Winnipeg

2017 PRELIMINARY BUDGET

Capital Project Detail
Volume 3



City of Winnipeg

2017
Preliminary Budget
Capital Project Detail
Volume 3

WINNIPEG, MANITOBA, CANADA

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The City of Winnipeg

CAPITAL PROJECTS SUMMARY

2017
Preliminary Capital Budget

and

2018 to 2022
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. In the attached Capital Projects Listing, tax supported capital projects are financed by cash to capital unless another funding source is disclosed for the project. In addition, Manitoba Winnipeg Infrastructure Agreement funding amounts are not all allocated to individual capital projects. This unallocated provincial funding will offset cash to capital requirements in project budgets.

3. The Public Service uses a cost estimate classification system based on the Association for the Advancement of Cost Engineering (AACE) International Recommended Practices for capital budget estimates - see Appendix 2.

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CAPITAL PROJECTS SUMMARY *(in Thousands of $)*	PRELIMINARY BUDGET						6 YEAR TOTAL
	Budget	FORECAST					
	2017	2018	2019	2020	2021	2022	2017 - 2022
SUMMARY OF CAPITAL PROGRAM							
Public Works	**147,024**	**159,760**	**143,211**	**158,620**	**153,146**	**163,981**	**925,742**
Water and Waste - General Capital Fund	**8,895**	**6,900**	**6,590**	**6,070**	**3,100**	**4,500**	**36,055**
Community Services and Community Incentive Grants	**21,525**	**16,586**	**22,434**	**21,445**	**17,899**	**20,619**	**120,508**
Winnipeg Police Service	**23,585**	**6,436**	**4,767**	**1,308**	**8,810**	**2,358**	**47,264**
Fire Paramedic Service	**5,211**	**15,505**	**11,661**	**5,258**	**8,606**	**7,430**	**53,671**
Planning, Property and Development	**10,119**	**5,888**	**5,754**	**7,598**	**5,391**	**3,789**	**38,539**
City Clerks	**2,100**	**1,450**	**1,000**	**1,000**	**1,200**	**2,400**	**9,150**
Corporate Support Services	**4,317**	**3,488**	**1,651**	**2,951**	**2,935**	**5,614**	**20,956**
Assessment and Taxation	**3,870**	**3,320**	**3,350**	**3,200**	**3,350**	**3,350**	**20,440**
Other Projects	**192**						**192**
Total Tax Supported	**226,838**	**219,333**	**200,418**	**207,450**	**204,437**	**214,041**	**1,272,517**
Municipal Accommodations	**9,182**	**9,112**	**8,924**	**8,953**	**8,697**	**8,991**	**53,859**
Transit	**81,536**	**34,913**	**45,496**	**40,359**	**41,972**	**43,666**	**287,942**
Total Tax Supported, Transit and Municipal Accommodations	**317,556**	**263,358**	**254,838**	**256,762**	**255,106**	**266,698**	**1,614,318**
Self-Supporting Utilities							
Waterworks System	**49,383**	**41,182**	**21,411**	**28,056**	**28,235**	**23,975**	**192,242**
Sewage Disposal System	**57,836**	**90,198**	**62,522**	**66,792**	**56,873**	**64,995**	**399,216**
Solid Waste Disposal System	**8,134**	**6,193**	**2,187**	**3,949**	**2,004**	**690**	**23,157**
Total Self-Supporting Utilities	**115,353**	**137,573**	**86,120**	**98,797**	**87,112**	**89,660**	**614,615**
SPECIAL OPERATING AGENCIES							
Winnipeg Golf Services			**1,000**				**1,000**
Total Special Operating Agencies			**1,000**				**1,000**
TOTAL CAPITAL PROGRAM	**432,909**	**400,931**	**341,958**	**355,559**	**342,218**	**356,358**	**2,229,933**

CAPITAL PROJECTS SUMMARY *(in Thousands of $)*	PRELIMINARY BUDGET						6 YEAR TOTAL
	Budget	FORECAST					
	2017	2018	2019	2020	2021	2022	2017 - 2022
SUMMARY OF FINANCING SOURCES							
Cash to Capital	**55,649**	**80,278**	**70,778**	**72,778**	**74,778**	**76,778**	**431,039**
Frontage Levy	**10,000**	**10,000**	**10,000**	**10,000**	**10,000**	**10,000**	**60,000**
Public Private Partnership Annual Service / Financing Payments	**(28,328)**	**(28,320)**	**(26,484)**	**(37,509)**	**(37,864)**	**(38,019)**	**(196,524)**
Reserves:							
- Transit Bus Replacement	**3,938**	**10,472**	**13,526**	**11,228**	**11,773**	**12,640**	**63,577**
- Southwest Rapid Transitway (Stage 2) and Pembina Highway Underpass Payment	**350**	**350**	**1,780**	**14,460**	**14,720**	**14,760**	**46,420**
- Water Main Renewal	**18,500**	**18,500**	**19,000**	**20,000**	**21,000**	**21,500**	**118,500**
- Sewer System Rehabilitation	**18,800**	**18,200**	**19,500**	**20,500**	**21,500**	**22,500**	**121,000**
- Environmental Projects	**8,180**	**29,902**	**31,200**	**34,114**	**25,588**	**25,910**	**154,894**
- Brady Landfill Rehabilitation Reserve	**96**	**1,993**	**280**				**2,369**
- Waste Diversion	**150**						**150**
- Land Operating	**3,240**	**2,365**	**1,965**	**4,365**	**2,521**	**46**	**14,502**
- Contributions in Lieu of Land Dedication	**50**						**50**
- Computer Replacement	**306**	**126**		**608**	**146**		**1,186**
- Local Street Renewal	**23,278**	**28,122**	**33,352**	**38,582**	**43,812**	**49,042**	**216,188**
- Regional Street Renewal	**18,937**	**23,739**	**28,968**	**34,198**	**39,429**	**44,659**	**189,930**
- Economic Development Investment	**2,049**	**2,045**	**2,034**	**2,024**	**830**		**8,982**
Interim Financing (Repayment)	**1,630**	**(95)**	**(95)**	**(4,595)**			**(3,155)**
Contributions from Other Levels of Government:							
- Federal Gas Tax	**36,016**	**37,551**	**56,451**	**43,948**	**43,948**	**43,948**	**261,862**
- Transfer from Prior Year Authorization - Federal Gas Tax			**1,132**				**1,132**
- Veterans Affairs Canada	**200**	**150**	**150**	**150**	**170**	**164**	**984**
- Public Transit Infrastructure Fund (Federal Government)	**38,475**	**14,475**					**52,950**
- Manitoba Winnipeg Infrastructure Agreement (MWIA) / Provincial Funding for Road Improvements	**38,166**	**30,316**	**36,666**	**36,666**	**36,666**	**36,666**	**215,146**
- Manitoba Winnipeg Infrastructure Fund - Extension	**5,000**	**5,000**	**5,000**				**15,000**
- Provincial Road Investment Fund	**9,000**	**9,000**					**18,000**
- Building Manitoba Fund	**17,840**	**17,840**	**10,840**	**10,840**	**10,840**	**10,840**	**79,040**
- Transfer from Other Capital Accounts / Surplus Capital: Manitoba Winnipeg Infrastructure Agreement - 2017 $15.742 million, 2018 $1.718 million Manitoba Winnipeg Infrastructure Fund - 2018 $3.9 million	**15,742**	**5,618**					**21,360**

CAPITAL PROJECTS SUMMARY *(in Thousands of $)*	PRELIMINARY BUDGET						6 YEAR TOTAL
	Budget	FORECAST					
	2017	2018	2019	2020	2021	2022	2017 - 2022
Other Funders:							
- Developer Funding / Developer Capacity Charges	**3,250**	**2,000**	**1,700**	**500**			**7,450**
- St. James 55+ Centre (Winnipeg Foundation)	**250**						**250**
- Winnipeg Arts Council	**200**						**200**
- Winnipeg Foundation	**1,103**						**1,103**
- Sponsorship / Sponsor Winnipeg	**95**	**95**	**95**	**95**			**380**
Retained Earnings - Transit	**8,395**						**8,395**
Retained Earnings - Utilities	**28,925**	**68,578**	**16,140**	**20,234**	**19,024**	**19,750**	**172,651**
External Debt	**36,283**	**6,017**	**7,980**	**22,373**	**2,400**	**5,174**	**80,227**
Internal Financing		**6,364**			**937**		**7,301**
Transfers from Other Capital Accounts / Surplus Capital	**57,144**	**250**					**57,394**
TOTAL CAPITAL PROGRAM	**432,909**	**400,931**	**341,958**	**355,559**	**342,218**	**356,358**	**2,229,933**

CAPITAL PROJECTS SUMMARY *(in Thousands of $)*	PRELIMINARY BUDGET						6 YEAR TOTAL
	Budget	FORECAST					
	2017	2018	2019	2020	2021	2022	2017 - 2022
FINANCING SOURCES							
Tax Supported, Transit and Municipal Accommodations							
Cash to Capital	**55,649**	**80,278**	**69,778**	**72,778**	**74,778**	**76,778**	**430,039**
Frontage Levy	**10,000**	**10,000**	**10,000**	**10,000**	**10,000**	**10,000**	**60,000**
Public Private Partnership Annual Service / Financing Payments	**(28,328)**	**(28,320)**	**(26,484)**	**(37,509)**	**(37,864)**	**(38,019)**	**(196,524)**
Reserves:							
- Transit Bus Replacement	**3,938**	**10,472**	**13,526**	**11,228**	**11,773**	**12,640**	**63,577**
- Southwest Rapid Transitway (Stage 2) and Pembina Highway Underpass Payment	**350**	**350**	**1,780**	**14,460**	**14,720**	**14,760**	**46,420**
- Economic Development Investment	**2,049**	**2,045**	**2,034**	**2,024**	**830**		**8,982**
- Land Operating	**3,240**	**2,365**	**1,965**	**4,365**	**2,521**	**46**	**14,502**
- Contributions in Lieu of Land Dedication	**50**						**50**
- Computer Replacement	**306**	**126**		**608**	**146**		**1,186**
- Local Street Renewal	**23,278**	**28,122**	**33,352**	**38,582**	**43,812**	**49,042**	**216,188**
- Regional Street Renewal	**18,937**	**23,739**	**28,968**	**34,198**	**39,429**	**44,659**	**189,930**
Interim Financing (Repayment)	**1,630**	**(95)**	**(95)**	**(4,595)**			**(3,155)**
Contributions from Other Levels of Government:							
- Federal Gas Tax	**36,016**	**37,551**	**56,451**	**43,948**	**43,948**	**43,948**	**261,862**
- Transfer from Prior Year Authorization - Federal Gas Tax			**1,132**				**1,132**
- Veterans Affairs Canada	**200**	**150**	**150**	**150**	**170**	**164**	**984**
- Public Transit Infrastructure Fund (Federal Funding)	**38,475**	**14,475**					**52,950**
- Manitoba Winnipeg Infrastructure Agreement (MWIA) / Provincial Funding for Road Improvements	**38,166**	**30,316**	**36,666**	**36,666**	**36,666**	**36,666**	**215,146**
- Manitoba Winnipeg Infrastructure Fund - Extension	**5,000**	**5,000**	**5,000**				**15,000**
- Provincial Road Investment Fund	**9,000**	**9,000**					**18,000**
- Building Manitoba Fund	**17,840**	**17,840**	**10,840**	**10,840**	**10,840**	**10,840**	**79,040**
- Transfer from Other Capital Accounts / Surplus Capital: Manitoba Winnipeg Infrastructure Agreement - 2017 $15.742 million, 2018 $1.718 million Manitoba Winnipeg Infrastructure Fund - 2018 $3.9 million	**15,742**	**5,618**					**21,360**

CAPITAL PROJECTS SUMMARY *(in Thousands of $)*	PRELIMINARY BUDGET						6 YEAR TOTAL
	Budget	FORECAST					
	2017	2018	2019	2020	2021	2022	2017 - 2022
Other Funders:							
- Developer Funding / Developer Capacity Charges	3,250	2,000	1,700	500			7,450
- St. James 55+ Centre (Winnipeg Foundation)	250						250
- Winnipeg Arts Council	200						200
- Winnipeg Foundation	1,103						1,103
- Sponsorship / Sponsor Winnipeg	95	95	95	95			380
External Debt	30,530	5,617	7,980	18,424	2,400	5,174	70,125
Internal Financing		6,364			937		7,301
Retained Earnings - Transit	8,395						8,395
Transfers from Other Capital Accounts / Surplus Capital	22,195	250					22,445
Total Tax Supported, Transit and Municipal Accommodations	317,556	263,358	254,838	256,762	255,106	266,698	1,614,318
Self-Supporting Utilities							
Reserves:							
- Sewer System Rehabilitation	18,800	18,200	19,500	20,500	21,500	22,500	121,000
- Water Main Renewal	18,500	18,500	19,000	20,000	21,000	21,500	118,500
- Environmental Projects	8,180	29,902	31,200	34,114	25,588	25,910	154,894
- Brady Landfill Rehabilitation Reserve	96	1,993	280				2,369
- Waste Diversion	150						150
Retained Earnings - Utilities	28,925	68,578	16,140	20,234	19,024	19,750	172,651
External Debt	5,753	400		3,949			10,102
Transfers from Other Capital Accounts	34,949						34,949
Total Self-Supporting Utilities	115,353	137,573	86,120	98,797	87,112	89,660	614,615
SPECIAL OPERATING AGENCIES							
- Cash to Capital			1,000				1,000
TOTAL SPECIAL OPERATING AGENCIES			1,000				1,000
TOTAL FINANCING SOURCES	432,909	400,931	341,958	355,559	342,218	356,358	2,229,933

CAPITAL PROJECTS SUMMARY *(in Thousands of $)*	PAGE NO.	PRELIMINARY BUDGET Budget 2017	FORECAST 2018	2019	2020	2021	2022	6 YEAR TOTAL 2017 - 2022
CAPITAL PROJECTS LISTING								
PUBLIC WORKS								
Active Transportation Facilities								
Pedestrian and Cycling Program	2-1	**4,700**	**5,400**	**5,400**	**5,400**	**5,400**	**5,400**	**31,700**
Pedestrian and Cycling Grade Separations	2-6	**1,000**						**1,000**
Total Active Transportation Facilities		**5,700**	**5,400**	**5,400**	**5,400**	**5,400**	**5,400**	**32,700**
Regional Streets								
Street Improvements								
Developer Payback - Various Locations								
- Cash to Capital		**3,400**	**8,737**		**16,113**			**28,250**
- Transfer from Corporate Non-Specified Capital Account		**1,600**						**1,600**
Total Developer Payback - Various Locations	2-7	**5,000**	**8,737**		**16,113**			**29,850**
Tuxedo Yards Development								
- Economic Development Investment Reserve	2-9	**2,049**	**2,045**	**2,034**	**2,024**	**830**		**8,982**
Transportation Master Plan	2-10		**250**	**250**	**250**	**250**	**250**	**1,250**
Traffic Signals Improvements	2-11	**1,030**	**1,030**	**1,030**	**1,030**	**1,030**	**1,030**	**6,180**
Traffic Signals Loops	2-12	**250**	**250**	**250**	**250**	**250**	**250**	**1,500**
Traffic Engineering Improvements - Various Locations	2-13	**1,000**	**1,900**	**1,900**	**1,900**	**1,900**	**1,900**	**10,500**
Kenaston Boulevard - Ness Avenue to Taylor Avenue	2-14	**100**	**100**	**100**	**100**	**100**	**100**	**600**
Henderson Highway North of Gilmore to City Limit	2-15		**700**					**700**
Inner-Ring Road - Functional Design	2-16		**2,000**	**2,000**	**2,000**			**6,000**
Kenaston Boulevard Southbound - From McGillivray To Bishop Grandin								
- Cash to Capital		**1,100**						**1,100**
- Transfer from Prior Year Authorization		**1,100**						**1,100**
Total Kenaston Boulevard Southbound - From McGillivray To Bishop Grandin	2-17	**2,200**						**2,200**
Lagimodiere and Sage Creek - Southbound Double Left Turn	2-18	**500**						**500**
Total Street Improvements		**12,129**	**17,012**	**7,564**	**23,667**	**4,360**	**3,530**	**68,262**

CAPITAL PROJECTS SUMMARY *(in Thousands of $)*	PAGE NO.	PRELIMINARY BUDGET Budget 2017	FORECAST 2018	2019	2020	2021	2022	6 YEAR TOTAL 2017 - 2022
Regional and Local Street Renewal - First charge against 2017 Capital Budget of up to $8 million (Council July 13, 2016)								
- Cash to Capital		**16,779**	**10,535**	**13,805**	**1,704**	**13,456**	**5,766**	**62,045**
- Frontage Levy						**5,000**	**5,000**	**10,000**
- Federal Gas Tax / Interest		**12,276**	**13,886**	**17,236**	**18,936**	**18,886**	**18,901**	**100,121**
- Provincial Building Manitoba Fund - Roads		**14,000**	**14,000**	**7,000**	**7,000**	**7,000**	**7,000**	**56,000**
- Provincial Road Investment Fund		**9,000**	**9,000**					**18,000**
- Provincial Manitoba Winnipeg Infrastructure Fund		**5,000**	**5,000**	**5,000**				**15,000**
- Local Street Renewal Reserve / Interest		**23,278**	**28,122**	**33,352**	**38,582**	**43,812**	**49,042**	**216,188**
- Regional Street Renewal Reserve / Interest		**18,937**	**23,739**	**28,968**	**34,198**	**39,429**	**44,659**	**189,930**
- External Debt		**4,200**	**2,000**	**2,000**	**8,000**			**16,200**
- Transfer from Corporate Non-Specified Capital Account		**1,710**						**1,710**
Total Regional and Local Street Renewal	2-19	**105,180**	**106,282**	**107,361**	**108,420**	**127,583**	**130,368**	**685,194**
Waterway Crossings and Grade Separations								
Fermor Avenue Bridge (Seine River)								
- Cash to Capital			**1,000**	**1,000**				**2,000**
- Frontage Levy		**1,200**	**9,100**	**5,700**				**16,000**
Total Fermor Avenue Bridge (Seine River)	2-25	**1,200**	**10,100**	**6,700**				**18,000**
Saskatchewan Avenue Culvert (Sturgeon Creek)								
- Cash to Capital			**7,100**					**7,100**
- Frontage Levy		**1,000**	**900**					**1,900**
Total Saskatchewan Avenue Culvert (Sturgeon Creek)	2-26	**1,000**	**8,000**					**9,000**
Lyndale Drive - Retaining Wall Rehabilitation								
- Frontage Levy		**3,500**						**3,500**
- Provincial Funding for Road Improvements		**1,500**						**1,500**
Total Lyndale Drive - Retaining Wall Rehabilitation	2-27	**5,000**						**5,000**
Osborne Street Underpass								
- Frontage Levy				**1,250**				**1,250**
- Provincial Funding for Road Improvements				**1,250**				**1,250**
Total Osborne Street Underpass	2-28			**2,500**				**2,500**
Dublin Avenue Bridge (Omand's Creek)								
- Cash to Capital			**700**					**700**
- Frontage Levy				**700**	**6,800**			**7,500**
Total Dublin Avenue Bridge (Omand's Creek)	2-29		**700**	**700**	**6,800**			**8,200**

CAPITAL PROJECTS SUMMARY *(in Thousands of $)*	PAGE NO.	PRELIMINARY BUDGET Budget 2017	FORECAST 2018	2019	2020	2021	2022	6 YEAR TOTAL 2017 - 2022
Sherwin Road Bridge (Omand's Creek)								
- Cash to Capital				**700**				**700**
- Frontage Levy					**2,800**			**2,800**
Total Sherwin Road Bridge (Omand's Creek)	2-30			**700**	**2,800**			**3,500**
Pembina Highway Overpass (Bishop Grandin) Rehabilitation								
- Cash to Capital					**1,000**	**1,000**	**9,000**	**11,000**
- Frontage Levy						**1,000**		**1,000**
Total Pembina Highway Overpass (Bishop Grandin) Rehabilitation	2-31				**1,000**	**2,000**	**9,000**	**12,000**
St. James Bridge South Bound								
- Frontage Levy	2-32	**3,245**		**2,163**				**5,408**
St. Vital Bridge Rehabilitation								
- Frontage Levy	2-33					**1,000**	**3,000**	**4,000**
Waterway Crossing and Grade Separations - Annual Program								
- Cash to Capital		**1,945**	**3,000**	**2,813**	**2,600**		**1,000**	**11,358**
- Frontage Levy		**1,055**		**187**	**400**	**3,000**	**2,000**	**6,642**
Total Waterway Crossing and Grade Separations - Annual Program	2-34	**3,000**	**3,000**	**3,000**	**3,000**	**3,000**	**3,000**	**18,000**
Disraeli Bridge and Overpass Facility								
- Cash to Capital		**910**	**865**	**662**	**650**	**550**	**600**	**4,237**
- Federal Gas Tax		**17,415**	**17,385**	**14,238**	**12,550**	**12,700**	**12,700**	**86,988**
- Public Private Partnership Annual Service / Financing Payments		**(11,909)**	**(11,959)**	**(11,993)**	**(12,014)**	**(12,064)**	**(12,114)**	**(72,053)**
- Debt servicing - repayment of debt		**(6,416)**	**(6,291)**	**(2,907)**	**(1,186)**	**(1,186)**	**(1,186)**	**(19,172)**
Total Disraeli Bridge and Overpass Facility	2-35							
Charleswood Bridge								
- Cash to Capital		**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)**	**(8,868)**
Total Charleswood Bridge	2-37							
Total Waterway Crossings and Grade Separations		**13,445**	**21,800**	**15,763**	**13,600**	**6,000**	**15,000**	**85,608**

CAPITAL PROJECTS SUMMARY *(in Thousands of $)*	PAGE NO.	PRELIMINARY BUDGET Budget 2017	FORECAST 2018	2019	2020	2021	2022	6 YEAR TOTAL 2017 - 2022
New Transportation Facilities								
Chief Peguis Trail - Henderson Highway to Lagimodiere Boulevard								
- Cash to Capital		**860**	**950**	**1,193**	**1,250**	**1,395**	**1,475**	**7,123**
- Federal Gas Tax		**6,325**	**6,280**	**6,077**	**6,065**	**5,965**	**5,950**	**36,662**
- Public Private Partnership Annual Service / Financing Payments		**(6,206)**	**(6,251)**	**(6,291)**	**(6,336)**	**(6,381)**	**(6,446)**	**(37,911)**
- Debt servicing - repayment of debt		**(979)**	**(979)**	**(979)**	**(979)**	**(979)**	**(979)**	**(5,874)**
Total Chief Peguis Trail - Henderson Highway to Lagimodiere Boulevard	2-38							
Total New Transportation Facilities								
Other Streets Projects								
Work Management / Asset Management Systems Study								
- Cash to Capital			**500**					**500**
- Transfer from Prior Year Authorization		**459**						**459**
Total Work Management / Asset Management Systems Study	2-40	**459**	**500**					**959**
Asset Management System - Various Divisions	2-41	**100**	**100**	**100**	**100**	**100**	**100**	**600**
Land Drainage Sewers - Regional / Local Streets	2-42	**1,000**	**1,000**	**1,000**	**300**	**300**	**300**	**3,900**
Land Acquisition - Transportation Right of Way	2-43		**300**	**300**	**300**	**300**	**300**	**1,500**
Total Other Streets Projects		**1,559**	**1,900**	**1,400**	**700**	**700**	**700**	**6,959**
TOTAL STREETS PROJECTS		**138,013**	**152,394**	**137,488**	**151,787**	**144,043**	**154,998**	**878,723**

CAPITAL PROJECTS SUMMARY *(in Thousands of $)*	PAGE NO.	PRELIMINARY BUDGET						6 YEAR TOTAL
		Budget	FORECAST					
		2017	2018	2019	2020	2021	2022	2017 - 2022
Parks and Open Space								
Reforestation - Improvements	2-44	**766**	**766**	**383**	**383**	**383**	**383**	**3,064**
Athletic Fields - Improvements	2-45		**350**	**350**	**350**	**350**	**350**	**1,750**
Community and Neighbourhood Parks - Existing (formerly Parks - Improvements)	2-46	**550**	**200**	**170**				**920**
Community and Neighbourhood Parks - New	2-47	**375**						**375**
Regional Parks	2-48	**400**				**2,350**	**3,650**	**6,400**
Parks Buildings (formerly Regional and Community Parks - Buildings)	2-49		**850**	**220**	**1,400**	**1,420**		**3,890**
Assiniboine Park Zoo - Sewer Siphon	2-51				**100**			**100**
Boat Docks and Launches	2-52	**1,500**	**600**					**2,100**
Parks and Recreation Enhancement Program	2-53	**3,300**	**3,300**	**3,300**	**3,300**	**3,300**	**3,300**	**19,800**
Urban Forest Enhancement Program	2-54	**1,300**	**1,300**	**1,300**	**1,300**	**1,300**	**1,300**	**7,800**
Regional Parks Investment Strategy	2-55	**100**						**100**
Parks Master Plan	2-56	**300**						**300**
Parks Road Renewal	2-57	**420**						**420**
Total Parks and Open Space		**9,011**	**7,366**	**5,723**	**6,833**	**9,103**	**8,983**	**47,019**
TOTAL PUBLIC WORKS		**147,024**	**159,760**	**143,211**	**158,620**	**153,146**	**163,981**	**925,742**

CAPITAL PROJECTS SUMMARY *(in Thousands of $)*	PAGE NO.	PRELIMINARY BUDGET Budget 2017	FORECAST 2018	2019	2020	2021	2022	6 YEAR TOTAL 2017 - 2022
COMMUNITY SERVICES								
Library Facility Safety, Security and Accessibility Improvements Program	2-58	**312**	**318**	**324**	**330**	**336**	**342**	**1,962**
Library Interior Infrastructure Replacement Program	2-59	**300**	**306**	**312**	**318**	**325**	**331**	**1,892**
Library Technology Upgrade and Replacement Program	2-60		**510**	**520**	**530**	**541**	**553**	**2,654**
Library Refurbishment and Redevelopment Program - Existing Infrastructure	2-61		**510**	**520**	**530**	**541**	**554**	**2,655**
Library Refurbishment and Redevelopment Program - Existing Infrastructure: Cornish Library								
- Cash to Capital		**366**						**366**
- Interim Financing from the General Capital Fund (Repayment)		**(1,100)**						**(1,100)**
- External Debt		**734**						**734**
Total Library Refurbishment and Redevelopment Program - Existing Infrastructure: Cornish Library	2-62							
Library Refurbishment and Redevelopment Program - Existing Infrastructure: St. John's Library								
- Cash to Capital		**366**						**366**
- Interim Financing from the General Capital Fund (Repayment)		**(1,100)**						**(1,100)**
- External Debt		**734**						**734**
Total Library Refurbishment and Redevelopment Program - Existing Infrastructure: St. John's Library	2-63							
Library Facility Redevelopment - Transcona Library								
- External Debt		**2,462**						**2,462**
- Land Dedication Reserve (East Kildonan - Transcona)		**50**						**50**
Total Library Facility Redevelopment - Transcona Library	2-64	**2,512**						**2,512**
Library Facility Redevelopment - St. James Library								
- Cash to Capital				**2,037**				**2,037**
- External Debt					**8,024**			**8,024**
- Internal Financing			**512**					**512**
Total Library Facility Redevelopment - St. James Library	2-66		**512**	**2,037**	**8,024**			**10,573**
Library Facility Redevelopment - West Kildonan Library								
- External Debt							**2,774**	**2,774**
- Internal Financing						**937**		**937**
Total Library Facility Redevelopment - West Kildonan Library	2-68					**937**	**2,774**	**3,711**
Library Facility Redevelopment - Westwood Library	2-70					**146**	**794**	**940**
New Library Facility - South Winnipeg Library (formerly Waverley West Library)	2-71	**120**			**502**	**2,142**	**9,085**	**11,849**

CAPITAL PROJECTS SUMMARY *(in Thousands of $)*	PAGE NO.	PRELIMINARY BUDGET						6 YEAR TOTAL
		Budget	FORECAST					
		2017	2018	2019	2020	2021	2022	2017 - 2022
New Library Facility - Southeast Winnipeg Library	2-72				140		438	578
Recreational Facility Safety, Security and Accessibility Improvements Program	2-73	156	159	162	165	168	172	982
Fitness Equipment Upgrade Program	2-74		233	227	230	235	241	1,166
Recreation Equipment and Amenities Program	2-75			400		400		800
Recreation Refurbishment and Redevelopment Program - Existing Infrastructure	2-76					2,000	495	2,495
Recreation Facility New Infrastructure - South Winnipeg - First charge on 2017 Capital Budget of up $3.8 million (Council March 22, 2016)	2-77	4,114						4,114
Recreation Facility Replacement - New Infrastructure	2-78			7,000		5,000		12,000
Recreation Refurbishment and Redevelopment - East End Cultural and Leisure Centre	2-79	171						171
St. James Civic Centre - Facility Addition - First charge on 2017 Capital Budget of up $250,000 (Council March 22, 2016)								
- Cash to Capital			641					641
- St. James 55+ Centre		250						250
- Transfer from Corporate Non-Specified Capital Account		945	250					1,195
- Transfer from Prior Year Surplus - Manitoba Winnipeg Infrastructure Fund (MWIF)			3,900					3,900
- External Debt				2,080				2,080
Total St. James Civic Centre - Facility Addition	2-80	1,195	4,791	2,080				8,066
Seven Oaks Indoor Pool - Renewal Plan - First charge on 2017 Capital Budget of up to $2.4 million (Council July 13, 2016)	2-82	2,400						2,400
Dakota Community Centre - Outdoor Running Track	2-83			300	550			850
Pan Am Pool - Change Room Upgrades	2-84		815					815
Boni-Vital Pool	2-85	240		385	5,359			5,984
Spray Pad Development - Freighthouse Site	2-86	1,039						1,039
Spray Pad Development - Old Ex / North Centennial Recreation and Leisure Facility	2-87	1,038						1,038
Business Application Systems	2-88	142	306	312				760
Technology Upgrade and Replacement Program	2-89		306			325		631

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CAPITAL PROJECTS SUMMARY *(in Thousands of $)*	PAGE NO.	PRELIMINARY BUDGET Budget 2017	FORECAST 2018	2019	2020	2021	2022	6 YEAR TOTAL 2017 - 2022
Community Centre Renovation Grant Program (CCRGP)								
- Cash to Capital						144	919	1,063
- Land Operating Reserve		965	965	965	965	821	46	4,727
Total Community Centre Renovation Grant Program (CCRGP)	2-90	965	965	965	965	965	965	5,790
Community Incentive Grant Program (CIGP)	2-91	1,698	1,732	1,767	1,802	1,838	1,875	10,712
Assiniboine Park Conservancy (APC) - Infrastructure and Sustainability								
- Cash to Capital		1,543	5,123	5,123	2,000	2,000	2,000	17,789
- Transfer from Corporate Non-Specified Capital Account		3,580						3,580
Total Assiniboine Park Conservancy (APC) - Infrastructure and Sustainability	2-92	5,123	5,123	5,123	2,000	2,000	2,000	21,369
TOTAL COMMUNITY SERVICES		21,525	16,586	22,434	21,445	17,899	20,619	120,508
WINNIPEG POLICE SERVICE								
North Station Information Technology Requirements	2-93		490					490
Police Divisions Systems Upgrades	2-94	1,667	800					2,467
Major Case Management System Expansion	2-95	1,158		500				1,658
Police Headquarters Building Systems Safeguards								
- Transfer from Prior Year Authorization	2-96	510						510
East District Police Station								
- Cash to Capital		990	1,012	1,056	1,056	1,056	1,056	6,226
- Public Private Partnership Lease Payments		(990)	(1,012)	(1,056)	(1,056)	(1,056)	(1,056)	(6,226)
Total East District Police Station	2-97							
North District Police Station								
- External Debt	2-98	20,000						20,000
Building Video Surveillance Systems	2-99					4,160		4,160
Intelligence Led Reporting (Phase 2)	2-100		1,665					1,665
WPS Data Integration, Auditing and Quality Solution Tool	2-101		662					662
Automated Fingerprint Identification System (AFIS)	2-102					500		500
Technology Upgrades - Information Systems	2-103			1,200				1,200
In Car Computing	2-104			1,247	253			1,500
Bomb Unit Truck Replacement	2-105		300					300
Next Generation 911	2-106				800	1,000		1,800
Communication Centre Back Up Site Upgrade	2-107					550		550
Police Vehicle Operations Building	2-108			1,820				1,820
Archival and Exhibit Building								
- Cash to Capital			580					580
- Internal Financing			1,939					1,939
Total Archival and Exhibit Building	2-109		2,519					2,519

CAPITAL PROJECTS SUMMARY *(in Thousands of $)*	PAGE NO.	PRELIMINARY BUDGET Budget 2017	FORECAST 2018	2019	2020	2021	2022	6 YEAR TOTAL 2017 - 2022
Computer Assisted Dispatch Upgrade	2-110	**250**			**255**			**505**
Schedule and Management System Upgrade	2-111					**500**		**500**
Call Answer Software	2-112						**1,000**	**1,000**
Police Headquarters Information System Upgrades	2-113					**2,100**		**2,100**
Flight Operations - Forward Looking Infra-Red (FLIR) Equipment	2-114						**658**	**658**
JSI Voice Intercept System	2-115						**700**	**700**
TOTAL WINNIPEG POLICE SERVICE		**23,585**	**6,436**	**4,767**	**1,308**	**8,810**	**2,358**	**47,264**
FIRE PARAMEDIC SERVICE								
Facilities Optimization								
- Cash to Capital		**925**	**2,717**	**4,839**				**8,481**
- External Debt			**1,217**	**1,500**				**2,717**
Total Facilities Optimization	2-116	**925**	**3,934**	**6,339**				**11,198**
Equipment Obsolescence	2-118	**1,487**	**1,010**	**4,052**	**739**	**739**	**4,629**	**12,656**
911 Call Centre Resilience	2-120	**861**	**260**			**124**		**1,245**
Computer Aided Dispatch (CAD)								
- Cash to Capital			**3,536**					**3,536**
- Internal Financing			**3,913**					**3,913**
Total Computer Aided Dispatch (CAD)	2-121		**7,449**					**7,449**
Station Capital Maintenance	2-123	**1,938**	**2,852**	**1,270**	**4,400**	**7,743**	**2,801**	**21,004**
Emergency Medical Services (EMS) Training Equipment	2-125				**119**			**119**
TOTAL FIRE PARAMEDIC SERVICE		**5,211**	**15,505**	**11,661**	**5,258**	**8,606**	**7,430**	**53,671**

CAPITAL PROJECTS SUMMARY *(in Thousands of $)*	PAGE NO.	PRELIMINARY BUDGET Budget 2017	FORECAST 2018	2019	2020	2021	2022	6 YEAR TOTAL 2017 - 2022
PLANNING, PROPERTY AND DEVELOPMENT								
Computer Automation	2-126		144	133	119	143	132	671
Riverbank Greenway Programs	2-127	225	406	411	453	424	420	2,339
Cemeteries - Improvements								
- Cash to Capital		208	250	240	248	236	236	1,418
- Veterans Affairs Canada		200	150	150	150	170	164	984
Total Cemeteries - Improvements	2-128	408	400	390	398	406	400	2,402
Downtown Enhancement Program	2-129	400	400	400	400	400	400	2,400
BIZ Zones, Image Routes and Neighbourhood Main Streets								
- Cash to Capital		400	400	400	400	400	400	2,400
- Transfer from Prior Year Authorization		574						574
Total BIZ Zones, Image Routes and Neighbourhood Main Streets	2-131	974	400	400	400	400	400	2,974
Public Art Strategy	2-132	500	500	500	500	500	500	3,000
Land Acquisition for General Unspecified Purposes								
- Cash to Capital		300	240	228	1,774	238	256	3,036
- Interim Financing from General Capital Fund / (Repayment)		1,500			(1,500)			
Total Land Acquisition for General Unspecified Purposes	2-133	1,800	240	228	274	238	256	3,036
Developer Payback	2-134	280	278	292	274	280	281	1,685
Riverbank Stabilization - Physical Asset Protection								
- Cash to Capital		1,000	1,000	1,000	1,000	1,000	1,000	6,000
- Transfer from Prior Year Authorization		229						229
Total Riverbank Stabilization - Physical Asset Protection	2-135	1,229	1,000	1,000	1,000	1,000	1,000	6,229
Building Communities Initiative III								
- Cash to Capital			360		190	800		1,350
- Land Operating Reserve			700	1,000	1,700			3,400
- Manitoba Winnipeg Infrastructure Agreement (MWIA)			1,060	1,000	1,890	800		4,750
Total Building Communities Initiative III	2-137		2,120	2,000	3,780	1,600		9,500
Tache Promenade								
- Cash to Capital					3,000			3,000
- Interim Financing from General Capital Fund / (Repayment)		3,000			(3,000)			-
- Winnipeg Foundation		1,103						1,103
- Winnipeg Arts Council		200						200
Total Tache Promenade	2-138	4,303						4,303
TOTAL PLANNING, PROPERTY AND DEVELOPMENT		10,119	5,888	5,754	7,598	5,391	3,789	38,539

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CAPITAL PROJECTS SUMMARY *(in Thousands of $)*	PAGE NO.	PRELIMINARY BUDGET Budget 2017	FORECAST 2018	2019	2020	2021	2022	6 YEAR TOTAL 2017 - 2022
MUNICIPAL ACCOMMODATIONS								
General Building Renovation and Refurbishing								
- Cash to Capital			500	180	500	500	500	2,180
- Transfer from Prior Year Authorization		222						222
Total General Building Renovation and Refurbishing	2-140	222	500	180	500	500	500	2,402
Accommodation Facilities								
- Cash to Capital		425	527	784	124	75	1,956	3,891
- Land Operating Reserve			700		1,700	1,700		4,100
Total Accommodation Facilities	2-141	425	1,227	784	1,824	1,775	1,956	7,991
Millennium Library - HVAC and Temperature Control Improvements	2-142		750	1,495				2,245
Fire / Life Safety / Regulatory Upgrades	2-143	625	720	759	708	704	720	4,236
Energy Conservation	2-144		140	158	130	136	143	707
Tenant Improvement Prepayment - Major Department	2-145		193		186	183	179	741
Historic Buildings								
- Cash to Capital			270	214	217	220	224	1,145
- Transfer from Prior Year Authorization		145						145
Total Historic Buildings	2-146	145	270	214	217	220	224	1,290
Generator Set Replacement and Upgrades	2-147		130	113	136	123	148	650
Security / Building Automation System Initiatives	2-148	255	255	255	255	255	203	1,478
Community Centres - Refurbishing and Improvements								
- Cash to Capital		420	644	673	667	661	653	3,718
- Manitoba Winnipeg Infrastructure Agreement (MWIA)		200						200
Total Community Centres - Refurbishing and Improvements	2-149	620	644	673	667	661	653	3,918
Arenas								
- Cash to Capital		100	525	525	565	533	535	2,783
- Manitoba Winnipeg Infrastructure Agreement (MWIA)		225						225
- Transfer from Prior Year Authorization		222						222
Total Arenas	2-150	547	525	525	565	533	535	3,230
Indoor Aquatic Facilities								
- Cash to Capital		1,203	2,470	2,518	2,516	2,359	2,479	13,545
- Manitoba Winnipeg Infrastructure Agreement (MWIA)		1,172						1,172
Total Indoor Aquatic Facilities	2-151	2,375	2,470	2,518	2,516	2,359	2,479	14,717
Pan Am Indoor Pool - Parking Lot Refurbishment								
- Cash to Capital		78						78
- Manitoba Winnipeg Infrastructure Agreement (MWIA)		78						78
Total Pan Am Indoor Pool - Parking Lot Refurbishment	2-153	156						156

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CAPITAL PROJECTS SUMMARY *(in Thousands of $)*	PAGE NO.	PRELIMINARY BUDGET Budget 2017	FORECAST 2018	2019	2020	2021	2022	6 YEAR TOTAL 2017 - 2022
Outdoor Aquatic Facilities								
- Cash to Capital		217	340	338	340	342	340	1,917
- Manitoba Winnipeg Infrastructure Agreement (MWIA)		125						125
Total Outdoor Aquatic Facilities	2-154	342	340	338	340	342	340	2,042
Community Facilities								
- Cash to Capital			260	212	214	217	221	1,124
- Transfer from Prior Year Authorization		200						200
Total Community Facilities	2-155	200	260	212	214	217	221	1,324
Building Asset / Work Management Program	2-156	100	163	175	170	164	165	937
UFF - Hockey Pen Light Standard Replacement	2-157	100	100	100	100	100	100	600
City-Wide Accessibility Program	2-158	425	425	425	425	425	425	2,550
Transcona Centennial Pool								
- Interim Financing from Land Operating Reserve (Repayment)		(575)						(575)
- Land Operating Reserve		575						575
Total Transcona Centennial Pool	2-159							
City Hall - Building Refurbishment								
- Cash to Capital		414						414
- Transfer from Corporate Non-Specified Capital Account		531						531
- Land Operating Reserve		1,700						1,700
Total City Hall - Building Refurbishment	2-160	2,645						2,645
Sherbrook Pool Reopening								
- Kinsmen Club of Winnipeg (Sponsor Winnipeg)		95	95	95	95			380
- Interim Financing from General Capital Fund / (Repayment)		(95)	(95)	(95)	(95)			(380)
Total Sherbrook Pool Reopening	2-162							
TOTAL MUNICIPAL ACCOMMODATIONS		9,182	9,112	8,924	8,953	8,697	8,991	53,859
CITY CLERKS								
Innovation Capital Fund	2-164	1,000	1,000	1,000	1,000	1,000	1,000	6,000
Corporate Records Centre	2-165	150					200	350
Election Systems	2-166	200	200			200	200	800
Decision Making Information System (DMIS) Replacement	2-167		250					250
2017 Canada Summer Games	2-168	750						750
Voting Machine Replacement	2-169						1,000	1,000
TOTAL CITY CLERKS		2,100	1,450	1,000	1,000	1,200	2,400	9,150

