Capital funding is to rehabilitate/replace the public water service outlets to provide reliable and safe operation.

The expected life of this asset is 30 years.

Project Name: **Water Main Renewals**

Standing Policy Committee: Water and Waste, Riverbank Management and the Environment

Department: Water and Waste
Project: 2013100019

Service: Water
OurWinnipeg: Environment

AUTHORIZATION	Previous Budgets	2019 Estimate	FORECAST 2020	2021	2022	2023	2024	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	N/A *	16,500	18,000	19,000	19,500	20,000	20,000	96,500	113,000
Financed by:									
Water Main Renewal Reserve		16,500	18,000	19,000	19,500	20,000	20,000	96,500	113,000

CASH FLOW	2019	2020	2021	2022	2023	2024	Beyond 2024	Total
Project Costs ($000's)	16,500	18,000	19,000	19,500	20,000	20,000	-	113,000
Financed by:								
Water Main Renewal Reserve	16,500	18,000	19,000	19,500	20,000	20,000		113,000

NET OPERATING IMPACT ($000's)	2019	2020	2021
Operating costs			
Debt and finance charges			
Transfer to General Capital Fund			
Total Direct Costs	-	-	-
Less: Incremental Revenue/Recovery			
Net Cost/(Benefit)	-	-	-
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: Not applicable, as this is a scalable program

This is a continuing program to replace and/or rehabilitate deteriorating water main infrastructure. Funding is used for water main replacement, cathodic protection, valve and hydrant replacement/rehabilitation, correction of dead end mains, upgrading of substandard mains, water system studies, assessments, development of design standards and replacement of problem water services within the City right-of-way and hydraulic improvements for fire protection purposes. Funding is also used for integrated right-of-way renewal programs coordinated with the Public Works Department.

The expected remaining life of each rehabilitated water main ranges from 20 to 80 years, depending on the rehabilitation technology and the asset condition.

* N/A - No amounts have been included in the "Previous Budgets" due to this project's on-going nature.

Project Name: **Customer Billing and Work Management Systems Upgrades Program**

Standing Policy Committee: Water and Waste, Riverbank Management and the Environment

Department: Water and Waste
Project: 2010001219

Service: Water
OurWinnipeg: Environment

AUTHORIZATION	Previous Budgets	2019 Estimate	FORECAST 2020	2021	2022	2023	2024	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	N/A *	185	1,565	2,110	430	925	730	5,760	5,945
Financed by:									
Retained Earnings		185	1,565	2,110	430	925	730	5,760	5,945

CASH FLOW	2019	2020	2021	2022	2023	2024	Beyond 2024	Total
Project Costs ($000's)	185	1,565	2,110	430	925	730	-	5,945
Financed by:								
Retained Earnings	185	1,565	2,110	430	925	730		5,945

NET OPERATING IMPACT ($000's)	2019	2020	2021
Operating costs	22	23	24
Debt and finance charges			
Transfer to General Capital Fund			
Total Direct Costs	22	23	24
Less: Incremental Revenue/Recovery			
Net Cost/(Benefit)	22	23	24
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: Not applicable, as this is a scalable program

Customer Care and Billing (CCB) is used to manage customer accounts and collections for Water, Wastewater and Solid Waste services. Oracle Work Order and Asset Management (WAM) is used in the delivery of Water and Wastewater services for work planning, management, infrastructure preventative maintenance and renewal programs. Both CCB and WAM require ongoing product updates to ensure these systems can support the day-to-day operations within Water and Waste Department.

This program will maintain the CCB and WAM systems to meet current and future business requirements resulting from functional, technical, and business continuity changes.

The estimated life of this asset is 10 years.

Funding for this program is split between the Waterworks System Fund and the Sewage Disposal Fund.

*N/A - No amounts has been included in the "Previous Budgets" due to this project's on-going nature.

Project Name: **Customer Care and Billing - iNovah Integration**

Standing Policy Committee: Water and Waste, Riverbank Management and the Environment

Department: Water and Waste
Project: 2010001519
Service: Water
OurWinnipeg: Environment

AUTHORIZATION	Previous Budgets	2019 Estimate	FORECAST 2020	2021	2022	2023	2024	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	300	130	-	-	-	-	-	-	130
Financed by:									
Retained Earnings		130							130

CASH FLOW	2019	2020	2021	2022	2023	2024	Beyond 2024	Total
Project Costs ($000's)	130	-	-	-	-	-	-	130
Financed by:								
Retained Earnings	130							130

NET OPERATING IMPACT ($000's)	2019	2020	2021
Operating costs		11	12
Debt and finance charges			
Transfer to General Capital Fund			
Total Direct Costs	-	11	12
Less: Incremental Revenue/Recovery			
Net Cost/(Benefit)	-	11	12
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: 3

Customer Care and Billing (CCB) system is used to store utility customer account information and to print utility bills; iNovah is the cashiering system used to receive and process payments for utility services. The CCB-iNovah Integration project aims to streamline the cashiering and payment processes by enhancing and integrating the Information Technology systems used by City staff.

The estimated life of this asset is 10 years.

Project Name: **Automated Remittance Processing**

Standing Policy Committee: Water and Waste, Riverbank Management and the Environment

Department: Water and Waste
Project: 2010001319

Service: Water
OurWinnipeg: Environment

AUTHORIZATION	Previous Budgets	2019 Estimate	FORECAST 2020	2021	2022	2023	2024	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	-	400	-	-	-	-	-	-	400
Financed by:									
Retained Earnings		400						-	400

CASH FLOW	2019	2020	2021	2022	2023	2024	Beyond 2024	Total
Project Costs ($000's)	400	-	-	-	-	-	-	400
Financed by:								
Retained Earnings	400							400

NET OPERATING IMPACT ($000's)	2019	2020	2021
Operating costs		(34)	(34)
Debt and finance charges			
Transfer to General Capital Fund			
Total Direct Costs	-	(34)	(34)
Less: Incremental Revenue/Recovery			
Net Cost/(Benefit)	-	(34)	(34)
Incremental Full Time Equivalent Positions	-	(1.00)	(1.00)

Class Estimate: 3

This project will improve accuracy and optimize existing procedures in processing cheque payments.

The estimated life of this asset is 10 years.

Project Name: **Application and Data Integration**

Standing Policy Committee: Water and Waste, Riverbank Management and the Environment

Department: Water and Waste
Project: 2010001820

Service: Water
OurWinnipeg: Environment

AUTHORIZATION	Previous Budgets	2019 Estimate	FORECAST 2020	2021	2022	2023	2024	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	N/A *	-	250	610	-	-	-	860	860
Financed by:									
Retained Earnings			250	610				860	860

CASH FLOW	2019	2020	2021	2022	2023	2024	Beyond 2024	Total
Project Costs ($000's)	-	250	610	-	-	-	-	860
Financed by:								
Retained Earnings		250	610					860

NET OPERATING IMPACT ($000's)	2019	2020	2021
Operating costs			100
Debt and finance charges			
Transfer to General Capital Fund			
Total Direct Costs	-	-	100
Less: Incremental Revenue/Recovery			
Net Cost/(Benefit)	-	-	100
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: Not applicable, as this is a scalable program

This program will integrate various applications and data sources at Water and Waste Department to be able to connect information across systems and to obtain a single source of truth. This will expand service delivery capabilities, improve access to and sharing of data and information, and enable new applications and technologies to provide superior utility service to customers.

Additional funds will be added to this program following further gap analysis.

The estimated life of this asset is 10 years.

*N/A - No amounts has been included in the "Previous Budgets" due to this project's on-going nature.

Project Name: **Digital Enablement for Plant and Field Employees**

Standing Policy Committee: Water and Waste, Riverbank Management and the Environment

Department: Water and Waste
Project: 2010001919
Service: Water
OurWinnipeg: Environment

AUTHORIZATION	Previous Budgets	2019 Estimate	FORECAST 2020	2021	2022	2023	2024	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	N/A *	530	850	660	680	660	-	2,850	3,380
Financed by:									
Retained Earnings		530	850	660	680	660		2,850	3,380

CASH FLOW	2019	2020	2021	2022	2023	2024	Beyond 2024	Total
Project Costs ($000's)	530	850	660	680	660	-	-	3,380
Financed by:								
Retained Earnings	530	850	660	680	660			3,380

NET OPERATING IMPACT ($000's)	2019	2020	2021
Operating costs	75	77	83
Debt and finance charges			
Transfer to General Capital Fund			
Total Direct Costs	75	77	83
Less: Incremental Revenue/Recovery			
Net Cost/(Benefit)	75	77	83
Incremental Full Time Equivalent Positions	-	0.40	0.40

Class Estimate: Not applicable, as this is a scalable program

This program will develop and implement technology solutions that can be leveraged by plant and field employees to perform their work more effectively and efficiently, and provide timely information to the public and 311.

This will increase productivity by reducing manual effort, improve accessibility to information, improve accuracy and quality of information, reduce time to record and retrieve information, improve communication, and improve customer service and experience.

The estimated life of this asset is 10 years.

*N/A - No amounts has been included in the "Previous Budgets" due to this project's on-going nature.

Project Name: **Information Technology Cybersecurity Review**

Standing Policy Committee: Water and Waste, Riverbank Management and the Environment

Department: Water and Waste
Project: 2010001619
Service: Water
OurWinnipeg: Environment

AUTHORIZATION	Previous Budgets	2019 Estimate	FORECAST 2020	2021	2022	2023	2024	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	-	340	-	-	-	-	-	-	340
Financed by:									
Retained Earnings		340							340

CASH FLOW	2019	2020	2021	2022	2023	2024	Beyond 2024	Total
Project Costs ($000's)	340	-	-	-	-	-	-	340
Financed by:								
Retained Earnings	340							340

NET OPERATING IMPACT ($000's)	2019	2020	2021
Operating costs			
Debt and finance charges			
Transfer to General Capital Fund			
Total Direct Costs	-	-	-
Less: Incremental Revenue/Recovery			
Net Cost/(Benefit)	-	-	-
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: 3

This project will retain Information Technology (IT) Cybersecurity-related services and expertise to evaluate and assess Water and Waste Department's IT environment and practices, provide recommendations to strengthen its cybersecurity profile and increase the protection of data and assets through planning, education, and implementing cybersecurity standards, and measures.

The estimate life of this asset is 10 years.

Project Name: **GIS Enhancements**

Standing Policy Committee: Water and Waste, Riverbank Management and the Environment

Department: Water and Waste
Project: 2010002019

Service: Water
OurWinnipeg: Environment

AUTHORIZATION	Previous Budgets	2019 Estimate	FORECAST 2020	2021	2022	2023	2024	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	-	300	-	-	-	-	-	-	300
Financed by:									
Retained Earnings		300						-	300

CASH FLOW	2019	2020	2021	2022	2023	2024	Beyond 2024	Total
Project Costs ($000's)	300	-	-	-	-	-	-	300
Financed by:								
Retained Earnings	300							300

NET OPERATING IMPACT ($000's)	2019	2020	2021
Operating costs			
Debt and finance charges			
Transfer to General Capital Fund			
Total Direct Costs	-	-	-
Less: Incremental Revenue/Recovery			
Net Cost/(Benefit)	-	-	-
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: 3

This project will address the Geographic Information System (GIS) enhancements that are required to meet the needs of the user base and dependent applications. It will ensure optimal operational efficiency while improving the reliability, relevance, and timeliness of information being shared by other applications and between users of the system.

The estimate life of this asset is 10 years.

Project Name: **Information Technology Enterprise Architecture**

Standing Policy Committee: Water and Waste, Riverbank Management and the Environment

Department: Water and Waste
Project: 2010001720

Service: Water
OurWinnipeg: Environment

AUTHORIZATION	Previous Budgets	2019 Estimate	FORECAST 2020	2021	2022	2023	2024	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	-	-	125	-	-	-	-	125	125
Financed by:									
Retained Earnings			125					125	125

CASH FLOW	2019	2020	2021	2022	2023	2024	Beyond 2024	Total
Project Costs ($000's)	-	125	-	-	-	-	-	125
Financed by:								
Retained Earnings		125						125

NET OPERATING IMPACT ($000's)	2019	2020	2021
Operating costs			
Debt and finance charges			
Transfer to General Capital Fund			
Total Direct Costs	-	-	-
Less: Incremental Revenue/Recovery			
Net Cost/(Benefit)	-	-	-
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: 4

This project will develop and implement an Enterprise Architecture for the Water and Waste Department to guide development and integration projects to reduce costs, increase security, improve productivity, and improve compliance with integration standards, and data and information sharing policies in order to meet the growing demand for integrated solutions to deliver quality service to customers.

Funds will be used to develop a class 3 estimate prior to implementation.

The estimate life of this asset is 10 years.

Project Name: **SEWPCC Second Stage Dewatering**

Standing Policy Committee: Water and Waste, Riverbank Management and the Environment

Department: Water and Waste
Project: 2032000822

Service: Wastewater
OurWinnipeg: Environment

AUTHORIZATION	Previous Budgets	2019 Estimate	FORECAST 2020	2021	2022	2023	2024	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	-	-	-	-	1,000	-	-	1,000	1,000
Financed by:									
Retained Earnings					1,000			1,000	1,000

CASH FLOW	2019	2020	2021	2022	2023	2024	Beyond 2024	Total
Project Costs ($000's)	-	-	-	1,000	-	-	-	1,000
Financed by:								
Retained Earnings				1,000		-		1,000

NET OPERATING IMPACT ($000's)	2019	2020	2021
Operating costs			
Debt and finance charges			
Transfer to General Capital Fund			
Total Direct Costs	-	-	-
Less: Incremental Revenue/Recovery			
Net Cost/(Benefit)	-	-	-
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: 4

The City intends to implement a new biosolids treatment system at the North End Sewage Treatment Plant (NEWPCC) as a result of the Water Protection Act which requires beneficial reuse of biosolids and maximum nutrient recovery and reuse.

All sludge from the City's South End Sewage Treatment Plant (SEWPCC) is hauled to the NEWPCC for treatment. The new treatment system at the NEWPCC can receive a thicker sludge from SEWPCC resulting in reduced hauling costs. This work will evaluate and design second stage dewatering at the SEWPCC to produce the thicker sludge.

The expected life of the structure upgrades is 50 years and the expected life of the electrical and mechanical components is 25 years.

Project Name: **Sludge Drying Beds Decommissioning**

Standing Policy Committee: Water and Waste, Riverbank Management and the Environment

Department: Water and Waste
Project: 2034001122
Service: Wastewater
OurWinnipeg: Environment

AUTHORIZATION	Previous Budgets	2019 Estimate	FORECAST 2020	2021	2022	2023	2024	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	-	-	-	-	350	-	-	350	350
Financed by:									
Retained Earnings					350			350	350

CASH FLOW	2019	2020	2021	2022	2023	2024	Beyond 2024	Total
Project Costs ($000's)	-	-	-	350	-	-	-	350
Financed by:								
Retained Earnings				350		-		350

NET OPERATING IMPACT ($000's)	2019	2020	2021
Operating costs			
Debt and finance charges			
Transfer to General Capital Fund			
Total Direct Costs	-	-	-
Less: Incremental Revenue/Recovery			
Net Cost/(Benefit)	-	-	-
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: 3

The former sludge drying beds in West St. Paul are no longer being used for storage. Decommissioning the sludge drying beds is a condition of closing the Environment Act Licence 1089 E RR. This work will develop a decommissioning plan and identify options for future use.

Additional funds will be required in future years to implement the recommendations of this plan.

Project Name: **Process Control System Master Plan and Upgrade**

Standing Policy Committee: Water and Waste, Riverbank Management and the Environment

Department: Water and Waste
Project: 2040000623
Service: Wastewater
OurWinnipeg: Environment

AUTHORIZATION	Previous Budgets	2019 Estimate	FORECAST 2020	2021	2022	2023	2024	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	11,000	-	-	-	-	2,000	-	2,000	2,000
Financed by:									
Retained Earnings						2,000		2,000	2,000

CASH FLOW	2019	2020	2021	2022	2023	2024	Beyond 2024	Total
Project Costs ($000's)	-	-	-	-	2,000	-	-	2,000
Financed by:								
Retained Earnings					2,000			2,000

NET OPERATING IMPACT ($000's)	2019	2020	2021
Operating costs			
Debt and finance charges			
Transfer to General Capital Fund			
Total Direct Costs	-	-	-
Less: Incremental Revenue/Recovery			
Net Cost/(Benefit)	-	-	-
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: 4

The Water and Waste Department's three sewage treatment plants utilize a Distributed Control System (DCS) with a Process Control View (PCV) Human Machine Interface (HMI) for process control. It is an intricate network of specialized computers that monitor thousands of sensors throughout the plants and controls the treatment processes by making calculations and adjustments prescribed by operators and process control analysts.

An Automation Master Plan was developed for the sewage treatment plants in 2012. The DCS system will be replaced with a Programmable Logic Controller (PLC) based system and a new HMI system will be installed at all three treatment plants. The replacement of the DCS and HMI systems at the North End and South End Sewage Treatment Plants are part of the major capital upgrade projects at these facilities.

This program will develop a plan to ensure operational reliability throughout the upgrades and in the long term once the upgrades are complete. The major components of this program include: maintaining the DCS and HMI systems until replacement, upgrading the inter-plant communication systems and network security components, and replacement of the West End Sewage Treatment Plant DCS and HMI systems.

The class estimate will be refined to a class 3 prior to undertaking upgrades.

$2,000,000 from 2015 capital budget authorization was returned to Retained Earnings for redistribution and is being budgeted in 2023.

The expected life of the new PLC system is 20 years and the new HMI system is 10 years.