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CAPITAL PROJECTS SUMMARY *(in Thousands of $)*	PAGE NO.	PRELIMINARY BUDGET Budget 2017	FORECAST 2018	2019	2020	2021	2022	6 YEAR TOTAL 2017 - 2022
CORPORATE SUPPORT SERVICES								
PeopleSoft Upgrade	2-170	**1,800**	**412**				**2,483**	**4,695**
Communications Network Infrastructure	2-171	**401**	**813**	**267**	**525**	**327**	**475**	**2,808**
Enterprise Computing Initiatives								
- Cash to Capital		**494**	**1,287**	**1,127**	**1,028**	**1,895**	**1,832**	**7,663**
- Transfer from Prior Year Authorization		**766**						**766**
- Transfer from Computer Replacement Reserve		**306**	**126**		**608**	**146**		**1,186**
Total Enterprise Computing Initiatives	2-172	**1,566**	**1,413**	**1,127**	**1,636**	**2,041**	**1,832**	**9,615**
Print Asset Renewal	2-173		**152**			**317**		**469**
Aerial Imagery Renewal Program	2-174		**165**		**190**		**182**	**537**
Software Renewal Program	2-175			**157**			**152**	**309**
311 Renewal	2-176	**450**	**250**	**100**	**450**	**250**	**490**	**1,990**
Infrastructure Service Enhancements	2-177	**100**			**150**			**250**
Candidate Gateway	2-178		**283**					**283**
TOTAL CORPORATE SUPPORT SERVICES		**4,317**	**3,488**	**1,651**	**2,951**	**2,935**	**5,614**	**20,956**
ASSESSMENT AND TAXATION								
Assessment Automation	2-179	**870**	**320**	**350**	**200**	**350**	**350**	**2,440**
Local Improvements - Ongoing Program								
- Cash to Capital		**600**	**600**	**600**	**600**	**600**	**600**	**3,600**
- External Debt		**2,400**	**2,400**	**2,400**	**2,400**	**2,400**	**2,400**	**14,400**
Total Local Improvements - Ongoing Program	2-180	**3,000**	**3,000**	**3,000**	**3,000**	**3,000**	**3,000**	**18,000**
TOTAL ASSESSMENT AND TAXATION		**3,870**	**3,320**	**3,350**	**3,200**	**3,350**	**3,350**	**20,440**
OTHER PROJECTS								
PeopleSoft Accounts Receivable and Billing								
- Transfer from Prior Year Authorization	2-181	**192**						**192**
TOTAL OTHER PROJECTS		**192**						**192**

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CAPITAL PROJECTS SUMMARY *(in Thousands of $)*	PAGE NO.	PRELIMINARY BUDGET Budget 2017	FORECAST 2018	2019	2020	2021	2022	6 YEAR TOTAL 2017 - 2022
TRANSIT								
Innovative Transit Program								
- Cash to Capital			1,000	1,000	1,000	1,000	1,000	5,000
- Retained Earnings		565						565
Total Innovative Transit Program	2-182	565	1,000	1,000	1,000	1,000	1,000	5,565
Transit Building Replacement / Refurbishment								
- Cash to Capital		1,023	956	2,036	4,036	4,536	4,518	17,105
- Retained Earnings		445						445
Total Transit Building Replacement / Refurbishment	2-183	1,468	956	2,036	4,036	4,536	4,518	17,550
Expansion of Transit Vehicle Overhaul and Maintenance Facilities								
- Transfer from Prior Year Authorization		9,160						9,160
- Retained Earnings		5,040						5,040
- Public Transit Infrastructure Fund (Federal Government)		26,000						26,000
- Transfer from Prior Year Authorization - Manitoba Winnipeg Infrastructure Agreement (MWIA)		13,000						13,000
Total Expansion of Transit Vehicle Overhaul and Maintenance Facilities	2-185	53,200						53,200
Transit Building Roof Replacement and Ventilation Upgrade								
- Cash to Capital		963	962	4,500	2,500	2,000	2,018	12,943
- Public Transit Infrastructure Fund (Federal Government)		1,725	1,725					3,450
- Transfer from Prior Year Authorization - Manitoba Winnipeg Infrastructure Agreement (MWIA)		862	863					1,725
Total Transit Building Roof Replacement and Ventilation Upgrade	2-187	3,550	3,550	4,500	2,500	2,000	2,018	18,118
Transit Buses								
- Cash to Capital			1,335	562	11,358	12,426	13,253	38,934
- Transit Bus Replacement Reserve		3,938	10,472	13,526	11,228	11,773	12,640	63,577
- Provincial Building Manitoba Fund		3,840	3,840	3,840	3,840	3,840	3,840	23,040
- Transfer from Prior Year Authorization - Manitoba Winnipeg Infrastructure Agreement (MWIA)		1,880	855					2,735
- Public Transit Infrastructure Fund (Federal Government)		10,750	12,750					23,500
- Federal Gas Tax				18,900	6,397	6,397	6,397	38,091
- Transfer from Prior Year Authorization - Federal Gas Tax				1,132				1,132
- Retained Earnings		2,000						2,000
Total Transit Buses	2-189	22,408	29,252	37,960	32,823	34,436	36,130	193,009

CAPITAL PROJECTS SUMMARY *(in Thousands of $)*	PAGE NO.	PRELIMINARY BUDGET						6 YEAR TOTAL
		Budget	FORECAST					
		2017	2018	2019	2020	2021	2022	2017 - 2022
Southwest Rapid Transitway (Stage 2) and Pembina Highway Underpass								
- Southwest Rapid Transitway (Stage 2) and Pembina Highway Underpass Payment Reserve		**350**	**350**	**1,780**	**14,460**	**14,720**	**14,760**	**46,420**
- P3 Annual Service / Financing Payments (Province)				**(80)**	**(1,010)**	**(1,110)**	**(1,120)**	**(3,320)**
- P3 Annual Service / Financing Payments (City)		**(350)**	**(350)**	**(1,700)**	**(10,060)**	**(10,220)**	**(10,250)**	**(32,930)**
- External Debt Annual Service Payments (City)					**(3,390)**	**(3,390)**	**(3,390)**	**(10,170)**
Total Southwest Rapid Transitway (Stage 2) and Pembina Highway Underpass	2-191							
Bus Fleet Cameras								
- Cash to Capital			**155**					**155**
- Retained Earnings		**345**						**345**
Total Bus Fleet Cameras	2-194	**345**	**155**					**500**
TOTAL TRANSIT		**81,536**	**34,913**	**45,496**	**40,359**	**41,972**	**43,666**	**287,942**

CAPITAL PROJECTS SUMMARY *(in Thousands of $)*	PAGE NO.	PRELIMINARY BUDGET Budget 2017	FORECAST 2018	2019	2020	2021	2022	6 YEAR TOTAL 2017 - 2022
WATER AND WASTE - GENERAL CAPITAL FUND								
Land Drainage and Flood Control								
Financed by Cash to Capital:								
Flood Pumping Station Rehabilitation	2-195	**1,000**	**1,000**	**1,000**	**1,000**	**1,000**	**1,000**	**6,000**
Land Drainage and Combined Sewers Outfall Gate Structures	2-196	**2,430**	**1,730**	**1,710**	**1,980**			**7,850**
Stormwater Retention Basin Revetments (formerly Stormwater Retention Basin Rehabilitation)								
- Cash to Capital		**165**	**170**	**180**	**190**			**705**
- Transfer from Prior Year Authorization		**50**						**50**
Total Stormwater Retention Basin Revetments	2-197	**215**	**170**	**180**	**190**			**755**
Land Drainage Utility (formerly Land Drainage Utility Study and Implementation)	2-198				**400**	**100**		**500**
Development Agreement Paybacks								
- Developer Capacity Charges	2-199	**3,250**	**2,000**	**1,700**	**500**			**7,450**
Outfall Rehabilitation	2-200	**2,000**	**2,000**	**2,000**	**2,000**	**2,000**	**3,500**	**13,500**
Total Land Drainage and Flood Control		**8,895**	**6,900**	**6,590**	**6,070**	**3,100**	**4,500**	**36,055**
TOTAL WATER AND WASTE - GENERAL CAPITAL FUND		**8,895**	**6,900**	**6,590**	**6,070**	**3,100**	**4,500**	**36,055**

CAPITAL PROJECTS SUMMARY *(in Thousands of $)*	PAGE NO.	PRELIMINARY BUDGET Budget 2017	FORECAST 2018	2019	2020	2021	2022	6 YEAR TOTAL 2017 - 2022
WATERWORKS SYSTEM								
Waterworks System - Supply and Treatment								
Financed by Waterworks Retained Earnings:								
Shoal Lake Aqueduct Asset Preservation	2-201	**400**	**2,018**		**1,390**	**2,595**		**6,403**
Shoal Lake Aqueduct Intake Facility Rehabilitation	2-202	**3,223**	**50**		**1,225**	**1,330**		**5,828**
Aqueduct Condition Assessment and Rehabilitation (formerly Branch Aqueduct Condition Assessment and Rehabilitation)								
- Retained Earnings						**1,000**		**1,000**
- Transfer from Prior Year Authorization - Retained Earnings		**1,500**						**1,500**
Total Aqueduct Condition Assessment and Rehabilitation	2-203	**1,500**				**1,000**		**2,500**
Tache Booster Pumping Station								
- Retained Earnings		**300**			**4,036**			**4,336**
- Transfer from Prior Year Authorization - Retained Earnings		**1,200**						**1,200**
Total Tache Booster Pumping Station	2-204	**1,500**			**4,036**			**5,536**
Pumping Stations Reliability Upgrades								
- Retained Earnings		**884**						**884**
- Transfer from Prior Year Authorization - Retained Earnings		**2,775**						**2,775**
Total Pumping Stations Reliability Upgrades	2-205	**3,659**						**3,659**
Pumping Stations and Reservoirs Structural Upgrades	2-206		**400**	**400**	**400**			**1,200**
Chlorination Upgrading at Pumping Stations	2-207		**2,750**					**2,750**
Water Supervisory Control and Data Acquisition (SCADA) Upgrade								
- Retained Earnings							**775**	**775**
- Transfer from Prior Year Authorization - Retained Earnings		**8,033**						**8,033**
Total Water Supervisory Control and Data Acquisition (SCADA) Upgrade	2-208	**8,033**					**775**	**8,808**
Waterworks System Security Upgrades	2-210	**498**	**576**	**371**				**1,445**
Regulatory Assessment of Water System Infrastructure and Supply Sources	2-211					**575**		**575**
Water Treatment Plant Capacity Validation	2-212		**150**					**150**
Branch 1 Aqueduct at Seine River - Riverbank Stabilization (East Side)								
- Transfer from Prior Year Authorization - Retained Earnings	2-213	**950**						**950**

CAPITAL PROJECTS SUMMARY *(in Thousands of $)*	PAGE NO.	PRELIMINARY BUDGET Budget 2017	FORECAST 2018	2019	2020	2021	2022	6 YEAR TOTAL 2017 - 2022
Study of Backup Power Supply for Hurst Pumping Station (formerly Study of Natural Gas Powered Backup Pumps for Hurst Pumping Station)	2-214	**400**						**400**
Deacon Reservoir Cell Rehabilitation	2-215		**875**					**875**
Deacon Booster Pumping Station Suction Header Divider Wall and Valve	2-216		**1,000**					**1,000**
Hurst Pumping Station Building - Structural Repairs								
- Retained Earnings			**1,900**					**1,900**
- Transfer from Prior Year Authorization - Retained Earnings		**400**						**400**
Total Hurst Pumping Station Building - Structural Repairs	2-217	**400**	**1,900**					**2,300**
Deacon Site Flood Protection								
- Transfer from Prior Year Authorization - Retained Earnings	2-218	**1,825**						**1,825**
HVAC Upgrades at Pumping Stations	2-219		**4,900**					**4,900**
Ultraviolet Light Disinfection System Upgrade	2-220	**1,735**						**1,735**
Total Waterworks System - Supply and Treatment		**24,123**	**14,619**	**771**	**7,051**	**5,500**	**775**	**52,839**
Waterworks System - Distribution								
Financed by Waterworks Retained Earnings:								
Saskatchewan Avenue Water Main	2-221	**4,830**						**4,830**
Transcona Water Main Reliability Upgrade	2-222		**5,788**					**5,788**
Feeder Main Condition Assessment and Rehabilitation								
- Retained Earnings			**1,000**	**1,000**	**750**	**1,500**	**1,500**	**5,750**
- Transfer from Prior Year Authorization - Retained Earnings		**500**						**500**
Total Feeder Main Condition Assessment and Rehabilitation	2-223	**500**	**1,000**	**1,000**	**750**	**1,500**	**1,500**	**6,250**
Building Renovations - 1199 Pacific Avenue	2-224		**110**					**110**
Customer Billing and Work Management Systems Upgrades Program	2-225	**930**	**1,165**	**640**	**255**	**235**	**200**	**3,425**
Utility Asset Management System	2-226	**500**						**500**
Water Main Renewals								
- Water Main Renewal Reserve	2-227	**18,500**	**18,500**	**19,000**	**20,000**	**21,000**	**21,500**	**118,500**
Total Waterworks System - Distribution		**25,260**	**26,563**	**20,640**	**21,005**	**22,735**	**23,200**	**139,403**
TOTAL WATERWORKS SYSTEM (Utility Supported)		**49,383**	**41,182**	**21,411**	**28,056**	**28,235**	**23,975**	**192,242**

CAPITAL PROJECTS SUMMARY *(in Thousands of $)*	PAGE NO.	PRELIMINARY BUDGET Budget 2017	FORECAST 2018	2019	2020	2021	2022	6 YEAR TOTAL 2017 - 2022
SEWAGE DISPOSAL SYSTEM								
Sewage Disposal System - Treatment								
Financed by Sewage Disposal System Retained Earnings:								
Biosolids - Alternative Disposal Delivery and Management System	2-228		**22,050**					**22,050**
North End Sewage Treatment Plant (NEWPCC) - Nutrient Removal / Upgrade	2-229	**980**						**980**
West End Sewage Treatment Plant (WEWPCC) - Facilities Plan	2-230					**500**		**500**
Process Control System Master Plan and Upgrade								
- Retained Earnings			**9,000**					**9,000**
- Transfer from Prior Year Authorization - Retained Earnings		**1,000**						**1,000**
Total Process Control System Master Plan and Upgrade	2-231	**1,000**	**9,000**					**10,000**
Asset Refurbishment and Replacement Program								
- Retained Earnings			**4,000**	**6,000**	**6,000**	**2,000**	**2,000**	**20,000**
- Transfer from Prior Year Authorization - Retained Earnings		**2,000**						**2,000**
Total Asset Refurbishment and Replacement Program	2-233	**2,000**	**4,000**	**6,000**	**6,000**	**2,000**	**2,000**	**22,000**
Wastewater Hauling System Replacement (formerly Wastewater Hauling and Grease Trap Licensing Automation)	2-234	**1,000**						**1,000**
Total Sewage Disposal System - Treatment		**4,980**	**35,050**	**6,000**	**6,000**	**2,500**	**2,000**	**56,530**

CAPITAL PROJECTS SUMMARY *(in Thousands of $)*	PAGE NO.	PRELIMINARY BUDGET Budget 2017	FORECAST 2018	2019	2020	2021	2022	6 YEAR TOTAL 2017 - 2022
Sewage Disposal System - Collection								
Financed by Sewage Disposal System Retained Earnings:								
Arc Flash Hazard Analysis and Remediation	2-235	**424**	**499**	**512**	**65**			**1,500**
Lift Stations Upgrading	2-236	**2,332**	**2,722**	**2,870**	**3,028**	**6,250**	**6,250**	**23,452**
Plessis Road Interceptor	2-237	**7,300**						**7,300**
Kenaston Boulevard Interceptor	2-238						**6,800**	**6,800**
Combined Sewer Overflow and Basement Flood Management Strategy								
- Environmental Projects Reserve		**8,180**	**29,902**	**31,200**	**34,114**	**25,588**	**25,910**	**154,894**
- Transfer from Prior Year Authorization - Environmental Projects Reserve		**13,220**						**13,220**
Total Combined Sewer Overflow and Basement Flood Management Strategy	2-239	**21,400**	**29,902**	**31,200**	**34,114**	**25,588**	**25,910**	**168,114**
Comminutor Chamber Rehabilitation Program	2-241	**1,100**	**1,100**	**1,200**	**1,300**			**4,700**
Southwest Interceptor River Crossing	2-242						**250**	**250**
Wastewater Services Facilities Plan	2-243				**250**			**250**
River Crossings Monitoring and Rehabilitation								
- Retained Earnings					**800**	**800**	**585**	**2,185**
- Transfer from Prior Year Authorization - Retained Earnings		**360**						**360**
Total River Crossings Monitoring and Rehabilitation	2-244	**360**			**800**	**800**	**585**	**2,545**
Environmental Standards Laboratory Facility Plan	2-245						**500**	**500**
Water and Waste Department (WWD) Business Intelligence	2-246	**210**	**1,560**	**600**	**480**			**2,850**
Customer Billing and Work Management Systems Upgrades Program	2-247	**930**	**1,165**	**640**	**255**	**235**	**200**	**3,425**
Sewer Renewals								
- Sewer System Rehabilitation Reserve	2-248	**18,800**	**18,200**	**19,500**	**20,500**	**21,500**	**22,500**	**121,000**
Total Sewage Disposal System - Collection		**52,856**	**55,148**	**56,522**	**60,792**	**54,373**	**62,995**	**342,686**
TOTAL SEWAGE DISPOSAL SYSTEM		**57,836**	**90,198**	**62,522**	**66,792**	**56,873**	**64,995**	**399,216**

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CAPITAL PROJECTS SUMMARY *(in Thousands of $)*	PAGE NO.	PRELIMINARY BUDGET Budget 2017	FORECAST 2018	2019	2020	2021	2022	6 YEAR TOTAL 2017 - 2022
SOLID WASTE DISPOSAL SYSTEM								
Solid Waste Disposal System - Landfill								
Financed by Solid Waste Disposal Retained Earnings:								
Brady Road Resource Management Facility - Administration Building								
- Retained Earnings		**50**						**50**
- External Debt		**2,450**						**2,450**
- Transfer from Prior Year Authorization - Retained Earnings		**200**						**200**
Total Brady Road Resource Management Facility - Administration Building	2-249	**2,700**						**2,700**
Brady Road Resource Management Facility - Cell Construction - Phase 1	2-250	**699**		**1,907**		**2,004**		**4,610**
Brady Road Resource Management Facility - Cell Construction - Phase 2	2-251						**690**	**690**
Brady Road Resource Management Facility - Drainage, Roadways and Site Improvements								
- Retained Earnings		**200**	**3,800**					**4,000**
- External Debt			**400**					**400**
Total Brady Road Resource Management Facility - Drainage, Roadways and Site Improvements	2-252	**200**	**4,200**					**4,400**
Brady Road Resource Management Facility - Landfill Gas Capture Expansion - Phase 2								
- Brady Landfill Site Rehabilitation Reserve	2-253		**1,800**					**1,800**
Closed Landfill Site Improvement								
- Brady Landfill Rehabilitation Reserve		**96**	**193**	**280**				**569**
- Transfer from Prior Year Authorization - Retained Earnings		**86**						**86**
Total Closed Landfill Site Improvement	2-254	**182**	**193**	**280**				**655**
Miscellaneous Land Acquisition								
- Transfer from Prior Year Authorization - Retained Earnings	2-255	**800**						**800**
Total Solid Waste Disposal System - Landfill		**4,581**	**6,193**	**2,187**		**2,004**	**690**	**15,655**
Solid Waste Disposal System - Collection								
Financed by Solid Waste Disposal External Debt:								
Comprehensive Integrated Waste Management Strategy (CIWMS) - 4R Winnipeg Depots (Community Resource Recovery Centres)	2-256	**3,303**			**3,949**			**7,252**
CIWMS - Garbage and Recycling Cart Asset Management								
- Waste Diversion Reserve		**150**						**150**
- Transfer from Prior Year Authorization - Waste Diversion Reserve		**100**						**100**
Total CIWMS - Garbage and Recycling Cart Asset Management	2-257	**250**						**250**
Total Solid Waste Disposal System - Collection		**3,553**			**3,949**			**7,502**
TOTAL SOLID WASTE DISPOSAL SYSTEM		**8,134**	**6,193**	**2,187**	**3,949**	**2,004**	**690**	**23,157**

CAPITAL PROJECTS SUMMARY *(in Thousands of $)*	PAGE NO.	PRELIMINARY BUDGET						6 YEAR TOTAL
		Budget	FORECAST					
		2017	2018	2019	2020	2021	2022	2017 - 2022
WINNIPEG GOLF SERVICES								
Golf Course Amenities	2-258			**1,000**				**1,000**
TOTAL WINNIPEG GOLF SERVICES				**1,000**				**1,000**
TOTAL SPECIAL OPERATING AGENCIES				**1,000**				**1,000**

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The City of Winnipeg

Capital Project Detail

2017
Preliminary Capital Budget

and

2018 to 2022
Five Year Forecast

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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. In the attached Capital Projects Listing, tax supported capital projects are financed by cash to capital unless another funding source is disclosed for the project. In addition, Manitoba Winnipeg Infrastructure Agreement funding amounts are not all allocated to individual capital projects. This unallocated provincial funding will offset cash to capital requirements in project budgets.

3. The Public Service uses a cost estimate classification system based on the Association for the Advancement of Cost Engineering (AACE) International Recommended Practices for capital budget estimates - see Appendix 2.

Project Name: **Pedestrian and Cycling Program**

Standing Policy Committee: Infrastructure Renewal and Public Works

Department: Public Works
Project: 1832000117
Service: Roadway Construction and Maintenance
OurWinnipeg: Sustainability

AUTHORIZATION	Previous Budgets	2017 Estimate	FORECAST 2018	2019	2020	2021	2022	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	N/A *	4,700	5,400	5,400	5,400	5,400	5,400	27,000	31,700
Financed by:									
Cash to Capital		4,700	5,400	5,400	5,400	5,400	5,400	27,000	31,700

CASH FLOW	2017	2018	2019	2020	2021	2022	Beyond 2022	Total
Project Costs ($000's)	3,995	5,295	5,400	5,400	5,400	5,400	810	31,700
Financed by:								
Cash to Capital	3,995	5,295	5,400	5,400	5,400	5,400	810	31,700

NET OPERATING IMPACT ($000's)	2017	2018	2019
Operating costs			
External debt and finance charges			
Transfer to General Capital Fund	4,700	5,400	5,400
Total Direct Costs	4,700	5,400	5,400
Less: Incremental Revenue/Recovery	250	331	338
Net Cost/(Benefit)	4,450	5,069	5,062
Incremental Full Time Equivalent Positions	-	-	-

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

Projects in 2017 will not proceed to construction until a class 3 estimate is obtained.

The following projects included in the 2016 Adopted Capital Budget and Five Year Forecast: Recreational Walkways and Bicycle Paths, New Regional Sidewalks, New Non-Regional Sidewalks and Bicycle Corridors have been combined into one program - Pedestrian and Cycling Program.

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.

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 and Renewal and Public Works for recommendation to Council.

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.

Pedestrian and Cycling Program (continued):

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.

* 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. and have been identified by a Neighbourhood Based Consultation Program (for example a School Travel Plan or Neighbourhood Area Plan);
- 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)	2017	2018	2019	2020	2021	2022	Six-Year Total
New Regional Sidewalks:							
Dublin Ave north side -- St James St to King Edward St		300					300
Regional Street crossing improvements--locations to be determined		200					200
Various locations to be identified			500	500	500	500	2,000
New Non-Regional Sidewalks:							
Hazelwood Cres -- Wyoming St to Dr D W Penner school sidewalk	100						100
Weatherstone Place south side -- Pebble Beach to Lakewood Blvd	120						120
Vermillon Rd north side -- Lakewood Blvd to Beaverhill Blvd	300						300
Cornell Dr -- Linacre Rd to north of Fordham Bay	80						80
Templeton Avenue at Amber Trails crossing	30						30
Lakewood School Community Consultation & Study	20						20
Various locations to be identified		500	500	500	500	500	2,500
Bicycle Corridors:							
McDermot Ave Bike Lane Upgrades -- Arlington St to Sherbrook St Construction	1,000						1,000
Keewatin Street Pathway -- Burrows Ave to Inkster Blvd Construction	1,000						1,000
Sherbrook Street -- Cumberland Ave to McDermot Ave Construction	500						500
Wolseley Ave / Westminster Ave/ Balmoral St / Granite Way Preliminary Design		250					250
Waverley Street -- John Angus Drive to Victor Lewis Drive Preliminary Design		350					350
Princess Street -- Higgins Ave to Notre Dame Ave Functional Design		250					250
St Boniface West - East Corridor Study and Improvements		550	250				800
Leila Avenue Functional Bicycle Facility Study			250				250
Keewatin Street Pathway -- Burrows Ave to Gallagher Ave Functional Design			300				300
Bicycle Parking Partnership Grants	100	150	100				350
Pedestrian and Cycling Monitoring Data Processing	50						50
Enhance Delineation of Bike Lanes--Various Locations	150						150
Various locations to be identified				2,400	2,400	2,400	7,200
Recreational Walkways and Bicycle Paths:							
Transcona Trail -- Regent Ave to Panet Ave Property Acquisition & Construction	1,000	300	700				2,000
Yellow Ribbon Greenway Extension to St Matthews Ave Construction		700					700
Churchill Pathway -- Churchill Dr to Togo Ave Property Acquisition		1,350					1,350
Churchill Pathway - Churchill Dr to Togo Ave Construction			1,100				1,100
North Winnipeg Parkway -- James Ave to Pacific Ave Construction			500				500
Bishop Grandin North Side -- Waverley Ave to Sugar Beet Development Construction			300				300
North Winnipeg Parkway -- Rover Ave to Chief Peguis Trail Study			400				400

Pedestrian and Cycling Program (continued):

PEDESTRIAN AND CYCLING PROGRAM Authorization ($000's)	2017	2018	2019	2020	2021	2022	Six-Year Total
Southwest Rapid Transitway (Stage 2) Community Consultation			150				150
Various locations to be identified				1,700	1,700	1,700	5,100
Public Education, Awareness and Promotion:							
Partnership Grant Program:	150						150
International Trails Day $10,000							
Rivers West/Winnipeg Trails $20,000							
Bike Week Winnipeg $35,000							
Winnipeg Repair Education and Cycling Hub WRENCH $25,000							
Moveable Feast (Downtown Winnipeg BIZ) $1,250							
Pedal in the Peg - Bike Share program (Downtown Winnipeg BIZ) $1,750							
Bike Friendly Business Program (Downtown Winnipeg BIZ) $4,450							
Ciclovia (Downtown Winnipeg BIZ) $5,500							
Commuter Challenge (Green Action Centre) $20,000							
Bike to School Month (Green Action Centre) $10,000							
Bike Education and Skills Training (Green Action Centre) $15,000							
Community Youth Cycle Leadership & Education Program (Rivers East Neighbourhood Network) $2,050							
Various - to be identified		150	150				300
Total Partnership Grant Program	**150**	**150**	**150**	**-**	**-**	**-**	**450**
Communication and Education Strategy Preliminary Consultation	100						100
Communication and Education Strategy Roll-out		200					200
Bicycle Wayfinding Audit and Consultation		100					100
Safe Routes to School Study and Consultation		50	50				100
Bicycle Wayfinding Production and Installation			150				150
Various locations to be identified				300	300	300	900
Total Pedestrian and Cycling Program	**4,700**	**5,400**	**5,400**	**5,400**	**5,400**	**5,400**	**31,700**

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:

Project	2017	2018	2019	2020	2021	2022	Total
Ness Avenue Culvert (Sturgeon Creek)							
- AT path along Sturgeon Creek under the bridge	1,000						1,000
Fermor Avenue Bridge (Seine River)							
- Mixed use sidewalk on Bridge			1,000				1,000
Saskatchewan Avenue Culvert (Sturgeon Creek)							
- Mixed use sidewalk on Bridge		500					500
Lyndale Drive - Retaining Wall Rehabilitation							
- Mixed use path	500						500
REGIONAL STREET RENEWALS:							
Empress St / Empress St E / Westway / Eastway - St Matthews to Portage							
- protected bicycle lanes	1,600	1,400					3,000
Ellice Ave - Erin to Dominion							
- ** to be determined	**						-
Ellice Ave - Dominion to Arlington							
- ** to be determined	**						-
Pembina Hwy SB - Killarney to Dalhousie (South Leg)							
- buffered bike Lanes	1,200						1,200
Pembina Hwy NB - Dalhousie (South Leg) to Killarney							
- buffered bike Lanes	1,200						1,200
Pembina Hwy NB - De Vos to Dalhousie							
- buffered bike lanes	600						600
Pembina Hwy SB - Dalhousie to De Vos							
- buffered bike lanes	600						600
Garry/Notre Dame - Notre Dame to Assiniboine/Portage to Princess							
- two way protected bicycle lanes		7,000					7,000
Pembina Hwy NB - Ducharme to Cloutier							
- asphalt bike path		500					500
Ellice Ave - Arlington to Maryland							
-** to be determined			**				-
Ellice Ave - Balmoral to Notre Dame							
- ** to be determined			**				-
	6,700	**9,400**	**1,000**	**-**	**-**	**-**	**17,100**

Project Name: **Pedestrian and Cycling Grade Separations**

Standing Policy Committee: Infrastructure Renewal and Public Works

Department: Public Works
Project: 1832000516

Service: Roadway Construction and Maintenance
OurWinnipeg: Sustainability

AUTHORIZATION	Previous Budgets	2017 Estimate	FORECAST 2018	2019	2020	2021	2022	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	-	1,000	-	-	-	-	-	-	1,000
Financed by:									
Cash to Capital		1,000						-	1,000

CASH FLOW	2017	2018	2019	2020	2021	2022	Beyond 2022	Total
Project Costs ($000's)	850	150	-	-	-	-	-	1,000
Financed by:								
Cash to Capital	850	150						1,000

NET OPERATING IMPACT ($000's)	2017	2018	2019
Operating costs			
External debt and finance charges			
Transfer to General Capital Fund	1,000		
Total Direct Costs	1,000	-	-
Less: Incremental Revenue/Recovery	53	9	
Net Cost/(Benefit)	947	(9)	-
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: 3

Preliminary design work for potential new grade separations to ensure sufficient public engagement, risk reduction, and obtain class 3 cost estimates. The preliminary designs will support future applications for inter-governmental funding for cost sharing for future construction. $450,000 from the Bicycle Corridors account will be proposed to be added to this budgeted amount through the 2016 Pedestrian and Bicycle Action Plan.

These projects align with the Pedestrian Cycling Strategies report adopted by Council on July 15, 2015.

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

Standing Policy Committee: Infrastructure Renewal and Public Works

Department: Public Works
Project: 1807000117

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

AUTHORIZATION	Previous Budgets	2017 Estimate	FORECAST 2018	2019	2020	2021	2022	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	N/A *	5,000	8,737	-	16,113	-	-	24,850	29,850
Financed by:									
Cash to Capital		3,400	8,737		16,113			24,850	28,250
Transfer from Corporate Non-Specified Capital Account		1,600						-	1,600

CASH FLOW	2017	2018	2019	2020	2021	2022	Beyond 2022	Total
Project Costs ($000's)	5,000	8,737	-	16,113	-	-	-	29,850
Financed by:								
Cash to Capital	3,400	8,737		16,113				28,250
Transfer from Corporate Non-Specified Capital Account	1,600							1,600

NET OPERATING IMPACT ($000's)	2017	2018	2019
Operating costs			
External debt and finance charges			
Transfer to General Capital Fund	3,400	8,737	
Total Direct Costs	3,400	8,737	-
Less: Incremental Revenue/Recovery	313	546	
Net Cost/(Benefit)	3,087	8,191	-
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. Developers will provide class 3 estimates prior to commencing construction.

See next page for program details.

Developer Payback - Various Locations (continued):

Funds will be allocated to:	2017	2018	2019	2020	2021	2022	Total
Warde Avenue right-of-way purchase for future grade separation at the CPR Emerson Subdivision crossing. (AG 21/14)	300						300
Peguis Street between Ravelston Avenue West and Regent Avenue West: construction of two westerly lanes including boulevards, street lighting, land drainage sewers and a multi-use path (Asphalt AT path $310,000). (AG 11/11)	2,600						2,600
Ravelston Avenue West - from Peguis Street to westerly property limit of Development Application including pavement, sidewalks, street lighting, boulevards and land drainage sewers (Asphalt AT path $320,000). (AG 15/13 & AG11/11)	2,100						2,100
Twinning of Keewatin Street from north of Inkster Blvd to Adsum Drive and Dr. Jose Rizal Way from Adsum Drive to Water Ridge Path. (AG 15/12)		7,937					7,937
Extension of Warde Avenue from Lagimodiere Blvd to Blvd Des Hivernants. (AG 51/05)		800					800
Kildare Avenue extension. (AG 10/13)				16,113			16,113
	5,000	**8,737**	**-**	**16,113**	**-**	**-**	**29,850**

* 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: 1807000517
Service: Roadway Construction and Maintenance
OurWinnipeg: Opportunity

AUTHORIZATION	Previous Budgets	2017 Estimate	FORECAST 2018	2019	2020	2021	2022	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	12,826	2,049	2,045	2,034	2,024	830	-	6,933	8,982
Financed by:									
Economic Development Investment Reserve	4,726	2,049	2,045	2,034	2,024	830		6,933	8,982
Provincial Government Funding	8,000							-	-
Other	100							-	-

CASH FLOW	2017	2018	2019	2020	2021	2022	Beyond 2022	Total
Project Costs ($000's)	2,049	2,045	2,034	2,024	830	-	-	8,982
Financed by:								
Economic Development Investment Reserve	2,049	2,045	2,034	2,024	830			8,982

NET OPERATING IMPACT ($000's)	2017	2018	2019
Operating costs	2,069	2,065	2,054
External debt and finance charges			
Transfer to General Capital Fund			
Total Direct Costs	2,069	2,065	2,054
Less: Incremental Revenue/Recovery	2,116	2,111	2,100
Net Cost/(Benefit)	(47)	(46)	(46)
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 $4.726 million noted above comprise the previous budgets amount of $12.826 million.

Amounts budgeted from 2017 to 2021 represent repayment to the Developer of the remaining City contribution plus interest, approximately $8.982 million, and are equivalent to estimated incremental municipal realty and business taxes to be generated by the development over that period.

Project Name: **Transportation Master Plan**

Standing Policy Committee: Infrastructure Renewal and Public Works

Department: Public Works
Project: 1833000117

Service: Transportation Planning and Traffic Management
OurWinnipeg: Sustainability

AUTHORIZATION	Previous Budgets	2017 Estimate	FORECAST 2018	2019	2020	2021	2022	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	N/A *	-	250	250	250	250	250	1,250	1,250
Financed by:									
Cash to Capital			250	250	250	250	250	1,250	1,250

CASH FLOW	2017	2018	2019	2020	2021	2022	Beyond 2022	Total
Project Costs ($000's)	-	213	250	250	250	250	37	1,250
Financed by:								
Cash to Capital		213	250	250	250	250	37	1,250

NET OPERATING IMPACT ($000's)	2017	2018	2019
Operating costs			
External debt and finance charges			
Transfer to General Capital Fund		250	250
Total Direct Costs	-	250	250
Less: Incremental Revenue/Recovery		13	16
Net Cost/(Benefit)	-	237	234
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.

A comprehensive revision at an estimated cost of $1 million will need to be undertaken following the anticipated completion in 2019 of the update to OurWinnipeg and is not included in the budgets above.

* 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: 1831100117
Service: Transportation Planning and Traffic Management
OurWinnipeg: Sustainability

AUTHORIZATION	Previous Budgets	2017 Estimate	FORECAST 2018	2019	2020	2021	2022	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	N/A*	1,030	1,030	1,030	1,030	1,030	1,030	5,150	6,180
Financed by:									
Cash to Capital		1,030	1,030	1,030	1,030	1,030	1,030	5,150	6,180

CASH FLOW	2017	2018	2019	2020	2021	2022	Beyond 2022	Total
Project Costs ($000's)	876	1,030	1,030	1,030	1,030	1,030	154	6,180
Financed by:								
Cash to Capital	876	1,030	1,030	1,030	1,030	1,030	154	6,180

NET OPERATING IMPACT ($000's)	2017	2018	2019
Operating costs	193	219	252
External debt and finance charges			
Transfer to General Capital Fund	1,030	1,030	1,030
Total Direct Costs	1,223	1,249	1,282
Less: Incremental Revenue/Recovery	55	64	64
Net Cost/(Benefit)	1,168	1,185	1,218
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.
- 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: 1831100217
Service: Transportation Planning and Traffic Management
OurWinnipeg: Sustainability

AUTHORIZATION	Previous Budgets	2017 Estimate	FORECAST 2018	2019	2020	2021	2022	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	N/A *	250	250	250	250	250	250	1,250	1,500
Financed by:									
Cash to Capital		250	250	250	250	250	250	1,250	1,500

CASH FLOW	2017	2018	2019	2020	2021	2022	Beyond 2022	Total
Project Costs ($000's)	213	250	250	250	250	250	37	1,500
Financed by:								
Cash to Capital	213	250	250	250	250	250	37	1,500

NET OPERATING IMPACT ($000's)	2017	2018	2019
Operating costs	8	15	23
External debt and finance charges			
Transfer to General Capital Fund	250	250	250
Total Direct Costs	258	265	273
Less: Incremental Revenue/Recovery	13	16	16
Net Cost/(Benefit)	245	249	257
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: **Traffic Engineering Improvements - Various Locations**

Standing Policy Committee: Infrastructure Renewal and Public Works

Department: Public Works
Project: 1831000117

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

AUTHORIZATION	Previous Budgets	2017 Estimate	FORECAST 2018	2019	2020	2021	2022	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	N/A *	1,000	1,900	1,900	1,900	1,900	1,900	9,500	10,500
Financed by:									
Cash to Capital		1,000	1,900	1,900	1,900	1,900	1,900	9,500	10,500

CASH FLOW	2017	2018	2019	2020	2021	2022	Beyond 2022	Total
Project Costs ($000's)	850	1,765	1,900	1,900	1,900	1,900	285	10,500
Financed by:								
Cash to Capital	850	1,765	1,900	1,900	1,900	1,900	285	10,500

NET OPERATING IMPACT ($000's)	2017	2018	2019
Operating costs	8	15	23
External debt and finance charges			
Transfer to General Capital Fund	1,000	1,900	1,900
Total Direct Costs	1,008	1,915	1,923
Less: Incremental Revenue/Recovery	53	110	119
Net Cost/(Benefit)	955	1,805	1,804
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
- 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: **Kenaston Boulevard - Ness Avenue to Taylor Avenue**

Standing Policy Committee: Infrastructure Renewal and Public Works

Department: Public Works
Project: 1803000617

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

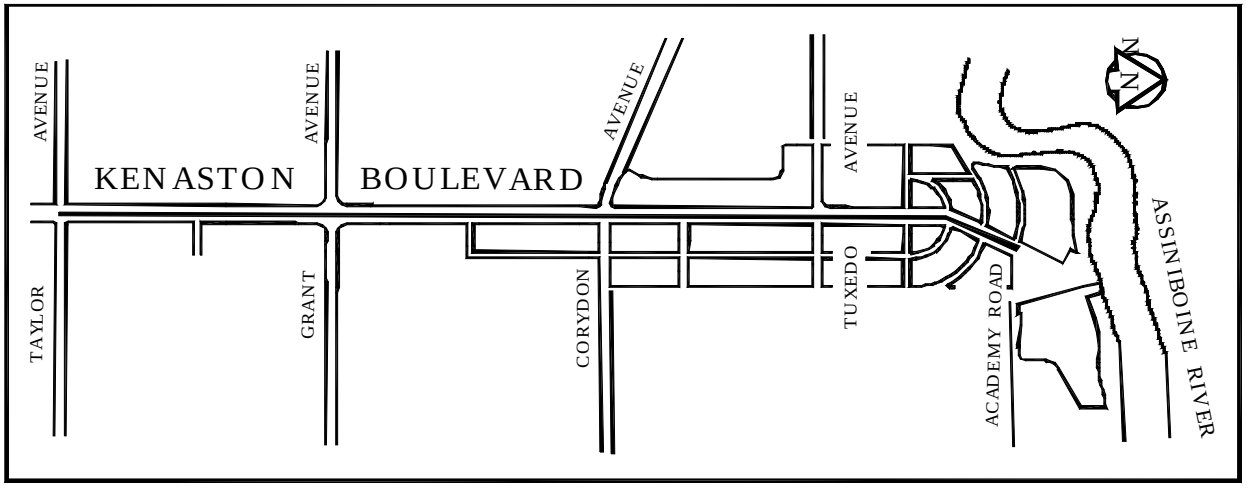
AUTHORIZATION	Previous Budgets	2017 Estimate	FORECAST 2018	2019	2020	2021	2022	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	3,300	100	100	100	100	100	100	500	600
Financed by:									
Cash to Capital		100	100	100	100	100	100	500	600

CASH FLOW	2017	2018	2019	2020	2021	2022	Beyond 2022	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)	2017	2018	2019
Operating costs			
External debt and finance charges			
Transfer to General Capital Fund	100	100	100
Total Direct Costs	100	100	100
Less: Incremental Revenue/Recovery	5	6	6
Net Cost/(Benefit)	95	94	94
Incremental Full Time Equivalent Positions	-	-	-

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

The estimate includes funding for the provision of maintenance of the roadway until the facility is reconstructed. On April 19, 1995, Council approved the expenditure of $100,000 annually until the construction of the permanent rehabilitation.