Project Name: **Asset Refurbishment and Replacement Program**

Standing Policy Committee: Water and Waste, Riverbank Management and the Environment

Department: Water and Waste
Project: 2030000519
Service: Wastewater
OurWinnipeg: Environment

AUTHORIZATION	Previous Budgets	2019 Estimate	FORECAST 2020	2021	2022	2023	2024	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	N/A *	6,000	6,000	2,000	2,000	5,000	5,000	20,000	26,000
Financed by:									
Retained Earnings		5,000	6,000	2,000	2,000	5,000	5,000	20,000	25,000
Transfer from Prior Year Authorization		1,000							1,000

CASH FLOW	2019	2020	2021	2022	2023	2024	Beyond 2024	Total
Project Costs ($000's)	6,000	6,000	2,000	2,000	5,000	5,000	-	26,000
Financed by:								
Retained Earnings	5,000	6,000	2,000	2,000	5,000	5,000		25,000
Transfer from Prior Year Authorization	1,000							1,000

NET OPERATING IMPACT ($000's)	2019	2020	2021
Operating costs			
Debt and finance charges			
Transfer to General Capital Fund			
Total Direct Costs	-	-	-
Less: Incremental Revenue/Recovery			
Net Cost/(Benefit)	-	-	-
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: Not applicable, as this is a scalable program

A risk and criticality review of the City's three sewage treatment plants has been undertaken to assess the condition of assets and to develop a refurbishment and replacement plan for the next 25 years. The improvements identified will address process reliability, mechanical, electrical, structural components, building envelope and safety at all three locations including any related works required such as environmental studies/assessments or decommissioning of assets. Operational efficiency improvements will also be identified and implemented in a coordinated fashion with the enhanced maintenance program.

Asset assessment and plan development are ongoing which will continue to address items as identified.

Class estimates for individual projects within this program will be revised to class 3 through preliminary engineering prior to construction.

Funding in 2019 includes $1,000,000 rebudgeted from capital budget authorized in 2015 - see Appendix 4.

The expected life of the structure upgrades is 50 years and the expected life of the electrical and mechanical components is 25 years.

* N/A - No amounts have been included in the "Previous Budgets" due to this project's on-going nature.

Project Name: **West End Sewage Treatment Plant (WEWPCC) - Facilities Plan**

Standing Policy Committee: Water and Waste, Riverbank Management and the Environment

Department: Water and Waste
Project: 2033001121
Service: Wastewater
OurWinnipeg: Environment

AUTHORIZATION	Previous Budgets	2019 Estimate	FORECAST 2020	2021	2022	2023	2024	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	-	-	-	500	-	-	-	500	500
Financed by:									
Retained Earnings				500				500	500

CASH FLOW	2019	2020	2021	2022	2023	2024	Beyond 2024	Total
Project Costs ($000's)	-	-	100	150	250	-	-	500
Financed by:								
Retained Earnings			100	150	250			500

NET OPERATING IMPACT ($000's)	2019	2020	2021
Operating costs			
Debt and finance charges			
Transfer to General Capital Fund			
Total Direct Costs	-	-	-
Less: Incremental Revenue/Recovery			
Net Cost/(Benefit)	-	-	-
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: 3

In 2008, the West End Sewage Treatment Plant was upgraded to meet new nutrient removal regulations. Some assets were not upgraded and are now nearing their end of life.

The plan will assess capacity and expansion options of key process components (e.g. headworks) to meet projected growth in the catchment area and identify ancillary assets for replacement and/or refurbishment. Ancillary assets include process piping, heating and ventilation, mechanical and electrical components. This is done to support process operations and maintain environmental compliance.

Additional funds will be required in future years to implement the recommendations of this plan.

Project Name: **Arc Flash Hazard Analysis and Remediation**

Standing Policy Committee: Water and Waste, Riverbank Management and the Environment

Department: Water and Waste
Project: 2030001819

Service: Wastewater
OurWinnipeg: Environment

AUTHORIZATION	Previous Budgets	2019 Estimate	FORECAST 2020	2021	2022	2023	2024	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	N/A *	879	385	320	270	-	-	975	1,854
Financed by:									
Retained Earnings		879	385	320	270			975	1,854

CASH FLOW	2019	2020	2021	2022	2023	2024	Beyond 2024	Total
Project Costs ($000's)	879	385	320	270	-	-	-	1,854
Financed by:								
Retained Earnings	879	385	320	270				1,854

NET OPERATING IMPACT ($000's)	2019	2020	2021
Operating costs			
Debt and finance charges			
Transfer to General Capital Fund			
Total Direct Costs	-	-	-
Less: Incremental Revenue/Recovery			
Net Cost/(Benefit)	-	-	-
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: 3

As part of the Canadian Standards Association Occupational Health and Safety program, a new standard entitled CSA Z462, Workplace Electrical Safety Standard has been adopted within the new Canadian Electrical Code.

The program will implement the recommendations from the Arc Flash Study on a priority/risk basis in conjunction with other electrical upgrades at the Department's facilities. This work includes decreasing the potential arc flash energy at various distribution points, upgrading equipment to lower fault energies, procuring personal protective equipment and providing training. This is for compliance to the arc flash requirements in the electrical code.

The expected life of this asset is 50 years.

* N/A - No amounts have been included in the "Previous Budgets" due to this project's on-going nature.

Project Name: **Lift Stations Upgrading**

Standing Policy Committee: Water and Waste, Riverbank Management and the Environment

Department: Water and Waste
Project: 2035000119
Service: Wastewater
OurWinnipeg: Environment

AUTHORIZATION	Previous Budgets	2019 Estimate	FORECAST 2020	2021	2022	2023	2024	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	N/A *	2,825	2,925	6,250	6,250	6,250	6,500	28,175	31,000
Financed by:									
Retained Earnings		2,825	2,925	6,250	6,250	6,250	6,500	28,175	31,000

CASH FLOW	2019	2020	2021	2022	2023	2024	Beyond 2024	Total
Project Costs ($000's)	2,825	2,925	6,250	6,250	6,250	6,500	-	31,000
Financed by:								
Retained Earnings	2,825	2,925	6,250	6,250	6,250	6,500		31,000

NET OPERATING IMPACT ($000's)	2019	2020	2021
Operating costs			
Debt and finance charges			
Transfer to General Capital Fund			
Total Direct Costs	-	-	-
Less: Incremental Revenue/Recovery			
Net Cost/(Benefit)	-	-	-
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: Not applicable, as this is a scalable program

This project is part of a continuing program for mitigating hydraulic, structural, safety, odour and aesthetic problems, as well as for undertaking capacity assessments for the 75 lift stations and associated force mains, gate chambers, and related works in the sewage collection system.

The program includes the condition assessment of all lift stations to establish rehabilitation priority and future funding requirements.

Class estimates for individual projects within this program will be revised to class 3 through preliminary engineering prior to construction.

The estimated life of this asset is 50 years.

* N/A - No amounts have been included in the "Previous Budgets" due to this project's on-going nature.

Project Name: **River Crossings Monitoring and Rehabilitation**

Standing Policy Committee: Water and Waste, Riverbank Management and the Environment

Department: Water and Waste
Project: 2037500019
Service: Wastewater
OurWinnipeg: Environment

AUTHORIZATION	Previous Budgets	2019 Estimate	FORECAST 2020	2021	2022	2023	2024	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	N/A*	700	700	1,350	1,700	600	-	4,350	5,050
Financed by:									
Retained Earnings		450	700	1,350	1,700	600		4,350	4,800
Transfer From Prior Year Authorization		250						-	250

CASH FLOW	2019	2020	2021	2022	2023	2024	Beyond 2024	Total
Project Costs ($000's)	700	700	1,350	1,700	600	-	-	5,050
Financed by:								
Retained Earnings	450	700	1,350	1,700	600			4,800
Transfer From Prior Year Authorization	250							250

NET OPERATING IMPACT ($000's)	2019	2020	2021
Operating costs			
Debt and finance charges			
Transfer to General Capital Fund			
Total Direct Costs	-	-	-
Less: Incremental Revenue/Recovery			
Net Cost/(Benefit)	-	-	-
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: 5

This project is for the condition assessment, rehabilitation and/or replacement of the sewer river crossings and for the installation of leak detection equipment on the existing waterway crossings.

The Department has completed a risk assessment of all river crossings in order to determine a prioritization plan for ongoing condition assessment as well as to upgrade and replace any at-risk crossings as required by Environment Licences issued by the Province of Manitoba for the wastewater collection system in the City of Winnipeg.

These funds will also be used to install continuous leak detection monitoring equipment at river crossings as required by the Provincial Environmental Licence.

A class 3 estimate will be obtained prior to construction or inspection work.

Funding in 2019 includes $250,000 rebudgeted from capital budget authorized in 2012 - see Appendix 4.

*N/A - No amounts has been included in the "Previous Budgets" due to this project's on-going nature.

Project Name: **Combined Sewer Overflow and Basement Flood Management Strategy**

Standing Policy Committee: Water and Waste, Riverbank Management and the Environment

Department: Water and Waste
Project: 2038000119

Service: Wastewater
OurWinnipeg: Environment

AUTHORIZATION	Previous Budgets	2019 Estimate	FORECAST 2020	2021	2022	2023	2024	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	N/A *	31,100	32,610	24,110	29,120	27,120	25,130	138,090	169,190
Financed by:									
Environmental Projects Reserve		31,100	32,610	24,110	29,120	27,120	25,130	138,090	169,190

CASH FLOW	2019	2020	2021	2022	2023	2024	Beyond 2024	Total
Project Costs ($000's)	31,100	32,610	24,110	29,120	27,120	25,130	-	169,190
Financed by:								
Environmental Projects Reserve	31,100	32,610	24,110	29,120	27,120	25,130		169,190

NET OPERATING IMPACT ($000's)	2019	2020	2021
Operating costs			
Debt and finance charges			
Transfer to General Capital Fund			
Total Direct Costs	-	-	-
Less: Incremental Revenue/Recovery			
Net Cost/(Benefit)	-	-	-
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: Not applicable, as this is a scalable program

The Combined Sewer Overflow (CSO) and Basement Flood Management Strategy projects will be driven by the Combined Sewer Overflow Master Plan, approved by the Province in 2017, developed to meet the requirements of Environment Act Licence No. 3042. The objectives of this multi-year program are to: comply with the regulators to mitigate the impact of CSO's on the local water courses and protect the public interest, reduce the amount of wet weather flow going to the sewage treatment plants, and reduce the incidences of basement flooding.

On November 24, 2017 Manitoba Sustainable Development directed the City to implement a control option to capture a minimum of 85% CSO volume in a representative year by 2045. The City was also directed to provide a further plan by 2030 to achieve a secondary control target of a maximum of 4 CSOs in a representative year (approximately 98% CSO volume capture), and provide a proposed implementation timeline.

Funds budgeted are for the development and implementation of a CSO Master Plan as well as for sewer relief works associated with basement flooding and CSO mitigation including sewers, chambers, weirs, and other related works. Funds are also budgeted for monitoring and reporting programs and systems, pilot studies, land acquisition, and integration with other major sewer programs.

All projects will be updated to a Class 3 estimate through preliminary and detailed design prior to any construction work.

The expected life of the sewers is 50 years, mechanical components is 25 years and SCADA system is 10 years.

* N/A - No amounts have been included in the "Previous Budgets" due to this project's on-going nature.

Project Name: **Comminutor Chamber Rehabilitation Program**

Standing Policy Committee: Water and Waste, Riverbank Management and the Environment

Department: Water and Waste
Project: 2030003019

Service: Wastewater
OurWinnipeg: Environment

AUTHORIZATION	Previous Budgets	2019 Estimate	FORECAST 2020	2021	2022	2023	2024	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	4,950	1,200	1,300	-	-	-	-	1,300	2,500
Financed by:									
Retained Earnings		1,200	1,300					1,300	2,500

CASH FLOW	2019	2020	2021	2022	2023	2024	Beyond 2024	Total
Project Costs ($000's)	1,200	1,300	-	-	-	-	-	2,500
Financed by:								
Retained Earnings	1,200	1,300						2,500

NET OPERATING IMPACT ($000's)	2019	2020	2021
Operating costs			
Debt and finance charges			
Transfer to General Capital Fund			
Total Direct Costs	-	-	-
Less: Incremental Revenue/Recovery			
Net Cost/(Benefit)	-	-	-
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: 3

This program involves the rehabilitation of 19 sewage pump stations which have decommissioned comminutor chambers associated with them. These stations currently have open concrete flumes located inside the station which sewage flows through. Due to these open flumes, high levels of hydrogen sulfide (H2S) and excessive moisture have caused corrosion damage to electrical equipment, remote terminal unit (RTU) panels, motor control centers (MCC) and the electric motors. Installation of a closed pipe through these open flumes will eliminate or reduce the levels of H2S in the stations and therefore reduce the amount of corrosion to the equipment in these stations and will improve station reliability.

The expected life of this asset is 50 years.

Project Name: **Southwest Interceptor River Crossing**

Standing Policy Committee: Water and Waste, Riverbank Management and the Environment

Department: Water and Waste
Project: 2037001619
Service: Wastewater
OurWinnipeg: Environment

AUTHORIZATION	Previous Budgets	2019 Estimate	FORECAST 2020	2021	2022	2023	2024	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	250	1,100	-	-	-	5,000	35,000	40,000	41,100
Financed by:									
Retained Earnings		1,100				5,000	35,000	40,000	41,100

CASH FLOW	2019	2020	2021	2022	2023	2024	Beyond 2024	Total
Project Costs ($000's)	1,100	-	-	-	5,000	35,000	-	41,100
Financed by:								
Retained Earnings	1,100				5,000	35,000		41,100

NET OPERATING IMPACT ($000's)	2019	2020	2021
Operating costs			
Debt and finance charges			
Transfer to General Capital Fund			
Total Direct Costs	-	-	-
Less: Incremental Revenue/Recovery			
Net Cost/(Benefit)	-	-	-
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: 3 - applies to 2019 only

Currently, all sewage from the land in Winnipeg south of Bishop Grandin Boulevard and west of the Red River plus the communities of Lindenwoods and Whyte Ridge flow to the South End Sewage Treatment Plant (SEWPCC). This flow crosses the Red River between the Fort Garry bridges; at this location the D'Arcy lift station raises the sewage to a sufficient height to allow it to flow by gravity under the Red River.

This crossing represents a single point of failure. If there is a failure of the lift station or the siphon, there is a substantial risk of basement flooding and/or overflows to the Red River. System redundancy is required to convey flows to the treatment plant in the event of a failure of either D'Arcy lift station or the associated siphons. Also, due to the high wet weather flows experienced at the D'Arcy lift station, the additional system capacity will reduce the risk of basement flooding and overflows to the river.

The South West Interceptor Crossing will provide an additional gravity crossing of the Red River. A conceptual study will be undertaken to review options and sizing.

The expected life of this asset is 75 years.

Project Name: **Wastewater Services Facilities Plan**

Standing Policy Committee: Water and Waste, Riverbank Management and the Environment

Department: Water and Waste
Project: 2030003420
Service: Wastewater
OurWinnipeg: Environment

AUTHORIZATION	Previous Budgets	2019 Estimate	FORECAST 2020	2021	2022	2023	2024	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	-	-	350	-	-	-	-	350	350
Financed by:									
Retained Earnings			350					350	350

CASH FLOW	2019	2020	2021	2022	2023	2024	Beyond 2024	Total
Project Costs ($000's)	-	175	175	-	-	-	-	350
Financed by:								
Retained Earnings		175	175					350

NET OPERATING IMPACT ($000's)	2019	2020	2021
Operating costs			
Debt and finance charges			
Transfer to General Capital Fund			
Total Direct Costs	-	-	-
Less: Incremental Revenue/Recovery			
Net Cost/(Benefit)	-	-	-
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: 3

The Wastewater Services Facilities Plan will evaluate options to consolidate or centralize various buildings used by Wastewater Services Division, including mechanical and maintenance shops, storage facilities, and offices. These facilities are currently spread out over multiple sites.

Additional funds will be required in future years to implement the recommendations of this plan.

Project Name: **Environmental Standards Laboratory Facility Plan**

Standing Policy Committee: Water and Waste, Riverbank Management and the Environment

Department: Water and Waste
Project: 2034001022
Service: Wastewater
OurWinnipeg: Environment

AUTHORIZATION	Previous Budgets	2019 Estimate	FORECAST 2020	2021	2022	2023	2024	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	-	-	-	-	500	-	-	500	500
Financed by:									
Retained Earnings					500			500	500

CASH FLOW	2019	2020	2021	2022	2023	2024	Beyond 2024	Total
Project Costs ($000's)	-	-	-	100	400	-	-	500
Financed by:								
Retained Earnings				100	400			500

NET OPERATING IMPACT ($000's)	2019	2020	2021
Operating costs			
Debt and finance charges			
Transfer to General Capital Fund			
Total Direct Costs	-	-	-
Less: Incremental Revenue/Recovery			
Net Cost/(Benefit)	-	-	-
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: 3

Environmental Standards Division operates a Canadian Association for Laboratory Accreditation (CALA) accredited laboratory for testing, monitoring, and compliance reporting on behalf of the Water and Waste Department. To ensure the laboratory can continue to stay up-to-date with CALA accreditation standards, meet future regulatory monitoring and reporting requirements and accommodate the increasing demands of the laboratory's internal clients, a new facility plan is required. The plan will also investigate options to bring additional testing in-house with further accreditation requirements.

Additional funds will be required in future years to implement the recommendations of this plan.

Project Name: **Sewer Renewals**

Standing Policy Committee: Water and Waste, Riverbank Management and the Environment

Department: Water and Waste
Project: 2039100119
Service: Wastewater
OurWinnipeg: Environment

AUTHORIZATION	Previous Budgets	2019 Estimate	FORECAST 2020	2021	2022	2023	2024	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	N/A *	17,500	18,500	19,500	20,000	20,500	21,000	99,500	117,000
Financed by:									
Sewer System Rehabilitation Reserve		17,500	18,500	19,500	20,000	20,500	21,000	99,500	117,000

CASH FLOW	2019	2020	2021	2022	2023	2024	Beyond 2024	Total
Project Costs ($000's)	17,500	18,500	19,500	20,000	20,500	21,000	-	117,000
Financed by:								
Sewer System Rehabilitation Reserve	17,500	18,500	19,500	20,000	20,500	21,000		117,000

NET OPERATING IMPACT ($000's)	2019	2020	2021
Operating costs			
Debt and finance charges			
Transfer to General Capital Fund			
Total Direct Costs	-	-	-
Less: Incremental Revenue/Recovery			
Net Cost/(Benefit)	-	-	-
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: Not applicable, as this is a scalable program

This is a program to replace and/or rehabilitate combined, wastewater, and land drainage sewer infrastructure. A portion of the funding will be used for condition assessment of sewer assets; sewers will be replaced or rehabilitated using appropriate technologies on a risk-based level of service basis. Funds will also be utilized to update the sewer asset register and ongoing operating costs associated with software licensing and maintenance have been included.