Project Name: **Henderson Highway North of Gilmore to City Limit**

Standing Policy Committee: Infrastructure Renewal and Public Works

Department: Public Works
Project: 1803000218

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

AUTHORIZATION	Previous Budgets	2017 Estimate	FORECAST 2018	2019	2020	2021	2022	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	-	-	700	-	-	-	-	700	700
Financed by:									
Cash to Capital			700					700	700

CASH FLOW	2017	2018	2019	2020	2021	2022	Beyond 2022	Total
Project Costs ($000's)	-	595	105	-	-	-	-	700
Financed by:								
Cash to Capital		595	105					700

NET OPERATING IMPACT ($000's)	2017	2018	2019
Operating costs			
External debt and finance charges			
Transfer to General Capital Fund		700	
Total Direct Costs		700	
Less: Incremental Revenue/Recovery		18	3
Net Cost/(Benefit)	-	682	(3)
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: 3

Funding in 2018 is for a preliminary design and class 3 construction estimate.

The preliminary design will consider urbanization of the roadway, provision of pedestrian and cycling accommodation, introduction of a median and associated access management. The preliminary design will also consider replacement of the existing box culvert at the Bunn's Creek crossing complete with a water control gate chamber.

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

Standing Policy Committee: Infrastructure Renewal and Public Works

Department: Public Works
Project: 1803000118

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

AUTHORIZATION	Previous Budgets	2017 Estimate	FORECAST 2018	2019	2020	2021	2022	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	-	-	2,000	2,000	2,000	-	-	6,000	6,000
Financed by:									
Cash to Capital			2,000	2,000	2,000			6,000	6,000

CASH FLOW	2017	2018	2019	2020	2021	2022	Beyond 2022	Total
Project Costs ($000's)	-	1,700	2,000	2,000	300	-	-	6,000
Financed by:								
Cash to Capital		1,700	2,000	2,000	300			6,000

NET OPERATING IMPACT ($000's)	2017	2018	2019
Operating costs			
External debt and finance charges			
Transfer to General Capital Fund		2,000	2,000
Total Direct Costs	-	2,000	2,000
Less: Incremental Revenue/Recovery		51	60
Net Cost/(Benefit)	-	1,949	1,940
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: 3

Commencement of a functional design study in 2018 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: **Kenaston Boulevard Southbound - From McGillivray To Bishop Grandin**

Standing Policy Committee: Infrastructure Renewal and Public Works

Department: Public Works
Project: 1803000117

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

AUTHORIZATION	Previous Budgets	2017 Estimate	FORECAST 2018	2019	2020	2021	2022	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	-	2,200	-	-	-	-	-	-	2,200
Financed by:									
Cash to Capital		1,100						-	1,100
Transfer from Prior Year Authorization		1,100						-	1,100

CASH FLOW	2017	2018	2019	2020	2021	2022	Beyond 2022	Total
Project Costs ($000's)	2,035	165	-	-	-	-	-	2,200
Financed by:								
Cash to Capital	935	165						1,100
Transfer from Prior Year Authorization	1,100							1,100

NET OPERATING IMPACT ($000's)	2017	2018	2019
Operating costs			
External debt and finance charges			
Transfer to General Capital Fund	1,100		
Total Direct Costs	1,100	-	-
Less: Incremental Revenue/Recovery	117	21	
Net Cost/(Benefit)	983	(21)	-
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: 3

This project includes the following components:

- Widen southbound Kenaston Boulevard by 3.7 meters to accommodate a new through lane commencing at the Petro-Canada southbound exit (150 meters south of the McGillivray intersection) and tying into the current north limit of the three lane section south of Scurfield Boulevard.

- Geometric improvements to the right turn cut-offs at Scurfield Boulevard and introduction of new southbound deceleration and acceleration lanes.

- Relocate traffic signal poles along west side of Kleyson Drive intersection.

- Relocate street light poles and utilities where necessary.

The project will provide an improved lane configuration for southbound traffic on Kenaston Boulevard based on accepted transportation engineering standards and practices. It will complete the originally intended design of the Waverley West Arterial Roads Project and reduce safety risks in the reduction of weaving maneuvers along a short distance approaching the Kenaston Boulevard/Bishop Grandin Boulevard flyover. The project is also expected to reduce traffic delays and balance lane use through the Kleyson Drive and Scurfield Boulevard intersections.

Funding in 2017 includes rebudgeted amounts from previously authorized capital projects - see Appendix 4.

Project Name: **Lagimodiere and Sage Creek - Southbound Double Left Turn**

Standing Policy Committee: Infrastructure Renewal and Public Works

Department: Public Works
Project: 1803000217

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

AUTHORIZATION	Previous Budgets	2017 Estimate	FORECAST 2018	2019	2020	2021	2022	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	-	500	-	-	-	-	-	-	500
Financed by:									
Cash to Capital		500						-	500

CASH FLOW	2017	2018	2019	2020	2021	2022	Beyond 2022	Total
Project Costs ($000's)	425	75	-	-	-	-	-	500
Financed by:								
Cash to Capital	425	75						500

NET OPERATING IMPACT ($000's)	2017	2018	2019
Operating costs			
External debt and finance charges			
Transfer to General Capital Fund	500		
Total Direct Costs	500	-	-
Less: Incremental Revenue/Recovery	27	5	
Net Cost/(Benefit)	473	(5)	-
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: 3

This project will provide two southbound left turn lanes and fully protected left turn phasing for this movement at the intersection of Lagimodiere Boulevard and Sage Creek Boulevard. The project is anticipated to reduce the safety risk associated with current protected-permissive left turn phasing and properly accommodate southbound left turn traffic volume, which is at a level consistent with a dual left turn treatment and continues to increase even with the recent opening of a second access to the Sage Creek Development at Lagimodiere Boulevard and Warde Avenue.

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

Standing Policy Committee: Infrastructure Renewal and Public Works

Department: Public Works
Project: 1804000117

Service: Roadway Construction and Maintenance
OurWinnipeg: Sustainability

AUTHORIZATION	Previous Budgets	2017 Estimate	FORECAST 2018	2019	2020	2021	2022	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	N/A *	105,180	106,282	107,361	108,420	127,583	130,368	580,014	685,194
Financed by:									
Cash to Capital		16,779	10,535	13,805	1,704	13,456	5,766	45,266	62,045
Frontage Levy						5,000	5,000	10,000	10,000
Federal Gas Tax / Interest		12,276	13,886	17,236	18,936	18,886	18,901	87,845	100,121
Provincial Building Manitoba Fund - Roads		14,000	14,000	7,000	7,000	7,000	7,000	42,000	56,000
Provincial Road Investment Fund		9,000	9,000					9,000	18,000
Provincial Manitoba Winnipeg Infrastructure Fund		5,000	5,000	5,000				10,000	15,000
Local Street Renewal Reserve / Interest		23,278	28,122	33,352	38,582	43,812	49,042	192,910	216,188
Regional Street Renewal Reserve / Interest		18,937	23,739	28,968	34,198	39,429	44,659	170,993	189,930
External Debt		4,200	2,000	2,000	8,000			12,000	16,200
Transfer from Corporate Non-Specified Account		1,710						-	1,710

CASH FLOW	2017	2018	2019	2020	2021	2022	Beyond 2022	Total
Project Costs ($000's)	94,489	105,531	104,801	108,412	123,509	129,952	18,501	685,195
Financed by:								
Cash to Capital	14,262	11,472	13,315	3,519	11,693	6,920	865	62,046
Frontage Levy					4,250	5,000	750	10,000
Federal Gas Tax / Interest	10,435	13,645	16,734	18,681	18,894	18,899	2,833	100,121
Provincial Building Manitoba Fund - Roads	14,000	14,000	7,000	7,000	7,000	7,000		56,000
Provincial Road Investment Fund	9,000	9,000						18,000
Provincial Manitoba Winnipeg Infrastructure Fund	5,000	5,000	5,000					15,000
Local Street Renewal Reserve / Interest	19,786	27,395	32,568	37,798	43,028	48,258	7,355	216,188
Regional Street Renewal Reserve / Interest	16,096	23,019	28,184	33,414	38,644	43,875	6,698	189,930
External Debt	4,200	2,000	2,000	8,000				16,200
Transfer from Corporate Non-Specified Account	1,710							1,710

NET OPERATING IMPACT ($000's)	2017	2018	2019
Operating costs			
External debt and finance charges	166	348	489
Transfer to General Capital Fund	16,779	10,535	13,805
Total Direct Costs	16,945	10,883	14,294
Less: Incremental Revenue/Recovery	4,421	4,921	5,206
Net Cost/(Benefit)	12,524	5,962	9,088
Incremental Full Time Equivalent Positions	-	-	-

Regional and Local Street Renewal (continued):

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

Projects in 2017 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.

The Director of Public Works may be required to reallocate streets between the regular and enhanced programs based on financing requirements.

Subsequent to the adoption of the 2014 Capital Budget, the Province announced in its 2014 budget an additional $9 million for roads. Then further announced that this funding would be extended for five years (2014 - 2018).

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

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. The purpose of this program is to maintain the level of service, structural integrity, and rideability of the transportation infrastructure network.

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 the non-specified capital account.

Any new projects using surplus funds in the 2017 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 each year ensures 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.

The regular regional street renewal program includes incremental cash to capital of $11 million in 2017 ($40 million planned over a 4-year period commenced in 2015 terminating in 2018).

See next pages for program details.

Regional and Local Street Renewal (continued):

Local Street Renewal Program

The Local Street Renewal program includes the renewal and reconstruction of the City's local streets, sidewalks, lanes, and recreational walkways/paths. The purpose of this program is to maintain the level of service, structural integrity, and rideability of the transportation infrastructure network.

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 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.

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 the non-specified capital account.

Any new projects using surplus funds in the 2017 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 each year ensures a dedicated funding stream for local streets.

Subsequent to the adoption of the 2013 capital budget, the Province committed an additional $7 million for residential streets for three years (2013, 2014 and 2015) through the provincial Local Street Improvement Program. As part of the 2014 Provincial Budget, the Province committed an additional $21 million for the Local Street Improvement Fund for three years ($7 million each year) starting in 2016.

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.

On July 13, 2016 Council approved a first charge on the 2017 Capital Budget of up to $8 million to allow extension of existing contracts to ensure timely delivery of local street renewals.

See next pages for program details.

Regional and Local Street Renewal (continued):

REGIONAL STREET RENEWAL PROGRAM Authorization ($000's)	2017	2018	2019	2020	2021	2022	Six-Year Total
Enhanced Regional Streets and Sidewalks Renewal funded by:							
- Regional Street Renewal Reserve	18,937	23,739	28,968	34,198	39,429	44,659	189,930
Sub-total Enhanced Regional Streets and Sidewalks Renewal	**18,937**	**23,739**	**28,968**	**34,198**	**39,429**	**44,659**	**189,930**
Regional Reconstruction & Major Rehabilitation Works:							
Empress St / Empress St E / Westway / Eastway - St. Matthews to Portage	6,000	11,400					17,400
Salter - Inkster to Cathedral	3,900						3,900
Pembina Hwy NB - Dalhousie (South Leg) to Killarney	4,200						4,200
Pembina Hwy SB - Killarney to Dalhousie (South Leg)	1,900						1,900
Pembina Hwy NB - De Vos to Dalhousie (South Leg)	1,600						1,600
Pembina NB - Ducharme to Cloutier		2,800					2,800
McPhillips St NB - Logan to Jarvis		3,300					3,300
McPhillips St SB - Jarvis to Logan		3,300					3,300
Garry/Notre Dame - Notre Dame to Assiniboine/Portage to Princess (part 2 of 2)		2,239					2,239
Ellice Ave - Arlington to Maryland			3,100				3,100
Ellice Ave - Balmoral to Notre Dame			4,200				4,200
Smith - Portage to Notre Dame			2,600				2,600
Smith - Graham to Portage			1,100				1,100
Smith - St Mary's to Graham			600				600
Smith - Bridge to St Mary's			4,100				4,100
Inkster WB - Fife to Milner			4,600				4,600
McGregor - Selkirk to Mountain			8,000				8,000
St Anne's NB - Fermor to Kingwood			600				600
Regional Mill and Fill Preservation Works:							
Pembina SB - Dalhousie (South Leg) to De Vos	500						500
Pembina SB - Cloutier to Ducharme	800						800
McPhillips SB - Swailes to Leila		700					700
Regional Street Renewals - Annual Program - Various locations to be identified.	37		68	34,198	39,429	44,659	118,391
Total Enhanced Regional Street Renewal Program	**18,937**	**23,739**	**28,968**	**34,198**	**39,429**	**44,659**	**189,930**

Regional and Local Street Renewal (continued):

REGIONAL STREET RENEWAL PROGRAM Authorization ($000's)	2017	2018	2019	2020	2021	2022	Six-Year Total
Regular Regional Program:							
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
Regional Accessibility Improvements:							
Detectable Warning Surface Tiles - Regional Streets	100	100	100	100	100	100	600
Downtown Streets:							
Sidewalk, Curb, and Street Renewals	1,500	1,500	1,500	1,500	1,500	1,500	9,000
Regional Reconstruction & Major Rehabilitation Works:							
St James St - Sargent to Ellice	1,000	3,700					4,700
McGillivray WB - Fennel to Waverley	2,000						2,000
Donald Street - Notre Dame to Portage	2,800						2,800
Ellice Ave - Erin to Dominion	2,300						2,300
Ellice Ave - Dominion to Arlington	6,300						6,300
Taylor St EB - Stafford to Pembina	1,000						1,000
Taylor St WB - Pembina to Stafford	1,000						1,000
Provencher EB - Des Meurons to Archibald	1,700						1,700
Garry/Notre Dame - Notre Dame to Assiniboine/Portage to Princess (part 1 of 2)	2,900	10,261					13,161
Stafford St - Grant to Corydon			3,400				3,400
Stafford St - Pembina to Grant			3,200				3,200
York - Osborne to Memorial			800				800
Colony NB - Portage to Ellice			900				900
Colony SB - Ellice to Portage			900				900
Memorial NB - St Mary's Ave to Portage Ave			1,100				1,100
Memorial NB - York to St Mary's Ave			900				900
Roblin Blvd EB - Assiniboine Park Drive to Shaftesbury			5,500				5,500
St James - Dublin to Saskatchewan			2,500				2,500
Broadway WB - Kennedy to Memorial			700				700
Regional Mill and Fill Preservation Works:							
Ness EB - Moray to Braintree	200						200
Princess SB - William to Donald	300						300
Broadway - Borrowman to Portage	400						400
Broadway - Borrowman to Sherbrook	400						400
Lagimodiere NB - Dugald to Regent Ave W	700						700
McPhillips NB - Redwood to College	200						200
McPhillips SB - Mountain to Redwood	300						300
Memorial SB - Portage to St Mary's Ave			400				400
Regional Street Renewals - Annual Program - Various locations to be identified.	65	60	341	11,240	22,942	15,267	49,915
Total Regular Regional Street Renewal Program	**25,915**	**16,371**	**22,991**	**13,590**	**25,292**	**17,617**	**121,776**
Total Enhanced and Regular Regional Street Renewal Program	**44,852**	**40,110**	**51,959**	**47,788**	**64,721**	**62,276**	**311,706**

Regional and Local Street Renewal (continued):

LOCAL STREET RENEWAL PROGRAM Authorization ($000's)	2017	2018	2019	2020	2021	2022	Six-Year Total
Enhanced Local Streets, Lanes and Sidewalks Renewal funded by:							
- Local Street Renewal Reserve	23,278	28,122	33,352	38,582	43,812	49,042	216,188
Sub-total Enhanced Local Streets, Lanes and Sidewalks Renewal	**23,278**	**28,122**	**33,352**	**38,582**	**43,812**	**49,042**	**216,188**
Regular Local Street Program:							
Local Street Renewals - Various Locations - Provincial funding	14,000	14,000	7,000	7,000	7,000	7,000	56,000
Local Street Renewals - Various Locations - Provincial funding	9,000	9,000					18,000
Other Local Street Renewals - Various Locations	2,000	3,000	3,000	3,000			11,000
Granular Roadway Improvements:							
- Type II Road Oiling	500	500	500	500	500	500	3,000
- Granular Lane Improvement Program	1,000	2,000	1,000				4,000
- Loudoun Rd - Wilkes Ave to Four Mile Rd	1,500						1,500
- Waverley Street - Grandmont to the City Limit		500	1,500	1,000			3,000
- To be determined				1,500	2,500	2,500	6,500
Sub-total Granular Roadway Improvements	**3,000**	**3,000**	**3,000**	**3,000**	**3,000**	**3,000**	**18,000**
Lane Renewals - Various Locations	2,750	2,750	2,750	2,750	2,750	2,750	16,500
Sidewalk Renewals on Local Streets - Various Locations	800	800	800	800	800	800	4,800
Local Thin Bituminous Overlay (TBO)	5,000	5,000	5,000	5,000	5,000	5,000	30,000
Recreational Walkways and Bike Pathway Renewals	500	500	500	500	500	500	3,000
Sub-total Regular Local Street Renewal Program	**37,050**	**38,050**	**22,050**	**22,050**	**19,050**	**19,050**	**157,300**
Total Local Street Renewal Program	**60,328**	**66,172**	**55,402**	**60,632**	**62,862**	**68,092**	**373,488**
Total Regional and Local Street Renewal Program	**105,180**	**106,282**	**107,361**	**108,420**	**127,583**	**130,368**	**685,194**

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	2017 Estimate	FORECAST 2018	2019	2020	2021	2022	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	1,000	1,200	10,100	6,700	-	-	-	16,800	18,000
Financed by:									
Cash to Capital			1,000	1,000				2,000	2,000
Frontage Levy		1,200	9,100	5,700				14,800	16,000

CASH FLOW	2017	2018	2019	2020	2021	2022	Beyond 2022	Total
Project Costs ($000's)	1,020	8,765	7,210	1,005	-	-	-	18,000
Financed by:								
Cash to Capital		850	1,000	150				2,000
Frontage Levy	1,020	7,915	6,210	855				16,000

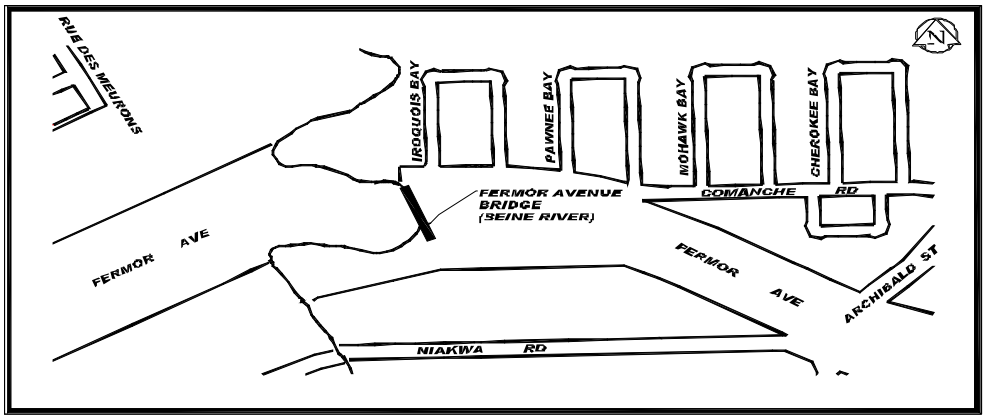
NET OPERATING IMPACT ($000's)	2017	2018	2019
Operating costs			
External debt and finance charges			
Transfer to General Capital Fund		1,000	1,000
Total Direct Costs	-	1,000	1,000
Less: Incremental Revenue/Recovery	64	548	451
Net Cost/(Benefit)	(64)	452	549
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: 4

Preliminary design work in 2016 will provide a class 3 estimate prior to construction in 2018.

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. Preliminary design commenced in 2016 and includes identification of property requirements and development of a class 3 construction estimate. Detailed design will occur in 2017 including commencement of property acquisition, if required. Construction will be staged over 2018 and 2019.

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



Project Name: **Saskatchewan Avenue Culvert (Sturgeon Creek)**

Standing Policy Committee: Infrastructure Renewal and Public Works

Department: Public Works
Project: 1805002016

Service: Roadway Construction and Maintenance
OurWinnipeg: Sustainability

AUTHORIZATION	Previous Budgets	2017 Estimate	FORECAST 2018	2019	2020	2021	2022	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	1,000	1,000	8,000	-	-	-	-	8,000	9,000
Financed by:									
Cash to Capital			7,100					7,100	7,100
Frontage Levy		1,000	900					900	1,900

CASH FLOW	2017	2018	2019	2020	2021	2022	Beyond 2022	Total
Project Costs ($000's)	850	6,950	1,200	-	-	-	-	9,000
Financed by:								
Cash to Capital		6,035	1,065					7,100
Frontage Levy	850	915	135					1,900

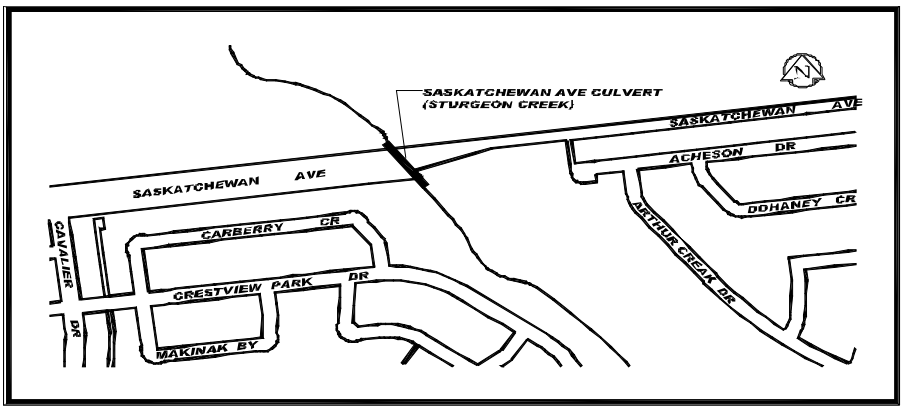
NET OPERATING IMPACT ($000's)	2017	2018	2019
Operating costs			
External debt and finance charges			
Transfer to General Capital Fund		7,100	
Total Direct Costs	-	7,100	-
Less: Incremental Revenue/Recovery	53	434	75
Net Cost/(Benefit)	(53)	6,666	(75)
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: 4

Preliminary design work in 2016 will provide a class 3 estimate prior to construction in 2018.

Replace existing culvert structure with a new bridge. Preliminary engineering and property acquisition commenced in 2016. Detailed engineering in 2017, and construction in 2018.

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



Project Name: **Lyndale Drive - Retaining Wall Rehabilitation**

Standing Policy Committee: Infrastructure Renewal and Public Works

Department: Public Works
Project: 1805001715
Service: Roadway Construction and Maintenance
OurWinnipeg: Sustainability

AUTHORIZATION	Previous Budgets	2017 Estimate	FORECAST 2018	2019	2020	2021	2022	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	1,200	5,000	-	-	-	-	-	-	5,000
Financed by:									
Frontage Levy		3,500						-	3,500
Provincial Funding for Road Improvements		1,500						-	1,500

CASH FLOW	2017	2018	2019	2020	2021	2022	Beyond 2022	Total
Project Costs ($000's)	4,250	750	-	-	-	-	-	5,000
Financed by:								
Frontage Levy	2,975	525						3,500
Provincial Funding for Road Improvements	1,275	225						1,500

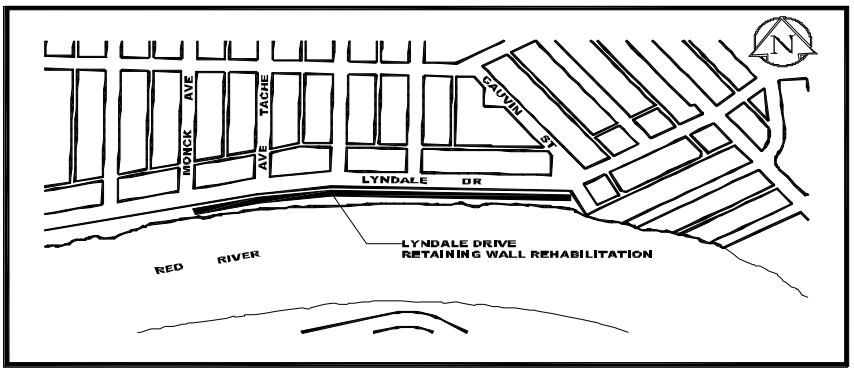
NET OPERATING IMPACT ($000's)	2017	2018	2019
Operating costs			
External debt and finance charges			
Transfer to General Capital Fund			
Total Direct Costs	-	-	-
Less: Incremental Revenue/Recovery	272	48	
Net Cost/(Benefit)	(272)	(48)	-
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: 3

This retaining wall forms part of the Lyndale Drive primary dike system between Monck Avenue and Gauvin Street. The total estimated budget requirement is $6,200,000 with $700,000 in 2015 for preliminary design, $500,000 in 2016 for detailed design, and $5,000,000 in 2017 for construction.

The retaining wall is being removed in favour of riverbank stabilization.

On December 10, 2014 Council approved a first charge on the 2015 Capital Budget of up to $500,000 to allow award of contracts to ensure timely delivery of projects.



Project Name: **Osborne Street Underpass**

Standing Policy Committee: Infrastructure Renewal and Public Works

Department: Public Works
Project: 1805002319

Service: Roadway Construction and Maintenance
OurWinnipeg: Sustainability

AUTHORIZATION	Previous Budgets	2017 Estimate	FORECAST 2018	2019	2020	2021	2022	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	-	-	-	2,500	-	-	-	2,500	2,500
Financed by:									
Frontage Levy				1,250				1,250	1,250
Provincial Funding for Road Improvements				1,250				1,250	1,250

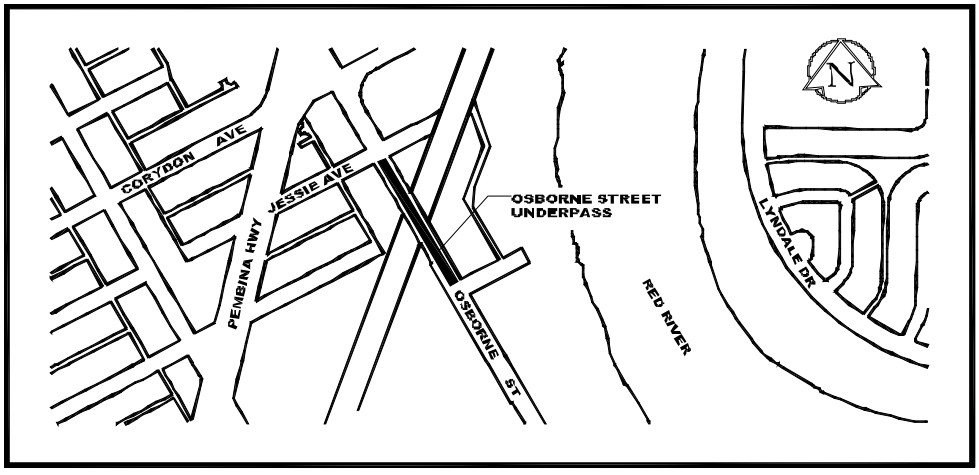
CASH FLOW	2017	2018	2019	2020	2021	2022	Beyond 2022	Total
Project Costs ($000's)	-	-	2,126	374	-	-	-	2,500
Financed by:								
Frontage Levy			1,063	187				1,250
Provincial Funding for Road Improvements			1,063	187				1,250

NET OPERATING IMPACT ($000's)	2017	2018	2019
Operating costs			
External debt and finance charges			
Transfer to General Capital Fund			
Total Direct Costs	-	-	-
Less: Incremental Revenue/Recovery			64
Net Cost/(Benefit)	-	-	(64)
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: 4

2019 - Project budget shown is to undertake conceptual study/design, preliminary design, property acquisition, public consultation, and development of a class 3 cost estimate.

Upon completion of the preliminary design, 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	2017 Estimate	FORECAST 2018	2019	2020	2021	2022	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	-	-	700	700	6,800	-	-	8,200	8,200
Financed by:									
Cash to Capital			700					700	700
Frontage Levy				700	6,800			7,500	7,500

CASH FLOW	2017	2018	2019	2020	2021	2022	Beyond 2022	Total
Project Costs ($000's)	-	595	700	5,885	1,020	-	-	8,200
Financed by:								
Cash to Capital		595	105					700
Frontage Levy			595	5,885	1,020			7,500

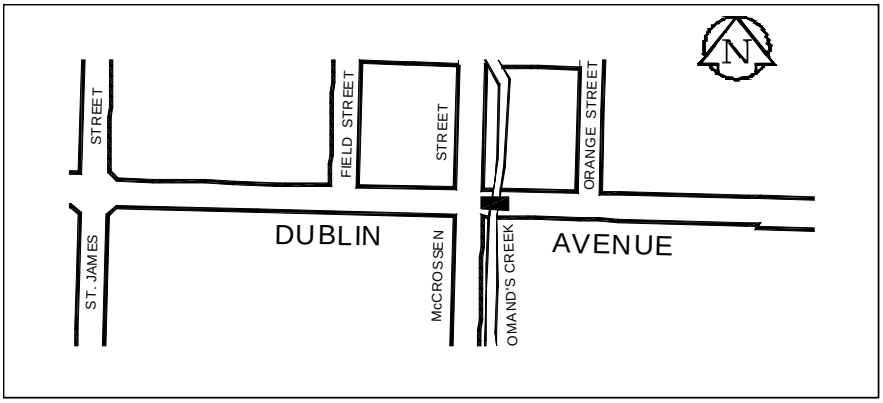
NET OPERATING IMPACT ($000's)	2017	2018	2019
Operating costs			
External debt and finance charges			
Transfer to General Capital Fund		700	
Total Direct Costs	-	700	-
Less: Incremental Revenue/Recovery		18	21
Net Cost/(Benefit)	-	682	(21)
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: 4

Project will encompass replacement of the Dublin Avenue Bridge over Omand's Creek and the rehabilitation of Dublin Avenue between Midland Avenue and Field Street.

2018 - preliminary design for bridge replacement, 2019 - detailed design, 2020 - construction.

The bridge replacement will provide a 75-year service life.



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	2017 Estimate	FORECAST 2018	2019	2020	2021	2022	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	-	-	-	700	2,800	-	-	3,500	3,500
Financed by:									
Cash to Capital				700				700	700
Frontage Levy					2,800			2,800	2,800

CASH FLOW	2017	2018	2019	2020	2021	2022	Beyond 2022	Total
Project Costs ($000's)	-	-	595	2,485	420	-	-	3,500
Financed by:								
Cash to Capital			595	105				700
Frontage Levy				2,380	420			2,800

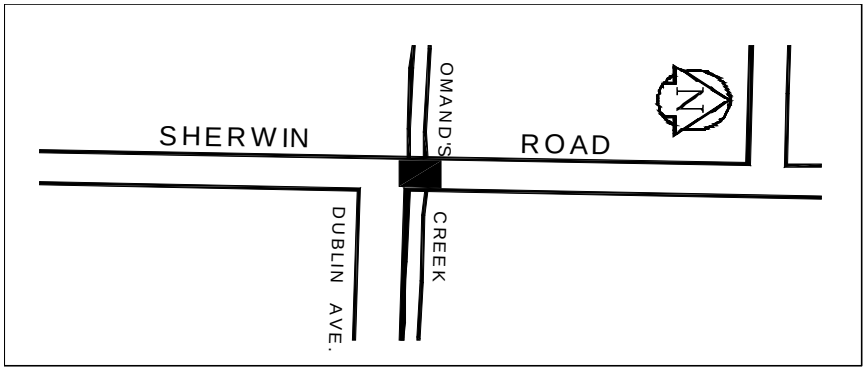
NET OPERATING IMPACT ($000's)	2017	2018	2019
Operating costs			
External debt and finance charges			
Transfer to General Capital Fund			700
Total Direct Costs	-	-	700
Less: Incremental Revenue/Recovery			18
Net Cost/(Benefit)	-	-	682
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: 4

2019 - Preliminary and detailed design for replacement of the culvert and improvement of the intersection of Sherwin Road and Dublin Avenue.

2020 - Construction.

The replacement structure will have a service life of 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

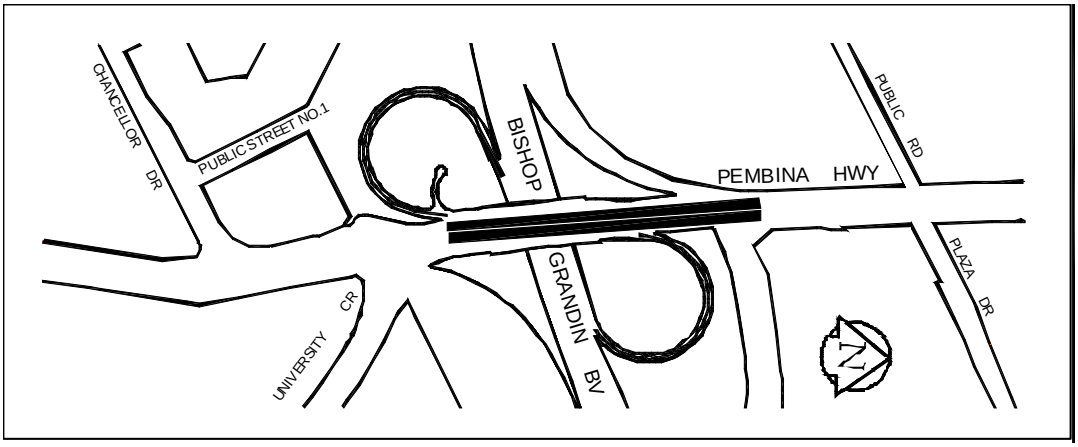
AUTHORIZATION	Previous Budgets	2017 Estimate	FORECAST 2018	2019	2020	2021	2022	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	-	-	-	-	1,000	2,000	9,000	12,000	12,000
Financed by:									
Cash to Capital					1,000	1,000	9,000	11,000	11,000
Frontage Levy					-	1,000		1,000	1,000

CASH FLOW	2017	2018	2019	2020	2021	2022	Beyond 2022	Total
Project Costs ($000's)	-	-	-	850	1,850	7,950	1,350	12,000
Financed by:								
Cash to Capital				850	1,000	7,800	1,350	11,000
Frontage Levy					850	150		1,000

NET OPERATING IMPACT ($000's)	2017	2018	2019
Operating costs			
External 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 overpass on Pembina Highway over Bishop Grandin will require bridge deck rehabilitation including reconstruction of the exit loop ramps. 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.



Project Name: **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	2017 Estimate	FORECAST 2018	2019	2020	2021	2022	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	-	3,245	-	2,163	-	-	-	2,163	5,408
Financed by:									
Frontage Levy		3,245		2,163				2,163	5,408

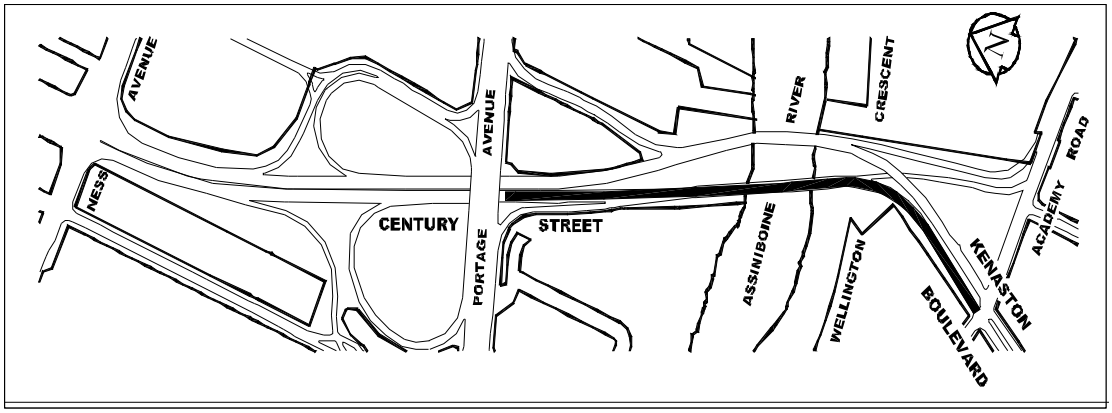
CASH FLOW	2017	2018	2019	2020	2021	2022	Beyond 2022	Total
Project Costs ($000's)	2,758	487	1,839	324	-	-	-	5,408
Financed by:								
Frontage Levy	2,758	487	1,839	324				5,408

NET OPERATING IMPACT ($000's)	2017	2018	2019
Operating costs			
External debt and finance charges			
Transfer to General Capital Fund			
Total Direct Costs	-	-	-
Less: Incremental Revenue/Recovery	83	15	55
Net Cost/(Benefit)	(83)	(15)	(55)
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: 4 - applies to preliminary design only

Future widening of Kenaston Boulevard will include modifications and rehabilitation of the St. James Northbound Bridge and will require replacement of the St. James Southbound Bridge. Funding of $3.245 million in 2017 is for preliminary bridge design of both the southbound and northbound bridges. Funding of $2.163 million in 2019 is for detailed design and commencement of property acquisition for St. James Southbound Bridge.

Due to age related deterioration, it is anticipated that rehabilitation or reconstruction works for the St. James Southbound Bridge need to commence by 2020. The preliminary design will also determine a recommended time frame for the rehabilitation or reconstruction of the St. James Northbound Bridge.



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

Standing Policy Committee: Infrastructure Renewal and Public Works

Department: Public Works
Project: 1805002721
Service: Roadway Construction and Maintenance
OurWinnipeg: Sustainability

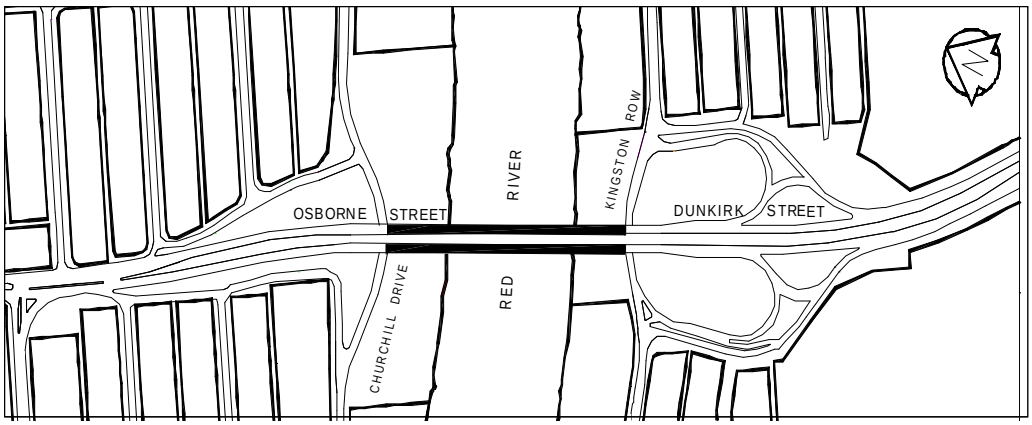
AUTHORIZATION	Previous Budgets	2017 Estimate	FORECAST 2018	2019	2020	2021	2022	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	-	-	-	-	-	1,000	3,000	4,000	4,000
Financed by:									
Frontage Levy						1,000	3,000	4,000	4,000

CASH FLOW	2017	2018	2019	2020	2021	2022	Beyond 2022	Total
Project Costs ($000's)	-	-	-	-	850	2,700	450	4,000
Financed by:								
Frontage Levy				-	850	2,700	450	4,000

NET OPERATING IMPACT ($000's)	2017	2018	2019
Operating costs			
External 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 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 2021 is for preliminary design. Funding identified in 2022 is for detailed design and construction is expected to be staged over two years in 2023 and 2024. 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: 1805000117

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

AUTHORIZATION	Previous Budgets	2017 Estimate	FORECAST 2018	2019	2020	2021	2022	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	N/A *	3,000	3,000	3,000	3,000	3,000	3,000	15,000	18,000
Financed by:									
Cash to Capital		1,945	3,000	2,813	2,600		1000	9,413	11,358
Frontage Levy		1,055		187	400	3,000	2,000	5,587	6,642

CASH FLOW	2017	2018	2019	2020	2021	2022	Beyond 2022	Total
Project Costs ($000's)	2,550	3,000	3,000	3,000	3,000	3,000	450	18,000
Financed by:								
Cash to Capital	1653	2,842	2,841	2,632	390	850	150	11,358
Frontage Levy	897	158	159	368	2,610	2,150	300	6,642

NET OPERATING IMPACT ($000's)	2017	2018	2019
Operating costs			
External debt and finance charges			
Transfer to General Capital Fund	1,945	3,000	2,813
Total Direct Costs	1,945	3,000	2,813
Less: Incremental Revenue/Recovery	159	188	188
Net Cost/(Benefit)	1,786	2,812	2,625
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: 1805001117
Service: Roadway Construction and Maintenance
OurWinnipeg: Sustainability

AUTHORIZATION	Previous Budgets	2017 Estimate	FORECAST 2018	2019	2020	2021	2022	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	-	-	-	-	-	-	-	-	-
Financed by:									
Cash to Capital		910	865	662	650	550	600	3,327	4,237
Federal Gas Tax		17,415	17,385	14,238	12,550	12,700	12,700	69,573	86,988
Public Private Partnership Annual Service / Financing Payments		(11,909)	(11,959)	(11,993)	(12,014)	(12,064)	(12,114)	(60,144)	(72,053)
Debt servicing - repayment of debt		(6,416)	(6,291)	(2,907)	(1,186)	(1,186)	(1,186)	(12,756)	(19,172)

CASH FLOW	2017	2018	2019	2020	2021	2022	Beyond 2022	Total
Project Costs ($000's)	18,325	18,250	14,900	13,200	13,250	13,300	310,487	401,712
Financed by:								
Cash to Capital	910	865	662	650	550	600	1,600	5,837
Federal Gas Tax	17,415	17,385	14,238	12,550	12,700	12,700	308,887	395,875

NET OPERATING IMPACT ($000's)	2017	2018	2019
Operating costs			
External debt and finance charges			
Transfer to General Capital Fund	910	865	662
Total Direct Costs	910	865	662
Less: Incremental Revenue/Recovery	596	593	484
Net Cost/(Benefit)	314	272	178
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 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 2016 is $11.7 million and will be repaid over a period of 3 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.

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.