Funding will also be utilized for the assessment, repair and/or replacement, under certain conditions, of private wastewater sewer services within the public right-of-way under Section 37 of the Sewer By-Law and for the development of wastewater and land drainage design standards

The expected remaining life of each rehabilitated sewer ranges from 20 to 100 years, depending on the rehabilitation technology and the asset condition. The expected life of the asset register is 10 years.

* N/A - No amounts have been included in the "Previous Budgets" due to this project's on-going nature.

Project Name: **Water and Waste Department (WWD) Business Intelligence**

Standing Policy Committee: Water and Waste, Riverbank Management and the Environment

Department: Water and Waste
Project: 2040001319

Service: Wastewater
OurWinnipeg: Environment

AUTHORIZATION	Previous Budgets	2019 Estimate	FORECAST 2020	2021	2022	2023	2024	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	1,920	600	280	200	-	-	-	480	1,080
Financed by:									
Retained Earnings		600	280	200				480	1,080

CASH FLOW	2019	2020	2021	2022	2023	2024	Beyond 2024	Total
Project Costs ($000's)	600	280	200	-	-	-	-	1,080
Financed by:								
Retained Earnings	600	280	200					1,080

NET OPERATING IMPACT ($000's)	2019	2020	2021
Operating costs		175	180
Debt and finance charges			
Transfer to General Capital Fund			
Total Direct Costs	-	175	180
Less: Incremental Revenue/Recovery			
Net Cost/(Benefit)	-	175	180
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: 3

This project will develop a solution that will improve access to data and information, provide improved analytics, dashboarding, and reporting functionality, provide timely reporting of data, and generate insights to improve decision-making.

The estimated life of this asset is 10 years.

Project Name: **Customer Billing and Work Management Systems Upgrades Program**

Standing Policy Committee: Water and Waste, Riverbank Management and the Environment

Department: Water and Waste
Project: 2040001219

Service: Wastewater
OurWinnipeg: Environment

AUTHORIZATION	Previous Budgets	2019 Estimate	FORECAST 2020	2021	2022	2023	2024	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	N/A *	185	1,565	2,110	430	925	730	5,760	5,945
Financed by:									
Retained Earnings		185	1,565	2,110	430	925	730	5,760	5,945

CASH FLOW	2019	2020	2021	2022	2023	2024	Beyond 2024	Total
Project Costs ($000's)	185	1,565	2,110	430	925	730	-	5,945
Financed by:								
Retained Earnings	185	1,565	2,110	430	925	730		5,945

NET OPERATING IMPACT ($000's)	2019	2020	2021
Operating costs	22	23	24
Debt and finance charges			
Transfer to General Capital Fund			
Total Direct Costs	22	23	24
Less: Incremental Revenue/Recovery			
Net Cost/(Benefit)	22	23	24
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: Not applicable, as this is a scalable program

Customer Care and Billing (CCB) is used to manage customer accounts and collections for Water, Wastewater and Solid Waste services. Oracle Work Order and Asset Management (WAM) is used in the delivery of Water and Wastewater services for work planning, management, infrastructure preventative maintenance and renewal programs. Both CCB and WAM require ongoing product updates to ensure these systems can support the day-to-day operations within WWD.

This program will maintain the Customer Care and Billing and Oracle Work Order and Asset Management systems to meet current and future business requirements resulting from functional, technical, and business continuity changes.

The estimated life of this asset is 10 years.

Funding for this program is split between the Waterworks System Fund and the Sewage Disposal Fund.

*N/A - No amounts has been included in the "Previous Budgets" due to this project's on-going nature.

Project Name: **Digital Customer Solutions**

Standing Policy Committee: Water and Waste, Riverbank Management and the Environment

Department: Water and Waste
Project: 2040002119

Service: Wastewater
OurWinnipeg: Environment

AUTHORIZATION	Previous Budgets	2019 Estimate	FORECAST 2020	2021	2022	2023	2024	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	N/A *	1,600	1,000	1,095	175	160	110	2,540	4,140
Financed by:									
Retained Earnings		1,600	1,000	1,095	175	160	110	2,540	4,140

CASH FLOW	2019	2020	2021	2022	2023	2024	Beyond 2024	Total
Project Costs ($000's)	1,600	1,000	1,095	175	160	110	-	4,140
Financed by:								
Retained Earnings	1,600	1,000	1,095	175	160	110		4,140

NET OPERATING IMPACT ($000's)	2019	2020	2021
Operating costs	25	75	82
Debt and finance charges			
Transfer to General Capital Fund			
Total Direct Costs	25	75	82
Less: Incremental Revenue/Recovery			
Net Cost/(Benefit)	25	75	82
Incremental Full Time Equivalent Positions	0.40	0.40	0.40

Class Estimate: Not applicable, as this is a scalable program

This program will sustain, enhance, and mature the Water and Waste Department's existing digital customer platforms (i.e. MyUtility Bill). It will also develop and implement new digital customer channels that will improve operational performance and customer service.

The estimated life of this asset is 10 years.

*N/A - No amounts has been included in the "Previous Budgets" due to this project's on-going nature.

Project Name: **WWD Document Management System**

Standing Policy Committee: Water and Waste, Riverbank Management and the Environment

Department: Water and Waste
Project: 2040001819
Service: Wastewater
OurWinnipeg: Environment

AUTHORIZATION	Previous Budgets	2019 Estimate	FORECAST 2020	2021	2022	2023	2024	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	350	500	500	150	-	-	-	650	1,150
Financed by:									
Retained Earnings		500	500	150				650	1,150

CASH FLOW	2019	2020	2021	2022	2023	2024	Beyond 2024	Total
Project Costs ($000's)	500	500	150	-	-	-	-	1,150
Financed by:								
Retained Earnings	500	500	150					1,150

NET OPERATING IMPACT ($000's)	2019	2020	2021
Operating costs	131	135	139
Debt and finance charges			
Transfer to General Capital Fund			
Total Direct Costs	131	135	139
Less: Incremental Revenue/Recovery			
Net Cost/(Benefit)	131	135	139
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: 3

The collaboration and document platform provides the ability to upload, store, and retrieve documents in a concise, practical manner using a standard practice for all divisions within the department. This will increase both internal and external stakeholders accessibility to departmental documents. A document management system will also automate the review and approval processes within Water and Waste Department (WWD) resulting in faster turn-around time.

The estimated life of this asset is 10 years.

Project Name: **WWD Learning Management System**

Standing Policy Committee: Water and Waste, Riverbank Management and the Environment

Department: Water and Waste
Project: 2040002020
Service: Wastewater
OurWinnipeg: Environment

AUTHORIZATION	Previous Budgets	2019 Estimate	FORECAST 2020	2021	2022	2023	2024	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	-	-	500	-	-	-	-	500	500
Financed by:									
Retained Earnings			500					500	500

CASH FLOW	2019	2020	2021	2022	2023	2024	Beyond 2024	Total
Project Costs ($000's)	-	350	150	-	-	-	-	500
Financed by:								
Retained Earnings		350	150					500

NET OPERATING IMPACT ($000's)	2019	2020	2021
Operating costs			60
Debt and finance charges			
Transfer to General Capital Fund			
Total Direct Costs	-	-	60
Less: Incremental Revenue/Recovery			
Net Cost/(Benefit)	-	-	60
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: 3

The Learning Management System will be used to schedule, track, and monitor regulatory required training and certification for Water and Waste Department (WWD) employees. The tool will also provide online training capabilities for training coordinators and optimize the training delivery process.

The estimated life of this asset is 10 years.

Project Name: **Brady Road Resource Management Facility - Cell Construction**

Standing Policy Committee: Water and Waste, Riverbank Management and the Environment

Department: Water and Waste
Project: 2062000419

Service: Solid Waste Collection and Disposal
OurWinnipeg: Environment

AUTHORIZATION	Previous Budgets	2019 Estimate	FORECAST 2020	2021	2022	2023	2024	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	N/A*	2,500	700	1,200	750	1,300	500	4,450	6,950
Financed by:									
Retained Earnings		2,500	700	1,200	750	1,300	500	4,450	6,950

CASH FLOW	2019	2020	2021	2022	2023	2024	Beyond 2024	Total
Project Costs ($000's)	2,500	700	1,200	750	1,300	500	-	6,950
Financed by:								
Retained Earnings	2,500	700	1,200	750	1,300	500		6,950

NET OPERATING IMPACT ($000's)	2019	2020	2021
Operating costs			
Debt and finance charges			
Transfer to General Capital Fund			
Total Direct Costs	-	-	-
Less: Incremental Revenue/Recovery			
Net Cost/(Benefit)	-	-	-
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: 2

Solid waste must be disposed of in engineered landfill cells under the conditions of the Environment Act Licence No. 3081 R. As the capacity of existing landfill cells is consumed, new cells and their supporting infrastructure must be designed and constructed. The funding identified provides for design, excavation, liners, leachate collection, associated surface and ground water management, access roads, and associated engineering work.

The expected life of this asset is 50 years.

* N/A - No amounts have been included in the "Previous Budgets" due to this project's on-going nature.

Project Name: **Brady Road Resource Management Facility - Site Improvements**

Standing Policy Committee: Water and Waste, Riverbank Management and the Environment

Department: Water and Waste
Project: 2062000819

Service: Solid Waste Collection and Disposal
OurWinnipeg: Environment

AUTHORIZATION	Previous Budgets	2019 Estimate	FORECAST 2020	2021	2022	2023	2024	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	-	200	200	-	-	-	-	200	400
Financed by:									
Landfill Rehabilitation Reserve		200	200					200	400

CASH FLOW	2019	2020	2021	2022	2023	2024	Beyond 2024	Total
Project Costs ($000's)	200	200	-	-	-	-	-	400
Financed by:								
Landfill Rehabilitation Reserve	200	200						400

NET OPERATING IMPACT ($000's)	2019	2020	2021
Operating costs			
Debt and finance charges			
Transfer to General Capital Fund			
Total Direct Costs	-	-	-
Less: Incremental Revenue/Recovery			
Net Cost/(Benefit)	-	-	-
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: 3

This work is a requirement of the Province of Manitoba Environment Act Licence No. 3081 R.

Licensing requirements identify the need for site improvements such as landscaping or security and communications upgrades to mitigate risk and to facilitate response in case of emergency.

The expected life of this asset is 10 years.

Project Name: **Brady Road Resource Management Facility - Landfill Gas Capture Expansion**

Standing Policy Committee: Water and Waste, Riverbank Management and the Environment

Department: Water and Waste
Project: 2062000222
Service: Solid Waste Collection and Disposal
OurWinnipeg: Environment

AUTHORIZATION	Previous Budgets	2019 Estimate	FORECAST 2020	2021	2022	2023	2024	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	N/A*	-	-	-	2,600	-	-	2,600	2,600
Financed by:									
Landfill Rehabilitation Reserve					2,600			2,600	2,600

CASH FLOW	2019	2020	2021	2022	2023	2024	Beyond 2024	Total
Project Costs ($000's)	-	-	-	2,600	-	-	-	2,600
Financed by:								
Landfill Rehabilitation Reserve				2,600				2,600

NET OPERATING IMPACT ($000's)	2019	2020	2021
Operating costs			
Debt and finance charges			
Transfer to General Capital Fund			
Total Direct Costs	-	-	-
Less: Incremental Revenue/Recovery			
Net Cost/(Benefit)	-	-	-
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: 3

There is an obligation under the Province of Manitoba Environment Act Licence No. 3081 R for the Brady Road Resource Management Facility (BRRMF) to control odours leaving the landfill site. If the gas is not collected, objectionable odours will be experienced by the nearby neighbourhoods from the active filling area. Additionally, flammable gases will be released uncontrolled from the decomposing waste which may pose public health and safety risks. The Climate Change and Emissions Reductions Act requires the City to collect and destroy methane gas generated by the BRRMF, consistent with Provincial directives on greenhouse gas reduction and odour control.

The expected life of this asset is 50 years.

* N/A - No amounts have been included in the "Previous Budgets" due to this project's on-going nature.

Project Name: **Brady Road Resource Management Facility - Alternative Energy Project**

Standing Policy Committee: Water and Waste, Riverbank Management and the Environment

Department: Water and Waste
Project: 2062000920

Service: Solid Waste Collection and Disposal
OurWinnipeg: Environment

AUTHORIZATION	Previous Budgets	2019 Estimate	FORECAST 2020	2021	2022	2023	2024	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	-	-	2,500	-	-	-	-	2,500	2,500
Financed by:									
External Debt			2,500					2,500	2,500

CASH FLOW	2019	2020	2021	2022	2023	2024	Beyond 2024	Total
Project Costs ($000's)	-	2,500	-	-	-	-	-	2,500
Financed by:								
External Debt		2,500						2,500

NET OPERATING IMPACT ($000's)	2019	2020	2021
Operating costs			
Debt and finance charges		105	170
Transfer to General Capital Fund			
Total Direct Costs	-	105	170
Less: Incremental Revenue/Recovery			
Net Cost/(Benefit)	-	105	170
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: 4

Landfill Gas from the Brady Road Resource Management Facility is currently captured and flared as required by the Climate Change and Emissions Reductions Act. Landfill gas is comprised of approximately 50% methane and represents a significant potential energy source that could be harnessed. Landfill gas to energy systems, capturing heat and/or power, are common in landfills throughout North America.

Funds provisioned are for engineering and detailed design. Funding opportunities with external third parties are currently being explored for full implementation.

The estimated life of this asset is 40 years.

Project Name: **Brady Road Resource Management Facility - Onsite Leachate Management**

Standing Policy Committee: Water and Waste, Riverbank Management and the Environment

Department: Water and Waste
Project: 2062001019

Service: Solid Waste Collection and Disposal
OurWinnipeg: Environment

AUTHORIZATION	Previous Budgets	2019 Estimate	FORECAST 2020	2021	2022	2023	2024	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	-	450	-	-	-	-	-	-	450
Financed by:									
Landfill Rehabilitation Reserve		450						-	450

CASH FLOW	2019	2020	2021	2022	2023	2024	Beyond 2024	Total
Project Costs ($000's)	450	-	-	-	-	-	-	450
Financed by:								
Landfill Rehabilitation Reserve	450							450

NET OPERATING IMPACT ($000's)	2019	2020	2021
Operating costs			
Debt and finance charges			
Transfer to General Capital Fund			
Total Direct Costs	-	-	-
Less: Incremental Revenue/Recovery			
Net Cost/(Benefit)	-	-	-
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: 4

This is a pilot project that will evaluate the feasibility of an onsite leachate management process at the Brady Road Resource Management Facility. The process will reuse and manage leachate onsite. If successful and fully implemented, this process could significantly reduce long-term operating costs associated with current hauling and treatment methods by enabling land application of leachate.

Preliminary scoping will update project to a class 3 prior to implementation.

The estimated life of this asset is 50 years.

Project Name: **Closed Landfill Site Improvement**

Standing Policy Committee: Water and Waste, Riverbank Management and the Environment

Department: Water and Waste
Project: 2060000619

Service: Solid Waste Collection and Disposal
OurWinnipeg: Environment

AUTHORIZATION	Previous Budgets	2019 Estimate	FORECAST 2020	2021	2022	2023	2024	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	N/A*	225	220	285	200	200	200	1,105	1,330
Financed by:									
Landfill Rehabilitation Reserve		225	220	285	200	200	200	1,105	1,330

CASH FLOW	2019	2020	2021	2022	2023	2024	Beyond 2024	Total
Project Costs ($000's)	225	220	285	200	200	200	-	1,330
Financed by:								
Landfill Rehabilitation Reserve	225	220	285	200	200	200		1,330

NET OPERATING IMPACT ($000's)	2019	2020	2021
Operating costs	58	59	60
Debt and finance charges			
Transfer to General Capital Fund			
Total Direct Costs	58	59	60
Less: Incremental Revenue/Recovery			
Net Cost/(Benefit)	58	59	60
Incremental Full Time Equivalent Positions	1.00	1.00	1.00

Class Estimate: Not applicable, as this is a scalable program

The Closed Landfill Site Improvement program was initiated in 2016 as a response to the Landfill Disposition Study to improve and upgrade closed landfill components, including the protective cap, leachate and landfill gas collection systems, and monitoring equipment. Once complete, the study and site assessments will prioritize projects and enable the City to develop an annual risk-based program to maximize use of future funding.

Costs include preliminary design/detailed design, engineering and construction.

The expected life of this asset is 50 years.

* N/A - No amounts have been included in the "Previous Budgets" due to this project's on-going nature.

Project Name: **Comprehensive Integrated Waste Management Strategy (CIWMS) - Materials Recovery Facility Education Centre**

Standing Policy Committee: Water and Waste, Riverbank Management and the Environment

Department: Water and Waste
Project: 2065001219
Service: Recycling and Waste Diversion
OurWinnipeg: Environment

AUTHORIZATION	Previous Budgets	2019 Estimate	FORECAST 2020	2021	2022	2023	2024	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	99	250	-	-	-	-	-	-	250
Financed by:									
Transfer from Prior Year Authorization - External Debt		250						-	250

CASH FLOW	2019	2020	2021	2022	2023	2024	Beyond 2024	Total
Project Costs ($000's)	250	-	-	-	-	-	-	250
Financed by:								
Transfer from Prior Year Authorization - External Debt	250							250

NET OPERATING IMPACT ($000's)	2019	2020	2021
Operating costs			
Debt and finance charges	10	15	15
Transfer to General Capital Fund			
Total Direct Costs	10	15	15
Less: Incremental Revenue/Recovery			
Net Cost/(Benefit)	10	15	15
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: 3

This project will develop an interactive experience for visitors to promote and educate them about recycling programs including how the City's sorting system operates with an aim to reduce recycling contamination. It will also provide tools for our staff for the continuous improvement of our waste diversion programs.

Funding in 2019 includes $250,000 re-budgeted from capital budget authorized in 2015 - see appendix 4.

The expected life of this asset is 10 years.

Project Name: **Collection Management System**

Standing Policy Committee: Water and Waste, Riverbank Management and the Environment

Department: Water and Waste
Project: 2064000320

Service: Solid Waste Collection and Disposal
OurWinnipeg: Environment

AUTHORIZATION	Previous Budgets	2019 Estimate	FORECAST 2020	2021	2022	2023	2024	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	700	-	250	-	-	-	-	250	250
Financed by:									
Waste Diversion Reserve			250					250	250

CASH FLOW	2019	2020	2021	2022	2023	2024	Beyond 2024	Total
Project Costs ($000's)	-	250	-	-	-	-	-	250
Financed by:								
Waste Diversion Reserve		250						250

NET OPERATING IMPACT ($000's)	2019	2020	2021
Operating costs	19	19	20
Debt and finance charges			
Transfer to General Capital Fund			
Total Direct Costs	19	19	20
Less: Incremental Revenue/Recovery			
Net Cost/(Benefit)	19	19	20
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: 3

This project will provide an integrated collection management information system that will manage cart inventory and delivery, billing and payment processing, vendor and contract management, customer service inquiries and operational and compliance reporting capabilities. The scope of this project will include building new system functionalities within the in-house developed Collections Management System (CMS), integrating CMS with garbage and recycling contractor's application systems as well as with other internal City systems, and developing tools to generate compliance, operational and financial reports and dashboards.

The expected life of this asset is 10 years.

Project Name: **Comprehensive Integrated Waste Management Strategy (CIWMS) - Review**

Standing Policy Committee: Water and Waste, Riverbank Management and the Environment

Department: Water and Waste
Project: 2060000723

Service: Recycling and Waste Diversion
OurWinnipeg: Environment

AUTHORIZATION	Previous Budgets	2019 Estimate	FORECAST 2020	2021	2022	2023	2024	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	-	-	-	-	-	450	-	450	450
Financed by:									
Waste Diversion Reserve						450		450	450

CASH FLOW	2019	2020	2021	2022	2023	2024	Beyond 2024	Total
Project Costs ($000's)	-	-	-	-	450	-	-	450
Financed by:								
Waste Diversion Reserve					450			450

NET OPERATING IMPACT ($000's)	2019	2020	2021
Operating costs			
Debt and finance charges			
Transfer to General Capital Fund			
Total Direct Costs	-	-	-
Less: Incremental Revenue/Recovery			
Net Cost/(Benefit)	-	-	-
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: 4

On October 19, 2011 Council adopted the Comprehensive Integrated Waste Management Strategy for implementation starting in 2012. The strategy includes a recommendation for Solid Waste Services to undertake a review, analysis and development of a roadmap of the City's solid waste systems every 5 years. The next review will take place in 2023.

Project Name: **Flood Pumping Station Rehabilitation**

Standing Policy Committee: Water and Waste, Riverbank Management and the Environment

Department: Water and Waste
Project: 2076500119

Service: Land Drainage and Flood Control
OurWinnipeg: Environment

AUTHORIZATION	Previous Budgets	2019 Estimate	FORECAST 2020	2021	2022	2023	2024	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	N/A*	1,000	1,000	1,000	1,000	1,000	1,500	5,500	6,500
Financed by:									
Transfer from Sewage Disposal System Fund		129	1,000	1,000	1,000	1,000	1,500	5,500	5,629
Transfer from Prior Year Authorization		871						-	871

CASH FLOW	2019	2020	2021	2022	2023	2024	Beyond 2024	Total
Project Costs ($000's)	1,000	1,000	1,000	1,000	1,000	1,500	-	6,500
Financed by:								
Transfer from Sewage Disposal System Fund	129	1,000	1,000	1,000	1,000	1,500		5,629
Transfer from Prior Year Authorization	871							871

NET OPERATING IMPACT ($000's)	2019	2020	2021
Operating costs			
Debt and finance charges			
Transfer to General Capital Fund			
Total Direct Costs	-	-	-
Less: Incremental Revenue/Recovery			
Net Cost/(Benefit)	-	-	-
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: Not applicable, as this is a scalable program

A 2007 report on the adequacy and operation of the City's regional flood pumping stations identified station upgrades required in the near and long term. These upgrades improve overall station reliability during high river levels and rainfall events and may include changes to ventilation, electrical, mechanical, structural, or architectural components of the stations and associated structures, chambers, weirs, outfall pipes and gates. A program to address high priority reliability items has been developed for implementation. All stations will be upgraded for remote monitoring which is critical during flood and rainfall events.

Funding in 2019 includes $871,000 re-budgeted from capital budget authorized in 2015 - see appendix 4.

The expected life of this asset is 50 years.

* N/A - No amounts have been included in the "Previous Budgets" due to this project's on-going nature.

Project Name: **Land Drainage Sewers - Regional / Local Streets**

Standing Policy Committee: Water and Waste, Riverbank Management and the Environment

Department: Water and Waste
Project: 2082000219

Service: Land Drainage and Flood Control
OurWinnipeg: Environment

AUTHORIZATION	Previous Budgets	2019 Estimate	FORECAST 2020	2021	2022	2023	2024	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	N/A *	1,000	100	100	100	100	100	500	1,500
Financed by:									
Transfer from Sewage Disposal System Fund		1,000	100	100	100	100	100	500	1,500

CASH FLOW	2019	2020	2021	2022	2023	2024	Beyond 2024	Total
Project Costs ($000's)	1,000	100	100	100	100	100	-	1,500
Financed by:								
Transfer from Sewage Disposal System Fund	1,000	100	100	100	100	100		1,500

NET OPERATING IMPACT ($000's)	2019	2020	2021
Operating costs			
Debt and finance charges			
Transfer to General Capital Fund			
Total Direct Costs	-	-	-
Less: Incremental Revenue/Recovery			
Net Cost/(Benefit)	-	-	-
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: 3

Land drainage sewers and catch basins required for Local Improvement projects and other miscellaneous drainage improvements.

* N/A - No amounts have been included in the "Previous Budgets" due to this project's on-going nature.

Project Name: **Land Drainage and Combined Sewers Outfall Gate Structures**

Standing Policy Committee: Water and Waste, Riverbank Management and the Environment

Department: Water and Waste
Project: 2078500219
Service: Land Drainage and Flood Control
OurWinnipeg: Environment

AUTHORIZATION	Previous Budgets	2019 Estimate	FORECAST 2020	2021	2022	2023	2024	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	N/A*	1,870	2,180	-	-	-	-	2,180	4,050
Financed by:									
Transfer from Sewage Disposal System Fund		1,870	2,180					2,180	4,050

CASH FLOW	2019	2020	2021	2022	2023	2024	Beyond 2024	Total
Project Costs ($000's)	1,870	2,180	-	-	-	-	-	4,050
Financed by:								
Transfer from Sewage Disposal System Fund	1,870	2,180						4,050

NET OPERATING IMPACT ($000's)	2019	2020	2021
Operating costs			
Debt and finance charges			
Transfer to General Capital Fund			
Total Direct Costs	-	-	-
Less: Incremental Revenue/Recovery			
Net Cost/(Benefit)	-	-	-
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: Not applicable, as this is a scalable program

All land drainage gate chambers have been upgraded to a protection level of James 24.5 ft. The current focus is to upgrade the City's storm relief sewer (SRS) gate chambers to provide improved dewatering in combined sewer districts during summer rainstorms. The older SRS systems are only isolated from the river with sluice gates. An engineering study has been undertaken to develop conceptual designs and cost estimates for adding flap gates and permanent pumping as required for some of the identified sites and will be undertaken for remaining sites in future years.

Funds are also provisioned for the rehabilitation of sewer flap gates and associated structures to ensure that all systems are adequately protected from river water intrusion.

The expected life of this asset is 50 years.

* N/A - No amounts have been included in the "Previous Budgets" due to this project's on-going nature.

Project Name: **Stormwater Retention Basin Revetments**

Standing Policy Committee: Water and Waste, Riverbank Management and the Environment

Department: Water and Waste
Project: 2075000120
Service: Land Drainage and Flood Control
OurWinnipeg: Environment

AUTHORIZATION	Previous Budgets	2019 Estimate	FORECAST 2020	2021	2022	2023	2024	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	N/A*	-	430	-	470	-	-	900	900
Financed by:									
Transfer from Sewage Disposal System Fund			430		470			900	900

CASH FLOW	2019	2020	2021	2022	2023	2024	Beyond 2024	Total
Project Costs ($000's)	-	430	-	470	-	-	-	900
Financed by:								
Transfer from Sewage Disposal System Fund		430		470				900

NET OPERATING IMPACT ($000's)	2019	2020	2021
Operating costs			
Debt and finance charges			
Transfer to General Capital Fund			
Total Direct Costs	-	-	-
Less: Incremental Revenue/Recovery			
Net Cost/(Benefit)	-	-	-
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: 4

There are over 90 stormwater retention basins (SRBs) that the City maintains as part of the land drainage system. The revetment replacement program is utilized to replace aging and deteriorated shoreline revetments along the public shorelines of the City's SRB lake system. Revetments comprised of crushed granular material are constructed along SRB shorelines primarily as structural components to control or absorb the incoming energy and protect against erosion from wind/wave action on the lakes. The revetments prevent further damage during periods of flooding or heavy rains and also help to protect and stabilize the surrounding sloped grassed areas leading up to the SRBs.

A class 3 estimate will be obtained prior to construction.

The expected life of this asset is 15 years.

* N/A - No amounts have been included in the "Previous Budgets" due to this project's on-going nature.

Project Name: **Land Drainage Utility**

Standing Policy Committee: Water and Waste, Riverbank Management and the Environment

Department: Water and Waste
Project: 2070001524

Service: Land Drainage and Flood Control
OurWinnipeg: Environment

AUTHORIZATION	Previous Budgets	2019 Estimate	FORECAST 2020	2021	2022	2023	2024	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	-	-	-	-	-	-	400	400	400
Financed by:									
Transfer from Sewage Disposal System Fund							400	400	400

CASH FLOW	2019	2020	2021	2022	2023	2024	Beyond 2024	Total
Project Costs ($000's)	-	-	-	-	-	400	-	400
Financed by:								
Transfer from Sewage Disposal System Fund						400		400

NET OPERATING IMPACT ($000's)	2019	2020	2021
Operating costs			
Debt and finance charges			
Transfer to General Capital Fund			
Total Direct Costs	-	-	-
Less: Incremental Revenue/Recovery			
Net Cost/(Benefit)	-	-	-
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: 5

Funding is required to study the feasibility of implementing a new Land Drainage Utility and implementation of a separate land drainage rate. A separate land drainage rate is necessary to eliminate subsidized funding from the sewer rate payers and support cost of service (COS) principles, which promote equity in cost for the benefit received (users pay for what they use).

Project Name: **Lot 16 Drain Slope Stabilization Works**

Standing Policy Committee: Water and Waste, Riverbank Management and the Environment

Department: Water and Waste
Project: 2070002719

Service: Land Drainage and Flood Control
OurWinnipeg: Environment

AUTHORIZATION	Previous Budgets	2019 Estimate	FORECAST 2020	2021	2022	2023	2024	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	-	1,175	-	-	-	-	-	-	1,175
Financed by:									
Transfer from Sewage Disposal System Fund		1,175						-	1,175

CASH FLOW	2019	2020	2021	2022	2023	2024	Beyond 2024	Total
Project Costs ($000's)	1,175	-	-	-	-	-	-	1,175
Financed by:								
Transfer from Sewage Disposal System Fund	1,175							1,175

NET OPERATING IMPACT ($000's)	2019	2020	2021
Operating costs			
Debt and finance charges			
Transfer to General Capital Fund			
Total Direct Costs	-	-	-
Less: Incremental Revenue/Recovery			
Net Cost/(Benefit)	-	-	-
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: 5

Currently, surface runoff from the lands in south west Winnipeg and the R.M. of MacDonald flow into the Lot 16 Drain. This drain is an open ditch arrangement, immediately North of Bishop Grandin Boulevard and west of the Kenaston interchange, which flows east to the Red River near the Bishop Grandin bridge.

During the Fall of 2017, slope stability concerns were identified by staff within the Water And Waste Department. A conceptual study will be undertaken in 2019 to investigate the potential causes of the slope stability issues which have been observed and present recommendations, with a class 3 estimate, to address the issue in 2020.

The expected life of this asset is 100 years.

Project Name: **St. Boniface Hospital Primary Line of Defence (PLD) Slope Stability Analysis and Stabilization Works**

Standing Policy Committee: Water and Waste, Riverbank Management and the Environment

Department: Water and Waste
Project: 20700028119
Service: Land Drainage and Flood Control
OurWinnipeg: Environment

AUTHORIZATION	Previous Budgets	2019 Estimate	FORECAST 2020	2021	2022	2023	2024	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	-	150	-	-	-	-	-	-	150
Financed by:									
Transfer from Sewage Disposal System Fund		150						-	150

CASH FLOW	2019	2020	2021	2022	2023	2024	Beyond 2024	Total
Project Costs ($000's)	150	-	-	-	-	-	-	150
Financed by:								
Transfer from Sewage Disposal System Fund	150							150

NET OPERATING IMPACT ($000's)	2019	2020	2021
Operating costs			
Debt and finance charges			
Transfer to General Capital Fund			
Total Direct Costs	-	-	-
Less: Incremental Revenue/Recovery			
Net Cost/(Benefit)	-	-	-
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: 3

The primary line of defence (PLD) dike system provides flood protection to properties in the City of Winnipeg. This PLD is maintained by City of Winnipeg staff to ensure it provides a continuous level of protection against floods.

Slope stability concerns have been identified for the portion of the PLD protecting the St. Boniface Hospital. These slope stability issues may affect the adjacent roadways used by St. Boniface staff but will not reduce the level of flood protection to the St. Boniface Hospital. A conceptual study will be undertaken in 2019 to investigate the slope stability concerns and make recommendations and provide a class 3 estimate to address the issue in 2020.

The expected life of this asset is 100 years.

Project Name: **Outfall Rehabilitation**

Standing Policy Committee: Water and Waste, Riverbank Management and the Environment

Department: Water and Waste
Project: 2078000119

Service: Land Drainage and Flood Control
OurWinnipeg: Environment

AUTHORIZATION	Previous Budgets	2019 Estimate	FORECAST 2020	2021	2022	2023	2024	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	N/A*	2,000	2,000	2,000	3,500	3,500	3,500	14,500	16,500
Financed by:									
Transfer from Sewage Disposal System Fund		2,000	2,000	2,000	3,500	3,500	3,500	14,500	16,500

CASH FLOW	2019	2020	2021	2022	2023	2024	Beyond 2024	Total
Project Costs ($000's)	2,000	2,000	2,000	3,500	3,500	3,500	-	16,500
Financed by:								
Transfer from Sewage Disposal System Fund	2,000	2,000	2,000	3,500	3,500	3,500		16,500

NET OPERATING IMPACT ($000's)	2019	2020	2021
Operating costs			
Debt and finance charges			
Transfer to General Capital Fund			
Total Direct Costs	-	-	-
Less: Incremental Revenue/Recovery			
Net Cost/(Benefit)	-	-	-
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: Not applicable, as this is a scalable program

An Outfall Condition Assessment began in 2016 and is nearly complete. This assessment prioritizes Winnipeg's outfall sites that require renewal/rehabilitation, identifies potential renewal/rehabilitation techniques for each outfall and provides high level cost estimates for this work. The City will program and undertake risk-based work on a yearly basis to maximize use of funding for the rehabilitation of sewer outfalls, repairs to piping and related appurtenances, and to improve riverbank stability issues.

The expected life of this asset is 50 years.

* N/A - No amounts have been included in the "Previous Budgets" due to this project's on-going nature.

Project Name: **Development Agreement Paybacks**

Standing Policy Committee: Water and Waste, Riverbank Management and the Environment

Department: Water and Waste
Project: 2077000121

Service: Land Drainage and Flood Control
OurWinnipeg: Environment

AUTHORIZATION	Previous Budgets	2019 Estimate	FORECAST 2020	2021	2022	2023	2024	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	N/A*	-	-	500	700	1,000	1,700	3,900	3,900
Financed by:									
Developer Capacity Charges				500	700	1,000	1,700	3,900	3,900

CASH FLOW	2019	2020	2021	2022	2023	2024	Beyond 2024	Total
Project Costs ($000's)	-	-	500	700	1,000	1,700	-	3,900
Financed by:								
Developer Capacity Charges			500	700	1,000	1,700		3,900

NET OPERATING IMPACT ($000's)	2019	2020	2021
Operating costs			
Debt and finance charges			
Transfer to General Capital Fund			
Total Direct Costs	-	-	-
Less: Incremental Revenue/Recovery			
Net Cost/(Benefit)	-	-	-
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: Not applicable, as this is a scalable program

The provision for development agreement payback is an allowance for the City to repay developers who bridge finance the installation of oversized land drainage services at a time when City capital funding is not provided. The policy guideline for bridge financing was defined in the previous version of the Development Agreement Parameters and was again incorporated in the most recent version of the Parameters which was adopted by Council on July 17, 2002.

Paybacks will be managed based on available funds in the Developer Capacity Charges account.

The expected life of this asset is over 50 years.

* N/A - No amounts have been included in the "Previous Budgets" due to this project's on-going nature.

Project Name: **Shop Tools & Equipment Upgrades**

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Standing Policy Committee: Innovation

Department: Fleet Management Agency (SOA)

Service: Fleet Management Agency (SOA)

Project: 8310000119

OurWinnipeg: Prosperity

AUTHORIZATION	Previous Budgets	2019 Estimate	FORECAST 2020	2021	2022	2023	2024	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	N/A*	627	701	664	664	664	664	3,357	3,984
Financed by:									
Accumulated Surplus (Retained Earnings)		627	701	664	664	664	664	3,357	3,984

CASH FLOW	2019	2020	2021	2022	2023	2024	Beyond 2024	Total
Project Costs ($000's)	627	701	664	664	664	664		3,984
Financed by:								
Accumulated Surplus (Retained Earnings)	627	701	664	664	664	664		3,984

NET OPERATING IMPACT (000's)	2019	2020	2021
Operating costs			
Debt and finance charges			
Transfer to General Capital Fund			
Total Direct Costs	-	-	-
Less: Incremental Revenue/Recovery			
Net Cost/(Benefit)	-	-	-
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: Not applicable, as this is a scalable program

This program is for purchase of various shop equipment. This includes safety upgrades, overhead cranes, hoists, oil system upgrades, rolling jacks, diagnostic equipment, hydraulic hose machines and various welding machines.

* N/A - No amounts have been included in the "Previous Budgets" due to this project's on-going nature.