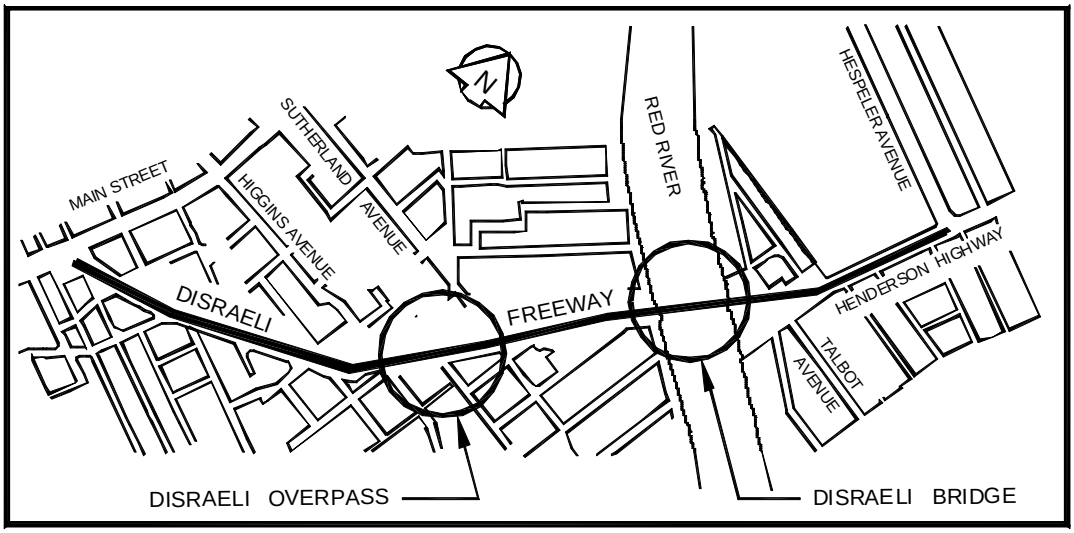
Disraeli Bridge and Overpass Facility (continued):

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 2018 is $4 million and represents 22% of the 2018 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: 1805001017

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

AUTHORIZATION	Previous Budgets	2017 Estimate	FORECAST 2018	2019	2020	2021	2022	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	2017	2018	2019	2020	2021	2022	Beyond 2022	Total
Project Costs ($000's)	1,478	1,478	1,478	1,478	1,478	1,478	2,956	11,824
Financed by:								
Cash to Capital - See Note	1,478	1,478	1,478	1,478	1,478	1,478	2,956	11,824

NET OPERATING IMPACT ($000's)	2017	2018	2019
Operating costs			
External 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	-	-	-

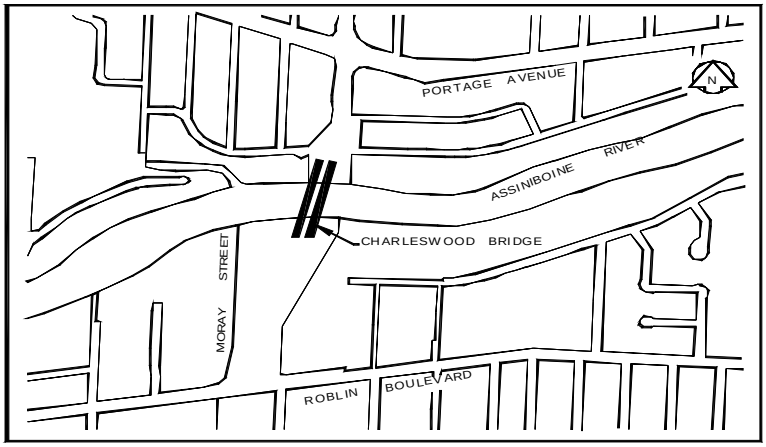
Class Estimate: Not Applicable

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.

Note: Cash flow beyond 2022 equals payments to 2024.



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

Standing Policy Committee: Infrastructure Renewal and Public Works

Department: Public Works
Project: 1801000217

Service: Roadway Construction and Maintenance
OurWinnipeg: Sustainability

AUTHORIZATION	Previous Budgets	2017 Estimate	FORECAST 2018	2019	2020	2021	2022	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	-	-	-	-	-	-	-	-	-
Financed by:									
Cash to Capital		860	950	1,193	1,250	1,395	1,475	6,263	7,123
Federal Gas Tax		6,325	6,280	6,077	6,065	5,965	5,950	30,337	36,662
Public Private Partnership Annual Service / Financing Payments		(6,206)	(6,251)	(6,291)	(6,336)	(6,381)	(6,446)	(31,705)	(37,911)
Debt servicing - repayment of debt		(979)	(979)	(979)	(979)	(979)	(979)	(4,895)	(5,874)

CASH FLOW	2017	2018	2019	2020	2021	2022	Beyond 2022	Total
Project Costs ($000's)	7,185	7,230	7,270	7,315	7,360	7,425	166,307	210,092
Financed by:								
Cash to Capital	860	950	1,193	1,250	1,395	1,475	66,951	74,074
Federal Gas Tax	6,325	6,280	6,077	6,065	5,965	5,950	99,356	136,018

NET OPERATING IMPACT ($000's)	2017	2018	2019
Operating costs			
External debt and finance charges			
Transfer to General Capital Fund	860	950	1,193
Total Direct Costs	860	950	1,193
Less: Incremental Revenue/Recovery	234	235	236
Net Cost/(Benefit)	626	715	957
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 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.

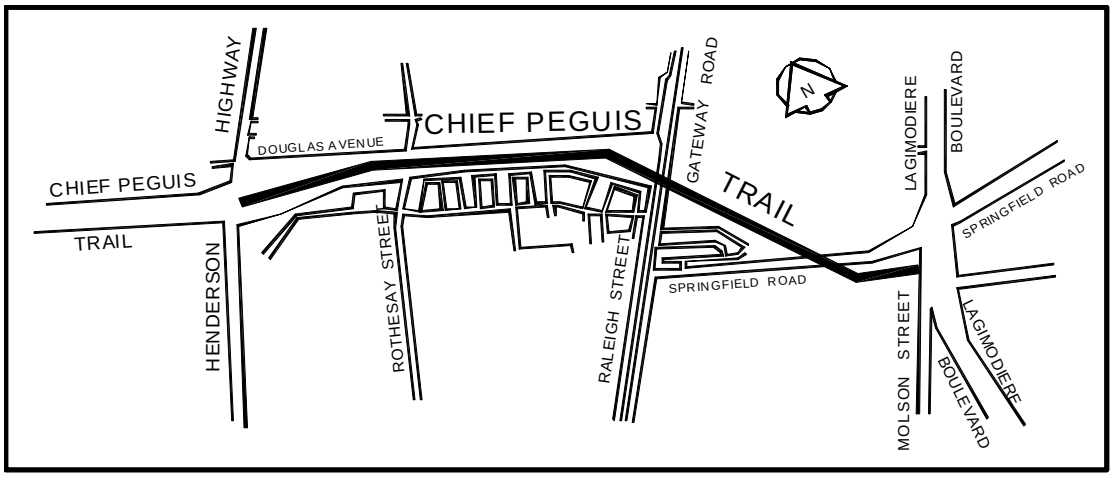
The above annual estimates include the authorization for the lease and financing payments to be incurred and charged to the Projects in the General Capital Fund.

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 2018 is $2.150 million and represents 30% of the 2018 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	2017 Estimate	FORECAST 2018	2019	2020	2021	2022	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	-	459	500	-	-	-	-	500	959
Financed by:									
Cash to Capital			500					500	500
Transfer from Prior Year Authorization		459						-	459

CASH FLOW	2017	2018	2019	2020	2021	2022	Beyond 2022	Total
Project Costs ($000's)	459	425	75	-	-	-	-	959
Financed by:								
Cash to Capital		425	75					500
Transfer from Prior Year Authorization	459							459

NET OPERATING IMPACT ($000's)	2017	2018	2019
Operating costs			
External debt and finance charges			
Transfer to General Capital Fund		500	
Total Direct Costs	-	500	-
Less: Incremental Revenue/Recovery	24	31	5
Net Cost/(Benefit)	(24)	469	(5)
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: 3 - applies to 2017 only

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 Work's 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).

Funding in 2017 includes rebudgeted amounts from previously approved capital budgets - see Appendix 4.

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

Standing Policy Committee: Infrastructure Renewal and Public Works

Department: Public Works
Project: 1812000117
Service: Roadway Construction and Maintenance
OurWinnipeg: Sustainability

AUTHORIZATION	Previous Budgets	2017 Estimate	FORECAST 2018	2019	2020	2021	2022	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	2017	2018	2019	2020	2021	2022	Beyond 2022	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)	2017	2018	2019
Operating costs			
External debt and finance charges			
Transfer to General Capital Fund	100	100	100
Total Direct Costs	100	100	100
Less: Incremental Revenue/Recovery	5	6	6
Net Cost/(Benefit)	95	94	94
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 Drainage Sewers - Regional / Local Streets**

Standing Policy Committee: Infrastructure Renewal and Public Works

Department: Public Works
Project: 1813000117

Service: Land Drainage and Flood Control
OurWinnipeg: Vitality

AUTHORIZATION	Previous Budgets	2017 Estimate	FORECAST 2018	2019	2020	2021	2022	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	N/A *	1,000	1,000	1,000	300	300	300	2,900	3,900
Financed by:									
Cash to Capital		1,000	1,000	1,000	300	300	300	2,900	3,900

CASH FLOW	2017	2018	2019	2020	2021	2022	Beyond 2022	Total
Project Costs ($000's)	850	1,000	1,000	405	300	300	45	3,900
Financed by:								
Cash to Capital	850	1,000	1,000	405	300	300	45	3,900

NET OPERATING IMPACT ($000's)	2017	2018	2019
Operating costs			
External debt and finance charges			
Transfer to General Capital Fund	1,000	1,000	1,000
Total Direct Costs	1,000	1,000	1,000
Less: Incremental Revenue/Recovery	53	63	63
Net Cost/(Benefit)	947	937	937
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 Acquisition - Transportation Right of Way**

Standing Policy Committee: Infrastructure Renewal and Public Works

Department: Public Works
Project: 1834000117

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

AUTHORIZATION	Previous Budgets	2017 Estimate	FORECAST 2018	2019	2020	2021	2022	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	N/A *	-	300	300	300	300	300	1,500	1,500
Financed by:									
Cash to Capital			300	300	300	300	300	1,500	1,500

CASH FLOW	2017	2018	2019	2020	2021	2022	Beyond 2022	Total
Project Costs ($000's)	-	300	300	300	300	300	-	1,500
Financed by:								
Cash to Capital		300	300	300	300	300		1,500

NET OPERATING IMPACT ($000's)	2017	2018	2019
Operating costs			
External debt and finance charges			
Transfer to General Capital Fund		300	300
Total Direct Costs	-	300	300
Less: Incremental Revenue/Recovery		19	19
Net Cost/(Benefit)	-	281	281
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
Service: Parks and Urban Forestry
Project: 1850000117
OurWinnipeg: Environment

AUTHORIZATION	Previous Budgets	2017 Estimate	FORECAST 2018	2019	2020	2021	2022	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	N/A *	766	766	383	383	383	383	2,298	3,064
Financed by:									
Cash to Capital		766	766	383	383	383	383	2,298	3,064

CASH FLOW	2017	2018	2019	2020	2021	2022	Beyond 2022	Total
Project Costs ($000's)	651	766	440	383	383	383	58	3,064
Financed by:								
Cash to Capital	651	766	440	383	383	383	58	3,064

NET OPERATING IMPACT ($000's)	2017	2018	2019
Operating costs			
External debt and finance charges			
Transfer to General Capital Fund	766	766	383
Total Direct Costs	766	766	383
Less: Incremental Revenue/Recovery	41	48	28
Net Cost/(Benefit)	725	718	355
Incremental Full Time Equivalent Positions	-	-	-

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

Sustainable urban forest management program may include tree replacement, tree pruning, 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: 1852000117
Service: Parks and Urban Forestry
OurWinnipeg: Environment

AUTHORIZATION	Previous Budgets	2017 Estimate	FORECAST 2018	2019	2020	2021	2022	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	N/A *	-	350	350	350	350	350	1,750	1,750
Financed by:									
Cash to Capital			350	350	350	350	350	1,750	1,750

CASH FLOW	2017	2018	2019	2020	2021	2022	Beyond 2022	Total
Project Costs ($000's)	-	350	350	350	350	350	-	1,750
Financed by:								
Cash to Capital		350	350	350	350	350		1,750

NET OPERATING IMPACT ($000's)	2017	2018	2019
Operating costs			
External debt and finance charges			
Transfer to General Capital Fund		350	350
Total Direct Costs	-	350	350
Less: Incremental Revenue/Recovery		22	22
Net Cost/(Benefit)	-	328	328
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 (formerly Parks - Improvements)**

Standing Policy Committee: Protection, Community Services and Parks

Department: Public Works
Project: 1853000117
Service: Parks and Urban Forestry
OurWinnipeg: Environment

AUTHORIZATION	Previous Budgets	2017 Estimate	FORECAST 2018	2019	2020	2021	2022	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	N/A *	550	200	170	-	-	-	370	920
Financed by:									
Cash to Capital		550	200	170				370	920

CASH FLOW	2017	2018	2019	2020	2021	2022	Beyond 2022	Total
Project Costs ($000's)	468	253	175	24	-	-	-	920
Financed by:								
Cash to Capital	468	253	175	24				920

NET OPERATING IMPACT ($000's)	2017	2018	2019
Operating costs			
External debt and finance charges			
Transfer to General Capital Fund	550	200	170
Total Direct Costs	550	200	170
Less: Incremental Revenue/Recovery	29	11	11
Net Cost/(Benefit)	521	189	159
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: 4

Projects in 2017 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.

2017: Funds will be allocated to the following projects: 1) Rosehill Park - complete fitness trail, drainage, and a shade shelter ($350,000). 2) Grandmont Park - pathways, lighting, seating, trail markers and trees ($200,000).

2018: Funds will be allocated to the following projects: 1) T-33 Jet Air Frame Restoration at Woodhaven Blvd. and Portage Avenue including painting and pedestal repairs ($100,000). 2) Bruce Park railing, stairs and pathway restoration ($100,000).

2019: Funds will be added to the addition of catch basin and athletic field lighting at St. Vital Memorial Park ($170,000).

* 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 - New**

Standing Policy Committee: Protection, Community Services and Parks

Department: Public Works
Project: 1853000217
Service: Parks and Urban Forestry
OurWinnipeg: Environment

AUTHORIZATION	Previous Budgets	2017 Estimate	FORECAST 2018	2019	2020	2021	2022	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	-	375	-	-	-	-	-	-	375
Financed by:									
Cash to Capital		375						-	375

CASH FLOW	2017	2018	2019	2020	2021	2022	Beyond 2022	Total
Project Costs ($000's)	319	56	-	-	-	-	-	375
Financed by:								
Cash to Capital	319	56						375

NET OPERATING IMPACT ($000's)	2017	2018	2019
Operating costs	77	79	80
External debt and finance charges			
Transfer to General Capital Fund	375		
Total Direct Costs	452	79	80
Less: Incremental Revenue/Recovery	20	4	
Net Cost/(Benefit)	432	75	80
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: 4

Projects in 2017 will not proceed to construction until a class 3 estimate is obtained.

Addition of park infrastructure and amenities to new parks and open spaces.

2017 funds will be allocated to the following projects: 1) Leila Strasbourg Park for addition of play structure, safety surfacing, pathway, park furniture and sodding ($100,000). 2) Downtown Dog Park for potable water, hose bibs for site cleaning, catch basin, lighting, artificial turf and shade structure ($275,000).

Project Name: **Regional Parks**

Standing Policy Committee: Protection, Community Services and Parks

Department: Public Works
Project: 1853000317

Service: Parks and Urban Forestry
OurWinnipeg: Environment

AUTHORIZATION	Previous Budgets	2017 Estimate	FORECAST 2018	2019	2020	2021	2022	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	-	400	-	-	-	2,350	3,650	6,000	6,400
Financed by:									
Cash to Capital		400				2,350	3,650	6,000	6,400

CASH FLOW	2017	2018	2019	2020	2021	2022	Beyond 2022	Total
Project Costs ($000's)	340	60	-	-	1,998	3,455	547	6,400
Financed by:								
Cash to Capital	340	60			1,998	3,455	547	6,400

NET OPERATING IMPACT ($000's)	2017	2018	2019
Operating costs	15	16	17
External debt and finance charges			
Transfer to General Capital Fund	400		
Total Direct Costs	415	16	17
Less: Incremental Revenue/Recovery	21	4	
Net Cost/(Benefit)	394	12	17
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: 4

Projects in 2017 will not proceed to construction until a class 3 estimate is obtained.

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

2017: Funds will be allocated to the replacement of two pedestrian bridges in King's Park.

2021 - 2022: 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.

Project Name: **Parks Buildings (formerly Regional and Community Parks - Buildings)**

Standing Policy Committee: Protection, Community Services and Parks

Department: Public Works
Service: Parks and Urban Forestry
Project: 6318020117
OurWinnipeg: Environment

AUTHORIZATION	Previous Budgets	2017 Estimate	FORECAST 2018	2019	2020	2021	2022	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	4,550	-	850	220	1,400	1,420	-	3,890	3,890
Financed by:									
Cash to Capital			850	220	1,400	1,420		3,890	3,890

CASH FLOW	2017	2018	2019	2020	2021	2022	Beyond 2022	Total
Project Costs ($000's)	-	723	315	1,222	1,417	213	-	3,890
Financed by:								
Cash to Capital		723	315	1,222	1,417	213		3,890

NET OPERATING IMPACT ($000's)	2017	2018	2019
Operating costs			
External debt and finance charges			
Transfer to General Capital Fund		850	220
Total Direct Costs	-	850	220
Less: Incremental Revenue/Recovery		45	20
Net Cost/(Benefit)	-	805	200
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: 4

See program details on next page.

Parks Buildings (continued):

Funds will be allocated to:	2017	2018	2019	2020	2021	2022	Total
Little Mountain Park - Refurbish public washroom building		350					350
735 Assiniboine - Replace staff house and renovate garage		500					500
Grant's Old Mill - Replace washroom building			220				220
Centennial Park - Replace staff building and garage				300			300
Renfrew Yards - Replace staff building and garage				1,100			1,100
Churchill Drive Park - Replace public washrooms/ garage					370		370
To be determined					1,050		1,050
	-	**850**	**220**	**1,400**	**1,420**	**-**	**3,890**

Project Name: **Assiniboine Park Zoo - Sewer Siphon**

Standing Policy Committee: Protection, Community Services and Parks

Department: Public Works
Project: 1856000117
Service: Parks and Urban Forestry
OurWinnipeg: Environment

AUTHORIZATION	Previous Budgets	2017 Estimate	FORECAST 2018	2019	2020	2021	2022	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	-	-	-	-	100	-	-	100	100
Financed by:									
Cash to Capital					100			100	100

CASH FLOW	2017	2018	2019	2020	2021	2022	Beyond 2022	Total
Project Costs ($000's)	-	-	-	85	15	-	-	100
Financed by:								
Cash to Capital				85	15			100

NET OPERATING IMPACT ($000's)	2017	2018	2019
Operating costs			
External 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 in 2020 to conduct a condition inspection/assessment of the Assiniboine Park Zoo Complex Sewer Siphon Assiniboine River Crossing.

Project Name: **Boat Docks and Launches**

Standing Policy Committee: Protection, Community Services and Parks

Department: Public Works
Project: 1856000217

Service: Parks and Urban Forestry
OurWinnipeg: Environment

AUTHORIZATION	Previous Budgets	2017 Estimate	FORECAST 2018	2019	2020	2021	2022	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	-	1,500	600	-	-	-	-	600	2,100
Financed by:									
Cash to Capital		1,500	600					600	2,100

CASH FLOW	2017	2018	2019	2020	2021	2022	Beyond 2022	Total
Project Costs ($000's)	1,275	735	90	-	-	-	-	2,100
Financed by:								
Cash to Capital	1,275	735	90					2,100

NET OPERATING IMPACT ($000's)	2017	2018	2019
Operating costs	3	5	5
External debt and finance charges			
Transfer to General Capital Fund	1,500	600	
Total Direct Costs	1,503	605	5
Less: Incremental Revenue/Recovery	80	46	6
Net Cost/(Benefit)	1,423	559	(1)
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: 4

Projects in 2017 will not proceed to construction until a class 3 estimate is obtained.

Funds will be allocated to:	2017	2018	2019	2020	2021	2022	Total
Gerald Lynch Park Docks - A new dock and approach, additional lighting, and landscaping including an accessible pathway.	1,500						1,500
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.		200					200
Whittier Park Dock Approach - Bank armouring, a new river access platform with floating docks, and landscaping including an accessible pathway.		400					400
	1,500	**600**	**-**	**-**	**-**	**-**	**2,100**

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

Standing Policy Committee: Protection, Community Services and Parks

Department: Public Works
Project: 1857000117
Service: Parks and Urban Forestry
OurWinnipeg: Environment

AUTHORIZATION	Previous Budgets	2017 Estimate	FORECAST 2018	2019	2020	2021	2022	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	3,300	16,500	19,800

CASH FLOW	2017	2018	2019	2020	2021	2022	Beyond 2022	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	3,300	495	19,800

NET OPERATING IMPACT ($000's)	2017	2018	2019
Operating costs			
External debt and finance charges			
Transfer to General Capital Fund	3,300	3,300	3,300
Total Direct Costs	3,300	3,300	3,300
Less: Incremental Revenue/Recovery	175	206	206
Net Cost/(Benefit)	3,125	3,094	3,094
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.

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

Project Name: **Urban Forest Enhancement Program**

Standing Policy Committee: Protection, Community Services and Parks

Department: Public Works
Project: 1850000217
Service: Parks and Urban Forestry
OurWinnipeg: Environment

AUTHORIZATION	Previous Budgets	2017 Estimate	FORECAST 2018	2019	2020	2021	2022	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	N/A *	1,300	1,300	1,300	1,300	1,300	1,300	6,500	7,800
Financed by:									
Cash to Capital		1,300	1,300	1,300	1,300	1,300	1,300	6,500	7,800

CASH FLOW	2017	2018	2019	2020	2021	2022	Beyond 2022	Total
Project Costs ($000's)	1,300	1,300	1,300	1,300	1,300	1,300	-	7,800
Financed by:								
Cash to Capital	1,300	1,300	1,300	1,300	1,300	1,300		7,800

NET OPERATING IMPACT ($000's)	2017	2018	2019
Operating costs			
External debt and finance charges			
Transfer to General Capital Fund	1,300	1,300	1,300
Total Direct Costs	1,300	1,300	1,300
Less: Incremental Revenue/Recovery	81	81	81
Net Cost/(Benefit)	1,219	1,219	1,219
Incremental Full Time Equivalent Positions	-	-	-

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

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

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

2) Removal and replacement of Schubert chokecherry trees

3) Development of ash inventory on private property in preparation for arrival of invasive Emerald Ash Borer beetle

4) Replacement of trees lost to Dutch Elm Disease on public property

5) Tree pruning of high priority trees on right-of-ways

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

Project Name: **Regional Parks Investment Strategy**

Standing Policy Committee: Protection, Community Services and Parks

Department: Public Works
Project: 1859000117

Service: Parks and Urban Forestry
OurWinnipeg: Sustainability

AUTHORIZATION	Previous Budgets	2017 Estimate	FORECAST 2018	2019	2020	2021	2022	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	200	100	-	-	-	-	-	-	100
Financed by:									
Cash to Capital		100						-	100

CASH FLOW	2017	2018	2019	2020	2021	2022	Beyond 2022	Total
Project Costs ($000's)	85	15	-	-	-	-	-	100
Financed by:								
Cash to Capital	85	15						100

NET OPERATING IMPACT ($000's)	2017	2018	2019
Operating costs			
External debt and finance charges			
Transfer to General Capital Fund	100		
Total Direct Costs	100	-	-
Less: Incremental Revenue/Recovery	5	1	
Net Cost/(Benefit)	95	(1)	-
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: 3

In 2016, capital funding of $200,000 was approved to define a short and long-term capital investment strategy for all regional parks in Winnipeg, and make recommendations for implementation based on assessed needs.

2017 funds of $100,000 will be allocated to developing the first intensive study on one of the parks identified in the Strategy.

Project Name: **Parks Master Plan**

Standing Policy Committee: Protection, Community Services and Parks

Department: Public Works
Project: 1854000117

Service: Parks and Urban Forestry
OurWinnipeg: Environment

AUTHORIZATION	Previous Budgets	2017 Estimate	FORECAST 2018	2019	2020	2021	2022	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	-	300	-	-	-	-	-	-	300
Financed by:									
Cash to Capital		300						-	300

CASH FLOW	2017	2018	2019	2020	2021	2022	Beyond 2022	Total
Project Costs ($000's)	255	45	-	-	-	-	-	300
Financed by:								
Cash to Capital	255	45						300

NET OPERATING IMPACT ($000's)	2017	2018	2019
Operating costs			
External debt and finance charges			
Transfer to General Capital Fund	300		
Total Direct Costs	300	-	-
Less: Incremental Revenue/Recovery	18		
Net Cost/(Benefit)	282	-	-
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: 3

Funds will support the development of a 25-year Parks Strategic Master Plan to guide the acquisition, development, on-going maintenance, preservation and enhancement of Winnipeg's extensive parks and open space system.

Project Name: **Parks Road Renewal**

Standing Policy Committee: Protection, Community Services and Parks

Department: Public Works
Project: 1856000217
Service: Parks and Urban Forestry
OurWinnipeg: Environment

AUTHORIZATION	Previous Budgets	2017 Estimate	FORECAST 2018	2019	2020	2021	2022	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	-	420	-	-	-	-	-	-	420
Financed by:									
Cash to Capital		420						-	420

CASH FLOW	2017	2018	2019	2020	2021	2022	Beyond 2022	Total
Project Costs ($000's)	357	63	-	-	-	-	-	420
Financed by:								
Cash to Capital	357	63						420

NET OPERATING IMPACT ($000's)	2017	2018	2019
Operating costs			
External debt and finance charges			
Transfer to General Capital Fund	420		
Total Direct Costs	420	-	-
Less: Incremental Revenue/Recovery	22		
Net Cost/(Benefit)	398	-	-
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: 4

Project in 2017 will not proceed to construction until a class 3 estimate is obtained.

This program will focus on renewal of park roads and parking lots.

2017: Reconstruction of road segment in Assiniboine Park.

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

Standing Policy Committee: Protection, Community Services and Parks

Department: Community Services
Project: 6210000117
Service: Libraries
OurWinnipeg: Libraries

AUTHORIZATION	Previous Budgets	2017 Estimate	FORECAST 2018	2019	2020	2021	2022	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	N/A *	312	318	324	330	336	342	1,650	1,962
Financed by:									
Cash to Capital		312	318	324	330	336	342	1,650	1,962

CASH FLOW	2017	2018	2019	2020	2021	2022	Beyond 2022	Total
Project Costs ($000's)	312	318	324	330	336	342	-	1,962
Financed by:								
Cash to Capital	312	318	324	330	336	342		1,962

NET OPERATING IMPACT ($000's)	2017	2018	2019
Operating costs			
External debt and finance charges			
Transfer to General Capital Fund	312	318	324
Total Direct Costs	312	318	324
Less: Incremental Revenue/Recovery			
Net Cost/(Benefit)	312	318	324
Incremental Full Time Equivalent Positions	-	-	-

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

Capital funding is required to address three areas:

1. 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.

2. Safety issues need to be addressed in many libraries including upgrading lighting, installing video monitoring technology, regular landscape maintenance, and other building upgrades as required to ensure that libraries remain safe and welcoming to the community and deter vandalism and graffiti.

3. Accessibility issues 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.

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 Interior Infrastructure Replacement Program**

Standing Policy Committee: Protection, Community Services and Parks

Department: Community Services
Project: 6210000217

Service: Libraries
OurWinnipeg: Libraries

AUTHORIZATION	Previous Budgets	2017 Estimate	FORECAST 2018	2019	2020	2021	2022	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	N/A *	300	306	312	318	325	331	1,592	1,892
Financed by:									
Cash to Capital		300	306	312	318	325	331	1,592	1,892

CASH FLOW	2017	2018	2019	2020	2021	2022	Beyond 2022	Total
Project Costs ($000's)	300	306	312	318	325	331	-	1,892
Financed by:								
Cash to Capital	300	306	312	318	325	331		1,892

NET OPERATING IMPACT ($000's)	2017	2018	2019
Operating costs			
External debt and finance charges			
Transfer to General Capital Fund	300	306	312
Total Direct Costs	300	306	312
Less: Incremental Revenue/Recovery			
Net Cost/(Benefit)	300	306	312
Incremental Full Time Equivalent Positions	-	-	-

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

Continued capital funding is required to replace library interior infrastructure (e.g. workstations, public work space, furniture, shelving and children's literacy areas) that is heavily used and subject to wear and tear. In addition, changing technology requires updated workstation and furniture requirements. Much of the interior infrastructure are from the original opening of library facilities. Replacement is required in order to ensure that library branches contain furniture and shelving that is safe, functional, accessible and part of a welcoming environment for library users.

* 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: 6210000317
Service: Libraries
OurWinnipeg: Libraries

AUTHORIZATION	Previous Budgets	2017 Estimate	FORECAST 2018	2019	2020	2021	2022	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	N/A *	-	510	520	530	541	553	2,654	2,654
Financed by:									
Cash to Capital			510	520	530	541	553	2,654	2,654

CASH FLOW	2017	2018	2019	2020	2021	2022	Beyond 2022	Total
Project Costs ($000's)	-	510	520	530	541	553	-	2,654
Financed by:								
Cash to Capital		510	520	530	541	553		2,654

NET OPERATING IMPACT ($000's)	2017	2018	2019
Operating costs		10	10
External debt and finance charges			
Transfer to General Capital Fund		510	520
Total Direct Costs	-	520	530
Less: Incremental Revenue/Recovery			
Net Cost/(Benefit)	-	520	530
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 services 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 Winnipeg 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 Refurbishment and Redevelopment Program - Existing Infrastructure**

Standing Policy Committee: Protection, Community Services and Parks

Department: Community Services
Project: 6362100117

Service: Libraries
OurWinnipeg: Libraries

AUTHORIZATION	Previous Budgets	2017 Estimate	FORECAST 2018	2019	2020	2021	2022	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	N/A *	-	510	520	530	541	554	2,655	2,655
Financed by:									
Cash to Capital			510	520	530	541	554	2,655	2,655

CASH FLOW	2017	2018	2019	2020	2021	2022	Beyond 2022	Total
Project Costs ($000's)	-	510	520	530	541	554	-	2,655
Financed by:								
Cash to Capital		510	520	530	541	554		2,655

NET OPERATING IMPACT ($000's)	2017	2018	2019
Operating costs			
External debt and finance charges			
Transfer to General Capital Fund		510	520
Total Direct Costs	-	510	520
Less: Incremental Revenue/Recovery			
Net Cost/(Benefit)	-	510	520
Incremental Full Time Equivalent Positions	-	-	-

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

This capital program is required to support ongoing renovations of existing library branch infrastructure. Funding will be used to undertake minor construction projects in order to improve library facilities to meet the changing needs of library users.

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

Project Name: **Library Refurbishment and Redevelopment Program - Existing Infrastructure: Cornish Library**

Standing Policy Committee: Protection, Community Services and Parks

Department: Community Services
Project: 6210634115
Service: Libraries
OurWinnipeg: Libraries

AUTHORIZATION	Previous Budgets	2017 Estimate	FORECAST 2018	2019	2020	2021	2022	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	2,500	-	-	-	-	-	-	-	-
Financed by:									
Cash to Capital	125	366						-	366
Interim Financing from the General Capital Fund (Repayment)	1,100	(1,100)						-	(1,100)
External Debt		734						-	734
Manitoba Winnipeg Infrastructure Agreement (MWIA)	1,125							-	-
Winnipeg Library Foundation	150							-	-

CASH FLOW	2017	2018	2019	2020	2021	2022	Beyond 2022	Total
Project Costs ($000's)	-	-	-	-	-	-	-	-
Financed by:								
Cash to Capital	366							366
Interim Financing from the General Capital Fund (Repayment)	(1,100)							(1,100)
External Debt	734							734

NET OPERATING IMPACT ($000's)	2017	2018	2019
Operating costs			
External debt and finance charges	23	50	53
Transfer to General Capital Fund	366		
Total Direct Costs	389	50	53
Less: Incremental Revenue/Recovery			
Net Cost/(Benefit)	389	50	53
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: 4

Capital funding is to support major renovations at the Cornish Library, 20 Westgate Avenue, in partnership with the Winnipeg Library Foundation. Structural assessments and architectural plans will provide direction on program scope which will be defined by the $2.68 million available capital funding. A consultant has completed early design advancement and costing review, as such the project is presently at a Class 4 level of cost estimate. Construction will not proceed until a class 3 estimate is obtained.

Total project budget is $2.68 million comprised of:

Previous budgets as detailed above	2,500,000
Municipal Accommodations' 2014 Historic Buildings program budget	180,000
Total	**2,680,000**

Project Name: **Library Refurbishment and Redevelopment Program - Existing Infrastructure: St. John's Library**

Standing Policy Committee: Protection, Community Services and Parks

Department: Community Services
Project: 6210634215
Service: Libraries
OurWinnipeg: Libraries

AUTHORIZATION	Previous Budgets	2017 Estimate	FORECAST 2018	2019	2020	2021	2022	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	2,500	-	-	-	-	-	-	-	-
Financed by:									
Cash to Capital	125	366						-	366
Interim Financing from the General Capital Fund (Repayment)	1,100	(1,100)						-	(1,100)
External Debt		734						-	734
Manitoba Winnipeg Infrastructure Agreement (MWIA)	1,125							-	-
Winnipeg Library Foundation	150							-	-

CASH FLOW	2017	2018	2019	2020	2021	2022	Beyond 2022	Total
Project Costs ($000's)	-	-	-	-	-	-	-	-
Financed by:								
Cash to Capital	366							366
Interim Financing from the General Capital Fund (Repayment)	(1,100)							(1,100)
External Debt	734							734

NET OPERATING IMPACT ($000's)	2017	2018	2019
Operating costs			
External debt and finance charges	23	50	53
Transfer to General Capital Fund	366		
Total Direct Costs	389	50	53
Less: Incremental Revenue/Recovery			
Net Cost/(Benefit)	389	50	53
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: 4

Capital funding is to support major renovations at the St. John's Library, 500 Salter Street, in partnership with the Winnipeg Library Foundation. Structural assessments and architectural plans will provide direction on program scope which will be defined by the $2.575 million capital funding. A consultant has completed early design advancement and costing review, as such the project is presently at a Class 4 level of cost estimate. Construction will not proceed until a class 3 estimate is obtained.

Total project budget is $2.575 million comprised of:

Previous budgets as detailed above	2,500,000
Municipal Accommodations' 2015 Historic Buildings program budget	75,000
Total	**2,575,000**

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

Standing Policy Committee: Protection, Community Services and Parks

Department: Community Services
Service: Libraries
Project: 6213001114
OurWinnipeg: Libraries

AUTHORIZATION	Previous Budgets	2017 Estimate	FORECAST 2018	2019	2020	2021	2022	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	5,383	2,512	-	-	-	-	-	-	2,512
Financed by:									
External Debt		2,462							2,462
Land Dedication Reserve (East Kildonan - Transcona)		50							50

CASH FLOW	2017	2018	2019	2020	2021	2022	Beyond 2022	Total
Project Costs ($000's)	2,512	-	-	-	-	-	-	2,512
Financed by:								
External Debt	2,462							2,462
Land Dedication Reserve (East Kildonan - Transcona)	50							50

NET OPERATING IMPACT ($000's)	2017	2018	2019
Operating costs			180
External debt and finance charges	77	167	179
Transfer to General Capital Fund			
Total Direct Costs	77	167	359
Less: Incremental Revenue/Recovery			
Net Cost/(Benefit)	77	167	359
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: 4

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

St. Vital

Transcona

River Heights

St. James

West Kildonan

Westwood

The Transcona Library was selected as the third library facility to be replaced as part of the Library Redevelopment Strategy. The library which is located at 111 Victoria will be replaced with a new, larger facility at 1500 Plessis Road. Capital funding for the project was approved by Council in the 2014 capital budget in the amount of $5,383,000 ($5,083,000 for building construction and $300,000 for new furniture and shelving for the new library).

Library Facility Redevelopment - Transcona Library (continued):

The Municipal Accommodations and Library Services divisions prepared a total estimated project budget and funding reconciliation for the new Transcona Library. The budget includes a Class 4 construction estimate, cash allowances, construction and design contingencies, frontage development charge and finance and administrative charges. The current estimated cost of the project is $7,895,000 for building construction and new furniture and shelving.

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

The approved capital budget of $5,383,000 does not provide sufficient funding to move ahead with the Transcona Library Project in its current size and scope. An additional $2,512,000 in capital funds is required to move forward with the Transcona Library replacement in 2017.

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

Standing Policy Committee: Protection, Community Services and Parks

Department: Community Services
Service: Libraries
Project: 6362100318
OurWinnipeg: Libraries

AUTHORIZATION	Previous Budgets	2017 Estimate	FORECAST 2018	2019	2020	2021	2022	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	-	-	512	2,037	8,024	-	-	10,573	10,573
Financed by:									
Cash to Capital				2,037				2,037	2,037
External Debt					8,024			8,024	8,024
Internal Financing			512					512	512

CASH FLOW	2017	2018	2019	2020	2021	2022	Beyond 2022	Total
Project Costs ($000's)	-	512	2,037	8,024	-	-	-	10,573
Financed by:								
Cash to Capital			2,037					2,037
External Debt				8,024				8,024
Internal Financing		512						512

NET OPERATING IMPACT ($000's)	2017	2018	2019
Operating costs			
Debt and finance charges		109	109
Transfer to General Capital Fund			2,037
Total Direct Costs	-	109	2,146
Less: Incremental Revenue/Recovery			
Net Cost/(Benefit)	-	109	2,146
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

St. Vital

Transcona

River Heights

St. James

West Kildonan

Westwood

Final authorization(s) for each library facility are dependent on separate report(s) to Council outlining lease vs. build options for each new facility.

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

Capital funding for the St. James Library project includes $512,000 in 2018 for preliminary planning purposes and $2.037 million in 2019 primarily for detail design to obtain a class 3 estimate.

Capital funds in 2020 include $8.024 million for the construction and for interior infrastructure. Construction will not commence until a class 3 estimate is obtained.

Incremental operating funds required for each library branch redevelopment will be included in the Operating Budget as each library branch project comes forward for final approval, therefore, no operating costs are noted above.

Project Name: **Library Facility Redevelopment - West Kildonan Library**

Standing Policy Committee: Protection, Community Services and Parks

Department: Community Services
Project: 6362100420
Service: Libraries
OurWinnipeg: Libraries

AUTHORIZATION	Previous Budgets	2017 Estimate	FORECAST 2018	2019	2020	2021	2022	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	-	-	-	-	-	937	2,774	3,711	3,711
Financed by:									
External Debt							2,774	2,774	2,774
Internal Financing						937		937	937

CASH FLOW	2017	2018	2019	2020	2021	2022	Beyond 2022	Total
Project Costs ($000's)	-	-	-	-	937	2,774	-	3,711
Financed by:								
External Debt						2,774		2,774
Internal Financing					937			937

NET OPERATING IMPACT ($000's)	2017	2018	2019
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 "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

St. Vital

Transcona

River Heights

St. James

West Kildonan

Westwood

Final authorization(s) for each library facility are dependent on separate report(s) to Council outlining lease vs. build options for each new facility.

Capital funding for the West Kildonan Library project includes $937,000 in 2021 for public engagement and detail design to obtain a class 3 estimate and to commence construction. Construction will not commence until a class 3 estimate is obtained.

Library Facility Redevelopment - West Kildonan Library (continued):

Capital funds in 2022 include $2.774 million for the construction and for interior infrastructure.

Incremental operating funds required for each library branch redevelopment will be included in the Operating Budget as each library branch project comes forward for final approval, therefore, no operating costs are noted above.

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	2017 Estimate	FORECAST 2018	2019	2020	2021	2022	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	-	-	-	-	-	146	794	940	940
Financed by:									
Cash to Capital						146	794	940	940

CASH FLOW	2017	2018	2019	2020	2021	2022	Beyond 2022	Total
Project Costs ($000's)	-	-	-	-	146	794	-	940
Financed by:								
Cash to Capital					146	794		940

NET OPERATING IMPACT ($000's)	2017	2018	2019
Operating costs			
External 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 "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

St. Vital

Transcona

River Heights

St. James

West Kildonan

Westwood

Final authorization(s) for each library facility are dependent on separate report(s) to Council outlining lease vs. build options for each new facility.

Capital funding for the West Kildonan Library project includes $146,000 in 2021 for feasibility study and $794,000 in 2022 for detail design to obtain a class 3 estimate and to commence construction. Construction will not commence until a class 3 estimate is obtained.

Capital funds will be required in 2023 for the construction of Westwood Library, and for interior infrastructure.

Incremental operating funds required for each library branch redevelopment will be included in the Operating Budget as each library branch project comes forward for final approval, therefore, no operating costs are noted above.

Project Name: **New Library Facility - South Winnipeg Library (formerly Waverley West Library)**

Standing Policy Committee: Protection, Community Services and Parks

Department: Community Services
Project: 6362100617
Service: Libraries
OurWinnipeg: Libraries

AUTHORIZATION	Previous Budgets	2017 Estimate	FORECAST 2018	2019	2020	2021	2022	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	-	120	-	-	502	2,142	9,085	11,729	11,849
Financed by:									
Cash to Capital		120			502	2,142	9,085	11,729	11,849

CASH FLOW	2017	2018	2019	2020	2021	2022	Beyond 2022	Total
Project Costs ($000's)	120	-	-	502	2,142	9,085	-	11,849
Financed by:								
Cash to Capital	120			502	2,142	9,085		11,849

NET OPERATING IMPACT ($000's)	2017	2018	2019
Operating costs			
External debt and finance charges			
Transfer to General Capital Fund	120		
Total Direct Costs	120	-	-
Less: Incremental Revenue/Recovery			
Net Cost/(Benefit)	120	-	-
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: 5

One of the key goals of Winnipeg Public Library's Strategic Plan 2015 - 2020 is to "ensure that all library branches are welcoming and accessible destinations". A key action outlined under this goal is to build new library branches in communities that are currently underserviced or that have undergone rapid population growth in recent years.

Capital investment is required to build a new library facility in Southwest Winnipeg. The new library building will provide a modern, flexible programming and community space and offer universal access to a full range of library services and programs. Preliminary discussion around a multi-use, multi-partner concept in the catchment area may lead to the development of a public school / public library / recreation development proposal incorporating the new library plan.

Capital funding for the South Winnipeg Library project includes $120,000 in 2017 for preliminary planning purposes, $502,000 in 2020 for preliminary design, $2.142 million in 2021 for detail design to obtain a class 3 estimate and to commence construction. Construction will not commence until a class 3 estimate is obtained.

Capital funds in 2022 include $9.085 million for the construction and for interior infrastructure.

Incremental operating funds will be included in the operating budget as the library project comes forward for final approval.

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

Standing Policy Committee: Protection, Community Services and Parks

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

AUTHORIZATION	Previous Budgets	2017 Estimate	FORECAST 2018	2019	2020	2021	2022	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	-	-	-	-	140	-	438	578	578
Financed by:									
Cash to Capital					140		438	578	578

CASH FLOW	2017	2018	2019	2020	2021	2022	Beyond 2022	Total
Project Costs ($000's)	-	-	-	140	-	438	-	578
Financed by:								
Cash to Capital				140		438		578

NET OPERATING IMPACT ($000's)	2017	2018	2019
Operating costs			
External 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

One of the key goals of Winnipeg Public Library's Strategic Plan 2015 - 2020 is to "ensure that all library branches are welcoming and accessible destinations". A key action outlined under this goal is to build new library branches in communities that are currently underserviced or that have undergone rapid population growth in recent years.

The southeast quadrant of Winnipeg includes densely populated neighbourhoods such as Southdale, Island Lakes, Royalwood, Southland Park and South St. Boniface and the rapidly growing developments of Sage Creek and Precinct K.

Capital investment is required to develop a new library facility in Southeast Winnipeg. The new library building will provide a modern, flexible programming and community space and offer universal access to a full range of library services and programs.

Capital funding for the Southeast Winnipeg Library project includes $140,000 in 2020 for preliminary planning purposes, $438,000 in 2022 for preliminary design towards obtaining a class 3 estimate. Construction will not commence until a class 3 estimate is obtained.

Incremental operating funds will be included in the operating budget as the library project comes forward for final approval.

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

Standing Policy Committee: Protection, Community Services and Parks

Department: Community Services
Project: 6250000117

Service: Recreation
OurWinnipeg: Recreation

AUTHORIZATION	Previous Budgets	2017 Estimate	FORECAST 2018	2019	2020	2021	2022	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	N/A *	156	159	162	165	168	172	826	982
Financed by:									
Cash to Capital		156	159	162	165	168	172	826	982

CASH FLOW	2017	2018	2019	2020	2021	2022	Beyond 2022	Total
Project Costs ($000's)	156	159	162	165	168	172	-	982
Financed by:								
Cash to Capital	156	159	162	165	168	172		982

NET OPERATING IMPACT ($000's)	2017	2018	2019
Operating costs			
External debt and finance charges			
Transfer to General Capital Fund	156	159	162
Total Direct Costs	156	159	162
Less: Incremental Revenue/Recovery			
Net Cost/(Benefit)	156	159	162
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 facility amenities must be refurbished to meet public health and safety standards, regulation, and to enhance facilities to meet the needs of the public including accessibility (washrooms, change rooms, signage, public entranceways, etc.) and accessible family amenities (specialty change rooms).

The Community Services Department commissioned a comprehensive safety, security and accessibility assessment of all Community Services Department facilities. Using Crime Prevention Through Environmental Design (CPTED) principles, Workplace Safety & Health Legislation and City of Winnipeg Accessibility Design Standards, the purpose of the assessment was to identify safety, security and accessibility deficiencies within each facility.

Capital funding is required to address:

1. Safety and security issues including continued replacement of outdated security monitoring systems including CCTVs. New demands require new and improved security for staff while performing their duties and increased surveillance of non-staffed space within our buildings, both for patron safety and theft prevention within and immediately outside of aquatic and recreation facilities. Also included is continued replacement of outdated Automated External Defibrillators (AED) equipment & safety equipment, lighting upgrades and enhanced signage.

2. In December 2013 the Accessibility for Manitobans Act was passed into law. Over the next few years there will be requirements of municipalities to ensure that their facilities, services and policies address the needs of the disabled. Included but not limited to 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.

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: 6250000217
Service: Recreation
OurWinnipeg: Recreation

AUTHORIZATION	Previous Budgets	2017 Estimate	FORECAST 2018	2019	2020	2021	2022	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	N/A *	-	233	227	230	235	241	1,166	1,166
Financed by:									
Cash to Capital			233	227	230	235	241	1,166	1,166

CASH FLOW	2017	2018	2019	2020	2021	2022	Beyond 2022	Total
Project Costs ($000's)	-	233	227	230	235	241	-	1,166
Financed by:								
Cash to Capital		233	227	230	235	241		1,166

NET OPERATING IMPACT ($000's)	2017	2018	2019
Operating costs			
External debt and finance charges			
Transfer to General Capital Fund		233	227
Total Direct Costs	-	233	227
Less: Incremental Revenue/Recovery			
Net Cost/(Benefit)	-	233	227
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 Equipment and Amenities Program**

Standing Policy Committee: Protection, Community Services and Parks

Department: Community Services
Project: 6250000217

Service: Recreation
OurWinnipeg: Recreation

AUTHORIZATION	Previous Budgets	2017 Estimate	FORECAST 2018	2019	2020	2021	2022	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	N/A *	-	-	400	-	400	-	800	800
Financed by:									
Cash to Capital				400		400		800	800

CASH FLOW	2017	2018	2019	2020	2021	2022	Beyond 2022	Total
Project Costs ($000's)	-	-	400	-	400	-	-	800
Financed by:								
Cash to Capital			400		400			800

NET OPERATING IMPACT ($000's)	2017	2018	2019
Operating costs			
External debt and finance charges			
Transfer to General Capital Fund			400
Total Direct Costs	-	-	400
Less: Incremental Revenue/Recovery			
Net Cost/(Benefit)	-	-	400
Incremental Full Time Equivalent Positions	-	-	-

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

Capital funding is required to purchase equipment and amenity upgrades to meet the program needs of patrons for existing, new, or renovated recreation and aquatic facilities. The Recreation Equipment and Amenity Program will provide capital funding to ensure facilities are outfitted with the most up to date equipment that will help promote participation in recreation and leisure programs.

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

Project Name: **Recreation Refurbishment and Redevelopment Program - Existing Infrastructure**

Standing Policy Committee: Protection, Community Services and Parks

Department: Community Services
Project: 6362500121
Service: Recreation
OurWinnipeg: Recreation

AUTHORIZATION	Previous Budgets	2017 Estimate	FORECAST 2018	2019	2020	2021	2022	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	N/A *	-	-	-	-	2,000	495	2,495	2,495
Financed by:									
Cash to Capital						2,000	495	2,495	2,495

CASH FLOW	2017	2018	2019	2020	2021	2022	Beyond 2022	Total
Project Costs ($000's)	-	-	-	-	2,000	495	-	2,495
Financed by:								
Cash to Capital					2,000	495		2,495

NET OPERATING IMPACT ($000's)	2017	2018	2019
Operating costs			
External 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 capital program is required to support ongoing renovations of existing Aquatic and Recreation facilities. Funding will be used to undertake minor construction projects in order to improve facilities to meet the changing needs of aquatic and recreation facility users.

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

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

Standing Policy Committee: Protection, Community Services and Parks

Department: Community Services
Project: 6362500317

Service: Recreation
OurWinnipeg: Recreation

AUTHORIZATION	Previous Budgets	2017 Estimate	FORECAST 2018	2019	2020	2021	2022	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	350	4,114	-	-	-	-	-	-	4,114
Financed by:									
Cash to Capital		4,114						-	4,114

CASH FLOW	2017	2018	2019	2020	2021	2022	Beyond 2022	Total
Project Costs ($000's)	4,114	-	-	-	-	-	-	4,114
Financed by:								
Cash to Capital	4,114							4,114

NET OPERATING IMPACT ($000's)	2017	2018	2019
Operating costs			
External debt and finance charges			
Transfer to General Capital Fund	4,114		
Total Direct Costs	4,114	-	-
Less: Incremental Revenue/Recovery			
Net Cost/(Benefit)	4,114	-	-
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: Not applicable

Capital funding in 2014 of $350,000 was approved and allocated to commission a feasibility study for conceptual site planning, a secondary planning process and consultant support to coordinate key stakeholders collaborating in the development of a conceptual site plan and partnership agreement. Population growth and new development in the south quadrant of the city increases the need to replace or expand recreation amenities to meet the citizen demand.

On March 22, 2016 Council authorized the expenditure of up to $3.8 million in 2016 or prior to the adoption of the 2017 Capital Budget as a first charge against the General Capital Fund, in accordance with Subsection 288(2) of the City of Winnipeg Charter, to facilitate timely work on the Waverley West community campus. The 2017 budget is for land acquisition.

Project Name: **Recreation Facility Replacement - New Infrastructure**

Standing Policy Committee: Protection, Community Services and Parks

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

AUTHORIZATION	Previous Budgets	2017 Estimate	FORECAST 2018	2019	2020	2021	2022	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	300	-	-	7,000	-	5,000	-	12,000	12,000
Financed by:									
Cash to Capital				7,000		5,000		12,000	12,000

CASH FLOW	2017	2018	2019	2020	2021	2022	Beyond 2022	Total
Project Costs ($000's)	-	-	7,000	-	5,000	-	-	12,000
Financed by:								
Cash to Capital			7,000		5,000			12,000

NET OPERATING IMPACT ($000's)	2017	2018	2019
Operating costs			
External debt and finance charges			
Transfer to General Capital Fund			7,000
Total Direct Costs	-	-	7,000
Less: Incremental Revenue/Recovery			
Net Cost/(Benefit)	-	-	7,000
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 is working towards the consolidation of facilities in all future developments with a focus on developing multi-use facilities (e.g. libraries, water amenities, fitness facilities, skateboard parks, basketball courts, arenas).

Future funding may be used for the South Winnipeg Recreation Initiative and/or the Grant Park Campus Plan depending on the results of feasibility studies currently underway for both and could include joint use facilities, multi-use recreation and leisure facilities, or stand alone facilities.

Project Name: **Recreation Refurbishment and Redevelopment - East End Cultural and Leisure Centre**

Standing Policy Committee: Protection, Community Services and Parks

Department: Community Services
Project: 6362500417

Service: Recreation
OurWinnipeg: Recreation

AUTHORIZATION	Previous Budgets	2017 Estimate	FORECAST 2018	2019	2020	2021	2022	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	-	171	-	-	-	-	-	-	171
Financed by:									
Cash to Capital		171						-	171

CASH FLOW	2017	2018	2019	2020	2021	2022	Beyond 2022	Total
Project Costs ($000's)	171	-	-	-	-	-	-	171
Financed by:								
Cash to Capital	171							171

NET OPERATING IMPACT ($000's)	2017	2018	2019
Operating costs			
External debt and finance charges			
Transfer to General Capital Fund	171		
Total Direct Costs	171	-	-
Less: Incremental Revenue/Recovery			
Net Cost/(Benefit)	171	-	-
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: Not applicable

The City of Winnipeg continues to promote neighbourhood development and investment in Recreation facilities along with the associated long term benefits to the community via capital funding for the East End Cultural and Leisure Centre.

Capital funding in 2017 is required to commission a feasibility study required to obtain a class 3 estimate to determine future capital requirements.

Project Name: **St. James Civic Centre - Facility Addition**

Standing Policy Committee: Protection, Community Services and Parks

Department: Community Services
Project: 6362500217

Service: Recreation
OurWinnipeg: Recreation

AUTHORIZATION	Previous Budgets	2017 Estimate	FORECAST 2018	2019	2020	2021	2022	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	-	1,195	4,791	2,080	-	-	-	6,871	8,066
Financed by:									
Cash to Capital			641					641	641
St James 55+ Centre (Winnipeg Foundation)		250						-	250
External Debt				2,080				2,080	2,080
Transfer from Corporate Non-Specified Capital Account		945	250					250	1,195
Transfer from Prior Year Surplus - Manitoba Winnipeg Infrastructure Fund (MWIF)			3,900					3,900	3,900

CASH FLOW	2017	2018	2019	2020	2021	2022	Beyond 2022	Total
Project Costs ($000's)	1,195	4,791	2,080	-	-	-	-	8,066
Financed by:								
Cash to Capital		641						641
St James 55+ Centre (Winnipeg Foundation)	250							250
External Debt			2,080					2,080
Transfer from Corporate Non-Specified Capital Account	945	250						1,195
Transfer from Prior Year Surplus - Manitoba Winnipeg Infrastructure Fund (MWIF)		3,900						3,900

NET OPERATING IMPACT ($000's)	2017	2018	2019
Operating costs			
External debt and finance charges			92
Transfer to General Capital Fund		641	
Total Direct Costs	-	641	92
Less: Incremental Revenue/Recovery			
Net Cost/(Benefit)	-	641	92
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: 5

Capital funding is requested for a proposed addition to the St. James Civic Centre for use by the St. James 55+ Centre. The proposed scope of the work also includes building renovations and building system upgrades required to ready the facility addition for use. In addition, as part of the planning and design for the new addition, there is an opportunity for more detailed study of the existing building systems which have reached the end of their useful life, (e.g., Electrical, HVAC, Envelope and Mechanical). Any additional upgrades identified and/or proposed for the existing building systems after the review of options for the St. James 55+ Centre will be the subject matter of a separate capital project.

St. James Civic Centre - Facility Addition (continued):

The 2017 Capital Budget includes $1.195 million for planning, design, and development of a Class 3 cost estimate as well as potential commencement of construction. Preliminary design study will include review of various development options for the proposed facility addition and integration of associated existing building systems as well as a long-term building renewal plan for the facility intended to optimize continued service delivery. Facility addition construction will not commence until a Class 3 cost estimate is obtained. Funding in 2018 and 2019 is for construction of the facility addition and associated building system upgrades directly related to facility addition operations.

On February 17, 2016, Provincial confirmation was received that previous' years MWIF surplus in an amount up to $3.9 million is approved for allocation to this project. City of Winnipeg funding is subject to this provincial funding being available and committed to the project. In addition, the St. James 55+ Centre is anticipating a grant from the Winnipeg Foundation as a contribution to the project (pending final confirmation). Should the Winnipeg Foundation grant not be forthcoming, a corresponding scope reduction will be required for project construction.

On March 22, 2016, Council adopted a first charge of up to $250,000 in 2016, prior to adoption of the 2017 Capital Budget, to facilitate timely commencement of the St. James Civic Centre project.

The total project budget is $8.266 million comprised of:	
Budgets as detailed above	8,066,000
Municipal Accommodations' 2015 Community Facilities Capital	200,000
Total	**8,266,000**

Project Name: **Seven Oaks Indoor Pool - Renewal Plan**

Standing Policy Committee: Protection, Community Services and Parks

Department: Community Services
Project: 6392010117
Service: Recreation
OurWinnipeg: Recreation

AUTHORIZATION	Previous Budgets	2017 Estimate	FORECAST 2018	2019	2020	2021	2022	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	3,729	2,400	-	-	-	-	-	-	2,400
Financed by:									
Cash to Capital		2,400						-	2,400

CASH FLOW	2017	2018	2019	2020	2021	2022	Beyond 2022	Total
Project Costs ($000's)	2,400	-	-	-	-	-	-	2,400
Financed by:								
Cash to Capital	2,400							2,400

NET OPERATING IMPACT ($000's)	2017	2018	2019
Operating costs			
External debt and finance charges			
Transfer to General Capital Fund	2,400		
Total Direct Costs	2,400	-	-
Less: Incremental Revenue/Recovery			
Net Cost/(Benefit)	2,400	-	-
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: 3

On March 22, 2016, Council adopted that up to $2,400,000 for the Seven Oaks Indoor Pool - Renewal Plan be included in the 2017 capital forecast.

An amendment report was adopted by Council on July 13, 2016 for a total project budget of $7,975,000. A first call on the 2017 capital forecast of up to $2,400,000 in 2016 was also approved on July 13, 2016.

The Seven Oaks Indoor Pool is in need of enhancements and upgrades in order to continue to offer recreation services and opportunities to the Community. The Seven Oaks Indoor Pool Renewal Plan includes renovations to the lobby, customers service desk area, lockers, washrooms, a new family change room area, and an indoor wading pool and spray pad addition.

Total project budget is comprised of:	Cash to Capital	MWIA	CIP	Total
Seven Oaks Indoor Pool - 2015 capital budget	1,864,500	1,864,500		3,729,000
Parks and Recreation Enhancement Program	200,000			200,000
Building Communities Initiative II - Phase 2	400,000	400,000		800,000
Building Communities Initiative II - Phase 3	110,714	110,714		221,428
Sub-total	**2,575,214**	**2,375,214**	**-**	**4,950,428**
2017 budget above - first call approved by Council	2,400,000			2,400,000
Canada 150 - Community Infrastructure Program (CIP)			500,000	500,000
2015 Indoor Aquatics Capital Program	62,286	62,286		124,572
Total budget as approved by Council on July 13, 2016	**5,037,500**	**2,437,500**	**500,000**	**7,975,000**

Project Name: **Dakota Community Centre - Outdoor Running Track**

Standing Policy Committee: Protection, Community Services and Parks

Department: Community Services
Project: 6253000119

Service: Neighbourhood Revitalization
OurWinnipeg: Recreation

AUTHORIZATION	Previous Budgets	2017 Estimate	FORECAST 2018	2019	2020	2021	2022	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	-	-	-	300	550	-	-	850	850
Financed by:									
Cash to Capital				300	550			850	850

CASH FLOW	2017	2018	2019	2020	2021	2022	Beyond 2022	Total
Project Costs ($000's)	-	-	300	550	-	-	-	850
Financed by:								
Cash to Capital			300	550				850

NET OPERATING IMPACT ($000's)	2017	2018	2019
Operating costs			
External debt and finance charges			
Transfer to General Capital Fund			300
Total Direct Costs	-	-	300
Less: Incremental Revenue/Recovery			
Net Cost/(Benefit)	-	-	300
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: 5

Capital funding is for construction of a running track at Dakota Community Centre. This project may require access to Louis Riel School Division property (College Jeanne-Sauve).

Project Name: **Pan Am Pool - Change Room Upgrades**

Standing Policy Committee: Protection, Community Services and Parks

Department: Community Services
Project: 6362400218

Service: Recreation
OurWinnipeg: Recreation

AUTHORIZATION	Previous Budgets	2017 Estimate	FORECAST 2018	2019	2020	2021	2022	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	-	-	815	-	-	-	-	815	815
Financed by:									
Cash to Capital			815					815	815

CASH FLOW	2017	2018	2019	2020	2021	2022	Beyond 2022	Total
Project Costs ($000's)	-	815	-	-	-	-	-	815
Financed by:								
Cash to Capital		815						815

NET OPERATING IMPACT ($000's)	2017	2018	2019
Operating costs			
External debt and finance charges			
Transfer to General Capital Fund		815	
Total Direct Costs	-	815	-
Less: Incremental Revenue/Recovery			
Net Cost/(Benefit)	-	815	-
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 2018 includes both preliminary design and construction. Construction will not commence until a class 3 estimate is obtained.

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	2017 Estimate	FORECAST 2018	2019	2020	2021	2022	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	-	240	-	385	5,359	-	-	5,744	5,984
Financed by:									
Cash to Capital		240		385	5,359			5,744	5,984

CASH FLOW	2017	2018	2019	2020	2021	2022	Beyond 2022	Total
Project Costs ($000's)	240	-	385	5,359	-	-	-	5,984
Financed by:								
Cash to Capital	240		385	5,359				5,984

NET OPERATING IMPACT ($000's)	2017	2018	2019
Operating costs			
External debt and finance charges			
Transfer to General Capital Fund	240		385
Total Direct Costs	240	-	385
Less: Incremental Revenue/Recovery			
Net Cost/(Benefit)	240	-	385
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: 5

Capital funding is required to support facility renovations, upgrades, and enhancements at the Boni-Vital Pool including but not limited to the development of accessible and universal change rooms and the renovation and expansion of public spaces within the facility.

Capital funding for the Boni-Vital Pool project includes $240,000 in 2017 for a feasibility study, $385,000 in 2019 for consultant services and detailed design to obtain a class 3 estimate.

Capital funds in 2020 include $5.359 million for construction. Construction will not commence until a class 3 estimate is obtained.

Project Name: **Spray Pad Development - Freighthouse Site**

Standing Policy Committee: Protection, Community Services and Parks

Department: Community Services
Project: 6362400417
Service: Recreation
OurWinnipeg: Recreation

AUTHORIZATION	Previous Budgets	2017 Estimate	FORECAST 2018	2019	2020	2021	2022	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	-	1,039	-	-	-	-	-	-	1,039
Financed by:									
Cash to Capital		1,039						-	1,039

CASH FLOW	2017	2018	2019	2020	2021	2022	Beyond 2022	Total
Project Costs ($000's)	1,039	-	-	-	-	-	-	1,039
Financed by:								
Cash to Capital	1,039							1,039

NET OPERATING IMPACT ($000's)	2017	2018	2019
Operating costs			
External debt and finance charges			
Transfer to General Capital Fund	1,039		
Total Direct Costs	1,039	-	-
Less: Incremental Revenue/Recovery			
Net Cost/(Benefit)	1,039	-	-
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: 5

Capital funding is required for the development of a spray pad at the Freighthouse site located at 200 Isabel Street.

Since 2003, the City of Winnipeg has been investing in the development of spray pads as they provide a number of benefits which include: flexibility in operation and design, increased play value serving a variety of age groups, the ability to respond to shifts in temperature and interchangeability of features to meet needs of the community.

There is a need to provide for a more equitable distribution of contemporary seasonal aquatic facilities throughout Winnipeg to meet the changing needs of recreation and aquatic facility users. The 2017 Spray Pad Development Project will involve the development of a new spray pad near Freighthouse Recreation Centre and Outdoor Pool.

There are currently no spray pads located in Centennial neighbourhood which is considered one of the highest needs neighbourhoods in Winnipeg.

Upon completion of the Freighthouse Spray Pad, the Roosevelt Playground Wading Pool at 534 Elgin Avenue and Sister MacNamara Park Wading Pool at 760 Ross Avenue will be decommissioned. The selection of these sites for decommissioning is based on proximity to the Freighthouse location, attendance levels, and future infrastructure requirements.

Capital funding in 2017 is required for the design and build of the Freighthouse Spray Pad and for the decommissioning of Roosevelt Playground Wading Pool and Sister MacNamara Park Wading Pool. Construction of the spray pad will not commence until a class 3 estimate is obtained.

Project Name: **Spray Pad Development - Old Ex / North Centennial Recreation and Leisure Facility**

Standing Policy Committee: Protection, Community Services and Parks

Department: Community Services
Project: 6362400517
Service: Recreation
OurWinnipeg: Recreation

AUTHORIZATION	Previous Budgets	2017 Estimate	FORECAST 2018	2019	2020	2021	2022	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	-	1,038	-	-	-	-	-	-	1,038
Financed by:									
Cash to Capital		1,038						-	1,038

CASH FLOW	2017	2018	2019	2020	2021	2022	Beyond 2022	Total
Project Costs ($000's)	1,038	-	-	-	-	-	-	1,038
Financed by:								
Cash to Capital	1,038							1,038

NET OPERATING IMPACT ($000's)	2017	2018	2019
Operating costs			
External debt and finance charges			
Transfer to General Capital Fund	1,038		
Total Direct Costs	1,038	-	-
Less: Incremental Revenue/Recovery			
Net Cost/(Benefit)	1,038	-	-
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: 5

Capital funding is required for the development of spray pad adjacent to North Centennial Recreation and Leisure Facility located at 90 Sinclair Street.

Since 2003, the City of Winnipeg has been investing in the development of spray pads as they provide a number of benefits which include: flexibility in operation and design, increased play value serving a variety of age groups, the ability to respond to shifts in temperature and interchangeability of features to meet needs of the community.

There is a need to provide for a more equitable distribution of contemporary seasonal aquatic facilities throughout Winnipeg to meet the changing needs of recreation and aquatic facility users. Old Ex Park Wading Pool is an aging facility and the pool basin is in need of major repair.

There are currently no spray pads located in Dufferin neighbourhood which is considered one of the highest needs neighbourhoods in Winnipeg.

Upon completion of the North Centennial Recreation and Leisure Facility spray pad, the current Old Ex Wading Pool at 96 Sinclair Street will be decommissioned.

Capital funding in 2017 is required for the planning, design and build of the spray pad and for the decommissioning of the Old Ex Wading Pool at 96 Sinclair Street. Construction will not commence until a class 3 estimate is obtained.

Project Name: **Business Application Systems**

Standing Policy Committee: Protection, Community Services and Parks

Department: Community Services
Project: 6262600117

Service: Recreation
OurWinnipeg: Recreation

AUTHORIZATION	Previous Budgets	2017 Estimate	FORECAST 2018	2019	2020	2021	2022	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	N/A *	142	306	312	-	-	-	618	760
Financed by:									
Cash to Capital		142	306	312				618	760

CASH FLOW	2017	2018	2019	2020	2021	2022	Beyond 2022	Total
Project Costs ($000's)	142	306	312	-	-	-	-	760
Financed by:								
Cash to Capital	142	306	312					760

NET OPERATING IMPACT ($000's)	2017	2018	2019
Operating costs			
External debt and finance charges			
Transfer to General Capital Fund	142	306	312
Total Direct Costs	142	306	312
Less: Incremental Revenue/Recovery			
Net Cost/(Benefit)	142	306	312
Incremental Full Time Equivalent Positions	-	-	-

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

Capital funding is required for the upgrade and/or implementation of business application systems within the Community Services Department and/or City as a whole (e.g., ActiveNet, Amanda, E-Cash, Neighbourhoods of Winnipeg [neighbourhood profiles]) to improve the delivery of public services. These systems will be designed to introduce new technologies, to integrate with other departmental and corporate systems, and to incorporate web services to customers where possible. This project will provide more convenient, efficient and cost-effective public service.

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

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

Standing Policy Committee: Protection, Community Services and Parks

Department: Community Services
Project: 6262600217

Service: Recreation
OurWinnipeg: Recreation

AUTHORIZATION	Previous Budgets	2017 Estimate	FORECAST 2018	2019	2020	2021	2022	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	N/A *	-	306	-	-	325	-	631	631
Financed by:									
Cash to Capital			306			325		631	631

CASH FLOW	2017	2018	2019	2020	2021	2022	Beyond 2022	Total
Project Costs ($000's)	-	306	-	-	325	-	-	631
Financed by:								
Cash to Capital		306			325			631

NET OPERATING IMPACT ($000's)	2017	2018	2019
Operating costs			
External debt and finance charges			
Transfer to General Capital Fund		306	
Total Direct Costs	-	306	-
Less: Incremental Revenue/Recovery			
Net Cost/(Benefit)	-	306	-
Incremental Full Time Equivalent Positions	-	-	-

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

Capital funding is required in order to maintain life cycle replacement schedules of existing hardware as the Computer Replacement Reserve will be insufficient to meet required needs.

* 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: 6252000117

Service: Recreation
OurWinnipeg: Recreation

AUTHORIZATION	Previous Budgets	2017 Estimate	FORECAST 2018	2019	2020	2021	2022	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	N/A *	965	965	965	965	965	965	4,825	5,790
Financed by:									
Cash to Capital						144	919	1,063	1,063
Land Operating Reserve		965	965	965	965	821	46	3,762	4,727

CASH FLOW	2017	2018	2019	2020	2021	2022	Beyond 2022	Total
Project Costs ($000's)	965	965	965	965	965	965	-	5,790
Financed by:								
Cash to Capital					144	919		1,063
Land Operating Reserve	965	965	965	965	821	46		4,727

NET OPERATING IMPACT ($000's)	2017	2018	2019
Operating costs			
External 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 January 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 GCWCC community centres 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.

The creation of the annual CCRGP of up to $965,000 each year 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 2017 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 2015).

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 2021, 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.

On March 22, 2016 Council authorized that the Community Centre Renovation Grant Program interim finance up to $167,000 funding shortfall in 2016 for the Garden City Community Centre Seven Oaks Arena project. Future negotiations with the Province of Manitoba will establish repayment of this amount from 2017 Manitoba Winnipeg Infrastructure Agreement.

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: 6251000117

Service: Neighbourhood Revitalization
OurWinnipeg: Recreation

AUTHORIZATION	Previous Budgets	2017 Estimate	FORECAST 2018	2019	2020	2021	2022	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	N/A *	1,698	1,732	1,767	1,802	1,838	1,875	9,014	10,712
Financed by:									
Cash to Capital		1,698	1,732	1,767	1,802	1,838	1,875	9,014	10,712

CASH FLOW	2017	2018	2019	2020	2021	2022	Beyond 2022	Total
Project Costs ($000's)	1,698	1,732	1,767	1,802	1,838	1,875	-	10,712
Financed by:								
Cash to Capital	1,698	1,732	1,767	1,802	1,838	1,875		10,712

NET OPERATING IMPACT ($000's)	2017	2018	2019
Operating costs			
External debt and finance charges			
Transfer to General Capital Fund	1,698	1,732	1,767
Total Direct Costs	1,698	1,732	1,767
Less: Incremental Revenue/Recovery			
Net Cost/(Benefit)	1,698	1,732	1,767
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.

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.

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: 6206402017
Service: Arts, Entertainment and Culture
OurWinnipeg: Creativity

AUTHORIZATION	Previous Budgets	2017 Estimate	FORECAST 2018	2019	2020	2021	2022	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	N/A *	5,123	5,123	5,123	2,000	2,000	2,000	16,246	21,369
Financed by:									
Cash to Capital		1,543	5,123	5,123	2,000	2,000	2,000	16,246	17,789
Transfer from Corporate Non-Specified Capital Account		3,580							3,580

CASH FLOW	2017	2018	2019	2020	2021	2022	Beyond 2022	Total
Project Costs ($000's)	5,123	5,123	5,123	2,000	2,000	2,000	-	21,369
Financed by:								
Cash to Capital	1,543	5,123	5,123	2,000	2,000	2,000		17,789
Transfer from Corporate Non-Specified Capital Account	3,580							3,580

NET OPERATING IMPACT ($000's)	2017	2018	2019
Operating costs			
External debt and finance charges			
Transfer to General Capital Fund	1,543	5,123	5,123
Total Direct Costs	1,543	5,123	5,123
Less: Incremental Revenue/Recovery			
Net Cost/(Benefit)	1,543	5,123	5,123
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 project was 2010 ($5.123 million each year from 2010 to 2016).

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

On April 24, 2013 Council adopted a first charge on the 2014 Capital Budget of up to $3.123 million prior to the adoption of the 2014 Capital Budget to allow for the timely replacement of the Zoo South Gate project.

On December 17, 2013 Council adopted a first charge of up to $2.082 million in 2014 or prior to the adoption of the 2015 Capital Budget to facilitate timely work on the Infrastructure and Sustainability Plan.

On March 23, 2015 Council adopted a first charge of up to $1.041 million in 2015 or prior to the adoption of the 2016 Capital Budget to facilitate timely work on the Infrastructure and Sustainability Plan.

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: **North Station Information Technology Requirements**

Standing Policy Committee: Winnipeg Police Board

Department: Winnipeg Police Service
Project: 2201700018

Service: Police Response
OurWinnipeg: Collaborate to Make Safe Communities

AUTHORIZATION	Previous Budgets	2017 Estimate	FORECAST 2018	2019	2020	2021	2022	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	-	-	490	-	-	-	-	490	490
Financed by:									
Cash to Capital			490					490	490

CASH FLOW	2017	2018	2019	2020	2021	2022	Beyond 2022	Total
Project Costs ($000's)	-	490	-	-	-	-	-	490
Financed by:								
Cash to Capital		490						490

NET OPERATING IMPACT ($000's)	2017	2018	2019
Operating costs			
External debt and finance charges			
Transfer to General Capital Fund		490	
Total Direct Costs	-	490	-
Less: Incremental Revenue/Recovery			
Net Cost/(Benefit)	-	490	-
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 2017/18.

As this project is priced in US dollars, the exchange rate in effect at the time of budgeting is $1 US = $1.3173 Canadian.

Project Name: **Police Divisions Systems Upgrades**

Standing Policy Committee: Winnipeg Police Board
Department: Winnipeg Police Service
Project: 2201100017
Service: Police Response
OurWinnipeg: Collaborate to Make Safe Communities

AUTHORIZATION	Previous Budgets	2017 Estimate	FORECAST 2018	2019	2020	2021	2022	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	6,952	1,667	800	-	-	-	-	800	2,467
Financed by:									
Cash to Capital		1,667	800					800	2,467

CASH FLOW	2017	2018	2019	2020	2021	2022	Beyond 2022	Total
Project Costs ($000's)	1,667	800	-	-	-	-	-	2,467
Financed by:								
Cash to Capital	1,667	800						2,467

NET OPERATING IMPACT ($000's)	2017	2018	2019
Operating costs			
External debt and finance charges			
Transfer to General Capital Fund	1,667	800	
Total Direct Costs	1,667	800	-
Less: Incremental Revenue/Recovery			
Net Cost/(Benefit)	1,667	800	-
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: 3

The Police Service has identified a number of long-term information upgrades required including:

In $000s	2017	2018	2019	2020	2021	2022	Total
Networking system upgrade	900	800					1,700
Other Police system upgrades	767						767
Total	**1,667**	**800**	**-**	**-**	**-**	**-**	**2,467**

Project Name: **Major Case Management System Expansion**

Standing Policy Committee: Winnipeg Police Board

Department: Winnipeg Police Service
Project: 2202700019

Service: Police Response
OurWinnipeg: Collaborate to Make Safe Communities

AUTHORIZATION	Previous Budgets	2017 Estimate	FORECAST 2018	2019	2020	2021	2022	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	-	1,158	-	500	-	-	-	500	1,658
Financed by:									
Cash to Capital		1,158		500				500	1,658

CASH FLOW	2017	2018	2019	2020	2021	2022	Beyond 2022	Total
Project Costs ($000's)	1,158	-	500	-	-	-	-	1,658
Financed by:								
Cash to Capital	1,158		500					1,658

NET OPERATING IMPACT ($000's)	2017	2018	2019
Operating costs			
External debt and finance charges			
Transfer to General Capital Fund	1,158		500
Total Direct Costs	1,158	-	500
Less: Incremental Revenue/Recovery			
Net Cost/(Benefit)	1,158	-	500
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.

On March 22, 2016, Council approved the Major Case Management System Expansion capital project authorization and forecast at $1.658 million ($1.158 million for 2016; $0.5 million for 2019). On November 4, 2016, Winnipeg Police Board approved the appropriation transfer from non-salary account to salary budget. As the September 30, 2016 financial projection anticipates a number of increases in salary costs, supplementary funding was derived from the deferral of the Major Case Management System project from 2016 to 2017. The project is now budgeted in 2017 and included in the 2019 capital forecast.

The Police Service plans to upgrade the Major Case Management system in 2019.

Project Name: **Police Headquarters Building Systems Safeguards**

Standing Policy Committee: Winnipeg Police Board
Department: Winnipeg Police Service
Project: 6395200115
Service: Police Response
OurWinnipeg: Collaborate to Make Safe Communities

AUTHORIZATION	Previous Budgets	2017 Estimate	FORECAST 2018	2019	2020	2021	2022	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	1,990	510	-	-	-	-	-	-	510
Financed by:									
Transfer from Prior Year Authorization		510						-	510

CASH FLOW	2017	2018	2019	2020	2021	2022	Beyond 2022	Total
Project Costs ($000's)	510	-	-	-	-	-	-	510
Financed by:								
Transfer from Prior Year Authorization	510							510

NET OPERATING IMPACT ($000's)	2017	2018	2019
Operating costs			
External 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 is to provide security and workplace safeguards to various building systems at the 245 Smith Street complex and includes interior, accessibility, elevator, escalator, heating, ventilation, air conditioning, electrical, plumbing, parking lot, site, building envelope and structural improvements.

Priority planned expenditures include the following:

UPS redundant cooling system
Lack of independent water supply redundancy
Overall building strategy / design for single point failure
Monitoring of freezer and cooler in evidence storage room
Sealed flooring over electrical room
Various building system upgrades

Funding in 2017 includes rebudgeted amounts from previously approved capital budgets - see Appendix 4.

Project Name: **East District Police Station**

Standing Policy Committee: Winnipeg Police Board

Department: Winnipeg Police Service
Project: 6331002815

Service: Police Response
OurWinnipeg: Collaborate to Make Safe Communities

AUTHORIZATION	Previous Budgets	2017 Estimate	FORECAST 2018	2019	2020	2021	2022	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	13,925	-	-	-	-	-	-	-	-
Financed by:									
Cash to Capital		990	1,012	1,056	1,056	1,056	1,056	5,236	6,226
Public Private Partnership Lease Payments		(990)	(1,012)	(1,056)	(1,056)	(1,056)	(1,056)	(5,236)	(6,226)

CASH FLOW	2017	2018	2019	2020	2021	2022	Beyond 2022	Total
Project Costs ($000's)	-	-	-	-	-	-	-	-
Financed by:								
Cash to Capital	990	1,012	1,056	1,056	1,056	1,056	20,405	26,631
Public Private Partnership Lease Payments	(990)	(1,012)	(1,056)	(1,056)	(1,056)	(1,056)	(20,405)	(26,631)

NET OPERATING IMPACT ($000's)	2017	2018	2019
Operating costs	421	421	399
External debt and finance charges			
Transfer to General Capital Fund	990	1,012	1,056
Total Direct Costs	1,411	1,433	1,455
Less: Incremental Revenue/Recovery			
Net Cost/(Benefit)	1,411	1,433	1,455
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 administration and short-term financing charges.

This capital detail sheet was prepared by Planning, Property and Development.

On December 10, 2014 Council authorized expenditure of up to $330,000 prior to the adoption of the 2015 Capital Budget as a first charge against the General Capital Fund to make scheduled monthly payments to the P3 contract.

On December 9, 2015 Council adopted a first charge of up to $247,500 in 2016 or prior to the adoption of the 2016 Capital Budget in order to make scheduled payments to the P3 contract.

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 respet of Public-Private Partnerships, as a first charge against the General Capital Fund. The amount for 2018 is $247,500 and represents 24% of the 2018 budget.

Project Name: **North District Police Station**

Standing Policy Committee: Winnipeg Police Board

Department: Winnipeg Police Service
Project: 6322002817

Service: Police Response
OurWinnipeg: Collaborate to Make Safe Communities

AUTHORIZATION	Previous Budgets	2017 Estimate	FORECAST 2018	2019	2020	2021	2022	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	3,129	20,000	-	-	-	-	-	-	20,000
Financed by:									
External Debt		20,000						-	20,000

CASH FLOW	2017	2018	2019	2020	2021	2022	Beyond 2022	Total
Project Costs ($000's)	-	15,000	5,000	-	-	-	-	20,000
Financed by:								
External Debt		15,000	5,000					20,000

NET OPERATING IMPACT ($000's)	2017	2018	2019
Operating costs			
External debt and finance charges		629	1,420
Transfer to General Capital Fund			
Total Direct Costs	-	629	1,420
Less: Incremental Revenue/Recovery			
Net Cost/(Benefit)	-	629	1,420
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: 5

The 2012 Adopted Capital Budget and 2013 to 2017 Five-Year Forecast approved by Council on December 13, 2011 included estimated budget required to procure the north district station including, potential property and purchasing the necessary furniture and special equipment.

On June 26, 2013, Council adopted the Police Building Replacement - Funding Strategy and Approval for Purchase at Total Performance of the West District Police Station (WDPS). The estimated $20 million cost to construct the North District Police Station (NDPS is based upon the 2013 acquisition cost of the WDPS adjusted for annual construction inflation of 4% to 5%.

This capital detail sheet is based on the assumption that Previous Budgets amount of $3.129 million will be sufficient to acquire and/or remediate land and for any changes required to the design that was used for the East and West District Police Stations to conform with the National Building Code.

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

This capital detail sheet was prepared by Planning, Property and Development.

Project Name: **Building Video Surveillance Systems**

Standing Policy Committee: Winnipeg Police Board
Department: Winnipeg Police Service
Project: 2202400021
Service: Police Response
OurWinnipeg: Collaborate to Make Safe Communities

AUTHORIZATION	Previous Budgets	2017 Estimate	FORECAST 2018	2019	2020	2021	2022	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	-	-	-	-	-	4,160	-	4,160	4,160
Financed by:									
Cash to Capital						4,160		4,160	4,160

CASH FLOW	2017	2018	2019	2020	2021	2022	Beyond 2022	Total
Project Costs ($000's)	-	-	-	-	4,160	-	-	4,160
Financed by:								
Cash to Capital					4,160			4,160

NET OPERATING IMPACT ($000's)	2017	2018	2019
Operating costs			
External 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.

As this project is priced in US dollars, the exchange rate in effect at the time of budgeting is $1 US = $1.3173 Canadian.

Project Name: **Intelligence Led Reporting (Phase 2)**

Standing Policy Committee: Winnipeg Police Board

Department: Winnipeg Police Service
Project: 2202600018

Service: Police Response
OurWinnipeg: Collaborate to Make Safe Communities

AUTHORIZATION	Previous Budgets	2017 Estimate	FORECAST 2018	2019	2020	2021	2022	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	-	-	1,665	-	-	-	-	1,665	1,665
Financed by:									
Cash to Capital			1,665					1,665	1,665

CASH FLOW	2017	2018	2019	2020	2021	2022	Beyond 2022	Total
Project Costs ($000's)	-	1,665	-	-	-	-	-	1,665
Financed by:								
Cash to Capital		1,665						1,665

NET OPERATING IMPACT ($000's)	2017	2018	2019
Operating costs			
External debt and finance charges			
Transfer to General Capital Fund		1,665	
Total Direct Costs	-	1,665	-
Less: Incremental Revenue/Recovery			
Net Cost/(Benefit)	-	1,665	-
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: 3

To provide funding for Intelligence Led Reporting which is crime-fighting that is guided by effective intelligence gathering and analysis, resulting in proactive, targeted, solution-oriented policing. Merged funding from another project.