Project Name: **Power Tools**

Standing Policy Committee: Innovation

Department: Fleet Management Agency (SOA)

Service: Fleet Management Agency (SOA)

Project: 8310000219

OurWinnipeg: Prosperity

AUTHORIZATION	Previous Budgets	2019 Estimate	FORECAST 2020	2021	2022	2023	2024	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	N/A*	150	150	150	150	150	150	750	900
Financed by:									
Accumulated Surplus (Retained Earnings)		150	150	150	150	150	150	750	900

CASH FLOW	2019	2020	2021	2022	2023	2024	Beyond 2024	Total
Project Costs ($000's)	150	150	150	150	150	150	-	900
Financed by:								
Accumulated Surplus (Retained Earnings)	150	150	150	150	150	150		900

NET OPERATING IMPACT (000's)	2019	2020	2021
Operating costs			
Debt and finance charges			
Transfer to General Capital Fund			
Total Direct Costs	-	-	-
Less: Incremental Revenue/Recovery			
Net Cost/(Benefit)	-	-	-
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: Not applicable, as this is a scalable program

This program is for the purchase of Power Tools required to support services provided by Public Works and other City departments.

* N/A - No amounts have been included in the "Previous Budgets" due to this project's on-going nature.

Project Name: **Fuel Site Upgrades and Improvements**

Standing Policy Committee: Innovation

Department: Fleet Management Agency (SOA)

Service: Fleet Management Agency (SOA)

Project: 8310000319

OurWinnipeg: Prosperity

AUTHORIZATION	Previous Budgets	2019 Estimate	FORECAST 2020	2021	2022	2023	2024	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	N/A*	200	410	305	305	305	305	1,630	1,830
Financed by:									
Accumulated Surplus (Retained Earinings)		200	410	305	305	305	305	1,630	1,830

CASH FLOW	2019	2020	2021	2022	2023	2024	Beyond 2024	Total
Project Costs ($000's)	200	410	305	305	305	305	-	1,830
Financed by:								
Accumulated Surplus (Retained Earinings)	200	410	305	305	305	305		1,830

NET OPERATING IMPACT (000's)	2019	2020	2021
Operating costs			
Debt and finance charges			
Transfer to General Capital Fund			
Total Direct Costs	-	-	-
Less: Incremental Revenue/Recovery			
Net Cost/(Benefit)	-	-	-
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: Not applicable, as this is a scalable program

The Agency offers three types of fuel at below market prices - unleaded gasoline, clear diesel and marked diesel available at five fully automated 24/7 locations strategically located throughout the city. Fuel is managed using a charge-back system based on fuel consumption for each individual fleet vehicle. This program funds capital improvement expenditures to infrastructure at Winnipeg Fleet Management Agency fuel sites.

* N/A - No amounts have been included in the "Previous Budgets" due to this project's on-going nature.

Project Name: **Fleet Asset Acquisitions**

Standing Policy Committee: Innovation

Department: 8330000119 Service: Fleet Management Agency (SOA)
Project: OurWinnipeg: Prosperity

AUTHORIZATION	Previous Budgets	2019 Estimate	FORECAST 2020	2021	2022	2023	2024	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	N/A*	22,336	15,178	15,670	15,670	15,670	15,670	77,858	100,194
Financed by:									
Debt - Fleet Borrowing		22,336	15,178	15,670	15,670	15,670	15,670	77,858	100,194

CASH FLOW	2019	2020	2021	2022	2023	2024	Beyond 2024	Total
Project Costs ($000's)	22,500	15,362	15,670	15,670	15,670	15,322		100,194
Financed by:								
Debt - Fleet Borrowing	22,500	15,362	15,670	15,670	15,670	15,322	-	100,194

NET OPERATING IMPACT (000's)	2019	2020	2021
Operating costs			
Debt and finance charges	306	772	1,114
Transfer to General Capital Fund			
Total Direct Costs	306	772	1,114
Less: Incremental Revenue/Recovery			
Net Cost/(Benefit)	306	772	1,114
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: 3 - applies to 2019 only

This program funds fleet asset acquisitions, which are based on the Agency's 2019 to 2021 fleet replacement plan, and are subject to future revision due to Agency and City department decisions, and vendor availability. Fleet acquisitions in 2019 are estimated by fleet category as follows (in thousands of dollars):

Agricultural equipment	$135
Attachments	$1,433
Cargo vans	$377
Industrial equipment	$4,534
Light duty trucks	$3,617
Medium duty trucks	$3,113
Passenger vans	$187
Sedans	$1,699
Specialty and fire equipment	$6,488
Sport utility vehicles	$753
Total	$22,336

* N/A - No amounts have been included in the "Previous Budgets" due to this project's on-going nature.

As part of the 2018 business plan, Fleet Asset Acquisitions budget was $21.224 million.

Project Name: **Golf Course Amenities**

Standing Policy Committee: Innovation

Department: Planning, Property and Development
Service: Golf Services SOA

Project: 639XXXXX20
OurWinnipeg: Recreation

AUTHORIZATION	Previous Budgets	2019 Estimate	FORECAST 2020	2021	2022	2023	2024	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	-	-	1,000	-	-	-	-	1,000	1,000
Financed by:									
Cash to Capital			1,000					1,000	1,000

CASH FLOW	2019	2020	2021	2022	2023	2024	Beyond 2024	Total
Project Costs ($000's)	-	1,000	-	-	-	-	-	1,000
Financed by:								
Cash to Capital		1,000					-	1,000

NET OPERATING IMPACT ($000's)	2019	2020	2021
Operating costs			
Debt and finance charges			
Transfer to General Capital Fund		1,000	
Total Direct Costs	-	1,000	-
Less: Incremental Revenue/Recovery		33	
Net Cost/(Benefit)	-	967	-
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: Not applicable, as this is a scalable program

Prior capital forecast allocated $1 million in 2019 for public consultations and possible amenities, such as tennis courts or soccer facilities at the Canoe Club Golf Course site due to the lease expiry in April 2019. The previous years' capital detail sheet also stated that, should the lease for the current 9-hole course be renewed, the funding may be returned to other area parks projects. The lease on the Canoe Club Golf Course has now been extended for three years due to ongoing debate about changes to the course layout. In order to better consider the future of the Canoe Club site in the context of a multi-year budget, the funding set aside for on site improvements in 2019 has been deferred to 2020. The plans developed in 2018 for shortening the Canoe Club Golf Course's sixth and seventh holes in order to create a soccer pitch are estimated to cost no more than $600,000; therefore, the balance of funds will be used for other area recreational projects, such as:

-Norberry-Glenlee Community Centre universal play structure

-Windsor Community Centre hockey boards and garage repair

-Memorial Park fencing

-Shirley Render Park pathways

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Project Name: **Automated License Plate Recognition (ALPR) Program**

Standing Policy Committee: Innovation

Department: Winnipeg Parking Authority

Service: Parking Authority (SOA)

Project: 84XXXXXX19

OurWinnipeg: Prosperity

AUTHORIZATION	Previous Budgets	2019 Estimate	FORECAST 2020	2021	2022	2023	2024	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	N/A *	121	178	126	172	137	238	851	972
Financed by:									
Accumulated Surplus (Retained Earnings)		121	178	126	172	137	238	851	972

CASH FLOW	2019	2020	2021	2022	2023	2024	Beyond 2024	Total
Project Costs ($000's)	121	178	126	172	137	238	-	972
Financed by:								
Accumulated Surplus (Retained Earnings)	121	178	126	172	137	238		972

NET OPERATING IMPACT (000's)	2019	2020	2021
Operating costs	5	11	16
Debt and finance charges			
Transfer to General Capital Fund			
Total Direct Costs	5	11	16
Less: Incremental Revenue/Recovery	5	11	16
Net Cost/(Benefit)	-	-	-
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: 3 - applies to 2019 only

This program supports the delivery of on-street and off-street enforcement of parking related by-laws as well as enforcement related to the Vehicle For Hire by-law by investing in technologies that allow for effective enforcement practices and increased compliance with by-laws. Capital funding is used to both replace ALPR units, additional net new inventory and necessary information technology infrastructure such as laptops.

Planned investments for 2019 include:

Two net new Automated License Plate Recognition units for improved school zone, fire lane and surface lot enforcement.

* N/A - No amounts have been included in the "Previous Budgets" due to this project's on-going nature.

Appendix

2019 Preliminary Capital Budget and 2020 to 2024 Five-Year Forecast

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CAPITAL PROJECTS SUMMARY *SERVICE BASED VIEW* *(in Thousands of $)*	DETAIL PAGE NO.	PRELIMINARY CAPITAL BUDGET 2019	FORECAST 2020	2021	2022	2023	2024	6 YEAR TOTAL
INFRASTRUCTURE RENEWAL AND PUBLIC WORKS								
Roadway Construction and Maintenance		107,681	138,864	163,894	183,036	167,136	166,936	927,547
Transportation Planning and Traffic Management		4,050	4,211	3,297	2,100	2,700	2,700	19,058
Public Transit		39,771	34,293	38,271	37,952	40,397	41,943	232,627
City Beautification		665	400	400	400	400	453	2,718
Total Infrastructure Renewal and Public Works		152,167	177,768	205,862	223,488	210,633	212,032	1,181,950
WATER AND WASTE, RIVERBANK MANAGEMENT AND THE ENVIRONMENT								
Water		25,000	36,930	35,320	32,430	28,045	29,035	186,760
Wastewater		64,189	66,615	57,585	61,795	67,555	93,470	411,209
Land Drainage and Flood Control		7,900	6,437	4,335	6,270	5,600	7,734	38,276
Solid Waste Disposal		3,375	3,870	1,485	3,550	1,500	700	14,480
Recycling and Waste Diversion		250				450		700
Total Water and Waste, Riverbank Management and the Environment		100,714	113,852	98,725	104,045	103,150	130,939	651,425
PROPERTY AND DEVELOPMENT, HERITAGE AND DOWNTOWN DEVELOPMENT								
Neighbourhood Revitalization		2,386	2,227	2,263	2,300	2,338	2,376	13,890
Heritage Conservation		214	217	220	424	229	221	1,525
Cemeteries		940	1,048	936	386	242	240	3,792
Property Asset Management - Tax Supported		133	119	143	256		299	950
Property Asset Management - Municipal Accommodations		14,379	3,649	3,840	2,049	2,941	4,857	31,715
Total Property and Development, Heritage and Downtown Development		18,052	7,260	7,402	5,415	5,750	7,993	51,872
PROTECTION, COMMUNITY SERVICES AND PARKS / WINNIPEG POLICE BOARD								
Police Response		4,558	2,966	5,540	6,616	2,789	3,075	25,544
Fire and Rescue Response		14,672	10,189	2,826	2,906	1,489	1,531	33,613
Medical Response		1,413	5,759	1,065	3,449	1,042	1,193	13,921
Recreation		17,099	9,987	23,275	9,984	8,352	9,186	77,883
Parks and Urban Forestry		8,945	9,408	12,308	8,561	10,817	7,692	57,731
Libraries		4,907	430	5,626	4,016	3,418	975	19,372
Arts, Entertainment and Culture		9,851	2,500	2,500	2,500	2,500	2,500	22,351
Total Protection, Community Services and Parks / Winnipeg Police Board		61,445	41,239	53,140	38,032	30,407	26,152	250,415
INNOVATION								
Fleet Management Agency (SOA)		23,313	16,439	16,789	16,789	16,789	16,789	106,908
Golf Services (SOA)			1,000					1,000
Parking Authority (SOA)		121	178	126	172	137	238	972
Total Innovation		23,434	17,617	16,915	16,961	16,926	17,027	108,880
EXECUTIVE POLICY								
Organizational Support Services		11,353	11,874	9,717	9,194	8,173	7,900	58,211
Assessment, Taxation and Corporate		350	200	350	350		250	1,500
Council Services				200	1,200	150		1,550
Total Executive Policy		11,703	12,074	10,267	10,744	8,323	8,150	61,261
TOTAL CAPITAL PROGRAM		367,515	369,810	392,311	398,685	375,189	402,293	2,305,803

CAPITAL PROJECTS SUMMARY *SERVICE BASED VIEW* *(in Thousands of $)*	DETAIL PAGE NO.	PRELIMINARY CAPITAL BUDGET 2019	FORECAST 2020	2021	2022	2023	2024	6 YEAR TOTAL
CAPITAL PROJECTS LISTING								
INFRASTRUCTURE RENEWAL AND PUBLIC WORKS								
Roadway Construction and Maintenance								
Public Works								
Pedestrian and Cycling Program	2-1	**3,024**	**1,815**	**150**	**3,000**	**2,700**	**2,700**	**13,389**
Developer Payback - Various Locations	2-6		**16,113**					**16,113**
Tuxedo Yards Development - First charge against the 2019 Capital Budget of up to $1.25 million (Council March 22, 2018)	2-7	**3,741**						**3,741**
Inner-Ring Road - Functional Design	2-13						**1,000**	**1,000**
Marion Street Improvements - Functional Design Study	2-14	**917**						**917**
Regional and Local Street Renewal - First charge against the 2019 Capital Budget of up to: $2.5 million for Empress St - St. Matthews to Portage (Council December 12, 2017); $7.6 million for Fermor Ave - St. Anne's to Archibald (Council December 12, 2017); $4.8 million for Garry/Notre Dame - Notre Dame to Assiniboine/Portage to Princess (Council December 12, 2017); $8.86 million for Industrial/Commercial Streets projects (Council March 22, 2018)	2-15	**86,436**	**111,622**	**154,136**	**164,536**	**147,236**	**137,836**	**801,802**
Fermor Avenue Bridge (Seine River) - First charge against the 2019 Capital Budget of up to $5.1 million (Council December 12, 2017)	2-22	**4,600**						**4,600**
Osborne Street Underpass	2-23						**1,100**	**1,100**
Dublin Avenue Bridge (Omand's Creek)	2-24	**700**	**3,300**					**4,000**
Sherwin Road Bridge (Omand's Creek)	2-25	**700**	**1,400**	**1,400**				**3,500**
Pembina Highway Overpass (Bishop Grandin) Rehabilitation	2-26		**950**	**2,000**	**8,000**	**7,700**		**18,650**
Kenaston/Route 90 Widening and St. James Bridges (formerly St. James Bridge South Bound)	2-27	**2,163**						**2,163**
St. Vital Bridge Rehabilitation	2-28				**2,000**	**3,000**	**16,800**	**21,800**
Lagimodiere Twin Overpasses Rehabilitation (Concordia Avenue & CPR Keewatin)	2-29					**1,000**	**2,000**	**3,000**
Waterway Crossing and Grade Separations - Annual Program	2-30	**3,000**	**1,964**	**4,108**	**3,000**	**3,000**	**3,000**	**18,072**
Work Management / Asset Management Systems Study	2-36	**300**						**300**
Asset Management System - Various Divisions	2-37	**100**	**100**	**100**	**100**	**100**	**100**	**600**
Assessment and Taxation								
Local Improvements - Ongoing Program	2-165	**2,000**	**1,600**	**2,000**	**2,400**	**2,400**	**2,400**	**12,800**
Total Roadway Construction and Maintenance		**107,681**	**138,864**	**163,894**	**183,036**	**167,136**	**166,936**	**927,547**

CAPITAL PROJECTS SUMMARY *SERVICE BASED VIEW* *(in Thousands of $)*	DETAIL PAGE NO.	PRELIMINARY CAPITAL BUDGET 2019	FORECAST 2020	2021	2022	2023	2024	6 YEAR TOTAL
Transportation Planning and Traffic Management								
Public Works								
Transportation Master Plan	2-8	**250**	**875**	**125**	**250**	**250**	**250**	**2,000**
Traffic Signals Improvements	2-9	**1,030**	**688**	**342**				**2,060**
Traffic Signals Loops	2-10	**250**	**125**	**250**	**250**	**250**	**250**	**1,375**
Permanent Traffic Monitoring Stations	2-11	**945**	**623**					**1,568**
Traffic Engineering Improvements - Various Locations	2-12	**1,575**	**950**	**1,900**	**1,300**	**1,900**	**1,900**	**9,525**
Land Acquisition - Transportation Right of Way	2-38		**950**	**680**	**300**	**300**	**300**	**2,530**
Total Transportation Planning and Traffic Management		**4,050**	**4,211**	**3,297**	**2,100**	**2,700**	**2,700**	**19,058**
Public Transit								
Transit								
Innovative Transit Program	2-166	**700**	**325**	**700**	**325**	**325**	**325**	**2,700**
Transit Building Replacement / Refurbishment	2-167		**636**	**1,636**	**1,049**	**1,636**	**1,000**	**5,957**
Transit Building Roof Replacement and Ventilation Upgrade - First charge against the 2019 Capital Budget of up to $1.75 million (Council July 19, 2018)	2-168	**2,335**	**2,132**	**2,000**	**1,400**	**2,000**	**2,000**	**11,867**
Garage Improvements - Phase 2 - First charge against the 2019 Capital Budget of up to $1.5 million (Council July 19, 2018)	2-170	**1,500**						**1,500**
Transit Buses	2-171	**22,209**	**29,700**	**27,596**	**31,978**	**33,236**	**35,918**	**180,637**
Transit Safety Management Practices	2-176	**165**						**165**
Accessibility Program (formerly Bus Stop Accessibility Program)	2-177	**500**	**500**	**500**	**500**	**500**	**500**	**3,000**
Bus Communication Modernization	2-178	**1,140**						**1,140**
Heavy Shop Equipment Replacement Program - First charge against the 2019 Capital Budget of up to $1.805 million (Council July 19, 2018)	2-179	**1,805**		**200**	**200**	**200**	**200**	**2,605**
Hoist Replacement at Fort Rouge Garage - First charge against the 2019 Capital Budget of up to $1.4 million (Council July 19, 2018)	2-180	**1,400**	**1,000**	**2,500**	**2,500**	**2,500**	**2,000**	**11,900**
Rapid Overhead Doors at Washrack - First charge against the 2019 Capital Budget of up to $600,000 (Council July 19, 2018)	2-181	**600**						**600**
Administration and Control Centre Radio Replacement	2-182	**1,000**						**1,000**
Land Acquisition	2-183	**1,000**		**3,000**				**4,000**
Bus Operator Compartment Safety Shields	2-184	**3,150**						**3,150**
Electric Bus Study	2-185	**1,000**						**1,000**
Heated Bus Shelters	2-186	**1,031**						**1,031**
Low Income Bus Pass	2-187	**236**		**139**				**375**
Total Public Transit		**39,771**	**34,293**	**38,271**	**37,952**	**40,397**	**41,943**	**232,627**
City Beautification								
Planning, Property and Development								
Downtown Enhancement Program	2-112	**333**	**200**	**200**	**200**	**200**	**227**	**1,360**
BIZ Zones, Image Routes and Neighbourhood Main Streets	2-114	**332**	**200**	**200**	**200**	**200**	**226**	**1,358**
Total City Beautification		**665**	**400**	**400**	**400**	**400**	**453**	**2,718**
TOTAL INFRASTRUCTURE RENEWAL AND PUBLIC WORKS		**152,167**	**177,768**	**205,862**	**223,488**	**210,633**	**212,032**	**1,181,950**