As this project is priced in US dollars, the exchange rate in effect at the time of budgeting is $1 US = $1.3173 Canadian.

Project Name: **WPS Data Integration, Auditing and Quality Solution Tool**

Standing Policy Committee: Winnipeg Police Board
Department: Winnipeg Police Service
Project: 2202900018
Service: Police Response
OurWinnipeg: Collaborate to Make Safe Communities

AUTHORIZATION	Previous Budgets	2017 Estimate	FORECAST 2018	2019	2020	2021	2022	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	-	-	662	-	-	-	-	662	662
Financed by:									
Cash to Capital			662					662	662

CASH FLOW	2017	2018	2019	2020	2021	2022	Beyond 2022	Total
Project Costs ($000's)	-	662	-	-	-	-	-	662
Financed by:								
Cash to Capital		662						662

NET OPERATING IMPACT ($000's)	2017	2018	2019
Operating costs			
External debt and finance charges			
Transfer to General Capital Fund		662	
Total Direct Costs	-	662	-
Less: Incremental Revenue/Recovery			
Net Cost/(Benefit)	-	662	-
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: 3

To provide funding for a uniform strategy/tool for service wide integration, auditing and quality solution management software.

As this project is priced in US dollars, the exchange rate in effect at the time of budgeting is $1 US = $1.3173 Canadian.

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

Standing Policy Committee: Winnipeg Police Board
Department: Winnipeg Police Service
Project: 2200000714
Service: Police Response
OurWinnipeg: Collaborate to Make Safe Communities

AUTHORIZATION	Previous Budgets	2017 Estimate	FORECAST 2018	2019	2020	2021	2022	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	2017	2018	2019	2020	2021	2022	Beyond 2022	Total
Project Costs ($000's)	-	-	-	-	500	-	-	500
Financed by:								
Cash to Capital					500			500

NET OPERATING IMPACT ($000's)	2017	2018	2019
Operating costs			
External 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 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.

As this project is priced in US dollars, the exchange rate in effect at the time of budgeting is $1 US = $1.3173 Canadian.

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	2017 Estimate	FORECAST 2018	2019	2020	2021	2022	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	-	-	-	1,200	-	-	-	1,200	1,200
Financed by:									
Cash to Capital				1,200				1,200	1,200

CASH FLOW	2017	2018	2019	2020	2021	2022	Beyond 2022	Total
Project Costs ($000's)	-	-	1,200	-	-	-	-	1,200
Financed by:								
Cash to Capital			1,200					1,200

NET OPERATING IMPACT ($000's)	2017	2018	2019
Operating costs			
External debt and finance charges			
Transfer to General Capital Fund			1,200
Total Direct Costs	-	-	1,200
Less: Incremental Revenue/Recovery			
Net Cost/(Benefit)	-	-	1,200
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.

As this project is priced in US dollars, the exchange rate in effect at the time of budgeting is $1 US = $1.3173 Canadian.

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	2017 Estimate	FORECAST 2018	2019	2020	2021	2022	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	-	-	-	1,247	253	-	-	1,500	1,500
Financed by:									
Cash to Capital				1,247	253			1,500	1,500

CASH FLOW	2017	2018	2019	2020	2021	2022	Beyond 2022	Total
Project Costs ($000's)	-	-	1,247	253	-	-	-	1,500
Financed by:								
Cash to Capital			1,247	253				1,500

NET OPERATING IMPACT ($000's)	2017	2018	2019
Operating costs			
External debt and finance charges			
Transfer to General Capital Fund			1,247
Total Direct Costs	-	-	1,247
Less: Incremental Revenue/Recovery			
Net Cost/(Benefit)	-	-	1,247
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. Additional funds of $100,000 are 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.

As this project is priced in US dollars, the exchange rate in effect at the time of budgeting is $1 US = $1.3173 Canadian.

Project Name: **Bomb Unit Truck Replacement**

Standing Policy Committee: Winnipeg Police Board
Department: Winnipeg Police Service
Project: 2203800018
Service: Police Response
OurWinnipeg: Collaborate to Make Safe Communities

AUTHORIZATION	Previous Budgets	2017 Estimate	FORECAST 2018	2019	2020	2021	2022	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	-	-	300	-	-	-	-	300	300
Financed by:									
Cash to Capital			300					300	300

CASH FLOW	2017	2018	2019	2020	2021	2022	Beyond 2022	Total
Project Costs ($000's)	-	300	-	-	-	-	-	300
Financed by:								
Cash to Capital		300						300

NET OPERATING IMPACT ($000's)	2017	2018	2019
Operating costs			
External debt and finance charges			
Transfer to General Capital Fund		300	
Total Direct Costs	-	300	-
Less: Incremental Revenue/Recovery			
Net Cost/(Benefit)	-	300	-
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: 3

The current bomb unit truck will need to be replaced as it is coming to its end of life.

As this project is priced in US dollars, the exchange rate in effect at the time of budgeting is $1 US = $1.3173 Canadian.

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	2017 Estimate	FORECAST 2018	2019	2020	2021	2022	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	2017	2018	2019	2020	2021	2022	Beyond 2022	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)	2017	2018	2019
Operating costs			
External 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

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.

As this project is priced in US dollars, the exchange rate in effect at the time of budgeting is $1 US = $1.3173 Canadian.

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

Standing Policy Committee: Winnipeg Police Board
Department: Winnipeg Police Service
Project: 2202900020
Service: Police Response
OurWinnipeg: Collaborate to Make Safe Communities

AUTHORIZATION	Previous Budgets	2017 Estimate	FORECAST 2018	2019	2020	2021	2022	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	-	-	-	-	-	550	-	550	550
Financed by:									
Cash to Capital						550		550	550

CASH FLOW	2017	2018	2019	2020	2021	2022	Beyond 2022	Total
Project Costs ($000's)	-	-	-	-	550	-	-	550
Financed by:								
Cash to Capital					550			550

NET OPERATING IMPACT ($000's)	2017	2018	2019
Operating costs			
External 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

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.

As this project is priced in US dollars, the exchange rate in effect at the time of budgeting is $1 US = $1.3173 Canadian.

Project Name: **Police Vehicle Operations Building**

Standing Policy Committee: Winnipeg Police Board
Department: Winnipeg Police Service
Project: 2204300020
Service: Police Response
OurWinnipeg: Collaborate to Make Safe Communities

AUTHORIZATION	Previous Budgets	2017 Estimate	FORECAST 2018	2019	2020	2021	2022	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	-	-	-	1,820	-	-	-	1,820	1,820
Financed by:									
Cash to Capital				1,820				1,820	1,820

CASH FLOW	2017	2018	2019	2020	2021	2022	Beyond 2022	Total
Project Costs ($000's)	-	-	1,820	-	-	-	-	1,820
Financed by:								
Cash to Capital			1,820					1,820

NET OPERATING IMPACT ($000's)	2017	2018	2019
Operating costs			
External debt and finance charges			
Transfer to General Capital Fund			1,820
Total Direct Costs	-	-	1,820
Less: Incremental Revenue/Recovery			
Net Cost/(Benefit)	-	-	1,820
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: 5

The Police Vehicle Operations requires a building for the unit. A new building, fully functional with office area, and good washroom facilities are required.

Project Name: **Archival and Exhibit Building**

Standing Policy Committee: Winnipeg Police Board
Department: Winnipeg Police Service
Project: 220500018
Service: Police Response
OurWinnipeg: Collaborate to Make Safe Communities

AUTHORIZATION	Previous Budgets	2017 Estimate	FORECAST 2018	2019	2020	2021	2022	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	-	-	2,519	-	-	-	-	2,519	2,519
Financed by:									
Cash to Capital			580					580	580
Internal Financing			1,939					1,939	1,939

CASH FLOW	2017	2018	2019	2020	2021	2022	Beyond 2022	Total
Project Costs ($000's)	-	2,519	-	-	-	-	-	2,519
Financed by:								
Cash to Capital		580						580
Internal Financing		1,939						1,939

NET OPERATING IMPACT ($000's)	2017	2018	2019
Operating costs			
Debt and finance charges		414	414
Transfer to General Capital Fund		580	
Total Direct Costs	-	994	414
Less: Incremental Revenue/Recovery			
Net Cost/(Benefit)	-	994	414
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 the additional number of exhibits that need to be stored, space requirements continue to grow.

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	2017 Estimate	FORECAST 2018	2019	2020	2021	2022	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	-	250	-	-	255	-	-	255	505
Financed by:									
Cash to Capital		250			255			255	505

CASH FLOW	2017	2018	2019	2020	2021	2022	Beyond 2022	Total
Project Costs ($000's)	250	-	-	255	-	-	-	505
Financed by:								
Cash to Capital	250			255				505

NET OPERATING IMPACT ($000's)	2017	2018	2019
Operating costs			
External debt and finance charges			
Transfer to General Capital Fund	250		
Total Direct Costs	250	-	-
Less: Incremental Revenue/Recovery			
Net Cost/(Benefit)	250	-	-
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 2015. 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.

As this project is priced in US dollars, the exchange rate in effect at the time of budgeting is $1 US = $1.3173 Canadian.

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	2017 Estimate	FORECAST 2018	2019	2020	2021	2022	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	-	-	-	-	-	500	-	500	500
Financed by:									
Cash to Capital						500		500	500

CASH FLOW	2017	2018	2019	2020	2021	2022	Beyond 2022	Total
Project Costs ($000's)	-	-	-	-	500	-	-	500
Financed by:								
Cash to Capital					500			500

NET OPERATING IMPACT ($000's)	2017	2018	2019
Operating costs			
External 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 Schedule and Management System is an in-house developed rostering and overtime system. It will have been in production for about 20 years in 2021 and will require a major re-write.

As this project is priced in US dollars, the exchange rate in effect at the time of budgeting is $1 US = $1.3173 Canadian.

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	2017 Estimate	FORECAST 2018	2019	2020	2021	2022	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	2017	2018	2019	2020	2021	2022	Beyond 2022	Total
Project Costs ($000's)	-	-	-	-	-	1,000	-	1,000
Financed by:								
Cash to Capital						1,000		1,000

NET OPERATING IMPACT ($000's)	2017	2018	2019
Operating costs			
External 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.

As this project is priced in US dollars, the exchange rate in effect at the time of budgeting is $1 US = $1.3173 Canadian.

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	2017 Estimate	FORECAST 2018	2019	2020	2021	2022	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	2017	2018	2019	2020	2021	2022	Beyond 2022	Total
Project Costs ($000's)	-	-	-	-	2,100	-	-	2,100
Financed by:								
Cash to Capital					2,100			2,100

NET OPERATING IMPACT ($000's)	2017	2018	2019
Operating costs			
External 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 Winnipeg Police Service has identified a number of information system upgrades required as the headquarters (HQ) items placed in 2014 will need replacing:

HQ IT server and storage replacement	420
HQ Network Switching and Firewall Equipment	1,680
	2,100

As this project is priced in US dollars, the exchange rate in effect at the time of budgeting is $1 US = $1.3173 Canadian.

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	2017 Estimate	FORECAST 2018	2019	2020	2021	2022	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	-	-	-	-	-	-	658	658	658
Financed by:									
Cash to Capital							658	658	658

CASH FLOW	2017	2018	2019	2020	2021	2022	Beyond 2022	Total
Project Costs ($000's)	-	-	-	-	-	658	-	658
Financed by:								
Cash to Capital						658		658

NET OPERATING IMPACT ($000's)	2017	2018	2019
Operating costs			
External 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 for the helicopter.

As this project is priced in US dollars, the exchange rate in effect at the time of budgeting is $1 US = $1.3173 Canadian.

Project Name: **JSI Voice Intercept System**

Standing Policy Committee: Winnipeg Police Board

Department: Winnipeg Police Service
Project: 2205400022

Service: Police Response
OurWinnipeg: Collaborate to Make Safe Communities

AUTHORIZATION	Previous Budgets	2017 Estimate	FORECAST 2018	2019	2020	2021	2022	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	-	-	-	-	-	-	700	700	700
Financed by:									
Cash to Capital							700	700	700

CASH FLOW	2017	2018	2019	2020	2021	2022	Beyond 2022	Total
Project Costs ($000's)	-	-	-	-	-	700	-	700
Financed by:								
Cash to Capital						700		700

NET OPERATING IMPACT ($000's)	2017	2018	2019
Operating costs			
External 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 JSI system and the data intercept system.

As this project is priced in US dollars, the exchange rate in effect at the time of budgeting is $1 US = $1.3173 Canadian.

Project Name: **Facilities Optimization**

Standing Policy Committee: Protection, Community Services and Parks

Department: Winnipeg Fire Paramedic Service

Service: Fire and Rescue Response

Project: 2111XXXX17

OurWinnipeg: Emergency Preparedness, Response and Recovery

AUTHORIZATION	Previous Budgets	2017 Estimate	FORECAST 2018	2019	2020	2021	2022	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	N/A *	925	3,934	6,339	-	-	-	10,273	11,198
Financed by:									
Cash to Capital		925	2,717	4,839				7,556	8,481
External Debt			1,217	1,500				2,717	2,717

CASH FLOW	2017	2018	2019	2020	2021	2022	Beyond 2022	Total
Project Costs ($000's)	925	3,934	6,339	-	-	-	-	11,198
Financed by:								
Cash to Capital	925	2,717	4,839					8,481
External Debt		1,217	1,500					2,717

NET OPERATING IMPACT ($000's)	2017	2018	2019
Operating costs			
External Debt and finance charges		51	149
Transfer to General Capital Fund	925	2,717	4,839
Total Direct Costs	925	2,768	4,988
Less: Incremental Revenue/Recovery	148	629	1,014
Net Cost/(Benefit)	777	2,139	3,974
Incremental Full Time Equivalent Positions	-	1.00	1.00

Class Estimate: 3 - applies to 2017 only

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 is scheduled to begin in 2016 and be completed in 2017. 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:

2017:

- Develop the third strategic planning document 'Master Plan' that will define future year optimization. This builds upon the Fire Underwriters Survey and the Standards of Coverage. Together these plans provide the blueprint from which the department intends to optimize the distribution of station assets across the city to ensure response is in line with service standards at minimum cost to the City.

- Station 9 (Marion) and Station 15 (Autumnwood): Evaluation and design work for the potential consolidation of these stations and provide a class 3 estimate for the work.

Facilities Optimization (continued):

2018:

- Station 9 (Marion) and Station 15 (Autumnwood): Acquisition of land and award of construction contract and initiation of work.

- One further evaluation and design work for station optimization - to be identified following Standards of Coverage. At this stage Station 19 (Whytewold) is deemed the highest priority for review with a proposed amalgamation with Station 36 (Portage) a possibility.

2019:

- Station 9 (Marion) and Station 15 (Autumnwood): Completion of work.

For 2020 onwards:

- Once the program redefinition is complete the department will submit revised plans to address required consolidations and replacements.

* 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: Fire and Rescue Response

Project: 2104XXXX17

OurWinnipeg: Emergency Preparedness, Response and Recovery

AUTHORIZATION	Previous Budgets	2017 Estimate	FORECAST 2018	2019	2020	2021	2022	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	N/A *	1,487	1,010	4,052	739	739	4,629	11,169	12,656
Financed by:									
Cash to Capital		1,487	1,010	4,052	739	739	4,629	11,169	12,656

CASH FLOW	2017	2018	2019	2020	2021	2022	Beyond 2022	Total
Project Costs ($000's)	1,487	1,010	4,052	739	739	4,629	-	12,656
Financed by:								
Cash to Capital	1,487	1,010	4,052	739	739	4,629		12,656

NET OPERATING IMPACT ($000's)	2017	2018	2019
Operating costs			
External Debt and finance charges			
Transfer to General Capital Fund	1,487	1,010	4,052
Total Direct Costs	1,487	1,010	4,052
Less: Incremental Revenue/Recovery	840	552	407
Net Cost/(Benefit)	647	458	3,645
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: 3 - applies to 2017 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:

2017:

- Stair Chairs used to safely and effectively move patients up and down stairs to a stretcher;
- Toughbooks used by paramedics to record critical patient information at scene;
- Cardiac monitor defibrillators to provide mobile patient cardiac monitoring and resuscitation;
- SimMan (mannequin) used for high fidelity emergency medical services training;
- Jaws of Life rescue equipment for motor vehicle collision extrication.

2018 to 2019:

- SCBA (self contained breathing apparatus) to provide air supply for responders working in structural fire events;
- Cardiac monitor defibrillators to provide mobile patient cardiac monitoring and resuscitation;
- Power stretcher replacement;
- Jaws of Life rescue equipment for motor vehicle collision extrication.

Equipment Obsolescence (continued):

2020 to 2022:

- Stair Chairs used to safely and effectively move patients up and down stairs to a stretcher;
- Toughbooks used by paramedics to record critical patient information at scene;
- Cardiac monitor defibrillators to provide mobile patient cardiac monitoring and resuscitation;
- Power stretchers to help prevent paramedic injury and provide patients with a smoother transition from incident to ambulance to hospital;
- EMS training mannequins used for high fidelity emergency medical services training;
- Decontamination units to provide a more thorough and efficient cleaning of apparatus;
- Radio equipment replacement.

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

Project Name: **911 Call Centre Resilience**

Standing Policy Committee: Protection, Community Services and Parks

Department: Winnipeg Fire Paramedic Service

Service: Fire and Rescue Response

Project: 2105XXXX17

OurWinnipeg: Emergency Preparedness, Response and Recovery

AUTHORIZATION	Previous Budgets	2017 Estimate	FORECAST 2018	2019	2020	2021	2022	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	255	861	260	-	-	124	-	384	1,245
Financed by:									
Cash to Capital		861	260			124		384	1,245

CASH FLOW	2017	2018	2019	2020	2021	2022	Beyond 2022	Total
Project Costs ($000's)	861	260	-	-	124	-	-	1,245
Financed by:								
Cash to Capital	861	260			124			1,245

OPERATING IMPACT	2017	2018	2019
Operating costs			
External Debt and finance charges			
Transfer to General Capital Fund	861	260	
Total Direct Costs	861	260	-
Less: Incremental Revenue/Recovery	413	125	
Net Cost/(Benefit)	448	135	-
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: 3

In 2014, Council approved funding for the Winnipeg Fire Paramedic Service to upgrade its 911 telephony platform to meet next generation capability in alignment with, and as a joint project with the Winnipeg Police Service.

As a result of this decision, capital funds are required to replace legacy specialist equipment in order to operate with the new emergency call platform. This includes the following:

2017 to 2018:

- Replacement of local console and centralized call centre battery power supplies - to meet legislated 2-hour minimum non-generator based power supply in the event of power outage. Current equipment is at end of life and may not meet requirements.

- Private Branch eXchange (PBX) telephone switch - to meet standards for the 911 platform and provide a workable redundancy option. Current equipment is leased and does not provide required redundancy option.
- Ongoing console replacement - for mechanisms at end of life in 2017.

2021:

- Ongoing console replacement as mechanisms reach end of life.

Project Name: **Computer Aided Dispatch (CAD)**

Standing Policy Committee:	Protection, Community Services and Parks		
Department:	Winnipeg Fire Paramedic Service	Service:	Fire and Rescue Response
Project:	2106XXXX17	OurWinnipeg:	Emergency Preparedness, Response and Recovery

AUTHORIZATION	Previous Budgets	2017 Estimate	FORECAST 2018	2019	2020	2021	2022	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	200	-	7,449	-	-	-	-	7,449	7,449
Financed by:									
Cash to capital			3,536					3,536	3,536
Internal Financing			3,913					3,913	3,913

CASH FLOW	2017	2018	2019	2020	2021	2022	Beyond 2022	Total
Project Costs ($000's)	-	7,449	-	-	-	-	-	7,449
Financed by:								
Cash to Capital		3,536						3,536
Internal Financing		3,913						3,913

OPERATING IMPACT	2017	2018	2019
Operating costs			
Debt and finance charges		836	836
Transfer to General Capital Fund		3,536	
Total Direct Costs	-	4,372	836
Less: Incremental Revenue/Recovery		2,099	401
Net Cost/(Benefit)	-	2,273	435
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: 5

These capital funds are to replace the current Computer Aided Dispatch (CAD) system that manages emergency call taking and fire/ ambulance dispatch functions. The current system does not support the increasing number of interfaces that are required for current and future business processes and is based on outdated 1990 technology. There is also an IT support risk from 2017 onwards.

Discovery work in 2016 has identified significant additional IT risk in retaining existing associated systems that are directly linked to CAD. As a result the project scope may be increased to encompass the seven associated systems that are critical to the departments operation and that may not remain operational following the introduction of the new CAD system. Work being carried out in 2016 and early 2017 will determine: the replacement program for these associated systems; their cost and; optimal implementation timing across multiple years where possible. The cost of this increased scope will be submitted as part of the 2018 budget process.

Computer Aided Dispatch (CAD) (continued):

This project has three main phases:

2015 and 2016

1) Discovery - engage a consultant to assist in documenting current capability, wider organizational system integration/interface requirements and enhancements and provide an overview and specification for the new CAD system. This work will now include the evaluation of existing associated systems, including their criticality and ability to interface with the future CAD and/or their potential replacement timing.

2017

2) Procurement - Vendor 'Request for Proposal' process based on CAD specification and preferred solution arising from the discovery phase.

2018

3) Implementation - undertake the transition from old to new system prior to withdrawal of support for current system.

There is limited opportunity to delay the work as the current CAD support is close to expiry and a working solution must be in place given the criticality of the system to the emergency service. The project has only been deferred until 2018 to enable a class 3 estimate to be provided towards the end of 2016 - this is beyond the timeframe of the 2017 budget process. The cost related to the seven associated systems will be considered in the 2018 budget process as they are beyond the scope of the original CAD project and no details are yet available. The consultants are now working to determine inter-operability potential and alternative cost options for these systems as they develop the specification and procurement plan for the core CAD system.

It is anticipated that a special report to Council will be drafted once the specifications of the system are identified and a preferred solution is selected, along with details of how we will incorporate the migration of the seven associated systems. This report would seek approval of the contract and authorization to commit the capital funding required to complete it. This may require a first call on the 2018 authorization, but will be detailed in the report. Any costs related to the first call will be a class 3 estimate or better.

Project Name: **Station Capital Maintenance**

Standing Policy Committee: Protection, Community Services and Parks

Department: Winnipeg Fire Paramedic Service

Service: Fire and Rescue Response

Project: 2107XXXX17

OurWinnipeg: Emergency Preparedness, Response and Recovery

AUTHORIZATION	Previous Budgets	2017 Estimate	FORECAST 2018	2019	2020	2021	2022	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	N/A *	1,938	2,852	1,270	4,400	7,743	2,801	19,066	21,004
Financed by:									
Cash to Capital		1,938	2,852	1,270	4,400	7,743	2,801	19,066	21,004

CASH FLOW	2017	2018	2019	2020	2021	2022	Beyond 2022	Total
Project Costs ($000's)	1,938	2,852	1,270	4,400	7,743	2,801	-	21,004
Financed by:								
Cash to Capital	1,938	2,852	1,270	4,400	7,743	2,801		21,004

OPERATING IMPACT	2017	2018	2019
Operating costs			
External Debt and finance charges			
Transfer to General Capital Fund	1,938	2,852	1,270
Total Direct Costs	1,938	2,852	1,270
Less: Incremental Revenue/Recovery	310	456	203
Net Cost/(Benefit)	1,628	2,396	1,067
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: 3 - applies to 2017 only

These capital funds support an ongoing program of repair and structural maintenance work to ensure station asset lives are maximized, thereby ensuring the service has an operable station network from which required emergency response times across the whole city can be provided.

2017:

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:

- Station 1 (Ellen Street) HVAC and perimeter induction system renewal
- Stations 2 (Watt Street), 8 (Kimberly Street), 16 (McGregor Street) and, 17 (Church Avenue) building repairs and reconfiguration
- Station 4 (Osborne Street) window replacement
- Station 5 (Sargent Avenue) structural remediation of apparatus floor
- Station 20 (Banting Street) roof repair
- Routine program of station security upgrades - swipe card entry systems

Station Capital Maintenance (continued):

2018 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 will be 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.

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:	2108XXXXXX	OurWinnipeg:	Emergency Preparedness, Response and Recovery

AUTHORIZATION	Previous Budgets	2017 Estimate	FORECAST 2018	2019	2020	2021	2022	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	-	-	-	-	119	-	-	119	119
Financed by:									
Cash to Capital					119			119	119

CASH FLOW	2017	2018	2019	2020	2021	2022	Beyond 2022	Total
Project Costs ($000's)	-	-	-	119	-	-	-	119
Financed by:								
Cash to Capital				119				119

OPERATING IMPACT	2017	2018	2019
Operating costs			
External 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 Emergency Medical Service (EMS) utilizes a 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 and SimView equipment.

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 and thus maximize the learning experience for the student.

Project Name: **Computer Automation**

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

Department: Planning, Property and Development

Service: Property Asset Management

Project: 63610004XX

OurWinnipeg: Prosperity

AUTHORIZATION	Previous Budgets	2017 Estimate	FORECAST 2018	2019	2020	2021	2022	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	N/A *	-	144	133	119	143	132	671	671
Financed by:									
Cash to Capital			144	133	119	143	132	671	671

CASH FLOW	2017	2018	2019	2020	2021	2022	Beyond 2022	Total
Project Costs ($000's)	-	144	133	119	143	132	-	671
Financed by:								
Cash to Capital		144	133	119	143	132		671

NET OPERATING IMPACT ($000's)	2017	2018	2019
Operating costs			
External debt and finance charges			
Transfer to General Capital Fund		144	133
Total Direct Costs	-	144	133
Less: Incremental Revenue/Recovery		5	4
Net Cost/(Benefit)	-	139	129
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. We can achieve these goals through expansion of online services, office/ workflow automation, re-engineering of legacy systems, electronic documents management, and systems integration (e.g. database synchronization) between our own applications and those of other departments.

It is anticipated that maintaining and improving a solid technological framework can provide the basis for organization improvements that increase efficiency and reliability. In order to improve service delivery, we strive 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: 6351300117

OurWinnipeg: Environment

AUTHORIZATION	Previous Budgets	2017 Estimate	FORECAST 2018	2019	2020	2021	2022	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	N/A *	225	406	411	453	424	420	2,114	2,339
Financed by:									
Cash to Capital		225	406	411	453	424	420	2,114	2,339

CASH FLOW	2017	2018	2019	2020	2021	2022	Beyond 2022	Total
Project Costs ($000's)	225	406	411	453	424	420	-	2,339
Financed by:								
Cash to Capital	225	406	411	453	424	420		2,339

NET OPERATING IMPACT ($000's)	2017	2018	2019
Operating costs			
External debt and finance charges			
Transfer to General Capital Fund	225	406	411
Total Direct Costs	225	406	411
Less: Incremental Revenue/Recovery	7	13	13
Net Cost/(Benefit)	218	393	398
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, Omand's Creek).

Proposed projects for 2017 include, but are not limited to, Riverbank Pathway System signage and trailheads, Kings Park Riverbank Pathways and River Lookout and Norwood Bridge/St. Boniface Hospital River Pathway Improvements.

* 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: 6322100117 — OurWinnipeg: Vitality

AUTHORIZATION	Previous Budgets	2017 Estimate	FORECAST 2018	2019	2020	2021	2022	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	N/A *	408	400	390	398	406	400	1,994	2,402
Financed by:									
Cash to Capital		208	250	240	248	236	236	1,210	1,418
Veterans Affairs Canada		200	150	150	150	170	164	784	984

CASH FLOW	2017	2018	2019	2020	2021	2022	Beyond 2022	Total
Project Costs ($000's)	408	400	390	398	406	400	-	2,402
Financed by:								
Cash to Capital	208	250	240	248	236	236		1,418
Veterans Affairs Canada	200	150	150	150	170	164		984

NET OPERATING IMPACT ($000's)	2017	2018	2019
Operating costs			
External debt and finance charges			
Transfer to General Capital Fund	208	250	240
Total Direct Costs	208	250	240
Less: Incremental Revenue/Recovery	9	10	10
Net Cost/(Benefit)	199	240	230
Incremental Full Time Equivalent Positions	-	-	-

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

City funding is required for the purchase and installation of columbaria and private family estates 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, as existing interment sections are near capacity with less than 12 months of product remaining for sale in some 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 designed 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. Since 2007, VAC have provided $855,000 in funding. There are ongoing discussions to establish a program based on $200,000 per annum for further years to complete the project. The City contributes approximately $1 for every $3 contributed by VAC.

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: 6351800117

OurWinnipeg: Creativity

AUTHORIZATION	Previous Budgets	2017 Estimate	FORECAST 2018	2019	2020	2021	2022	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	N/A *	400	400	400	400	400	400	2,000	2,400
Financed by:									
Cash to Capital		400	400	400	400	400	400	2,000	2,400

CASH FLOW	2017	2018	2019	2020	2021	2022	Beyond 2022	Total
Project Costs ($000's)	400	400	400	400	400	400	-	2,400
Financed by:								
Cash to Capital	400	400	400	400	400	400		2,400

NET OPERATING IMPACT ($000's)	2017	2018	2019
Operating costs			
External debt and finance charges			
Transfer to General Capital Fund	400	400	400
Total Direct Costs	400	400	400
Less: Incremental Revenue/Recovery	13	13	13
Net Cost/(Benefit)	387	387	387
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 2017 - 2022 include but are not limited to:

- Triangular Park

- Air Canada Park

- Old Market Square & links to west exchange (pocket park at Artspace)

- Downtown and Exchange District Pedestrian Facilities Enhancements

- East Exchange Interpretative Strategies

- Albert Street

- Portage-Broadway 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

- Law Courts Addition (connecting along Kennedy with PW)

- Alexander Docks

- Main Street south of Portage

* 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: 6351241517

OurWinnipeg: Creativity

AUTHORIZATION	Previous Budgets	2017 Estimate	FORECAST 2018	2019	2020	2021	2022	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	N/A *	974	400	400	400	400	400	2,000	2,974
Financed by:									
Cash to Capital		400	400	400	400	400	400	2,000	2,400
Transfer from Prior Year Authorization		574						-	574

CASH FLOW	2017	2018	2019	2020	2021	2022	Beyond 2022	Total
Project Costs ($000's)	974	400	400	400	400	400	-	2,974
Financed by:								
Cash to Capital	400	400	400	400	400	400		2,400
Transfer from Prior Year Authorization	574							574

NET OPERATING IMPACT ($000's)	2017	2018	2019
Operating costs			
External debt and finance charges			
Transfer to General Capital Fund	400	400	400
Total Direct Costs	400	400	400
Less: Incremental Revenue/Recovery	20	13	13
Net Cost/(Benefit)	380	387	387
Incremental Full Time Equivalent Positions	-	-	-

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

The City of Winnipeg reinvests in partnered projects in BIZ districts and Neighbourhood Main Streets. These areas have their own distinct character with their own style of mixed-use, walkable business districts which 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 which creates a sense of place and destination in and along Business Improvement Zones and of Image Routes.

2017 - 2022: Projects are adjusted based upon community readiness and partnership opportunities;

West Broadway BIZ; Old St. Vital; Norwood Grove BIZ; South Osborne BIZ; Osborne Village; Transcona BIZ; Project funding will be delivered as a grant to each BIZ group through legally executed Grant Agreements.

Funding in 2017 includes rebudgeted amounts from previously approved capital budgets - see Appendix 4.

* 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: 6351400717

OurWinnipeg: Creativity

AUTHORIZATION	Previous Budgets	2017 Estimate	FORECAST 2018	2019	2020	2021	2022	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	N/A *	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	2017	2018	2019	2020	2021	2022	Beyond 2022	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)	2017	2018	2019
Operating costs			
External debt and finance charges			
Transfer to General Capital Fund	500	500	500
Total Direct Costs	500	500	500
Less: Incremental Revenue/Recovery	10	10	10
Net Cost/(Benefit)	490	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 annually for approval 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: 6321100117

OurWinnipeg: Prosperity

AUTHORIZATION	Previous Budgets	2017 Estimate	FORECAST 2018	2019	2020	2021	2022	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	N/A *	1,800	240	228	274	238	256	1,236	3,036
Financed by:									
Cash to Capital		300	240	228	1,774	238	256	2,736	3,036
Interim Financing from General Capital Fund / (Repayment)		1,500			(1,500)			(1,500)	-

CASH FLOW	2017	2018	2019	2020	2021	2022	Beyond 2022	Total
Project Costs ($000's)	1,800	240	228	274	238	256	-	3,036
Financed by:								
Cash to Capital	300	240	228	1,774	238	256		3,036
Interim Financing from General Capital Fund / (Repayment)	1,500			(1,500)				-

NET OPERATING IMPACT ($000's)	2017	2018	2019
Operating costs			
External debt and finance charges			
Transfer to General Capital Fund	300	240	228
Total Direct Costs	300	240	228
Less: Incremental Revenue/Recovery	29	8	7
Net Cost/(Benefit)	271	232	221
Incremental Full Time Equivalent Positions	-	-	-

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

General provision for the annual acquisition of land for purposes other than regional streets and riverbank property. This provides 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: 6351000217

OurWinnipeg: Environment

AUTHORIZATION	Previous Budgets	2017 Estimate	FORECAST 2018	2019	2020	2021	2022	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	N/A *	280	278	292	274	280	281	1,405	1,685
Financed by:									
Cash to Capital		280	278	292	274	280	281	1,405	1,685

CASH FLOW	2017	2018	2019	2020	2021	2022	Beyond 2022	Total
Project Costs ($000's)	280	278	292	274	280	281	-	1,685
Financed by:								
Cash to Capital	280	278	292	274	280	281		1,685

NET OPERATING IMPACT ($000's)	2017	2018	2019
Operating costs			
External debt and finance charges			
Transfer to General Capital Fund	280	278	292
Total Direct Costs	280	278	292
Less: Incremental Revenue/Recovery	9	9	9
Net Cost/(Benefit)	271	269	283
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: 6351300217

OurWinnipeg: Environment

AUTHORIZATION	Previous Budgets	2017 Estimate	FORECAST 2018	2019	2020	2021	2022	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	N/A *	1,229	1,000	1,000	1,000	1,000	1,000	5,000	6,229
Financed by:									
Cash to Capital		1,000	1,000	1,000	1,000	1,000	1,000	5,000	6,000
Transfer from Prior Year Authorization		229						-	229

CASH FLOW	2017	2018	2019	2020	2021	2022	Beyond 2022	Total
Project Costs ($000's)	1,229	1,000	1,000	1,000	1,000	1,000	-	6,229
Financed by:								
Cash to Capital	1,000	1,000	1,000	1,000	1,000	1,000		6,000
Transfer from Prior Year Authorization	229							229

NET OPERATING IMPACT ($000's)	2017	2018	2019
Operating costs			
External debt and finance charges			
Transfer to General Capital Fund	1,000	1,000	1,000
Total Direct Costs	1,000	1,000	1,000
Less: Incremental Revenue/Recovery	35	33	33
Net Cost/(Benefit)	965	967	967
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 updated with a risk based approach utilizing the proprietary Riverbank Asset Management System (RAMS). 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 $60 million dollars would be required to address the 27 sites identified as "critical" and an additional $150 million to address sites that next 89 sites categorized as "significant" (out of a total of 220 sites assessed on the Red and Assiniboine Rivers). To date, seven 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) and Guay Park (2016) at a total cost of approximately $8.5 million.

Riverbank Stabilization - Physical Asset Protection (continued):

The priority list provided below 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 opportunities to collaborate with other City departments on specific projects can realize cost savings.

The project priority listing as of May 2016, including Class 5 cost estimates, is as follows:

Site	Amount
Assiniboine River - Edgeland to Academy	1,900,000
Red River - Osborne - Brandon to Woodward	2,000,000
Red River - River to Rivergate	2,900,000
Red River - Crescent Drive Park	1,500,000
Red River - St. Cross - Mortimer to Anderson	2,300,000
Red River - Canoe Club	6,100,000
Red River - Lyndale Drive Park and Lawndale to Claremont	3,200,000
Red River - D'arcy Drive	3,600,000
Red River - Tache - Provencher to Cathedrale	1,700,000
Red River - River Road at Minnetonka	1,100,000
Total	**26,300,000**

A geotechnical investigation and monitoring program assessing the riverbank between Alfred and Aberdeen, which was listed in the 2016 Capital Budget, is currently underway within the scope of a project administered by the Department of Public Works (active transportation connection project). Funding for the riverbank stabilization component of this work, estimated at approximately $600,000, will be funded from the 2015 and 2016 capital allocations to the Riverbank Stabilization and Asset Protection Fund.

Geotechnical investigations and monitoring programs at several sites will be initiated in 2016-2017 at sites possibly including Edgeland to Academy, Brandon to Woodward, Canoe Club and River to Rivergate.

See also the riverbank project in Waterworks System "Branch 1 Aqueduct at Seine River - Riverbank Stabilization (East Side)", page 2-213.

Funding in 2017 includes rebudgeted amounts from previously approved capital budgets - see Appendix 4.

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

Project Name: **Building Communities Initiative III**

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

Department: Planning, Property and Development

Service: Neighbourhood Revitalization

Project: 63518004XX

OurWinnipeg: Creativity

AUTHORIZATION	Previous Budgets	2017 Estimate	FORECAST 2018	2019	2020	2021	2022	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	500	-	2,120	2,000	3,780	1,600	-	9,500	9,500
Financed by:									
Cash to Capital			360		190	800		1,350	1,350
Land Operating Reserve			700	1,000	1,700			3,400	3,400
Manitoba Winnipeg Infrastructure Agreement (MWIA)			1,060	1,000	1,890	800		4,750	4,750

CASH FLOW	2017	2018	2019	2020	2021	2022	Beyond 2022	Total
Project Costs ($000's)	-	2,120	2,000	3,780	1,600	-	-	9,500
Financed by:								
Cash to Capital		360		190	800			1,350
Land Operating Reserve		700	1,000	1,700				3,400
Manitoba Winnipeg Infrastructure Agreement (MWIA)		1,060	1,000	1,890	800			4,750

NET OPERATING IMPACT ($000's)	2017	2018	2019
Operating costs			
External debt and finance charges			
Transfer to General Capital Fund		360	
Total Direct Costs	-	360	-
Less: Incremental Revenue/Recovery			
Net Cost/(Benefit)	-	360	-
Incremental Full Time Equivalent Positions	-	-	-

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

The Building Communities Initiative III (BCI) is a capital expenditure program that invests in community infrastructure in Winnipeg's neighbourhoods. The program's goals are to improve living conditions in Winnipeg's neighbourhoods where capital improvements in parks, community facilities, municipal infrastructure, and crime prevention initiatives will have lasting, long-term benefits to the neighbourhood and the larger urban community.

The "Building Communities Initiative III" program is subject to a future agreement between the City of Winnipeg and Province of Manitoba.

The Building Communities Initiative II Agreement specifies that "borrowing or carrying costs including Manitoba's or Winnipeg's finance and administration charges" are ineligible costs under the program. As such, on February 19, 2014, the Chief Financial Officer approved a request by Planning, Property and Development to waive the 1.25% administrative overhead pursuant to Administrative Standard FM-004 and, on April 30, 2014, Council approved the waiver of the 2% interest overhead on the BCI II (Phases I, II and III) capital program.

The "Building Communities Initiative III" program is excluded from interest and administrative overhead capital charges.

Project Name: **Tache Promenade**

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

Department: Planning, Property and Development — Service: City Beautification

Project: 6361000417 — OurWinnipeg: Prosperity

AUTHORIZATION	Previous Budgets	2017 Estimate	FORECAST 2018	2019	2020	2021	2022	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	200	4,303	-	-	-	-	-	-	4,303
Financed by:									
Cash to Capital					3,000			3,000	3,000
Interim Financing from General Capital Fund / (Repayment)		3,000			(3,000)			(3,000)	-
Winnipeg Foundation		1,103						-	1,103
Winnipeg Arts Council		200						-	200

CASH FLOW	2017	2018	2019	2020	2021	2022	Beyond 2022	Total
Project Costs ($000's)	4,303	-	-	-	-	-	-	4,303
Financed by:								
Cash to Capital				3,000				3,000
Interim Financing from General Capital Fund / (Repayment)	3,000			(3,000)				-
Winnipeg Foundation	1,103							1,103
Winnipeg Arts Council	200							200

NET OPERATING IMPACT ($000's)	2017	2018	2019
Operating costs			
External debt and finance charges			
Transfer to General Capital Fund			
Total Direct Costs	-	-	-
Less: Incremental Revenue/Recovery	54		
Net Cost/(Benefit)	(54)	-	-
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: 4

A number of community initiatives are underway to renew the Tache Promenade including enhanced pedestrian connections and viewing locations as well as 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 Tree Top Lookout, including a public art component, and expansion of the sidewalk forming part of the St. Boniface River Trail. Funding in 2017 is for the preliminary design development, public consultation and determination of final budget requirements. The project will not proceed to construction in 2017 until, at minimum, a Class 3 estimate is obtained and sufficient funding is verified.

Tache Promenade (continued):

The $3 million in 2017 will be interim-financed from the General Capital Fund and repaid in 2020 from cash to capital. Total City funding for the project would be:

2014 Tache Promenade	200,000
2014 Parks and Recreation Enhancement Program	100,000
2015 Parks and Recreation Enhancement Program	165,000
2020 Cash to Capital	3,000,000
Land Dedication Reserve Fund	200,000
2016 Parks and Recreation Enhancement Program	220,000
Total City Funding	**3,885,000**

Subject to continued availability of Winnipeg Arts Council ($200,000) and Winnipeg Foundation ($1.103 million) funding and approval by Riel Community Committee of Land Dedication Reserve Funds ($200,000), current total project budget is $5.188 million ($3.885 million + $1.103 million + $200,000). A separate report will be submitted for Council consideration to consolidate all required funding sources.

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Project Name: **General Building Renovation and Refurbishing**

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

Department: Municipal Accommodations

Service: Property Asset Management

Project: 6331000217

OurWinnipeg: Prosperity

AUTHORIZATION	Previous Budgets	2017 Estimate	FORECAST 2018	2019	2020	2021	2022	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	N/A *	222	500	180	500	500	500	2,180	2,402
Financed by:									
Cash to Capital			500	180	500	500	500	2,180	2,180
Transfer from Prior Year Authorization		222						-	222

CASH FLOW	2017	2018	2019	2020	2021	2022	Beyond 2022	Total
Project Costs ($000's)	222	500	180	500	500	500	-	2,402
Financed by:								
Cash to Capital		500	180	500	500	500		2,180
Transfer from Prior Year Authorization	222							222

NET OPERATING IMPACT ($000's)	2017	2018	2019
Operating costs			
External debt and finance charges			
Transfer to General Capital Fund		500	180
Total Direct Costs	-	500	180
Less: Incremental Revenue/Recovery	3	16	6
Net Cost/(Benefit)	(3)	484	174
Incremental Full Time Equivalent Positions	-	-	-

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

This is an on-going 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 to productivity gain for corporate renovations, moves, etc. which facilitate client changes/activities.

Funding in 2017 includes rebudgeted amounts from previously approved capital budgets - see Appendix 4.

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

Project Name: **Accommodation Facilities**

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

Department: Municipal Accommodations

Service: Property Asset Management

Project: 6395000117

OurWinnipeg: Prosperity

AUTHORIZATION	Previous Budgets	2017 Estimate	FORECAST 2018	2019	2020	2021	2022	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	N/A *	425	1,227	784	1,824	1,775	1,956	7,566	7,991
Financed by:									
Cash to Capital		425	527	784	124	75	1,956	3,466	3,891
Land Operating Reserve			700		1,700	1,700		4,100	4,100

CASH FLOW	2017	2018	2019	2020	2021	2022	Beyond 2022	Total
Project Costs ($000's)	425	1,227	784	1,824	1,775	1,956	-	7,991
Financed by:								
Cash to Capital	425	527	784	124	75	1,956		3,891
Land Operating Reserve		700		1,700	1,700			4,100

NET OPERATING IMPACT ($000's)	2017	2018	2019
Operating costs			
External debt and finance charges			
Transfer to General Capital Fund	425	527	784
Total Direct Costs	425	527	784
Less: Incremental Revenue/Recovery	14	26	25
Net Cost/(Benefit)	411	501	759
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.

Projects for 2017 include the following:

1. Structural evaluation and repair - 245 Smith - Safety.

2. Overhead door replacement - 960 Thomas - Safety.

3. Building system upgrades - various locations - Safety, maintenance, service continuity.

4. Street level entrance upgrades - design feasibility study - 365 Main - Maintenance, preservation.

* 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: 6395020115 — OurWinnipeg: Prosperity

AUTHORIZATION	Previous Budgets	2017 Estimate	FORECAST 2018	2019	2020	2021	2022	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	700	-	750	1,495	-	-	-	2,245	2,245
Financed by:									
Cash to Capital			750	1,495				2,245	2,245

CASH FLOW	2017	2018	2019	2020	2021	2022	Beyond 2022	Total
Project Costs ($000's)	-	750	1,495	-	-	-	-	2,245
Financed by:								
Cash to Capital		750	1,495					2,245

NET OPERATING IMPACT ($000's)	2017	2018	2019
Operating costs			
External debt and finance charges			
Transfer to General Capital Fund		750	1,495
Total Direct Costs	-	750	1,495
Less: Incremental Revenue/Recovery		24	49
Net Cost/(Benefit)	-	726	1,446
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.

In 2016/2017, a design specification will be developed based on a recently completed feasibility study report. This information will be used to develop a Class 4 estimate, the design will produce a class 3 estimate which is required before construction can begin. It is expected that work should start in 2018. This work will involve upgrading of HVAC equipment, including additional cooling capacity and improved air balance and building pressurization as a first step in an overall capital improvement plan. Steps will be taken to reduce solar gain in the summer and to take advantage of solar gain in the winter to reduce energy consumption.

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: 6331000417
OurWinnipeg: Prosperity

AUTHORIZATION	Previous Budgets	2017 Estimate	FORECAST 2018	2019	2020	2021	2022	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	N/A *	625	720	759	708	704	720	3,611	4,236
Financed by:									
Cash to Capital		625	720	759	708	704	720	3,611	4,236

CASH FLOW	2017	2018	2019	2020	2021	2022	Beyond 2022	Total
Project Costs ($000's)	625	720	759	708	704	720	-	4,236
Financed by:								
Cash to Capital	625	720	759	708	704	720		4,236

NET OPERATING IMPACT ($000's)	2017	2018	2019
Operating costs			
External debt and finance charges			
Transfer to General Capital Fund	625	720	759
Total Direct Costs	625	720	759
Less: Incremental Revenue/Recovery	20	23	25
Net Cost/(Benefit)	605	697	734
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.

Projects for 2017 include the following:

Fire alarm system and emergency lighting upgrade - 510 Main Street (Council)

Asbestos abatement and fire suppression - 510 Main Street (Council)

Elevator upgrades - various locations

Emergency lighting upgrades - various

Fire alarm system upgrade - 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: 6331000617 | OurWinnipeg: Prosperity

AUTHORIZATION	Previous Budgets	2017 Estimate	FORECAST 2018	2019	2020	2021	2022	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	N/A *	-	140	158	130	136	143	707	707
Financed by:									
Cash to Capital			140	158	130	136	143	707	707

CASH FLOW	2017	2018	2019	2020	2021	2022	Beyond 2022	Total
Project Costs ($000's)	-	140	158	130	136	143	-	707
Financed by:								
Cash to Capital		140	158	130	136	143		707

NET OPERATING IMPACT ($000's)	2017	2018	2019
Operating costs			
External debt and finance charges			
Transfer to General Capital Fund		140	158
Total Direct Costs	-	140	158
Less: Incremental Revenue/Recovery		5	5
Net Cost/(Benefit)	-	135	153
Incremental Full Time Equivalent Positions	-	-	-

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

This program is for energy conservation initiatives which include upgrading/replacement of building systems to improve energy efficiency as identified through the Asset Management Program for various facilities to meet the requirements of the Federal Office of Energy Efficiency and other changing government regulations/policies. Facilities include all recreation and accommodation facilities.

Projects for 2017 includes:

Completion of energy efficiency audits on various City-owned facilities

Replacement of outdated, inefficient, obsolete equipment (primarily related to lighting) with more energy efficient components / equipment.

* 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: 633100231x

OurWinnipeg: Prosperity

AUTHORIZATION	Previous Budgets	2017 Estimate	FORECAST 2018	2019	2020	2021	2022	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	N/A *	-	193	-	186	183	179	741	741
Financed by:									
Cash to Capital			193		186	183	179	741	741

CASH FLOW	2017	2018	2019	2020	2021	2022	Beyond 2022	Total
Project Costs ($000's)	-	193	-	186	183	179	-	741
Financed by:								
Cash to Capital		193		186	183	179		741

NET OPERATING IMPACT ($000's)	2017	2018	2019
Operating costs			
External debt and finance charges			
Transfer to General Capital Fund		193	
Total Direct Costs	-	193	-
Less: Incremental Revenue/Recovery		6	
Net Cost/(Benefit)	-	187	-
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: 6331000717
OurWinnipeg: Heritage

AUTHORIZATION	Previous Budgets	2017 Estimate	FORECAST 2018	2019	2020	2021	2022	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	N/A *	145	270	214	217	220	224	1,145	1,290
Financed by:									
Cash to Capital			270	214	217	220	224	1,145	1,145
Transfer from Prior Year Authorization		145						-	145

CASH FLOW	2017	2018	2019	2020	2021	2022	Beyond 2022	Total
Project Costs ($000's)	145	270	214	217	220	224	-	1,290
Financed by:								
Cash to Capital		270	214	217	220	224		1,145
Transfer from Prior Year Authorization	145							145

NET OPERATING IMPACT ($000's)	2017	2018	2019
Operating costs			
External debt and finance charges			
Transfer to General Capital Fund		270	214
Total Direct Costs	-	270	214
Less: Incremental Revenue/Recovery	2	9	7
Net Cost/(Benefit)	(2)	261	207
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.

Funding in 2017 includes rebudgeted amounts from previously approved capital budgets - see Appendix 4.

* 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: 633102081x

OurWinnipeg: Prosperity

AUTHORIZATION	Previous Budgets	2017 Estimate	FORECAST 2018	2019	2020	2021	2022	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	100	-	130	113	136	123	148	650	650
Financed by:									
Cash to Capital			130	113	136	123	148	650	650

CASH FLOW	2017	2018	2019	2020	2021	2022	Beyond 2022	Total
Project Costs ($000's)	-	130	113	136	123	148	-	650
Financed by:								
Cash to Capital		130	113	136	123	148		650

NET OPERATING IMPACT ($000's)	2017	2018	2019
Operating costs			
External debt and finance charges			
Transfer to General Capital Fund		130	113
Total Direct Costs	-	130	113
Less: Incremental Revenue/Recovery		4	4
Net Cost/(Benefit)	-	126	109
Incremental Full Time Equivalent Positions	-	-	-

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

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 and as such existing generators may not have 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. As well there is a need to strategically locate new generators in facilities as part of an overall city emergency preparedness plan.

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: 6331002617

OurWinnipeg: Prosperity

AUTHORIZATION	Previous Budgets	2017 Estimate	FORECAST 2018	2019	2020	2021	2022	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	1,740	255	255	255	255	255	203	1,223	1,478
Financed by:									
Cash to Capital		255	255	255	255	255	203	1,223	1,478

CASH FLOW	2017	2018	2019	2020	2021	2022	Beyond 2022	Total
Project Costs ($000's)	255	255	255	255	255	203	-	1,478
Financed by:								
Cash to Capital	255	255	255	255	255	203		1,478

NET OPERATING IMPACT ($000's)	2017	2018	2019
Operating costs			
External debt and finance charges			
Transfer to General Capital Fund	255	255	255
Total Direct Costs	255	255	255
Less: Incremental Revenue/Recovery	8	8	8
Net Cost/(Benefit)	247	247	247
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.

Projects for 2017 include the following:

Intrusion conversion to ULC Complaint System

Video management conversion

Metasys controller and system upgrade

Monitoring station upgrade

System upgrades - various

Project Name: **Community Centres - Refurbishing and Improvements**

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

Department: Municipal Accommodations

Service: Recreation

Project: 6390000117

OurWinnipeg: Prosperity

AUTHORIZATION	Previous Budgets	2017 Estimate	FORECAST 2018	2019	2020	2021	2022	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	N/A *	620	644	673	667	661	653	3,298	3,918
Financed by:									
Cash to Capital		420	644	673	667	661	653	3,298	3,718
Manitoba Winnipeg Infrastructure Agreement (MWIA)		200						-	200

CASH FLOW	2017	2018	2019	2020	2021	2022	Beyond 2022	Total
Project Costs ($000's)	620	644	673	667	661	653	-	3,918
Financed by:								
Cash to Capital	420	644	673	667	661	653		3,718
Manitoba Winnipeg Infrastructure Agreement (MWIA)	200							200

NET OPERATING IMPACT ($000's)	2017	2018	2019
Operating costs			
External debt and finance charges			
Transfer to General Capital Fund	420	644	673
Total Direct Costs	420	644	673
Less: Incremental Revenue/Recovery	16	21	22
Net Cost/(Benefit)	404	623	651
Incremental Full Time Equivalent Positions	-	-	-

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

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

Building refurbishment various systems - 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: 6391000117 — OurWinnipeg: Prosperity

AUTHORIZATION	Previous Budgets	2017 Estimate	FORECAST 2018	2019	2020	2021	2022	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	N/A *	547	525	525	565	533	535	2,683	3,230
Financed by:									
Cash to Capital		100	525	525	565	533	535	2,683	2,783
Manitoba Winnipeg Infrastructure Agreement (MWIA)		225						-	225
Transfer from Prior Year Authorization		222						-	222

CASH FLOW	2017	2018	2019	2020	2021	2022	Beyond 2022	Total
Project Costs ($000's)	547	525	525	565	533	535	-	3,230
Financed by:								
Cash to Capital	100	525	525	565	533	535		2,783
Manitoba Winnipeg Infrastructure Agreement (MWIA)	225							225
Transfer from Prior Year Authorization	222							222

NET OPERATING IMPACT ($000's)	2017	2018	2019
Operating costs			
External debt and finance charges			
Transfer to General Capital Fund	100	525	525
Total Direct Costs	100	525	525
Less: Incremental Revenue/Recovery	9	17	17
Net Cost/(Benefit)	91	508	508
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, replacements of rink components, building envelope and structural improvements.

Projects for 2017 include the following:

Fire safety dressing room lock reconfiguration - various arenas

Fire alarm upgrades - various arenas

Roof replacement - Charles Barbour Arena

Building system renewal - various

Funding in 2017 includes rebudgeted amounts from previously approved capital budgets - see Appendix 4.

St. Vital Centennial Arena is rebudgeted in the 2017 budget to complete HVAC upgrade, locker room door replacement, shower fixture replacement, hot water tank and storage replacement, etc.

* 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: 6392000117
OurWinnipeg: Prosperity

AUTHORIZATION	Previous Budgets	2017 Estimate	FORECAST 2018	2019	2020	2021	2022	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	N/A *	2,375	2,470	2,518	2,516	2,359	2,479	12,342	14,717
Financed by:									
Cash to Capital		1,203	2,470	2,518	2,516	2,359	2,479	12,342	13,545
Manitoba Winnipeg Infrastructure Agreement (MWIA)		1,172						-	1,172

CASH FLOW	2017	2018	2019	2020	2021	2022	Beyond 2022	Total
Project Costs ($000's)	2,375	2,470	2,518	2,516	2,359	2,479	-	14,717
Financed by:								
Cash to Capital	1,203	2,470	2,518	2,516	2,359	2,479		13,545
Manitoba Winnipeg Infrastructure Agreement (MWIA)	1,172							1,172

NET OPERATING IMPACT ($000's)	2017	2018	2019
Operating costs			
External debt and finance charges			
Transfer to General Capital Fund	1,203	2,470	2,518
Total Direct Costs	1,203	2,470	2,518
Less: Incremental Revenue/Recovery	54	80	82
Net Cost/(Benefit)	1,149	2,390	2,436
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.

Projects for 2017 include the following:

Main air handling unit (AHU) replacement - Cindy Klassen Recreation Centre

Structural repair - Margaret Grant Indoor Pool

Structural repairs pool deck (underside) - Pan Am Indoor Pool

Replace/repair main tank deck (study) - Pan Am Indoor Pool

Ultra violet disinfectant - Transcona Indoor Pool

Ultra violet disinfectant - Sherbrook Indoor Pool

Pool maintenance shutdowns - Various Indoor Pools

Indoor Aquatic Facilities (continued):

Electrical maintenance - various indoor pools

Lap pool air handling unit replacement - Pan Am Indoor Pool

Roof replacement - Eldon Ross Indoor Pool

Boiler distribution system upgrade - Boni-vital Indoor Pool

Electrical service upgrade - Boni-vital Indoor Pool

Outside air damper replacement - various indoor pools

Boiler replacement - St. James Civic Centre indoor pool

Building system refurbishment - various indoor pools

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

Project Name: **Pan Am Indoor Pool - Parking Lot Refurbishment**

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

Department: Municipal Accommodations
Service: Recreation

Project: 6392010116
OurWinnipeg: Prosperity

AUTHORIZATION	Previous Budgets	2017 Estimate	FORECAST 2018	2019	2020	2021	2022	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	753	156	-	-	-	-	-	-	156
Financed by:									
Cash to Capital		78						-	78
Manitoba Winnipeg Infrastructure Agreement (MWIA)		78						-	78

CASH FLOW	2017	2018	2019	2020	2021	2022	Beyond 2022	Total
Project Costs ($000's)	156	-	-	-	-	-	-	156
Financed by:								
Cash to Capital	78							78
Manitoba Winnipeg Infrastructure Agreement (MWIA)	78							78

NET OPERATING IMPACT ($000's)	2017	2018	2019
Operating costs			
External debt and finance charges			
Transfer to General Capital Fund	78		
Total Direct Costs	78	-	-
Less: Incremental Revenue/Recovery	4		
Net Cost/(Benefit)	74	-	-
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: 3

The parking lot at the Pan Am Pool is of original design. The current design does not meet the needs of the patrons of Pan Am Pool.

Parking lots are considered to be in poor condition with visual distress conditions in the parking lot pavement. The existing asphalt pavement parking lot areas are original construction and at the end of their useful life. As result of open pavement cracks, infiltration of water is further deteriorating the base structure and compromising the pavement's structural integrity.

The Community Services Department and the Municipal Accommodations Division of the Planning, Property and Development Department have jointly identified a need to expand, repair and enhance the parking lot at Pan Am Pool. The project has been segmented into five "areas" with areas 1 and 2 being expansion of the parking lot and areas 3, 4 and 5 being repairs and enhancements to the existing parking lot. Municipal Accommodations has included funding for areas 3, 4 and 5. The Community Services Department's Pan Am Pool capital project provides funding in 2015 and 2016 for areas 1 and 2 and for landscaping.

Project Name: **Outdoor Aquatic Facilities**

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

Department: Municipal Accommodations — Service: Recreation

Project: 6393000117 — OurWinnipeg: Prosperity

AUTHORIZATION	Previous Budgets	2017 Estimate	FORECAST 2018	2019	2020	2021	2022	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	N/A *	342	340	338	340	342	340	1,700	2,042
Financed by:									
Cash to Capital		217	340	338	340	342	340	1,700	1,917
Manitoba Winnipeg Infrastructure Agreement (MWIA)		125						-	125

CASH FLOW	2017	2018	2019	2020	2021	2022	Beyond 2022	Total
Project Costs ($000's)	342	340	338	340	342	340	-	2,042
Financed by:								
Cash to Capital	217	340	338	340	342	340		1,917
Manitoba Winnipeg Infrastructure Agreement (MWIA)	125							125

NET OPERATING IMPACT ($000's)	2017	2018	2019
Operating costs			
External debt and finance charges			
Transfer to General Capital Fund	217	340	338
Total Direct Costs	217	340	338
Less: Incremental Revenue/Recovery	9	11	11
Net Cost/(Benefit)	208	329	327
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 2017 include the following:

Outdoor pools mechanical upgrades

Outdoor pools tank refurbishments

Building refurbishment

Wading pool basin repair

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

Project Name: **Community Facilities**

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

Department: Municipal Accommodations — Service: Recreation

Project: 6394000117 — OurWinnipeg: Prosperity

AUTHORIZATION	Previous Budgets	2017 Estimate	FORECAST 2018	2019	2020	2021	2022	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	N/A *	200	260	212	214	217	221	1,124	1,324
Financed by:									
Cash to Capital			260	212	214	217	221	1,124	1,124
Transfer from Prior Year Authorization		200						-	200

CASH FLOW	2017	2018	2019	2020	2021	2022	Beyond 2022	Total
Project Costs ($000's)	200	260	212	214	217	221	-	1,324
Financed by:								
Cash to Capital		260	212	214	217	221		1,124
Transfer from Prior Year Authorization	200							200

NET OPERATING IMPACT ($000's)	2017	2018	2019
Operating costs			
External debt and finance charges			
Transfer to General Capital Fund		260	212
Total Direct Costs	-	260	212
Less: Incremental Revenue/Recovery	3	8	7
Net Cost/(Benefit)	(3)	252	205
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.

Projects include the following:

Building envelope upgrade - 601 Aikins and various locations

Various Building System Upgrade

Funding in 2017 includes rebudgeted amounts from previously approved capital budgets - see Appendix 4.

* 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: 6390001017

OurWinnipeg: Prosperity

AUTHORIZATION	Previous Budgets	2017 Estimate	FORECAST 2018	2019	2020	2021	2022	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	N/A*	100	163	175	170	164	165	837	937
Financed by:									
Cash to Capital		100	163	175	170	164	165	837	937

CASH FLOW	2017	2018	2019	2020	2021	2022	Beyond 2022	Total
Project Costs ($000's)	100	163	175	170	164	165	-	937
Financed by:								
Cash to Capital	100	163	175	170	164	165		937

NET OPERATING IMPACT ($000's)	2017	2018	2019
Operating costs			
External debt and finance charges			
Transfer to General Capital Fund	100	163	175
Total Direct Costs	100	163	175
Less: Incremental Revenue/Recovery	3	5	6
Net Cost/(Benefit)	97	158	169
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: 6390002017

OurWinnipeg: Prosperity

AUTHORIZATION	Previous Budgets	2017 Estimate	FORECAST 2018	2019	2020	2021	2022	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	2017	2018	2019	2020	2021	2022	Beyond 2022	Total
Project Costs ($000's)	100	100	100	100	100	100	-	600
Financed by:								
Cash to Capital	100	100	100	100	100	100		600

NET OPERATING IMPACT ($000's)	2017	2018	2019
Operating costs			
External 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 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 2017 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: 6390005017

OurWinnipeg: Prosperity

AUTHORIZATION	Previous Budgets	2017 Estimate	FORECAST 2018	2019	2020	2021	2022	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	425	2,125	2,550

CASH FLOW	2017	2018	2019	2020	2021	2022	Beyond 2022	Total
Project Costs ($000's)	425	425	425	425	425	425	-	2,550
Financed by:								
Cash to Capital	425	425	425	425	425	425		2,550

NET OPERATING IMPACT ($000's)	2017	2018	2019
Operating costs			
External debt and finance charges			
Transfer to General Capital Fund	425	425	425
Total Direct Costs	425	425	425
Less: Incremental Revenue/Recovery	14	14	14
Net Cost/(Benefit)	411	411	411
Incremental Full Time Equivalent Positions	-	-	-

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

Funding to address city wide accessibility issues (Executive Policy Committee recommendation 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: **Transcona Centennial Pool**

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

Department: Municipal Accommodations — Service: Recreation

Project: 6392010113 — OurWinnipeg: Recreation

AUTHORIZATION	Previous Budgets	2017 Estimate	FORECAST 2018	2019	2020	2021	2022	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	5,800	-	-	-	-	-	-	-	-
Financed by:									
Cash to Capital	300							-	-
External Debt	3,000							-	-
Land Dedication Reserve	200							-	-
Transfer from Corporate Non-Specified Capital Account	1,000							-	-
Interim Financing / (Repayment) from Land Operating Reserve	575	(575)						-	(575)
Land Operating Reserve	725	575						-	575

CASH FLOW	2017	2018	2019	2020	2021	2022	Beyond 2022	Total
Project Costs ($000's)	-	-	-	-	-	-	-	-
Financed by:								
Interim Financing / (Repayment) from Land Operating Reserve	(575)							(575)
Land Operating Reserve	575							575

NET OPERATING IMPACT ($000's)	2017	2018	2019
Operating costs			
External 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

Capital project is intended to support and expand inter-generational use of the outdoor aquatic facility and is proposed to include: expanded splash pad and slides; beach entry to the pool; improved mechanical system upgrades; site works and landscaping; as well as improvements to the change rooms and other components of the current building (electrical, windows, etc.).

In 2016, $575,000 was interim financed from the Land Operating Reserve (LOR) and is to be repaid in 2017 from the sale of Roland Michener site and Harold Street properties and any residual amount, currently estimated at $725,000, will be funded from LOR's unallocated equity.

The $300,000 previously budgeted in 2014 is contingent upon an additional contribution of $200,000 in funding from the Parks and Recreation Enhancement Program.

Total project budget is $6 million comprised of:	
Adjusted previous budgets as detailed above	5,800,000
2014 budget from Parks and Recreation Enhancement Program	200,000
Total	**6,000,000**

Project Name: **City Hall - Building Refurbishment**

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

Department: Municipal Accommodations

Service: Property Asset Management

Project: 6395030115

OurWinnipeg: Prosperity

AUTHORIZATION	Previous Budgets	2017 Estimate	FORECAST 2018	2019	2020	2021	2022	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	3,380	2,645	-	-	-	-	-	-	2,645
Financed by:									
Cash to Capital		414						-	414
Land Operating Reserve		1,700						-	1,700
Transfer from Corporate Non-Specified Capital Account		531						-	531

CASH FLOW	2017	2018	2019	2020	2021	2022	Beyond 2022	Total
Project Costs ($000's)	2,645	-	-	-	-	-	-	2,645
Financed by:								
Cash to Capital	414							414
Land Operating Reserve	1,700							1,700
Transfer from Corporate Non-Specified Capital Account	531							531

NET OPERATING IMPACT ($000's)	2017	2018	2019
Operating costs			
External debt and finance charges			
Transfer to General Capital Fund	414	-	-
Total Direct Costs	414	-	-
Less: Incremental Revenue/Recovery	41	-	-
Net Cost/(Benefit)	373	-	-
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: 3

The refurbishment of the exterior building envelope is nearing completion including repointing of the tyndall stone cladding. The roof membrane and insulation has also been replaced. There is known to be asbestos in the building, which will be removed from areas to be renovated to make it safer for the employees working in the area and for employees working on the building systems. The fire safety systems are aged and require updating or replacement and the clerestory windows require re-caulking or replacement as warranted.

The 2015 Capital Budget and 2016 to 2020 Five-Year Forecast included authorization of $450,000 for architectural and engineering design works. Given the phased nature of this project, a Class 3 cost estimate may exist for one phase while cost estimates for other phases may be a Class 4 or Class 5. In September 2015, Standing Policy Committee on Property and Development, Heritage and Downtown Development approved the use of $1.73 million of prior year authorizations toward the capital costs of this project.

Phases of this refurbishment project to be undertaken during 2016 and 2017 include asbestos removal and fire suppression system upgrades to the Office of Policy & Strategic Initiatives, the Mayor's Office and reception area and to Councillors' offices on the main floor. This work includes the replacement of furniture and fixtures, interior renovations/code compliance, building systems replacement and costs for the temporary relocation of elected officials and Public Service staff while these renovations are undertaken.

City Hall - Building Refurbishment (continued):

In addition, invasive testing on the main floor and basement has uncovered significantly more asbestos containing materials. These materials have been temporarily contained but the required method is removal of the asbestos containing materials which was not originally within the scope of this project. Further, areas previously remediated are now subject to revised regulatory/legislative requirements that will require more rigorous remediation process that has a material impact on the project budget.

Total project budget is $6.247 million comprised of:	
Previous budgets as above	3,380,000
2017 authorization	2,645,000
2017 General Building Renovation and Refurbishment (transfer of previous year authorization from 2014)	222,000
Total	**6,247,000**

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	2017 Estimate	FORECAST 2018	2019	2020	2021	2022	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	3,773	-	-	-	-	-	-	-	-
Financed by:									
Kinsmen Club of Winnipeg (Sponsor Winnipeg)		95	95	95	95			285	380
Interim Financing from General Capital Fund / (Repayment)		(95)	(95)	(95)	(95)			(285)	(380)

CASH FLOW	2017	2018	2019	2020	2021	2022	Beyond 2022	Total
Project Costs ($000's)	-	-	-	-	-	-	-	-
Financed by:								
Kinsmen Club of Winnipeg (Sponsor Winnipeg)	95	95	95	95				380
Interim Financing from General Capital Fund / (Repayment)	(95)	(95)	(95)	(95)				(380)

NET OPERATING IMPACT ($000's)	2017	2018	2019
Operating costs			
External 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.

Project Name: **Innovation Capital Fund**

Standing Policy Committee: Executive Policy Committee

Department: City Clerks
Project: 0400001716
Service: Council Services
OurWinnipeg: Prosperity

AUTHORIZATION	Previous Budgets	2017 Estimate	FORECAST 2018	2019	2020	2021	2022	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	N/A *	1,000	1,000	1,000	1,000	1,000	1,000	5,000	6,000
Financed by:									
Cash to Capital		1,000	1,000	1,000	1,000	1,000	1,000	5,000	6,000

CASH FLOW	2017	2018	2019	2020	2021	2022	Beyond 2022	Total
Project Costs ($000's)	1,000	1,000	1,000	1,000	1,000	1,000	-	6,000
Financed by:								
Cash to Capital	1,000	1,000	1,000	1,000	1,000	1,000		6,000

NET OPERATING IMPACT ($000's)	2017	2018	2019
Operating costs			
External Debt and finance charges			
Transfer to General Capital Fund	1,000	1,000	1,000
Total Direct Costs	1,000	1,000	1,000
Less: Incremental Revenue/Recovery			
Net Cost/(Benefit)	1,000	1,000	1,000
Incremental Full Time Equivalent Positions	-	-	-

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

The Innovation Capital Fund will facilitate investment in new and innovative ideas for efficiencies, improved service, accountability and responsiveness to City operations. The Standing Policy Committee on Innovation will oversee this fund and develop a process for review, approval, investment and implementation of promising ideas and proposals.

Following are some of the projects funded from 2016 Innovation Capital Fund:

- Fire Paramedic Service - AutoPulse Resuscitation System	$70,000
- Fire Paramedic Service - Unmanned Aerial Vehicles	31,721
- Winnipeg Parking Authority - Intuitive Routing	80,106
- Community Services - Charging Stations at Library Branches	32,000
- Corporate Finance - Year End Consolidation and Working Paper System	33,000
- Community Services - Mobile Maker Space Labs	40,000

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

Project Name: **Corporate Records Centre**

Standing Policy Committee: Executive Policy Committee

Department: City Clerks
Project: 0400000917

Service: Heritage Conservation
OurWinnipeg: Heritage

AUTHORIZATION	Previous Budgets	2017 Estimate	FORECAST 2018	2019	2020	2021	2022	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	725	150	-	-	-	-	200	200	350
Financed by:									
Cash to Capital		150					200	200	350

CASH FLOW	2017	2018	2019	2020	2021	2022	Beyond 2022	Total
Project Costs ($000's)	150	-	-	-	-	200	-	350
Financed by:								
Cash to Capital	150					200		350

NET OPERATING IMPACT ($000's)	2017	2018	2019
Operating costs			
External Debt and finance charges			
Transfer to General Capital Fund	150		
Total Direct Costs	150	-	-
Less: Incremental Revenue/Recovery			
Net Cost/(Benefit)	150	-	-
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: 3 - applies to 2017 only

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. Temporary storage was secured at the Provincial record storage facility and space has been maximized at 311 Ross Avenue. In total, over 25,000 cubic feet of records are stored at the three facilities.

Costs include upgrading portions of the facility including the second floor and perhaps other areas to increase floor capacity to deal with increased weight and to ensure security; other costs will include purchase of some compact movable shelving to increase capacity on the 3rd floor; purchase of more shelving to go into redeveloped areas; and moving of boxes from the Provincial records centre.

Costs are well known due to similar projects undertaken at 311 Ross in the last few years as well as RFP's for shelving put out in 2013 and a consultant report and estimate of costs to outfit the now closed 380 William.

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: 0400000517
Service: Council Services
OurWinnipeg: Prosperity

AUTHORIZATION	Previous Budgets	2017 Estimate	FORECAST 2018	2019	2020	2021	2022	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	N/A *	200	200	-	-	200	200	600	800
Financed by:									
Cash to Capital		200	200			200	200	600	800

CASH FLOW	2017	2018	2019	2020	2021	2022	Beyond 2022	Total
Project Costs ($000's)	200	200	-	-	200	200	-	800
Financed by:								
Cash to Capital	200	200			200	200		800

NET OPERATING IMPACT ($000's)	2017	2018	2019
Operating costs			
External Debt and finance charges			
Transfer to General Capital Fund	200	200	
Total Direct Costs	200	200	-
Less: Incremental Revenue/Recovery			
Net Cost/(Benefit)	200	200	-
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 will need to be upgraded / revitalized for the 2018 election include 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 will be undertaking a ward boundaries review. The last ward boundaries review took place in 2009, and existing systems are no longer compatible with new mapping geometries; and as such will require redevelopment.

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

Project Name: **Decision Making Information System (DMIS) Replacement**

Standing Policy Committee: Executive Policy Committee

Department: City Clerks
Project: 0400001518
Service: Council Services
OurWinnipeg: Prosperity

AUTHORIZATION	Previous Budgets	2017 Estimate	FORECAST 2018	2019	2020	2021	2022	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	-	-	250	-	-	-	-	250	250
Financed by:									
Cash to Capital			250					250	250

CASH FLOW	2017	2018	2019	2020	2021	2022	Beyond 2022	Total
Project Costs ($000's)	-	250	-	-	-	-	-	250
Financed by:								
Cash to Capital		250						250

NET OPERATING IMPACT ($000's)	2017	2018	2019
Operating costs			
External Debt and finance charges			
Transfer to General Capital Fund		250	
Total Direct Costs	-	250	-
Less: Incremental Revenue/Recovery			
Net Cost/(Benefit)	-	250	-
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: 5

The Decision Making Information System or DMIS is a system providing information to elected officials, senior administrators and the public with agendas, minutes, by-laws and other information generated as a result of over 400 annual public meetings of Council and its Committees each year. DMIS was developed in the early part of the century and will need to be replaced to remain in keeping with current and changing technologies and expectations of the public.

Project Name: **2017 Canada Summer Games**

Standing Policy Committee: Executive Policy Committee

Department: City Clerks
Project: 0400001616

Service: Arts, Entertainment and Culture
OurWinnipeg: OurWinnipeg Action Plan

AUTHORIZATION	Previous Budgets	2017 Estimate	FORECAST 2018	2019	2020	2021	2022	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	2,250	750	-	-	-	-	-	-	750
Financed by:									
Cash to Capital		750						-	750

CASH FLOW	2017	2018	2019	2020	2021	2022	Beyond 2022	Total
Project Costs ($000's)	750	-	-	-	-	-	-	750
Financed by:								
Cash to Capital	750							750

NET OPERATING IMPACT ($000's)	2017	2018	2019
Operating costs			
External Debt and finance charges			
Transfer to General Capital Fund	750		
Total Direct Costs	750	-	-
Less: Incremental Revenue/Recovery			
Net Cost/(Benefit)	750	-	-
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: 3

This project allows the City of Winnipeg to support a $3,000,000 capital contribution towards the 2017 Canada Summer Games to be advanced over a 4-year period (2014 - 2017), an equally shared indemnification agreement with the Province of Manitoba, a facilities upgrade program, and a legacy project or projects, that are agreeable to the City.

Council adopted (Minute No. 604, June 25, 2014) that the Sport for Life Centre Fieldhouse be approved as the principal capital legacy project for the 2017 Canada Games and that up to $1 million of the City of Winnipeg's $3 million 2017 Canada Games capital contribution be applied to the Sport for Life Centre Fieldhouse Legacy Project, conditional upon an equal capital contribution of up to $1 million from both the Federal and Provincial governments.

This capital grant is excluded from interest and administrative overhead capital charges.

Project Name: **Voting Machine Replacement**

Standing Policy Committee: Executive Policy Committee

Department: City Clerks
Project: 0400001022
Service: Council Services
OurWinnipeg: Prosperity

AUTHORIZATION	Previous Budgets	2017 Estimate	FORECAST 2018	2019	2020	2021	2022	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	2017	2018	2019	2020	2021	2022	Beyond 2022	Total
Project Costs ($000's)	-	-	-	-	-	1,000	-	1,000
Financed by:								
Cash to Capital						1,000		1,000

NET OPERATING IMPACT ($000's)	2017	2018	2019
Operating costs			
External 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: **PeopleSoft Upgrade**

Standing Policy Committee: Executive Policy Committee

Department: Corporate Support Services

Service: Organizational Support Services

Project: 3455000017

OurWinnipeg: Prosperity

AUTHORIZATION	Previous Budgets	2017 Estimate	FORECAST 2018	2019	2020	2021	2022	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	4,763	1,800	412	-	-	-	2,483	2,895	4,695
Financed by:									
Cash to Capital		1,800	412				2,483	2,895	4,695

CASH FLOW	2017	2018	2019	2020	2021	2022	Beyond 2022	Total
Project Costs ($000's)	1,800	412	-	-	-	2,483	-	4,695
Financed by:								
Cash to Capital	1,800	412				2,483		4,695

NET OPERATING IMPACT ($000's)	2017	2018	2019
Operating costs			
External debt and finance charges			
Transfer to General Capital Fund	1,800	412	
Total Direct Costs	1,800	412	-
Less: Incremental Revenue/Recovery			
Net Cost/(Benefit)	1,800	412	-
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: 3

The City is committed to renewing its PeopleSoft investment to take advantage of new functionality and remain current with supplier's support.

Project Name: **Communications Network Infrastructure**

Standing Policy Committee: Executive Policy Committee

Department: Corporate Support Services

Service: Organizational Support Services

Project: 3401200017

OurWinnipeg: Prosperity

AUTHORIZATION	Previous Budgets	2017 Estimate	FORECAST 2018	2019	2020	2021	2022	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	N/A *	401	813	267	525	327	475	2,407	2,808
Financed by:									
Cash to Capital		401	813	267	525	327	475	2,407	2,808

CASH FLOW	2017	2018	2019	2020	2021	2022	Beyond 2022	Total
Project Costs ($000's)	401	813	267	525	327	475	-	2,808
Financed by:								
Cash to Capital	401	813	267	525	327	475		2,808

NET OPERATING IMPACT ($000's)	2017	2018	2019
Operating costs			
External debt and finance charges			
Transfer to General Capital Fund	401	813	267
Total Direct Costs	401	813	267
Less: Incremental Revenue/Recovery			
Net Cost/(Benefit)	401	813	267
Incremental Full Time Equivalent Positions	-	-	-

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.

* 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: Corporate Support Services

Service: Organizational Support Services

Project: 3402500017

OurWinnipeg: Prosperity

AUTHORIZATION	Previous Budgets	2017 Estimate	FORECAST 2018	2019	2020	2021	2022	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	N/A *	1,566	1,413	1,127	1,636	2,041	1,832	8,049	9,615
Financed by:									
Cash to Capital		494	1,287	1,127	1,028	1,895	1,832	7,169	7,663
Transfer from Prior Year Authorization		766							766
Transfer from Computer Replacement Reserve		306	126		608	146		880	1,186

CASH FLOW	2017	2018	2019	2020	2021	2022	Beyond 2022	Total
Project Costs ($000's)	1,566	1,413	1,127	1,636	2,041	1,832	-	9,615
Financed by:								
Cash to Capital	494	1,287	1,127	1,028	1,895	1,832		7,663
Transfer from Prior Year Authorization	766							766
Transfer from Computer Replacement Reserve	306	126		608	146			1,186

NET OPERATING IMPACT ($000's)	2017	2018	2019
Operating costs		125	127
External debt and finance charges			
Transfer to General Capital Fund	494	1,287	1,127
Total Direct Costs	494	1,412	1,254
Less: Incremental Revenue/Recovery			
Net Cost/(Benefit)	494	1,412	1,254
Incremental Full Time Equivalent Positions	-	1.00	1.00

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

The City utilizes enterprise servers, 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.

Funding in 2017 includes rebudgeted amounts from previously approved capital budgets - see Appendix 4.

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

Project Name: **Print Asset Renewal**

Standing Policy Committee: Executive Policy Committee

Department: Corporate Support Services

Service: Organizational Support Services

Project: 3458400018

OurWinnipeg: Prosperity

AUTHORIZATION	Previous Budgets	2017 Estimate	FORECAST 2018	2019	2020	2021	2022	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	167	-	152	-	-	317	-	469	469
Financed by:									
Cash to Capital			152			317		469	469

CASH FLOW	2017	2018	2019	2020	2021	2022	Beyond 2022	Total
Project Costs ($000's)	-	152	-	-	317	-	-	469
Financed by:								
Cash to Capital		152			317			469

NET OPERATING IMPACT ($000's)	2017	2018	2019
Operating costs			
External debt and finance charges			
Transfer to General Capital Fund	-	152	
Total Direct Costs	-	152	-
Less: Incremental Revenue/Recovery			
Net Cost/(Benefit)	-	152	-
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: 3

Planned renewal of mission critical print assets that are essential in the delivery of revenue generating, confidential, or urgent products and services delivered by the Printing, Graphics & Mail Services Branch of Corporate Support Services Department to all departments. This infrastructure is well beyond its life expectancy (some systems as old as 13 years) and at considerable risk of failing.

Project Name: **Aerial Imagery Renewal Program**

Standing Policy Committee: Executive Policy Committee

Department: Corporate Support Services

Service: Organizational Support Services

Project: 3458100018

OurWinnipeg: Prosperity

AUTHORIZATION	Previous Budgets	2017 Estimate	FORECAST 2018	2019	2020	2021	2022	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	150	-	165	-	190	-	182	537	537
Financed by:									
Cash to Capital			165		190		182	537	537

CASH FLOW	2017	2018	2019	2020	2021	2022	Beyond 2022	Total
Project Costs ($000's)	-	165	-	190	-	182	-	537
Financed by:								
Cash to Capital		165		190		182		537

NET OPERATING IMPACT ($000's)	2017	2018	2019
Operating costs			
External debt and finance charges			
Transfer to General Capital Fund		165	
Total Direct Costs	-	165	-
Less: Incremental Revenue/Recovery			
Net Cost/(Benefit)	-	165	-
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: 4

Aerial photo acquisition occurs every two years to coincide with the Assessment and Taxation Department's property assessment program. The updated imagery provides a permanent historical record at a specific point in time.

Project Name: **Software Renewal Program**

Standing Policy Committee: Executive Policy Committee

Department: Corporate Support Services

Service: Organizational Support Services

Project: 3458200019

OurWinnipeg: Prosperity

AUTHORIZATION	Previous Budgets	2017 Estimate	FORECAST 2018	2019	2020	2021	2022	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	157	-	-	157	-	-	152	309	309
Financed by:									
Cash to Capital				157			152	309	309

CASH FLOW	2017	2018	2019	2020	2021	2022	Beyond 2022	Total
Project Costs ($000's)	-	-	157	-	-	152	-	309
Financed by:								
Cash to Capital			157			152		309

NET OPERATING IMPACT ($000's)	2017	2018	2019
Operating costs			
External debt and finance charges			
Transfer to General Capital Fund			157
Total Direct Costs	-	-	157
Less: Incremental Revenue/Recovery			
Net Cost/(Benefit)	-	-	157
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: 4

The Software Renewal Program is for the renewal of the Microsoft Developer Network (MSDN) subscription every 3 years plus other development tool acquisitions.