CAPITAL PROJECTS SUMMARY *SERVICE BASED VIEW* *(in Thousands of $)*	DETAIL PAGE NO.	PRELIMINARY CAPITAL BUDGET 2019	FORECAST 2020	FORECAST 2021	FORECAST 2022	FORECAST 2023	FORECAST 2024	6 YEAR TOTAL
WATER AND WASTE, RIVERBANK MANAGEMENT AND THE ENVIRONMENT								
Water								
Water and Waste - Waterworks System								
Shoal Lake Aqueduct Asset Preservation	2-188			**1,840**	**2,000**	**1,465**		**5,305**
Shoal Lake Aqueduct Intake Facility Rehabilitation	2-189				**7,400**	**150**	**3,055**	**10,605**
Aqueduct Condition Assessment and Rehabilitation	2-190			**1,000**		**1,000**		**2,000**
Tache Booster Pumping Station	2-191	**785**		**1,000**	**1,220**	**645**		**3,650**
Pumping Stations and Reservoirs Structural Upgrades	2-192		**800**					**800**
Chlorination Upgrading at Pumping Stations	2-193			**3,575**				**3,575**
Water Supervisory Control and Data Acquisition (SCADA) Upgrade	2-194	**4,125**						**4,125**
Waterworks System Security Upgrades	2-195		**500**					**500**
Regulatory Assessment of Water System Infrastructure and Supply	2-196			**575**				**575**
Deacon Reservoir Cell Rehabilitation	2-197				**100**			**100**
Deacon Booster Pumping Station Suction Header Divider Wall and Valve	2-198		**1,245**					**1,245**
HVAC Upgrades at Pumping Stations	2-199		**4,090**					**4,090**
Ultraviolet Light Disinfection System Upgrade	2-200		**855**					**855**
Discharge Meter Upgrades at the In-town Pumping Stations	2-201	**150**		**3,950**				**4,100**
Water Treatment Plant Asset Refurbishment and Replacement	2-202	**575**	**4,650**				**2,000**	**7,225**
Water Conservation and Efficiency Study	2-203	**155**						**155**
Feeder Main Condition Assessment and Rehabilitation	2-204	**350**	**3,550**	**1,000**	**1,100**	**1,100**	**1,150**	**8,250**
Building Renovations - 1199 Pacific Avenue	2-205					**2,100**	**2,100**	**4,200**
Water Meter Replacement Program	2-206		**450**					**450**
Public Water Outlets	2-207	**475**						**475**
Water Main Renewals	2-208	**16,500**	**18,000**	**19,000**	**19,500**	**20,000**	**20,000**	**113,000**
Customer Billing and Work Management Systems Upgrades Program	2-209	**185**	**1,565**	**2,110**	**430**	**925**	**730**	**5,945**
Customer Care and Billing - iNovah Integration	2-210	**130**						**130**
Automated Remittance Processing	2-211	**400**						**400**
Application and Data Integration	2-212		**250**	**610**				**860**
Digital Enablement for Plant and Field Employees	2-213	**530**	**850**	**660**	**680**	**660**		**3,380**
Information Technology Cybersecurity Review	2-214	**340**						**340**
GIS Enhancements	2-215	**300**						**300**
Information Technology Enterprise Architecture	2-216		**125**					**125**
Total Water		**25,000**	**36,930**	**35,320**	**32,430**	**28,045**	**29,035**	**186,760**

CAPITAL PROJECTS SUMMARY	**DETAIL**	**PRELIMINARY CAPITAL**						
SERVICE BASED VIEW	**PAGE**	**BUDGET**	**FORECAST**					**6 YEAR**
(in Thousands of $)	**NO.**	**2019**	**2020**	**2021**	**2022**	**2023**	**2024**	**TOTAL**
Wastewater								
Water and Waste - Sewage Disposal								
SEWPCC Second Stage Dewatering	2-217				**1,000**			**1,000**
Sludge Drying Beds Decommissioning	2-218				**350**			**350**
Process Control System Master Plan and Upgrade	2-219					**2,000**		**2,000**
Asset Refurbishment and Replacement Program	2-220	**6,000**	**6,000**	**2,000**	**2,000**	**5,000**	**5,000**	**26,000**
West End Sewage Treatment Plant (WEWPCC) - Facilities Plan	2-221			**500**				**500**
Arc Flash Hazard Analysis and Remediation	2-222	**879**	**385**	**320**	**270**			**1,854**
Lift Stations Upgrading	2-223	**2,825**	**2,925**	**6,250**	**6,250**	**6,250**	**6,500**	**31,000**
River Crossings Monitoring and Rehabilitation	2-224	**700**	**700**	**1,350**	**1,700**	**600**		**5,050**
Combined Sewer Overflow and Basement Flood Management Strategy	2-225	**31,100**	**32,610**	**24,110**	**29,120**	**27,120**	**25,130**	**169,190**
Comminutor Chamber Rehabilitation Program	2-226	**1,200**	**1,300**					**2,500**
Southwest Interceptor River Crossing	2-227	**1,100**				**5,000**	**35,000**	**41,100**
Wastewater Services Facilities Plan	2-228		**350**					**350**
Environmental Standards Laboratory Facility Plan	2-229				**500**			**500**
Sewer Renewals	2-230	**17,500**	**18,500**	**19,500**	**20,000**	**20,500**	**21,000**	**117,000**
Water and Waste Department (WWD) Business Intelligence	2-231	**600**	**280**	**200**				**1,080**
Customer Billing and Work Management Systems Upgrades Program	2-232	**185**	**1,565**	**2,110**	**430**	**925**	**730**	**5,945**
Digital Customer Solutions	2-233	**1,600**	**1,000**	**1,095**	**175**	**160**	**110**	**4,140**
WWD Document Management System	2-234	**500**	**500**	**150**				**1,150**
WWD Learning Management System	2-235		**500**					**500**
Total Wastewater		**64,189**	**66,615**	**57,585**	**61,795**	**67,555**	**93,470**	**411,209**
Land Drainage and Flood Control								
Planning, Property and Development								
Riverbank Greenway Programs	2-110	**205**	**227**	**212**			**129**	**773**
Riverbank Stabilization - Physical Asset Protection	2-118	**500**	**500**	**523**	**500**		**405**	**2,428**
Water and Waste - Land Drainage Utility								
Flood Pumping Station Rehabilitation	2-245	**1,000**	**1,000**	**1,000**	**1,000**	**1,000**	**1,500**	**6,500**
Land Drainage Sewers - Regional / Local Streets	2-246	**1,000**	**100**	**100**	**100**	**100**	**100**	**1,500**
Land Drainage and Combined Sewers Outfall Gate Structures	2-247	**1,870**	**2,180**					**4,050**
Stormwater Retention Basin Revetments	2-248		**430**		**470**			**900**
Land Drainage Utility	2-249						**400**	**400**
Lot 16 Drain Slope Stabilization Works	2-250	**1,175**						**1,175**
St. Boniface Hospital Primary Line of Defence (PLD) Slope Stability	2-251	**150**						**150**
Outfall Rehabilitation	2-252	**2,000**	**2,000**	**2,000**	**3,500**	**3,500**	**3,500**	**16,500**
Development Agreement Paybacks	2-253			**500**	**700**	**1,000**	**1,700**	**3,900**
Total Land Drainage and Flood Control		**7,900**	**6,437**	**4,335**	**6,270**	**5,600**	**7,734**	**38,276**

CAPITAL PROJECTS SUMMARY *SERVICE BASED VIEW* *(in Thousands of $)*	DETAIL PAGE NO.	PRELIMINARY CAPITAL BUDGET 2019	FORECAST 2020	2021	2022	2023	2024	6 YEAR TOTAL
Solid Waste Collection and Disposal								
Water and Waste - Solid Waste								
Brady Road Resource Management Facility - Cell Construction	2-236	**2,500**	**700**	**1,200**	**750**	**1,300**	**500**	**6,950**
Brady Road Resource Management Facility - Site Improvements	2-237	**200**	**200**					**400**
Brady Road Resource Management Facility - Landfill Gas Capture Expansion	2-238				**2,600**			**2,600**
Brady Road Resource Management Facility - Alternative Energy Project	2-239		**2,500**					**2,500**
Brady Road Resource Management Facility - Onsite Leachate	2-240	**450**						**450**
Closed Landfill Site Improvement	2-241	**225**	**220**	**285**	**200**	**200**	**200**	**1,330**
Collection Management System	2-243		**250**					**250**
Total Solid Waste Disposal		**3,375**	**3,870**	**1,485**	**3,550**	**1,500**	**700**	**14,480**
Recycling and Waste Diversion								
Water and Waste - Solid Waste								
Comprehensive Integrated Waste Management Strategy (CIWMS) - Materials Recovery Facility Education Centre	2-242	**250**						**250**
Comprehensive Integrated Waste Management Strategy (CIWMS) - Review	2-244					**450**		**450**
Total Recycling and Waste Diversion		**250**				**450**		**700**
TOTAL WATER AND WASTE, RIVERBANK MANAGEMENT AND THE ENVIRONMENT		**100,714**	**113,852**	**98,725**	**104,045**	**103,150**	**130,939**	**651,425**
PROPERTY AND DEVELOPMENT, HERITAGE AND DOWNTOWN DEVELOPMENT								
Neighbourhood Revitalization								
Community Services								
Community Incentive Grant Program (CIGP)	2-71	**1,961**	**1,802**	**1,838**	**1,875**	**1,913**	**1,951**	**11,340**
Municipal Accommodations								
City-Wide Accessibility Program	2-137	**425**	**425**	**425**	**425**	**425**	**425**	**2,550**
Total Neighbourhood Revitalization		**2,386**	**2,227**	**2,263**	**2,300**	**2,338**	**2,376**	**13,890**
Heritage Conservation								
Municipal Accommodations								
Historic Buildings	2-127	**214**	**217**	**220**	**224**	**229**	**221**	**1,325**
City Clerks								
Corporate Records Centre	2-140				**200**			**200**
Total Heritage Conservation		**214**	**217**	**220**	**424**	**229**	**221**	**1,525**

CAPITAL PROJECTS SUMMARY *SERVICE BASED VIEW* *(in Thousands of $)*	DETAIL PAGE NO.	PRELIMINARY CAPITAL BUDGET 2019	FORECAST 2020	2021	2022	2023	2024	6 YEAR TOTAL
Cemeteries								
Planning, Property and Development								
Cemeteries - Improvements	2-111	**940**	**1,048**	**936**	**386**	**242**	**240**	**3,792**
Total Cemeteries		**940**	**1,048**	**936**	**386**	**242**	**240**	**3,792**
Property Asset Management - Tax Supported								
Planning, Property and Development								
Computer Automation	2-109	**133**	**119**	**143**			**100**	**495**
Land Acquisition for General Unspecified Purposes	2-116				**256**		**199**	**455**
Total Property Asset Management - Tax Supported		**133**	**119**	**143**	**256**		**299**	**950**
Property Asset Management - Municipal Accommodations								
Municipal Accommodations								
General Building Renovation and Refurbishing	2-120	**180**	**250**	**500**			**310**	**1,240**
Public Safety Building and Civic Centre Parkade	2-121	**10,460**						**10,460**
Accommodation Facilities	2-122	**2,019**	**1,700**	**1,775**	**978**	**1,844**	**2,929**	**11,245**
Millennium Library - HVAC and Temperature Control Improvements	2-123		**750**					**750**
Fire / Life Safety / Regulatory Upgrades	2-124	**804**	**608**	**704**	**720**	**722**	**712**	**4,270**
Energy Conservation	2-125	**158**		**136**			**147**	**441**
Tenant Improvement Prepayment - Major Department	2-126			**183**			**183**	**366**
Generator Set Replacement and Upgrades	2-128	**113**	**136**	**123**	**148**	**130**	**130**	**780**
Security / Building Automation System Initiatives	2-129	**470**	**205**	**255**	**203**	**245**	**276**	**1,654**
Building Asset / Work Management Program	2-135	**175**		**164**			**170**	**509**
Total Property Asset Management - Municipal Accommodations		**14,379**	**3,649**	**3,840**	**2,049**	**2,941**	**4,857**	**31,715**
TOTAL PROPERTY AND DEVELOPMENT, HERITAGE AND DOWNTOWN DEVELOPMENT		**18,052**	**7,260**	**7,402**	**5,415**	**5,750**	**7,993**	**51,872**

CAPITAL PROJECTS SUMMARY *SERVICE BASED VIEW* *(in Thousands of $)*	DETAIL PAGE NO.	PRELIMINARY CAPITAL BUDGET 2019	FORECAST 2020	2021	2022	2023	2024	6 YEAR TOTAL
PROTECTION, COMMUNITY SERVICES AND PARKS / WINNIPEG POLICE BOARD								
Police Response								
Winnipeg Police Service								
Major Case Management System	2-77	**1,158**						**1,158**
Police Divisions Systems Upgrades	2-78	**400**						**400**
Technology Upgrades - Information Systems	2-79	**1,200**					**1,200**	**2,400**
In Car Computing	2-80	**1,000**	**500**					**1,500**
North Station Information Technology Requirements	2-81	**300**		**190**				**490**
North District Station Furniture, Fixtures, and Equipment	2-82			**700**				**700**
Evidence Archival Building Tenant Improvement	2-83	**500**	**500**					**1,000**
Evidence Archive Racking System	2-84		**841**					**841**
Computer Assisted Dispatch Upgrade	2-85		**325**			**375**		**700**
Next Generation 911	2-86		**800**	**1,000**				**1,800**
Automated Fingerprint Identification System (AFIS)	2-87			**500**				**500**
Schedule and Management System Upgrade	2-88			**500**				**500**
Police Headquarters Information System Upgrades	2-89			**2,100**				**2,100**
Communication Centre Back Up Site Upgrade	2-99			**550**				**550**
Flight Operations Overhaul	2-91				**602**			**602**
Building Video Surveillance Systems	2-92				**3,056**			**3,056**
Call Answer Software	2-93				**1,000**			**1,000**
Flight Operations - Forward Looking Infra-Red (FLIR) Equipment	2-94				**658**			**658**
Technical Surveillance Systems	2-95				**1,300**			**1,300**
Body Worn Cameras	2-96					**1,014**		**1,014**
Communication Sites Upgrade - Audio Loggers	2-97					**1,400**		**1,400**
Communication Sites - Radio Consoles/Batteries	2-98						**575**	**575**
E-ticketing Hardware	2-99						**300**	**300**
Back Up Centre Renovations	2-100						**1,000**	**1,000**
Total Police Response		**4,558**	**2,966**	**5,540**	**6,616**	**2,789**	**3,075**	**25,544**
Fire and Rescue Response								
Fire Paramedic Service								
Facilities Optimization	2-101		**7,501**					**7,501**
Station Capital Maintenance	2-104	**3,447**	**2,688**	**2,826**	**2,906**	**1,489**	**1,531**	**14,887**
Computer Aided Dispatch (CAD) and Supporting Software Systems	2-107	**11,225**						**11,225**
Total Fire and Rescue Response		**14,672**	**10,189**	**2,826**	**2,906**	**1,489**	**1,531**	**33,613**

CAPITAL PROJECTS SUMMARY *SERVICE BASED VIEW* *(in Thousands of $)*	DETAIL PAGE NO.	PRELIMINARY CAPITAL BUDGET 2019	FORECAST 2020	2021	2022	2023	2024	6 YEAR TOTAL
Medical Response								
Fire Paramedic Service								
Equipment Obsolescence	2-102	**1,413**	**5,651**	**1,065**	**3,449**	**1,042**	**1,193**	**13,813**
Emergency Medical Services (EMS) Training Equipment	2-106		**108**					**108**
Total Medical Response		**1,413**	**5,759**	**1,065**	**3,449**	**1,042**	**1,193**	**13,921**
Recreation								
Community Services								
Recreational Facility Safety, Security and Accessibility Improvements Program	2-56	**175**	**172**	**230**	**186**	**158**	**279**	**1,200**
Fitness Equipment Upgrade Program	2-57	**248**	**280**	**285**	**292**	**297**	**303**	**1,705**
Recreation and Leisure Infrastructure Renewal (formerly Recreation Refurbishment and Redevelopment Program - Existing Infrastructure)	2-58	**100**		**2,131**			**4,700**	**6,931**
New Community Facility - Southeast Winnipeg	2-59		**100**					**100**
New Recreation Facility - South Winnipeg - First charge against the 2019 Capital Budget of up to $1.75 million (Council December 12, 2017)	2-60	**1,750**	**251**	**700**	**5,323**	**3,763**		**11,787**
Grant Park Recreation Campus - First charge against the 2019 Capital Budget of up to $200,000 for the Grant Park Recreation Campus (Council July 19, 2018)	2-62	**1,750**						**1,750**
St. James Civic Centre - Facility Renewal and Expansion - First charge against the 2019 Capital Budget of up to $2.405 million (Council December 12, 2017)	2-63	**2,405**	**3,700**	**7,800**				**13,905**
Seven Oaks Pool - Concrete Restoration and Air Handling Unit Replacement - First charge against the 2019 Capital Budget of up to $2.239 million (Council December 12, 2017)	2-64	**2,239**						**2,239**
Pan Am Pool - Ceiling, Lighting and Public Address and Audio System - First charge against the 2019 Capital Budget of up to $2.6 million (Council December 12, 2017)	2-65	**2,600**						**2,600**
Repair and Renovation of Pan Am Pool Universal Change Rooms	2-66			**937**				**937**
Norwood Pool - Decommissioning	2-67	**150**						**150**
Boni-Vital Pool	2-68	**192**		**5,359**				**5,551**
Technology Advancement Program	2-69	**312**		**325**			**345**	**982**
Community Centre Renovation Grant Program (CCRGP)	2-70	**2,000**	**2,000**	**2,000**	**2,000**	**2,000**	**965**	**10,965**
St. James Community Recreation Amenities	2-75		**1,400**					**1,400**
Municipal Accommodations								
Community Centres - Refurbishing and Improvements	2-130	**673**	**266**	**331**	**327**	**330**	**385**	**2,312**
Arenas	2-131	**525**	**233**	**267**	**268**	**269**	**312**	**1,874**
Indoor Aquatic Facilities	2-132	**1,605**	**1,208**	**2,359**	**1,207**	**1,152**	**1,484**	**9,015**
Outdoor Aquatic Facilities	2-133	**169**	**170**	**342**	**170**	**170**	**204**	**1,225**
Recreation & Leisure Centres	2-134	**106**	**107**	**109**	**111**	**113**	**109**	**655**
UFF - Hockey Pen Light Standard Replacement	2-136	**100**	**100**	**100**	**100**	**100**	**100**	**600**
Total Recreation		**17,099**	**9,987**	**23,275**	**9,984**	**8,352**	**9,186**	**77,883**

CAPITAL PROJECTS SUMMARY *SERVICE BASED VIEW* *(in Thousands of $)*	DETAIL PAGE NO.	PRELIMINARY CAPITAL BUDGET 2019	FORECAST 2020	2021	2022	2023	2024	6 YEAR TOTAL
Parks and Urban Forestry								
Public Works								
Reforestation - Improvements	2-39	**383**	**383**	**383**	**192**	**192**	**192**	**1,725**
Athletic Fields - Improvements	2-40	**350**	**192**	**350**	**175**	**175**	**175**	**1,417**
Community and Neighbourhood Parks - Existing - First charge against the 2019 Capital Budget of up to $170,000 for the St. Vital Memorial Park Soccer Pitch Lighting project (Council March 22, 2018)	2-41	**170**						**170**
Regional Parks	2-42			**1,175**		**2,825**		**4,000**
Parks Buildings	2-43	**350**	**1,000**	**3,020**	**123**	**525**		**5,018**
Boat Docks and Launches	2-44		**100**		**690**			**790**
Parks and Recreation Enhancement Program - First charge against the 2019 Capital Budget of up to $70,000 for the St. John's Park Lighting Project (Council July 19, 2018)	2-45	**3,300**	**3,300**	**3,300**	**3,300**	**3,300**	**3,300**	**19,800**
Urban Forest Enhancement Program	2-47	**4,100**	**4,159**	**3,800**	**3,800**	**3,800**	**3,800**	**23,459**
Planning, Property and Development								
Developer Payback	2-117	**292**	**274**	**280**	**281**		**225**	**1,352**
Total Parks and Urban Forestry		**8,945**	**9,408**	**12,308**	**8,561**	**10,817**	**7,692**	**57,731**
Libraries								
Community Services								
Library Facility Safety, Security and Accessibility Improvements Program	2-48	**162**	**165**	**219**	**171**		**200**	**917**
Library Refurbishment & Interior Infrastructure Program (formerly two separate programs; Library Interior Infrastructure Replacement Program & Library Refurbishment and Redevelopment Program - Existing Infrastructure)	2-49	**483**		**564**		**176**	**475**	**1,698**
Library Technology Upgrade and Replacement Program	2-50	**350**	**265**	**356**	**277**	**154**	**300**	**1,702**
Library Facility Redevelopment - Bill and Helen Norrie Library (formerly Library Facility Redevelopment - River Heights Library) - First charge against the 2019 Capital Budget of up to $3.57 million (Council December 12, 2017)	2-51	**3,570**						**3,570**
Library Facility Redevelopment - St. James Library	2-52	**100**		**3,404**				**3,504**
Library Facility Redevelopment - West Kildonan Library and GoLibrary - Old Kildonan Community (formerly Library Facility Redevelopment - West Kildonan Library)	2-54	**242**		**937**	**2,774**			**3,953**
Library Facility Redevelopment - Westwood Library	2-55			**146**	**794**	**3,088**		**4,028**
New Library Facility - South Winnipeg Library								
Total Libraries		**4,907**	**430**	**5,626**	**4,016**	**3,418**	**975**	**19,372**

CAPITAL PROJECTS SUMMARY *SERVICE BASED VIEW* *(in Thousands of $)*	DETAIL PAGE NO.	PRELIMINARY CAPITAL BUDGET 2019	FORECAST 2020	2021	2022	2023	2024	6 YEAR TOTAL
Arts, Entertainment and Culture								
Community Services								
Assiniboine Park Conservancy (APC) - Infrastructure and Sustainability	2-72	**5,123**	**2,000**	**2,000**	**2,000**	**2,000**	**2,000**	**15,123**
Assiniboine Park Conservancy (APC) - Capital Development Plan	2-73	**4,728**						**4,728**
Planning, Property and Development								
Public Art Strategy	2-115		**500**	**500**	**500**	**500**	**500**	**2,500**
Total Arts, Entertainment and Culture		**9,851**	**2,500**	**2,500**	**2,500**	**2,500**	**2,500**	**22,351**
TOTAL PROTECTION, COMMUNITY SERVICES AND PARKS / WINNIPEG POLICE BOARD		**61,445**	**41,239**	**53,140**	**38,032**	**30,407**	**26,152**	**250,415**
INNOVATION								
Fleet Management Agency (SOA)								
Winnipeg Fleet Management Agency								
Shop Tools & Equipment Upgrades	2-254	**627**	**701**	**664**	**664**	**664**	**664**	**3,984**
Power Tools	2-255	**150**	**150**	**150**	**150**	**150**	**150**	**900**
Fuel Site Upgrades and Improvements	2-256	**200**	**410**	**305**	**305**	**305**	**305**	**1,830**
Fleet Asset Acquisitions	2-257	**22,336**	**15,178**	**15,670**	**15,670**	**15,670**	**15,670**	**100,194**
Total Fleet Management Agency (SOA)		**23,313**	**16,439**	**16,789**	**16,789**	**16,789**	**16,789**	**106,908**
Golf Services (SOA)								
Winnipeg Golf Services								
Golf Course Amenities	2-258		**1,000**					**1,000**
Total Golf Services (SOA)			**1,000**					**1,000**
Parking Authority (SOA)								
Winnipeg Parking Authority								
Automated License Plate Recognition (ALPR) Program	2-259	**121**	**178**	**126**	**172**	**137**	**238**	**972**
Total Parking Authority (SOA)		**121**	**178**	**126**	**172**	**137**	**238**	**972**
TOTAL INNOVATION		**23,434**	**17,617**	**16,915**	**16,961**	**16,926**	**17,027**	**108,880**

CAPITAL PROJECTS SUMMARY *SERVICE BASED VIEW* *(in Thousands of $)*	DETAIL PAGE NO.	PRELIMINARY CAPITAL BUDGET 2019	FORECAST 2020	2021	2022	2023	2024	6 YEAR TOTAL
EXECUTIVE POLICY								
Organizational Support Services								
Innovation and Information Technology								
Innovation Strategy	2-144	**1,000**	**2,000**	**2,000**	**2,000**	**2,000**	**2,000**	**11,000**
Smart Cities Innovation Program	2-146	**1,000**	**2,000**	**2,000**	**2,000**	**2,000**	**2,000**	**11,000**
Communications Network Infrastructure	2-147	**298**	**317**	**158**	**1,151**	**784**	**386**	**3,094**
Enterprise Computing Initiatives	2-148	**1,026**	**1,600**	**2,718**	**1,391**	**1,034**	**1,002**	**8,771**
PeopleSoft Enhancements (formerly PeopleSoft Upgrade)	2-149	**892**	**854**	**823**	**887**	**857**	**922**	**5,235**
Geographic Information System Aerial Image Renewal Program (formerly Aerial Imagery Renewal Program)	2-150		**159**		**188**		**188**	**535**
Communications Systems Branch Facilities	2-151	**174**						**174**
Information Security Initiatives	2-152	**365**	**308**	**306**	**309**	**318**	**325**	**1,931**
E-Mail Archiving	2-153	**484**						**484**
Enterprise Content Management	2-154	**1,102**	**303**	**105**				**1,510**
Microsoft Office License Evergreen	2-155	**1,375**	**817**	**208**	**330**	**184**	**71**	**2,985**
Printing Graphics & Mail Services Asset Renewal (formerly Print Asset Renewal)	2-156			**350**				**350**
Microsoft Development Network Software Renewal (formerly Software Renewal Program)	2-157	**247**			**271**			**518**
Disaster Recovery Gap Mitigation Phase 1	2-158	**954**						**954**
Tait Radio Replacement	2-159	**1,902**	**1,157**	**342**				**3,401**
Corporate VoIP Phone System	2-160		**188**					**188**
Enterprise Business Intelligence Expansion	2-161		**1,274**					**1,274**
Intake Program	2-162	**534**	**547**	**557**	**567**	**546**	**556**	**3,307**
Customer Service and Communications								
311 Renewal	2-163		**350**	**150**	**100**	**450**	**450**	**1,500**
Total Organizational Support Services		**11,353**	**11,874**	**9,717**	**9,194**	**8,173**	**7,900**	**58,211**
Assessment, Taxation and Corporate								
Assessment and Taxation								
Assessment Automation	2-164	**350**	**200**	**350**	**350**		**250**	**1,500**
Total Assessment, Taxation and Corporate		**350**	**200**	**350**	**350**		**250**	**1,500**
Council Services								
City Clerks								
Innovation Capital Fund								
Election Systems	2-141			**200**	**200**			**400**
Voting Machine Replacement	2-142				**1,000**			**1,000**
Audio / Video Equipment Replacement	2-143					**150**		**150**
Total Council Services				**200**	**1,200**	**150**		**1,550**
TOTAL EXECUTIVE POLICY		**11,703**	**12,074**	**10,267**	**10,744**	**8,323**	**8,150**	**61,261**
TOTAL CAPITAL PROGRAM - SERVICE BASED VIEW		**367,515**	**369,810**	**392,311**	**398,685**	**375,189**	**402,293**	**2,305,803**

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Appendix 2

Cost Estimate Classification

Cost Estimate Class*	Project Definition	Project Definition/ Design % Complete	Accuracy of Cost Estimate
Class 5	Concept Screening, Rough Order of Magnitude Estimate	~1%	-50% to +100%
Class 4	Feasibility	~10%	-30% to +60%
Class 3	**Preliminary Design (for Budget Authorization)**	**~30%**	**-20% to +30%**
Class 2	Detailed Design in progress	~60%	-10% to +20%
Class 1	Detailed Design Documentation Complete, Pre-Tender Estimate	~99%	-5% to +10%
Scalable	Project/Program scope can be adjusted to fit the Budget	N/A	N/A

Cost Estimate Class Descriptions

Class 5	Rough estimate prepared based on very limited information. Used to make an assessment of initial viability and for long range capital planning.
Class 4	Estimates prepared based on limited information with some engineering work completed and preliminary scope determination.
Class 3**	**Estimates based on completed preliminary design documentation. This Class 3 estimate will form the basis for budget authorization and set initial control estimate against which project deliverables will be measured (i.e. on budget).**
Class 2	Estimates prepared in progressive detail from a Class 3 and are used to establish a contract value against which decisions can be made to revise the scope of the project and manage risk at a specific milestone in the design development.
Class 1	Pre-tender estimates prepared based on completed detailed design documentation (i.e. drawings, plans, specifications, etc.) as well as complete project delivery plans.
Scalable	Scalable projects/programs will be sized according to the final budget authorization.

* Determined using the AACE International Recommended Practices 17R-97, 18R-97 & 56R-08

** City Auditor has recommended that a Class 3 estimate be prepared one year in advance of construction

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Public Private Partnership Payments as a Percentage of Cash to Capital / Gas Tax

(In thousands of dollars)		Restated 2018	2019	2020	2021	2022	2023	2024
Tax Supported Public Private Partnership Payments:								
1 Charleswood Bridge		$ 1,478	$ 1,478	$ 1,478	$ 1,478	$ 1,478	$ 1,478	$ 1,478
2 Disraeli Bridge and Overpass Facility		18,250	14,780	13,113	13,167	13,222	13,325	13,335
3 Chief Peguis Trail - Henderson to Lagimodiere		7,230	7,263	7,308	7,353	7,399	7,446	7,494
4 East District Police Station		1,012	1,056	1,056	1,056	1,056	1,089	1,155
Total		$ 27,970	$ 24,577	$ 22,955	$ 23,054	$ 23,155	$ 23,338	$ 23,462
Less: Manitoba Winnipeg Infrastructure Fund (2010 - 2019)	2018	(5,000)						
	2019	(5,000)						
Net Public Private Partnership Payments		**$ 17,970**	**$ 24,577**	**$ 22,955**	**$ 23,054**	**$ 23,155**	**$ 23,338**	**$ 23,462**
Financing Sources:								
1 Cash to Capital		$ 23,344	$ 21,010	$ 65,141	$ 66,565	$ 71,178	$ 65,136	$ 71,178
2 Federal Gas Tax		39,126	58,682	44,396	46,414	46,414	48,432	48,432
Total Cash to Capital and Gas Tax		**$ 62,470**	**$ 79,692**	**$ 109,537**	**$ 112,979**	**$ 117,592**	**$ 113,568**	**$ 119,610**
Payments as a Percentage of Cash to Capital and Gas Tax		**28.77%**	**30.84%**	**20.96%**	**20.41%**	**19.69%**	**20.55%**	**19.62%**

Notes:

1. Public Private Partnership Payments include annual service/financing payments and debt servicing payments.

2. On December 15, 2009, Council adopted that the annual lease/service payments and debt servicing costs for tax supported public private partnerships be funded annually up to a maximum of 30% of the cash to capital contribution and the federal gas tax. In 2019, the 30% tax supported limit has been exceeded. No further public private partnerships will be authorized until payments fall within the 30% limit.

3. The Province of Manitoba announced an additional $53.3 million over a ten-year period for roads funding to the City of Winnipeg, amending its contribution to the City under the Manitoba Winnipeg Infrastructure Fund. As per a January 28, 2019 letter from the Deputy Minister of Municipal Relations, the Province will fund $10 million from Manitoba Winnipeg Infrastructure Fund in 2018 instead of the $5 million budgeted for each of 2018 and 2019. The 2018 amount has been restated accordingly.

4. The "Southwest Rapid Transitway (Stage 2) and Pembina Highway Underpass" capital project was approved by Council on June 25, 2014. As this is a Utility and Other project, it does not impact this Public Private Partnership Payments calculation.

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Appendix 4

Transfers from Other Capital Accounts / Surplus Capital

Source (From)		Capital Project (To)	2019
TAX SUPPORTED, TRANSIT AND MUNICIPAL ACCOMMODATIONS	**($000's)**		**($000's)**
Public Works			
2011 Recreational Walkways and Bike Paths - Various Locations	124	Pedestrian and Cycling Program	324
2013 New Regional Sidewalks	23		
2015 New Regional Sidewalks	177		
	324		
2013 Marion Street Widening Grade Separation	217	Marion Street Improvements - Functional Design Study	917
2015 Building Canada Fund	700		
	917		
Community Services			
Departmental (PPD) Non-Specified Capital Account (Mayfair Recreation Centre)	163	Seven Oaks Pool - Concrete Restoration and Air Handling Unit Replacement	163
2010 Community Incentive Grant Program	4	Community Incentive Grant Program (CIGP)	194
2011 Community Incentive Grant Program	17		
2012 Community Incentive Grant Program	24		
2013 Community Incentive Grant Program	47		
2014 Community Incentive Grant Program	102		
	194		
Police			
2017 Major Case Management System Expansion	1,158	Major Case Management System	1,158
Fire Paramedic Service			
2016 Standards of Coverage	64	Station Capital Maintenance	780
2016 Consolidation of Stations	326		
2017 Facilities Optimization	15		
2017 Standards of Coverage	375		
	780		
Municipal Accommodations			
2016 Pan Am Indoor Pool - Parking Lot Refurbishment	111	Indoor Aquatic Facilities	111
Assessment and Taxation			
2015 Local Improvements - Ongoing Program (Cash to Capital)	60	Local Improvements - Ongoing Program (Cash to Capital)	220
2016 Local Improvements - Ongoing Program (Cash to Capital)	160		
	220		
2015 Local Improvements - Ongoing Program (External Debt)	240	Local Improvements - Ongoing Program (External Debt)	880
2016 Local Improvements - Ongoing Program (External Debt)	640		
	880		
Sub-total Tax Supported, Transit and Municipal Accommodations			**4,747**

Appendix 4

Transfers from Other Capital Accounts / Surplus Capital

OTHER LEVELS OF GOVERNMENT			
2014 Transit Building Replacement / Refurbishment - Federal Gas Tax	1,132	Transit Buses - Federal Gas Tax	1,132
Sub-total - Other Levels of Government			**1,132**
Sub-total Tax Supported, Transit and Municipal Accommodations and Other Levels of Government			**$ 5,879**

Source (From)		Capital Project (To)	2019
WATER AND WASTE UTILITIES	**($000's)**		**($000's)**
Sewage Disposal System			
2015 Water Pollution Control Centres - Asset Refurbishment and Replacement Project	1,000	Asset Refurbishment and Replacement Program	1,000
2012 River Crossing Monitoring and Rehabilitation	250	River Crossings Monitoring and Rehabilitation	250
Solid Waste			
2015 Comprehensive Integrated Waste Management Strategy - Material Recycling Facility (External Debt)	250	Comprehensive Integrated Waste Management Strategy - Materials Recovery Facility Education Centre (External Debt)	250
Land Drainage			
2015 Flood Pumping Station Rehabilitation	871	Flood Pumping Station Rehabilitation	871
Total Water and Waste Utilities - Transfers from Other Capital Accounts / Surplus Capital			**$ 2,371**
Total City and Other Levels of Government - Transfers from Other Capital Accounts / Surplus Capital			**$ 8,250**

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Appendix 5A

Transfer to Capital Reconciliation

Departments	2018 Adopted Budget	2019 Preliminary Budget	Variance
Winnipeg Police Service	$ 3,277,000	$ 2,900,000	$ (377,000)
Public Works	16,107,000	5,481,000	(10,626,000)
Community Services	2,341,000	3,934,000	1,593,000
Planning, Property and Development		870,000	870,000
Assessment and Taxation/Local Improvements		530,000	530,000
Total tax supported	**$ 21,725,000**	**$ 13,715,000**	**$ (8,010,000)**
Transit	607,000	5,039,000	4,432,000
Municipal Accommodations	1,012,000	2,256,000	1,244,000
Total City Transfer to Capital	**$ 23,344,000**	**$ 21,010,000**	**$ (2,334,000)**
Corporate - Savings from capital closure	(1,512,234)	(2,524,798)	(1,012,564)
TOTAL	**$ 21,831,766**	**$ 18,485,202**	**$ (3,346,564)**

Notes:

1. Public Works transfer to capital excludes transfers to the regional and local streets reserves (2018 - $55.040 million and 2019 - $66.240 million) and transfer to capital - frontage levy of $10 million.

2. Year over year Total City Transfer to Capital change:

Tax Supported:	
a) Transfer to capital reduction	(8,010,000)
b) Corporate - difference in savings from capital closure	(1,012,564)
Total Tax Supported	(9,022,564)
Utility - transfer to capital year over year change:	
Transit	4,432,000
Municipal Accommodations	1,244,000
Total City Transfer to Capital change	**(3,346,564)**

2019 Operating Budget Reconciliation
Variances Net of Transfer to Capital / Regional and Local Street Renewal Reserves / Frontage Levy
Tax Supported Summary

			Year over Year		
			Transfer to Capital		
	2018 Adopted Budget (Restated)	2019 Preliminary Budget	Cash to Capital Variance	Frontage Levy / Reserves Variance	Other Variances
Expenditures[1]:					
Departmental:					
Police Service	$ 291,449,496	**$ 301,417,319**	$ (377,000)		$ 10,344,823
Public Works	241,374,571	**244,732,208**	(10,626,000)	11,200,000	2,783,637
Fire Paramedic Service	193,457,211	**201,517,450**			8,060,239
Community Services	109,946,115	**113,785,830**	1,593,000		2,246,715
Planning, Property and Development	40,429,758	**43,862,978**	870,000		2,563,220
Water and Waste	22,335,314	**23,225,817**			890,503
Street Lighting	13,305,829	**13,116,449**			(189,380)
Assessment and Taxation	22,432,561	**23,553,779**	530,000		591,218
Innovation, Transformation & Technology	20,435,658	**25,113,159**			4,677,501
City Clerks	13,161,023	**13,559,621**			398,598
Corporate Finance	8,326,509	**8,341,593**			15,084
Customer Service and Communications	8,170,630	**8,537,608**			366,978
Human Resources	6,188,587	**6,054,877**			(133,710)
Other departments	17,323,092	**17,940,792**			617,700
Sub-total Departmental	$ 1,008,336,354	**$ 1,044,759,480**	$ (8,010,000)	$ 11,200,000	$ 33,233,126
Corporate:					
Debt and finance charges	$ 518,189	**$ 3,369,698**			$ 2,851,509
Taxes	11,065,558	**11,454,223**			388,665
Insurance and damage claims	3,585,356	**3,716,624**			131,268
Contribution to Transit	66,404,784	**70,560,859**			4,156,075
Other	(7,822,479)	**(9,108,941)**	(1,012,564)		(273,898)
Sub-total Corporate	$ 73,751,408	**$ 79,992,463**	$ (1,012,564)	$ -	$ 7,253,619
Total Expenditures	**$ 1,082,087,762**	**$ 1,124,751,943**	**$ (9,022,564)**	**$ 11,200,000**	**$ 40,486,745**

Notes:

1. 2018 Adopted Budget figures have been restated for the reorganization of Corporate Support Services.

2. In 2018, Innovation and Information Technology, Customer Service and Communications, and Human Resources were reported in Corporate Support Services (CSS). CSS was reorganized into individual departments for 2019.

3. Public Works' transfer to capital variance includes transfers to the regional and local street renewal reserves of $11.20 million (2018 - $55.04 million and 2019 - $66.24 million). The transfer to capital - frontage levy is budgeted at $10 million for each of 2018 and 2019.

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2019 Operating Budget Reconciliation
Budget Net of Transfer to Capital / Regional and Local Street Renewal Reserves / Frontage Levy
Tax Supported Summary

	2018 Net Budget	2019 Net Budget	Variance
Expenditures:			
Departmental:			
Police Service	$ 288,172,496	$ 298,517,319	$ 10,344,823
Public Works	160,227,571	163,011,208	2,783,637
Fire Paramedic Service	193,457,211	201,517,450	8,060,239
Community Services	107,605,115	109,851,830	2,246,715
Planning, Property and Development	40,429,758	42,992,978	2,563,220
Water and Waste	22,335,314	23,225,817	890,503
Street Lighting	13,305,829	13,116,449	(189,380)
Assessment and Taxation	22,432,561	23,023,779	591,218
Innovation, Transformation & Technology	20,435,658	25,113,159	4,677,501
City Clerks	13,161,023	13,559,621	398,598
Corporate Finance	8,326,509	8,341,593	15,084
Customer Service and Communications	8,170,630	8,537,608	366,978
Human Resources	6,188,587	6,054,877	(133,710)
Other departments	17,323,092	17,940,792	617,700
Sub-total Departmental	$ 921,571,354	$ 954,804,480	$ 33,233,126
Corporate:			
Debt and finance charges	$ 518,189	$ 3,369,698	$ 2,851,509
Taxes	11,065,558	11,454,223	388,665
Insurance and damage claims	3,585,356	3,716,624	131,268
Contribution to Transit	66,404,784	70,560,859	4,156,075
Other	(6,310,245)	(6,584,143)	(273,898)
Sub-total Corporate	$ 75,263,642	$ 82,517,261	$ 7,253,619
Total Expenditures before Transfer to the General Capital Fund	**$ 996,834,996**	**$ 1,037,321,741**	**$ 40,486,745**
Capital:			
Transfer to Capital Tax Supported	10,225,000	13,715,000	3,490,000
Incremental Transfer to Capital	11,500,000		(11,500,000)
Transfer to Regional Street Renewal Reserve	25,270,000	30,870,000	5,600,000
Transfer to Local Street Renewal Reserve	29,770,000	35,370,000	5,600,000
Transfer to Capital - Frontage Levy	10,000,000	10,000,000	
Capital Closing Surplus	(1,512,234)	(2,524,798)	(1,012,564)
Total Transfer to the General Capital Fund	**$ 85,252,766**	**$ 87,430,202**	**$ 2,177,436**
Total Expenditures	**$ 1,082,087,762**	**$ 1,124,751,943**	**$ 42,664,181**

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Cash to Capital Surpluses - 2018 Capital Review
Tax Supported Summary

	2018
Total for tax supported departments	
Balance prior to cash to capital surpluses from 2018 capital review	$ 233,561
Cash to capital surpluses from 2018 capital review (see detailed list on the following pages)	2,291,237
Total Cash to Capital Surpluses after 2018 Capital Review	**$ 2,524,798**
Use of Cash to Capital Surpluses	
Amount utilized to reduce transfer to General Capital Fund in the 2019 tax supported operating budget	2,524,798
Amount retained in Corporate non-specified capital account (see note below)	-
Total	**$ 2,524,798**

Note: Amount retained in Corporate non-specified capital account may be reallocated to capital authorization(s) as required, with approval of the Chief Financial Officer, subject to the reallocation being the lesser of $100,000 or 25% of the base capital budget.

Cash to Capital - 2018 Capital Review
List of Project Net Surpluses Closed
Tax Supported Departments

Project Name	Project Year	Net Surplus
Public Works		
Waverley West Arterial Roads	2010	$ 1,375,627
Portage Avenue Bridge (Sturgeon Creek)	2012	11,908
Sand / Salt Storage Facility	2012	38,143
Active Transportation Corridors	2012	2,601
Panet Road / Molson Street Twinning - Munroe Avenue to Grassie Boulevard	2013	250,915
Asset Management System - Various Divisions	2014	4,447
Park Improvements	2014	64,378
Strategic Municipal Infrastructure Research (SMIR) - Liquid Spray for Fertilizer	2016	11,680
Chief Peguis Trail - Henderson Highway to Lagimodiere Boulevard	2017	78,730
Disraeli Bridge and Overpass Facility	2017	200,000
Total Public Works		**2,038,429**
Municipal Accommodations & Planning, Property and Development		
Developer Payback	2017	40
Total Municipal Accommodations & Planning, Property and Development		**40**
Fire Paramedic Service		
Equipment Obsolescence - Hazardous Materials	2016	54,000
Equipment Obsolescence - Toughbooks	2017	37,207
Total Fire Paramedic Service		**91,207**
Corporate Support Services		
PeopleSoft Upgrade	2016	330
Total Corporate Support Services		**330**
Assessment and Taxation		
2014 / 2015 Local Improvements	2014/2015	161,231
Total Assessment and Taxation		**161,231**
Net cash to capital surpluses from 2018 capital review - tax supported departments		**$ 2,291,237**

Active Transportation Projects
2019 Preliminary Compared To 2018 Adopted Capital Budget

	2019 PAGE NO.	2019 PRELIMINARY	2018 ADOPTED	YEAR OVER YEAR CHANGE	CHANGE %
Pedestrian and Cycling Program	2-1	3,024	5,400		
Other road projects	2-4	2,500	11,000		
Developer Payback - Various Locations:					
Twinning of Keewatin Street from north of Inkster Blvd to Adsum Drive and Dr. Jose Rizal Way from Adsum Drive to Water Ridge Path			250		
Peguis Street (Hydro and Sumka Properties) active transportation path and roadworks			100		
Regional Street Renewal Program	2-4	3,750			
Local Street Renewal Program	2-20	500	500		
TOTAL		**9,774**	**17,250**	**(7,476)**	**-43%**

Notes:
1. There may be other active transportation projects included in the 2019 Preliminary Capital Budget that could not be estimated at time of printing.

2. Total 6-year investment for Active Transportation:

Pedestrian and Cycling	2-1	$ 13,389
Other Roads Projects	2-4	2,500
Regional Street Renewal	2-4	3,750
Local Street Renewal	2-20	3,000
		$ 22,639

Capital Projects Funded by Federal Gas Tax

	(In thousands of dollars)					
	2019	2020	2021	2022	2023	2024
Public Works						
Pedestrian and Cycling Program	1,743	286	1,617	992	1,754	2,700
Developer Payback - Various Locations		7,147				
Regional and Local Street Renewal	12,000	12,000	12,000	12,000	12,000	12,000
Disraeli Bridge and Overpass Facility	14,118	12,463	12,617	12,622	12,725	12,735
Chief Peguis Trail - Henderson Hwy to Lagimodiere Blvd	6,070	6,058	5,958	5,924	5,971	6,019
Athletic Fields - Improvements	350					
Parks Buildings	350				525	
Boat Docks and Launches				690		
Community Services						
Library Refurbishment and Interior Infrastructure Renewal Program			146			299
Library Redevelopment Facility - Westwood Library				794	3,088	
Recreational Facility Safety, Security and Accessibility Improvements	162				158	108
Recreation and Leisure Infrastructure Renewal						4,700
New Recreation Facility - South Winnipeg	1,750		700	5,323	3,763	
Seven Oaks Pool - Concrete Restoration and Air Handling Unit Replacement	1,086					
Pan Am Pool - Ceiling, Lighting and Public Address and Audio System	2,600					
Boni-Vital Pool			5,359			
Municipal Accommodations						
Energy Conservation						147
Community Centres - Refurbishing and Improvements	299					301
Arenas			267	268	269	312
Indoor Aquatic Facilities			1,015	1,066	1,152	1,484
Outdoor Aquatic Facilities	169					
Recreation and Leisure Centres	106					
Transit						
Transit Buses	16,188	6,442	6,735	6,735	7,027	7,627
Bus Communication Modernization	1,140					
Bus Operator Safety Shields	551					
Total Projects Financed by Federal Gas Tax	**58,682**	**44,396**	**46,414**	**46,414**	**48,432**	**48,432**

Major Capital Projects

On October 28, 2015 Council concurred in the recommendation of the Executive Policy Committee and adopted the following:

- That an adjustment to the dollar value for the definition of a Major Capital Project for reporting to the Standing Policy Committee on Finance be approved from $10 million to $20 million to reflect construction inflation since Council originally adopted the policy in 1999.
- That the threshold for Major Capital Project reporting to the Standing Policy Committee on Finance be automatically revised annually for construction inflation and disclosed in the Annual Capital Budget put forward to Council for adoption.
- That the adjusted dollar value for reporting to Standing Policy Committee on Finance be applied on a prospective basis. Projects currently reporting that are under the revised threshold will continue reporting until the project is completed.

Year	Threshold (in millions)	Construction Inflation*	Revised Threshold after Inflation (in millions)
2016	$20.6	5%	$21.6
2017	$21.6	5%	$22.7
2018	$22.7	3%	$23.4

*Forecasted construction inflation is used to prepare the threshold for the following year.

Thus, for 2019, projects $23 million or greater are required to form a Major Capital Projects Advisory Committee within 180 calendar days of project authorization and begin reporting financial status to the Standing Policy Committee (SPC) on Finance. Reporting is to be done on a quarterly basis, unless otherwise directed by SPC Finance, until the project is complete. The SPC Finance may, at its discretion, request projects below this threshold to report to the Committee.

Listing of Major Capital Projects previously approved and active for 2019:

1) Automatic Fare Collection System
2) North End Sewage Treatment Plant (NEWPCC) Biological Nutrient Removal Upgrade
3) South End Sewage Treatment Plant (SEWPCC) Upgrading and Expansion
4) Biosolids – Alternative Disposal Delivery and Management System
5) Comprehensive Integrated Waste Management Strategy – Reduce Reuse Recycle Repeat 4R Winnipeg Depots
6) Southwest Rapid Transitway (Stage 2) / Pembina Highway Underpass
7) Expansion of Transit Vehicle Overhaul and Maintenance Facilities
8) Water Supervisory Control and Data Acquisition (SCADA) Upgrade and Expansion
9) Waverley Street at CN Mainline (Rivers) Grade Separation
10) North District Police Station (NDPS)
11) Fermor Avenue Bridge (Seine River), Underpass and Roadworks
12) Empress Street – Portage Avenue to St. Matthews Avenue, Pavement Renewals, Overpass Rehabilitation and Associated Works

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Provincial Roads Funding Reductions

(In thousands of dollars)	2019	2020	2021	2022	2023	2024	Total
Reconciliation of Forecast* to Current Budget - Regional and Local Street Renewal Program							
Forecast	**$ 128,436**	**$ 152,036**	**$ 165,036**	**$ 175,436**	**$ 177,436**	**$ 177,836**	**$ 976,216**
Reduction of Provincial Funding	(28,000)	(25,000)	(10,900)	(10,900)	(30,200)	(40,000)	(145,000)
Roads 2018 Funding Shortfall - Repayment	(20,000)	(20,000)	-	-	-	-	(40,000)
Prior years surplus	6,000	2,000	-	-	-	-	8,000
Developer funding	-	2,586					2,586
	(42,000)	(40,414)	(10,900)	(10,900)	(30,200)	(40,000)	(174,414)
Current Budget - Regional and Local Street Renewal Program	**$ 86,436**	**$ 111,622**	**$ 154,136**	**$ 164,536**	**$ 147,236**	**$ 137,836**	**$ 801,802**
Reconciliation of Changes in Provincial Funding							
Provincial funding in forecast							
Province of Manitoba Regional Roads	$ 20,000	$ 25,000	$ 26,000	$ 24,000	$ 16,000	$ 20,000	$ 131,000
Province of Manitoba Local Roads	25,000	15,000	14,000	16,000	24,000	20,000	114,000
	45,000	40,000	40,000	40,000	40,000	40,000	245,000
Less: Provincial funding in current budget							
Province of Manitoba Accelerated Regional Roads	17,000	15,000	29,100	29,100	9,800	-	100,000
Province of Manitoba Local Roads	-	-	-	-	-	-	-
	17,000	15,000	29,100	29,100	9,800	-	100,000
Decrease in Annual Provincial Funding for Regional and Local Street Renewal	**(28,000)**	**(25,000)**	**(10,900)**	**(10,900)**	**(30,200)**	**(40,000)**	**(145,000)**
Other Reductions in Roads Funding**							
Pedestrian and Cycling Program	(2,700)	(2,777)	(4,250)	(2,400)	(2,700)	(2,700)	(17,527)
Transportation Master Plan		(125)	(125)				(250)
Traffic Signals Improvements		(515)					(515)
Traffic Signals Loops		(125)	(125)				(250)
Permanent Traffic Monitoring Stations		(322)					(322)
Traffic Engineering Improvements-Various Locations	(800)	(950)	(950)	(600)			(3,300)
Inner-Ring Road - Functional Design	(50)	(1,000)	(1,000)			(1,000)	(3,050)
Fermor Avenue Bridge	(500)						(500)
Osborne Street Underpass	(950)					(1,100)	(2,050)
Dublin Avenue Bridge (Omand's Creek)		(1,650)					(1,650)
Sherwin Road Bridge (Omand's Creek)		(1,400)					(1,400)
Pembina Highway Overpass (Bishop Grandin Rehabilitation)		(50)	(1,000)	(7,000)	(7,300)		(15,350)
St. Vital Bridge Rehabilitation						(5,200)	(5,200)
Waterway Crossing and Grade Separation		(1,086)	(2,550)				(3,636)
	(5,000)	**(10,000)**	**(10,000)**	**(10,000)**	**(10,000)**	**(10,000)**	**(55,000)**
Total Impact of Provincial Funding Reductions	**$ (33,000)**	**$ (35,000)**	**$ (20,900)**	**$ (20,900)**	**$ (40,200)**	**$ (50,000)**	**$ (200,000)**

* Forecast as approved by Council on September 20, 2018.

** Other Reductions in Roads Funding for 2019 to 2023 are reductions from the Capital Forecast in the 2018 Capital Budget. 2024 amounts are based on the Departments initial budget request as there is no forecast for 2024.