MSDN provides information technology professionals (Developers, Testers, Architects, Systems, and Network, etc.) access to new and older versions of Microsoft products including developer tools, operating systems, server software, and productivity applications. Subscribers can use the software to design, develop, test, and demonstrate applications on multiple devices, a function which would be cost prohibitive if each piece of software were purchased separately. MSDN also provides other benefits such as technical support and e-learning.

Project Name: **311 Renewal**

Standing Policy Committee: Executive Policy Committee

Department: Corporate Support Services

Service: Organizational Support Services

Project: 3457000017

OurWinnipeg: Prosperity

AUTHORIZATION	Previous Budgets	2017 Estimate	FORECAST 2018	2019	2020	2021	2022	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	896	450	250	100	450	250	490	1,540	1,990
Financed by:									
Cash to Capital		450	250	100	450	250	490	1,540	1,990

CASH FLOW	2017	2018	2019	2020	2021	2022	Beyond 2022	Total
Project Costs ($000's)	450	250	100	450	250	490	-	1,990
Financed by:								
Cash to Capital	450	250	100	450	250	490		1,990

NET OPERATING IMPACT ($000's)	2017	2018	2019
Operating costs			
External debt and finance charges			
Transfer to General Capital Fund	450	250	100
Total Direct Costs	450	250	100
Less: Incremental Revenue/Recovery			
Net Cost/(Benefit)	450	250	100
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: 3

The City is committed to renewing its Call Center application investment every three years to take advantage of new functionality and remain current with suppliers' support.

Project Name: **Infrastructure Service Enhancements**

Standing Policy Committee: Executive Policy Committee

Department: Corporate Support Services

Service: Organizational Support Services

Project: 3458300017

OurWinnipeg: Prosperity

AUTHORIZATION	Previous Budgets	2017 Estimate	FORECAST 2018	2019	2020	2021	2022	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	250	100	-	-	150	-	-	150	250
Financed by:									
Cash to Capital		100			150			150	250

CASH FLOW	2017	2018	2019	2020	2021	2022	Beyond 2022	Total
Project Costs ($000's)	100	-	-	150	-	-	-	250
Financed by:								
Cash to Capital	100			150				250

NET OPERATING IMPACT ($000's)	2017	2018	2019
Operating costs			
External debt and finance charges			
Transfer to General Capital Fund	100		
Total Direct Costs	100	-	-
Less: Incremental Revenue/Recovery			
Net Cost/(Benefit)	100	-	-
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: 3

Infrastructure Service Enhancements supports projects that use information technology for the provision of shared infrastructure services. It results in providing services more efficiently and effectively which translates into productivity gains and reduced cost.

Project Name: **Candidate Gateway**

Standing Policy Committee: Executive Policy Committee

Department: Corporate Support Services

Service: Organizational Support Services

Project: 3455001018

OurWinnipeg: Prosperity

AUTHORIZATION	Previous Budgets	2017 Estimate	FORECAST 2018	2019	2020	2021	2022	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	824	-	283	-	-	-	-	283	283
Financed by:									
Cash to Capital			283					283	283

CASH FLOW	2017	2018	2019	2020	2021	2022	Beyond 2022	Total
Project Costs ($000's)	-	283	-	-	-	-	-	283
Financed by:								
Cash to Capital		283						283

NET OPERATING IMPACT ($000's)	2017	2018	2019
Operating costs			
External debt and finance charges			
Transfer to General Capital Fund		283	
Total Direct Costs	-	283	-
Less: Incremental Revenue/Recovery			
Net Cost/(Benefit)	-	283	-
Incremental Full Time Equivalent Positions			

Class Estimate: 1

The PeopleSoft Candidate Gateway project will design and implement efficient recruitment processes and tools that enhance the City's image, improve the candidate and hiring manager experience, and provide the ability to measure and report on selection activity. Achievement of this objective will be guided by the delivered functionality in the PeopleSoft Candidate Gateway Module and a thorough business process review.

Realignment of resources will provide ongoing support for the enhanced functionality.

Project Name: **Assessment Automation**

Standing Policy Committee: Executive Policy Committee

Department: Assessment and Taxation

Service: Assessment, Taxation and Corporate

Project: 1400000117

OurWinnipeg: Prosperity

AUTHORIZATION	Previous Budgets	2017 Estimate	FORECAST 2018	2019	2020	2021	2022	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	N/A *	870	320	350	200	350	350	1,570	2,440
Financed by:									
Cash to Capital		870	320	350	200	350	350	1,570	2,440

CASH FLOW	2017	2018	2019	2020	2021	2022	Beyond 2022	Total
Project Costs ($000's)	870	320	350	200	350	350	-	2,440
Financed by:								
Cash to Capital	870	320	350	200	350	350		2,440

NET OPERATING IMPACT ($000's)	2017	2018	2019
Operating costs			
External debt and finance charges			
Transfer to General Capital Fund	870	320	350
Total Direct Costs	870	320	350
Less: Incremental Revenue/Recovery			
Net Cost/(Benefit)	870	320	350
Incremental Full Time Equivalent Positions	-	-	-

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

The funding in 2017 to 2022 is for further system upgrades and rehabilitation to the Manta system and other key assessment and taxation systems including quality systems, acquisition of property images including high resolution aerial images, and integration of PADIView with other key applications. The Manta system includes the tax billing information and accounts receivable for all properties in the City of Winnipeg. This system is integral to the annual tax billing process and is used in all taxation processes including realty and business tax billings, accounts receivable, Tax Installment Payment Plan, Local Improvements, Tax Sale, and customer service. The Manta program was sixteen years old in 2016. It is prudent to budget funding in future years to review the sustainability of the current system and prepare for replacement/rehabilitation.

* 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: 1420000116

OurWinnipeg: Vitality

AUTHORIZATION	Previous Budgets	2017 Estimate	FORECAST 2018	2019	2020	2021	2022	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	N/A *	3,000	3,000	3,000	3,000	3,000	3,000	15,000	18,000
Financed by:									
Cash to Capital		600	600	600	600	600	600	3,000	3,600
External Debt		2,400	2,400	2,400	2,400	2,400	2,400	12,000	14,400

CASH FLOW	2017	2018	2019	2020	2021	2022	Beyond 2022	Total
Project Costs ($000's)	3,000	3,000	3,000	3,000	3,000	3,000	-	18,000
Financed by:								
Cash to Capital	600	600	600	600	600	600		3,600
External Debt	2,400	2,400	2,400	2,400	2,400	2,400		14,400

NET OPERATING IMPACT ($000's)	2017	2018	2019
Operating costs			
External debt and finance charges	94	251	420
Transfer to General Capital Fund	600	600	600
Total Direct Costs	694	851	1,020
Less: Incremental Revenue/Recovery			
Net Cost/(Benefit)	694	851	1,020
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.

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

Project Name: **PeopleSoft Accounts Receivable and Billing**

Standing Policy Committee: Executive Policy Committee

Department: Corporate Finance
Project: 1200001517

Service: Organizational Support Services
OurWinnipeg: Sustainability

AUTHORIZATION	Previous Budgets	2017 Estimate	FORECAST 2018	2019	2020	2021	2022	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	608	192	-	-	-	-	-	-	192
Financed by:									
Transfer from Prior Year Authorization		192						-	192

CASH FLOW	2017	2018	2019	2020	2021	2022	Beyond 2021	Total
Project Costs ($000's)	192	-	-	-	-	-	-	192
Financed by:								
Transfer from Prior Year Authorization	192							192

NET OPERATING IMPACT ($000's)	2017	2018	2019
Operating costs			
External 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

To continue leveraging the investment made in PeopleSoft by implementing, configuring and utilizing the PeopleSoft Enterprise Accounts Receivable and Billing Modules. This will result in standardized and consistent processing of accounts receivable across the City, elimination of stand alone departmental accounts receivable systems, better manage customer account balances, better manage cash flow, minimize bad debt, provide city wide reporting and increase efficiency in transaction processing.

Funding in 2017 includes rebudgeted amount from previously approved capital budget for this project - see Appendix 4.

Project Name: **Innovative Transit Program**

Standing Policy Committee: Infrastructure Renewal and Public Works

Department: Transit
Project: 4230030117
Service: Public Transit
OurWinnipeg: Environment

AUTHORIZATION	Previous Budgets	2017 Estimate	FORECAST 2018	2019	2020	2021	2022	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	N/A *	565	1,000	1,000	1,000	1,000	1,000	5,000	5,565
Financed by:									
Cash to Capital			1,000	1,000	1,000	1,000	1,000	5,000	5,000
Retained Earnings		565							565

CASH FLOW	2017	2018	2019	2020	2021	2022	Beyond 2022	Total
Project Costs ($000's)	565	1,000	1,000	1,000	1,000	1,000	-	5,565
Financed by:								
Cash to Capital		1,000	1,000	1,000	1,000	1,000		5,000
Retained Earnings	565							565

NET OPERATING IMPACT ($000's)	2017	2018	2019
Operating costs			
External debt and finance charges			
Transfer to General Capital Fund		1,000	1,000
Total Direct Costs	-	1,000	1,000
Less: Incremental Revenue/Recovery	3	23	23
Net Cost/(Benefit)	(3)	977	977
Incremental Full Time Equivalent Positions	-	-	-

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

The Innovative Transit Program provides for bus stop and technology upgrades which are not normally funded through the operating budget or other areas of the capital budget. This will include improvements to transit terminals at shopping centres and passenger shelters, improved waiting amenities at major bus stops, and allow improved technology throughout the department, all of which will provide an enduring benefit to the department and the public.

The department continues to implement innovative practices throughout the department to improve efficiency. Equipment related to achieving this innovation may be funded through this program.

* 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: 4210000317

Service: Public Transit
OurWinnipeg: Environment

AUTHORIZATION	Previous Budgets	2017 Estimate	FORECAST 2018	2019	2020	2021	2022	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	N/A *	1,468	956	2,036	4,036	4,536	4,518	16,082	17,550
Financed by:									
Cash to Capital		1,023	956	2,036	4,036	4,536	4,518	16,082	17,105
Retained earnings		445							445

CASH FLOW	2017	2018	2019	2020	2021	2022	Beyond 2022	Total
Project Costs ($000's)	1,468	956	2,036	4,036	4,536	4,518	-	17,550
Financed by:								
Cash to Capital	1,023	956	2,036	4,036	4,536	4,518		17,105
Retained earnings	445							445

NET OPERATING IMPACT ($000's)	2017	2018	2019
Operating costs			
External debt and finance charges			
Transfer to General Capital Fund	1,023	956	2,036
Total Direct Costs	1,023	956	2,036
Less: Incremental Revenue/Recovery	46	30	30
Net Cost/(Benefit)	977	926	2,006
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.

The Director of Transit may reallocate funds between the projects based on emerging priorities.

Transit's operations are housed out of 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 close to their effective capacities. A study of the Transit's facility requirements completed in 2009 indicates that these existing facilities will not support the fleet and operations necessary to meet increasing service demands in the near and long term. 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 significant capital funding is required to bring the facilities up to acceptable standards.

This multi-year capital project will address both the issues of refurbishing and/or replacing the existing facilities to address age and condition issues in the near and long term.

Project	2017	2018	2019	2020	2021	2022	Total
Hoist Replacement				2,000	2,500	2,500	7,000
General Amounts (Concrete floor repair, replacement of washrack, replacement of main water supply line, etc.)	1,468	956	2,036	2,036	2,036	2,018	10,550
	1,468	**956**	**2,036**	**4,036**	**4,536**	**4,518**	**17,550**

Transit Building Replacement / Refurbishment (continued):

This project has been impacted by the allocation of the Federal funding from the Public Transit Infrastructure Fund as well as the accompanying contribution from the Province of Manitoba. If the Federal and Provincial contributions are not confirmed, the 2017 project budget will not be impacted and future year authorizations will be reviewed by way of the annual budget process.

* 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.

Estimated useful life - dependent on the specific project.

Project Name: **Expansion of Transit Vehicle Overhaul and Maintenance Facilities**

Standing Policy Committee: Infrastructure Renewal and Public Works

Department: Transit
Project: 4210000417

Service: Public Transit
OurWinnipeg: Environment

AUTHORIZATION	Previous Budgets	2017 Estimate	FORECAST 2018	2019	2020	2021	2022	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	-	53,200	-	-	-	-	-	-	53,200
Financed by:									
Transfer from Prior Year Authorization		9,160						-	9,160
Retained Earnings		5,040						-	5,040
Public Transit Infrastructure Fund (Federal Government)		26,000						-	26,000
Transfer from Prior Year Authorization Manitoba Winnipeg Infrastructure Agreement (MWIA)		13,000						-	13,000

CASH FLOW	2017	2018	2019	2020	2021	2022	Beyond 2022	Total
Project Costs ($000's)	20,500	21,600	11,100	-	-	-	-	53,200
Financed by:								
Transfer from Prior Year Authorization	2,000	4,825	2,335					9,160
Retained Earnings	3,500	875	665					5,040
Public Transit Infrastructure Fund (Federal Government)	10,000	10,600	5,400					26,000
Transfer from Prior Year Authorization Manitoba Winnipeg Infrastructure Agreement (MWIA)	5,000	5,300	2,700					13,000

NET OPERATING IMPACT ($000's)	2017	2018	2019
Operating costs			
External debt and finance charges			
Transfer to General Capital Fund			
Total Direct Costs	-	-	-
Less: Incremental Revenue/Recovery	217	109	52
Net Cost/(Benefit)	(217)	(109)	(52)
Incremental Full Time Equivalent Positions		-	-

Class Estimate: 4

The Public Service's cost estimate classification system for capital projects is based on the recommended practices of the Association for Advancement of Cost Engineering (AACE). Strictly based on AACE, this project is classified as a Class 4 estimate, due to AACE's reliance on drawings to outline the design definition. This project is a non-typical Design-Build approach and the project definition and details completed to date were outlined extensively in written specifications rather than drawings.

This project will only proceed to construction once a Class 3 cost estimate or better has been developed and there is sufficient approved budget for such project.

Expansion of Transit Vehicle Overhaul and Maintenance Facilities (continued):

On March 22, 2016, the 2016 Federal Budget was announced and included a plan to invest more than $120 billion in infrastructure over the next 10 years. The “Investing in Canada” plan will be implemented in two phases. Phase 1 will provide investments to support public transit systems, green infrastructure projects, and social infrastructure projects. Provinces and territories are responsible for identifying projects, in collaboration with municipalities, to be funded through the new Public Transit Infrastructure Fund (PTIF). The expansion of Transit Vehicle Overhaul and Maintenance Facilities qualifies as an eligible investment under the PTIF program.

The vehicle overhaul and repair shop at the Fort Rouge Garage (FRG) is the primary vehicle maintenance facility operated by Winnipeg Transit. Approximately 95% of the maintenance activities that support fleet operations are housed at this location and as a result, ensure efficient and effective operations which are critical to meeting Transit service requirements.

Since the facility was constructed in the late 1960s, increases in the size of the fleet and the increased complexity in the design of transit buses have increased the requirement for vehicle maintenance space. A space deficiency has developed as the room for expansion designed into the original facility has been taken up to house the new equipment and resources necessary to support maintenance activities such as midlife structural refurbishments, electronics, engine emissions equipment and air conditioning. This deficiency has grown acute as the bus fleet has expanded from 545 to over 625 buses within the last ten years.

Expanding the vehicle overhaul and maintenance facilities at FRG is the preferred solution to the space deficiency issue as maintaining a single, centralized location will provide the greatest efficiency for staff, equipment and vehicle resources. The building expansion will occur in an area currently used for employee parking.

The project will be delivered using a design-build procurement model.

This project will ultimately increase floor area for these purposes to 174,000 sq.ft., from the existing area of 113,000 sq.ft. Future stores/ inventory space will also be increased from 26,000 sq. ft. to 30,000 sq.ft. The expansion will include:

- Eighteen additional in-floor hoists. Twelve for 40’ buses, six can accommodate 60’ buses as well as 30’ and 40’. The hoists are current technology and are designed with individual power units; subsequently, a power unit failure impacts only one hoist instead of twelve. The new hoists are built to current safety standards. These additional hoists will increase maintenance capacity, especially for the articulated buses.

- Electrical System Upgrade: The electrical system was installed when the building was originally constructed in 1968, and is in need of an upgrade. Currently, a major maintenance electrical shutdown to any part of the facility requires the shutdown of the entire campus. A current project to upgrade the ventilation system will increase the electrical demand, so the need to upgrade is imminent. The preferred design is to create three zones that can be independently shut down when required.

- Backup Generator Installation: Currently the campus does not have an emergency backup generator; consequently, a power outage will shut down Transit communications, maintenance and bus servicing for the duration of the outage, which would negatively affect service. The building expansion project requires a dedicated backup generator, so the installation of a generator for each of the zones mentioned above is recommended.

- Development of the Traffic Services Area: The Traffic Services division of the Public Works department currently leases space from Transit; this space would be utilized by the Transit department for improved efficiency for other Transit divisions currently leasing space. Transit currently leases space for 4 of its divisions in two buildings which could be more efficiently housed in the Osborne Street campus.

Approximate Overall Project Funding (in $000s)

City	14,200	27%
Province	13,000	24%
Federal	26,000	49%
	53,200	

Estimated useful life - 30 years.

Approval of this project is contingent upon Federal and Provincial contributions.

Funding in 2017 includes rebudgeted amounts from previously approved capital budgets - see Appendix 4.

Project Name: **Transit Building Roof Replacement and Ventilation Upgrade**

Standing Policy Committee: Infrastructure Renewal and Public Works

Department: Transit
Project: 4210000517
Service: Public Transit
OurWinnipeg: Environment

AUTHORIZATION	Previous Budgets	2017 Estimate	FORECAST 2018	2019	2020	2021	2022	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	N/A *	3,550	3,550	4,500	2,500	2,000	2,018	14,568	18,118
Financed by:									
Cash to Capital		963	962	4,500	2,500	2,000	2,018	11,980	12,943
Public Transit Infrastructure Fund (Federal Government)		1,725	1,725					1,725	3,450
Transfer from Prior Year Authorization - Manitoba Winnipeg Infrastructure Agreement (MWIA)		862	863					863	1,725

CASH FLOW	2017	2018	2019	2020	2021	2022	Beyond 2022	Total
Project Costs ($000's)	3,550	3,550	4,500	2,500	2,000	2,018	-	18,118
Financed by:								
Cash to Capital	963	962	4,500	2,500	2,000	2,018		12,943
Public Transit Infrastructure Fund (Federal Government)	1,725	1,725						3,450
Transfer from Prior Year Authorization - Manitoba Winnipeg Infrastructure Agreement (MWIA)	862	863						1,725

NET OPERATING IMPACT ($000's)	2017	2018	2019
Operating costs	174	175	177
External debt and finance charges			
Transfer to General Capital Fund	963	962	4,500
Total Direct Costs	1,137	1,137	4,677
Less: Incremental Revenue/Recovery	30	30	142
Net Cost/(Benefit)	1,107	1,107	4,535
Incremental Full Time Equivalent Positions	1.00	1.00	1.00

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

Note: Any surplus funds will automatically be transferred to the following year's Transit 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 buildings were originally equipped with four-ply asphalt built-up roof systems (BUR). Ongoing maintenance continues to be performed, however the roofs are now at the end of their economic and useful lives and need to be replaced.

Transit Building Roof Replacement and Ventilation Upgrade (continued):

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.

Project	2017	2018	2019	2020	2021	2022	Total
Fort Rouge Garage Roof Replacement **	2,000	1,800	2,500	500			6,800
Upgrade Garage Ventilation Systems **	1,550	1,750	2,000	2,000	2,000	2,018	11,318
	3,550	**3,550**	**4,500**	**2,500**	**2,000**	**2,018**	**18,118**

* 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.

Estimated useful life - dependent on the specific project.

This project has been impacted by the allocation of Federal funding from the Public Transit Infrastructure Fund as well as the accompanying contribution from the Province of Manitoba. If the Federal and Provincial contributions are not confirmed, the project budget will be reduced to the amount of authorized City funding. If this scenario occurs, alternative funding sources will be reviewed and brought forward for Council consideration and approval.

Funding in 2017 and 2018 include rebudgeted amounts from previously approved capital budgets - see Appendix 4.

Project Name: **Transit Buses**

Standing Policy Committee: Infrastructure Renewal and Public Works

Department: Transit
Project: 4210000217

Service: Public Transit
OurWinnipeg: Environment

AUTHORIZATION	Previous Budgets	2017 Estimate	FORECAST 2018	2019	2020	2021	2022	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	N/A *	22,408	29,252	37,960	32,823	34,436	36,130	170,601	193,009
Financed by:									
Cash to Capital			1,335	562	11,358	12,426	13,253	38,934	38,934
Transit Bus Replacement Reserve		3,938	10,472	13,526	11,228	11,773	12,640	59,639	63,577
Provincial Building Manitoba Fund		3,840	3,840	3,840	3,840	3,840	3,840	19,200	23,040
Transfer from Prior Year Authorization - Manitoba Winnipeg Infrastructure Agreement (MWIA)		1,880	855					855	2,735
Public Transit Infrastructure Fund (Federal Government)		10,750	12,750					12,750	23,500
Federal Gas Tax				18,900	6,397	6,397	6,397	38,091	38,091
Transfer from Prior Year Authorization - Federal Gas Tax				1,132				1,132	1,132
Retained Earnings		2,000							2,000

CASH FLOW	2017	2018	2019	2020	2021	2022	Beyond 2022	Total
Project Costs ($000's)	22,408	29,252	37,960	32,823	34,436	36,130	-	193,009
Financed by:								
Cash to Capital		1,335	562	11,358	12,426	13,253		38,934
Transit Bus Replacement Reserve	3,938	10,472	13,526	11,228	11,773	12,640		63,577
Provincial Building Manitoba Fund	3,840	3,840	3,840	3,840	3,840	3,840		23,040
Transfer from Prior Year Authorization - Manitoba Winnipeg Infrastructure Agreement (MWIA)	1,880	855						2,735
Public Transit Infrastructure Fund (Federal Government)	10,750	12,750						23,500
Federal Gas Tax			18,900	6,397	6,397	6,397		38,091
Transfer from Prior Year Authorization - Federal Gas Tax			1,132					1,132
Retained Earnings	2,000							2,000

NET OPERATING IMPACT ($000's)	2017	2018	2019
Operating costs		230	470
External debt and finance charges			
Transfer to General Capital Fund		1,335	562
Total Direct Costs	-	1,565	1,032
Less: Incremental Revenue/Recovery	189	372	443
Net Cost/(Benefit)	(189)	1,193	589
Incremental Full Time Equivalent Positions	-	3.00	6.00

Transit Buses (continued):

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

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 out-fitting costs associated with these purchases and those associated with increasing the fleet size due to fewer vehicle retirements.

2019 budget estimate includes provision for 12 additional buses estimated to be required for operation on the Southwest Rapid Transitway upon completion of Stage 2.

Estimated useful life - dependent on assets purchased.

Note: Any surplus funds will automatically be transferred to the following year's Transit Buses program budget.

This project has been impacted by the allocation of Federal funding from the Public Transit Infrastructure Fund as well as the accompanying contribution from the Province of Manitoba. If the Federal and Provincial contributions are not confirmed, the project budget will be reduced to the amount of authorized City funding. If this scenario occurs, alternative funding sources will be reviewed and brought forward for Council consideration and approval.

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

Funding in 2017 to 2019 include rebudgeted amounts from previously approved capital budgets - see Appendix 4.

Project Name: **Southwest Rapid Transitway (Stage 2) and Pembina Highway Underpass**

Standing Policy Committee: Infrastructure Renewal and Public Works

Department: Transit
Project: 4230010520
Service: Public Transit
OurWinnipeg: Environment

AUTHORIZATION	Previous Budgets	2017 Estimate	FORECAST 2018	2019	2020	2021	2022	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	467,300	-	-	-	-	-	-	-	-
Financed by:									
P3 Canada	91,200							-	-
Provincial Grant	181,700							-	-
2010 Provincial Grant for Roads	6,350							-	-
Public Private Partnership (City)	138,200							-	-
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	350	1,780	14,460	14,720	14,760	46,070	46,420
P3 Annual Service / Financing Payments (Province)				(80)	(1,010)	(1,110)	(1,120)	(3,320)	(3,320)
P3 Annual Service / Financing Payments (City)		(350)	(350)	(1,700)	(10,060)	(10,220)	(10,250)	(32,580)	(32,930)
External Debt Annual Service Payments (City)					(3,390)	(3,390)	(3,390)	(10,170)	(10,170)

CASH FLOW	2017	2018	2019	2020	2021	2022	Beyond 2022	Total
Project Costs ($000's)	-	-	-	-	-	-	-	-
Financed by:								
Southwest Rapid Transitway (Stage 2) and Pembina Highway Underpass Payment Reserve	350	350	1,780	14,460	14,720	14,760	446,678	493,098
P3 Annual Service / Financing Payments (Province)			(80)	(1,010)	(1,110)	(1,120)	(49,420)	(52,740)
P3 Annual Service / Financing Payments (City)	(350)	(350)	(1,700)	(10,060)	(10,220)	(10,250)	(305,878)	(338,808)
External Debt Annual Service Payments (City)				(3,390)	(3,390)	(3,390)	(91,380)	(101,550)

NET OPERATING IMPACT ($000's)	2017	2018	2019
Operating costs			
External debt and finance charges			
Transfer to General Capital Fund			
Total Direct Costs	-	-	-
Less: Incremental Revenue/Recovery			
Net Cost/(Benefit)	-	-	-
Incremental Full Time Equivalent Positions	-	-	-

Southwest Rapid Transitway (Stage 2) and Pembina Highway Underpass (continued):

Class Estimate: Not Applicable

This project has been awarded to Plenary Roads Winnipeg to Design-Build-Finance-Maintain-Operate the project as a Public-Private-Partnership (P3).

The Southwest Rapid Transitway (Stage 2) and Pembina Highway Underpass was approved by Council on June 25, 2014 as a 2014 capital project. The project is being procured using a P3 approach and the facility is estimated to be complete in late 2019 with service beginning in 2020.

This project combines two projects and having them procured as a single P3 project arrangement. The Southwest Rapid Transitway (Stage 2) will increase the length of the Transitway by an additional 7.6 km. -- 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 completion of the corridor will provide significant opportunities for transit-oriented development in lands adjacent to the rapid transit stations.

The urban travel demand in southwest Winnipeg is expected to substantially increase as approved and new developments are built. As specified in the adopted Transportation Master Plan, rapid transit is required in this sector of the city to enable the overall urban transportation system to accommodate the growth in travel. This project will significantly improve the competitiveness of public transit by allowing transit vehicles to bypass traffic congestion in the Pembina Highway corridor, improving the speed, reliability and comfort of the many transit routes that serve southwest Winnipeg.

On February 9, 2015, PPP Canada announced its funding contribution of up to $137.3 million.

On March 22, 2016 Council authorized the reduction of the PPP Canada funding, previously budgeted at $140 million, by $2.7 million to reflect the confirmed funding amount of up to $137.3 million.

Approximate Overall Project Funding (in $000s)

	Original		Revised	
City	225,000	38%	188,050	40%
Province	225,000	38%	188,050	40%
Federal	137,300	24%	91,200	20%
	587,300		467,300	

The Project's successful bidder was selected in June 2016 and the Project achieved Financial Close June 24, 2016. The Projects 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 discussion with funding partners and are based on current estimates of eligible expenditures.

Revision to Previous Budgets (in $000s)

	Previous Budgets	Revisions	Revised Previous Budgets
Public Private Partnership (City)	204,300	(66,100)	138,200
External Debt	16,500	23,550	40,050
Southwest Rapid Transit Corridor Reserve	4,200		4,200
CN Rail Cost Apportionment		5,600	5,600
Provincial Grant	218,650	(36,950)	181,700
2010 Provincial Grant for Roads	6,350		6,350
P3 Canada	137,300	(46,100)	91,200
	587,300	(120,000)	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%.

Southwest Rapid Transitway (Stage 2) and Pembina Highway Underpass (continued):

- 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.
- Increased operating costs related to bus operations would not commence until 2020 and are not presented. These costs would follow the Transit Funding Agreement with the Province of Manitoba for 50/50 cost sharing.
- 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.

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.

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:

	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.

A recommendation to include the approval of an additional $23.55 million of external debt and eliminate $66.1 million of Public Private Partnership debt is required.

* Previous budgets reflect 2014 approval of the capital project plus all Council approved recommendations to revise the budget as indicated above.

Project Name: **Bus Fleet Cameras**

Standing Policy Committee: Infrastructure Renewal and Public Works

Department: Transit
Project: 4210001217

Service: Public Transit
OurWinnipeg: Environment

AUTHORIZATION	Previous Budgets	2017 Estimate	FORECAST 2018	2019	2020	2021	2022	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	-	345	155	-	-	-	-	155	500
Financed by:									
Cash to Capital			155					155	155
Retained Earnings		345						-	345

CASH FLOW	2017	2018	2019	2020	2021	2022	Beyond 2022	Total
Project Costs ($000's)	345	155	-	-	-	-	-	500
Financed by:								
Cash to Capital		155						155
Retained Earnings	345							345

NET OPERATING IMPACT ($000's)	2017	2018	2019
Operating costs		6	6
External debt and finance charges			
Transfer to General Capital Fund		155	
Total Direct Costs	-	161	6
Less: Incremental Revenue/Recovery	8	6	-
Net Cost/(Benefit)	(8)	155	6
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: 3

The addition of video surveillance cameras to the inside of the bus and the external left side of a bus to provide a more complete view and enhance safety.

Project Name: **Flood Pumping Station Rehabilitation**

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

Department: Water and Waste
Project: 20765001yy
Service: Land Drainage and Flood Control
OurWinnipeg: Environment

AUTHORIZATION	Previous Budgets	2017 Estimate	FORECAST 2018	2019	2020	2021	2022	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	N/A*	1,000	1,000	1,000	1,000	1,000	1,000	5,000	6,000
Financed by:									
Cash to Capital		1,000	1,000	1,000	1,000	1,000	1,000	5,000	6,000

CASH FLOW	2017	2018	2019	2020	2021	2022	Beyond 2022	Total
Project Costs ($000's)	1,000	1,000	1,000	1,000	1,000	1,000	-	6,000
Financed by:								
Cash to Capital	1,000	1,000	1,000	1,000	1,000	1,000		6,000

NET OPERATING IMPACT ($000's)	2017	2018	2019
Operating costs			
External debt and finance charges			
Transfer to General Capital Fund	1,000	1,000	1,000
Total Direct Costs	1,000	1,000	1,000
Less: Incremental Revenue/Recovery			
Net Cost/(Benefit)	1,000	1,000	1,000
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 34 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. Funding for this project also includes an annual program for carrying out major repairs, upgrades and/or improvements to the flood pumping stations and associated outfall pipes and gates. Upgrades and/or improvements include changes to: ventilation, electrical, mechanical, structural, and architectural components. A program to address high priority reliability items has been developed for implementation over the next six years. All stations will be upgraded for remote monitoring which is critical during flood and rainfall events.

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 and Combined Sewers Outfall Gate Structures**

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

Department: Water and Waste
Project: 20785002yy
Service: Land Drainage and Flood Control
OurWinnipeg: Environment

AUTHORIZATION	Previous Budgets	2017 Estimate	FORECAST 2018	2019	2020	2021	2022	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	N/A*	2,430	1,730	1,710	1,980	-	-	5,420	7,850
Financed by:									
Cash to Capital		2,430	1,730	1,710	1,980			5,420	7,850

CASH FLOW	2017	2018	2019	2020	2021	2022	Beyond 2022	Total
Project Costs ($000's)	2,430	1,730	1,710	1,980	-	-	-	7,850
Financed by:								
Cash to Capital	2,430	1,730	1,710	1,980				7,850

NET OPERATING IMPACT ($000's)	2017	2018	2019
Operating costs			
External debt and finance charges			
Transfer to General Capital Fund	2,430	1,730	1,710
Total Direct Costs	2,430	1,730	1,710
Less: Incremental Revenue/Recovery			
Net Cost/(Benefit)	2,430	1,730	1,710
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 will be undertaken to develop conceptual designs and cost estimates for adding flap gates and permanent pumping as required to seven identified sites.

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 (formerly Stormwater Retention Basin Rehabilitation)**

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

Department: Water and Waste
Project: 20750001yy
Service: Land Drainage and Flood Control
OurWinnipeg: Environment

AUTHORIZATION	Previous Budgets	2017 Estimate	FORECAST 2018	2019	2020	2021	2022	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	N/A*	215	170	180	190	-	-	540	755
Financed by:									
Cash to Capital		165	170	180	190			540	705
Transfer From Prior Year Authorization		50							50

CASH FLOW	2017	2018	2019	2020	2021	2022	Beyond 2022	Total
Project Costs ($000's)	215	170	180	190	-	-	-	755
Financed by:								
Cash to Capital	165	170	180	190				705
Transfer From Prior Year Authorization	50							50

NET OPERATING IMPACT ($000's)	2017	2018	2019
Operating costs			
External debt and finance charges			
Transfer to General Capital Fund	165	170	180
Total Direct Costs	165	170	180
Less: Incremental Revenue/Recovery			
Net Cost/(Benefit)	165	170	180
Incremental Full Time Equivalent Positions	-	-	-

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

There are 86 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.

Project name changed from Stormwater Retention Basin Rehabilitation.

Funding in 2017 includes $50,000 rebudgeted from capital budget authorized in 2014 - see Appendix 4.

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 (formerly Land Drainage Utility Study and Implementation)**

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

Department: Water and Waste
Project: 20700015YY
Service: Land Drainage and Flood Control
OurWinnipeg: Environment

AUTHORIZATION	Previous Budgets	2017 Estimate	FORECAST 2018	2019	2020	2021	2022	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	-	-	-	-	400	100	-	500	500
Financed by:									
Cash to Capital					400	100		500	500

CASH FLOW	2017	2018	2019	2020	2021	2022	Beyond 2022	Total
Project Costs ($000's)	-	-	-	400	100	-	-	500
Financed by:								
Cash to Capital				400	100			500

NET OPERATING IMPACT ($000's)	2017	2018	2019
Operating costs			
External 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 changed from Land Drainage Utility Study and Implementation.

$500,000 was budgeted from 2014 capital budget authorization.

Project Name: **Development Agreement Paybacks**

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

Department: Water and Waste
Project: 20770001yy

Service: Land Drainage and Flood Control
OurWinnipeg: Environment

AUTHORIZATION	Previous Budgets	2017 Estimate	FORECAST 2018	2019	2020	2021	2022	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	N/A*	3,250	2,000	1,700	500	-	-	4,200	7,450
Financed by:									
Developer Capacity Charges		3,250	2,000	1,700	500			4,200	7,450

CASH FLOW	2017	2018	2019	2020	2021	2022	Beyond 2022	Total
Project Costs ($000's)	3,250	2,000	1,700	500	-	-	-	7,450
Financed by:								
Developer Capacity Charges	3,250	2,000	1,700	500				7,450

NET OPERATING IMPACT ($000's)	2017	2018	2019
Operating costs			
External 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 June 21, 1989.

Funds budgeted will provide the following paybacks:

2017 - DASZ 30/13 (Castlebury Meadows) and others	2,750,000
2017 - DASZ 50/13 (Ridgewood West)	500,000
2018 - DASZ 37/14 (Amber Gates)	500,000
2018 - DASZ 40/15 (North Point)	1,000,000
2018 - DASZ 11/13 (Devonshire Park South)	500,000
2019 - DASZ 52/13 (Dawson-Fermor)	1,200,000
2019 - DASZ 39/15 (Inkster & King Edward)	500,000
2020 - DASZ 56/85 (Inksbrook Industrial Park)	500,000

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: **Outfall Rehabilitation**

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

Department: Water and Waste
Project: 20780001yy

Service: Land Drainage and Flood Control
OurWinnipeg: Environment

AUTHORIZATION	Previous Budgets	2017 Estimate	FORECAST 2018	2019	2020	2021	2022	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	N/A*	2,000	2,000	2,000	2,000	2,000	3,500	11,500	13,500
Financed by:									
Cash to Capital		2,000	2,000	2,000	2,000	2,000	3,500	11,500	13,500

CASH FLOW	2017	2018	2019	2020	2021	2022	Beyond 2022	Total
Project Costs ($000's)	2,000	2,000	2,000	2,000	2,000	3,500	-	13,500
Financed by:								
Cash to Capital	2,000	2,000	2,000	2,000	2,000	3,500		13,500

NET OPERATING IMPACT ($000's)	2017	2018	2019
Operating costs			
External debt and finance charges			
Transfer to General Capital Fund	2,000	2,000	2,000
Total Direct Costs	2,000	2,000	2,000
Less: Incremental Revenue/Recovery			
Net Cost/(Benefit)	2,000	2,000	2,000
Incremental Full Time Equivalent Positions	-	-	-

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

In 1998 a condition assessment was completed identifying 350 outfall sites. These sites were classified from a scale of 1 to 5 with 5 being the worst site and a high priority for repair and replacement. Originally 55 high-priority sites were identified requiring attention. Since then, five more sites have been added for a total of 60 sites. There are currently 26 priority 4 or 5 outfall locations that have been identified for replacement or rehabilitation, which does not include any emergency replacements due to unforeseen and sudden failures.

An Outfall Condition Assessment is underway. This assessment will reprioritize Winnipeg's 350 outfall sites given the substantive bank movements and slumping that have occurred in the last 20 years of high water events. The assessment will identify the outfalls that require renewal/rehabilitation, identify renewal/rehabilitation techniques for each outfall and provide a cost estimate for the work at each outfall. This will enable the City to budget and program risk-based work on a yearly basis to maximize use of future funding for the rehabilitation of sewer outfalls, repairs to piping and to improve riverbank instability 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: **Shoal Lake Aqueduct Asset Preservation**

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

Department: Water and Waste
Project: 20030006yy

Service: Water
OurWinnipeg: Environment

AUTHORIZATION	Previous Budgets	2017 Estimate	FORECAST 2018	2019	2020	2021	2022	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	4,319	400	2,018	-	1,390	2,595	-	6,003	6,403
Financed by:									
Retained Earnings		400	2,018		1,390	2,595		6,003	6,403

CASH FLOW	2017	2018	2019	2020	2021	2022	Beyond 2022	Total
Project Costs ($000's)	350	1,000	1,000	1,553	1,500	1,000	-	6,403
Financed by:								
Retained Earnings	350	1,000	1,000	1,553	1,500	1,000		6,403

NET OPERATING IMPACT ($000's)	2017	2018	2019
Operating costs			
External 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 kilometres (97 miles). A comprehensive condition assessment and rehabilitation of the Aqueduct commenced in 1988 and was substantially completed in 2004. While the Aqueduct rehabilitation project has resulted in an increase of the Aqueduct's service life by 50 years, on-going monitoring and inspection programs will identify future work required.

Work which has been identified includes the rehabilitation of drainage siphons crossing under the Aqueduct, replacement or rehabilitation of boathouses and broken Aqueduct vent pipes, re-establishment of a boathouse in proximity of the Whitemouth River and cleaning, condition inspection and repair of the Aqueduct underdrain system.

Preliminary design being undertaken in 2016 and 2017 will provide a class 3 estimate prior to construction.

The expected life of this asset is 40 years.

Project Name: **Shoal Lake Aqueduct Intake Facility Rehabilitation**

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

Department: Water and Waste
Project: 20120002yy

Service: Water
OurWinnipeg: Environment

AUTHORIZATION	Previous Budgets	2017 Estimate	FORECAST 2018	2019	2020	2021	2022	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	5,842	3,223	50	-	1,225	1,330	-	2,605	5,828
Financed by:									
Retained Earnings		3,223	50		1,225	1,330		2,605	5,828

CASH FLOW	2017	2018	2019	2020	2021	2022	Beyond 2022	Total
Project Costs ($000's)	3,223	50	-	1,225	1,330	-	-	5,828
Financed by:								
Retained Earnings	3,223	50		1,225	1,330			5,828

NET OPERATING IMPACT ($000's)	2017	2018	2019
Operating costs	(55)	(55)	(55)
External debt and finance charges			
Transfer to General Capital Fund			
Total Direct Costs	(55)	(55)	(55)
Less: Incremental Revenue/Recovery			
Net Cost/(Benefit)	(55)	(55)	(55)
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, the replacement of the maintenance/communication facility, as well as upgrades and improvements to the existing infrastructure. The recommended improvements will be completed in phases according to priority.

Detailed design being undertaken in 2016 will provide a class 3 estimate prior to construction.

The expected life of this asset is 50 years.

Project Name: **Aqueduct Condition Assessment and Rehabilitation (formerly Branch Aqueduct Condition Assessment and Rehabilitation)**

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

Department: Water and Waste
Project: 20030005yy
Service: Water
OurWinnipeg: Environment

AUTHORIZATION	Previous Budgets	2017 Estimate	FORECAST 2018	2019	2020	2021	2022	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	500	1,500	-	-	-	1,000	-	1,000	2,500
Financed by:									
Retained Earnings						1,000		1,000	1,000
Transfer From Prior Year Authorization - Retained Earnings		1,500							1,500

CASH FLOW	2017	2018	2019	2020	2021	2022	Beyond 2022	Total
Project Costs ($000's)	1,500	-	-	-	1,000	-	-	2,500
Financed by:								
Retained Earnings					1,000			1,000
Transfer From Prior Year Authorization - Retained Earnings	1,500							1,500

NET OPERATING IMPACT ($000's)	2017	2018	2019
Operating costs			
External 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 used for the condition assessment and rehabilitation of the aqueduct and branch aqueducts.

Preliminary planning in 2016 will provide a class 3 estimate prior to inspection and/or construction.

The name of this project has changed from Branch Aqueduct Condition Assessment and Rehabilitation to Aqueduct Condition Assessment and Rehabilitation.

Funding in 2017 includes $1,500,000 rebudgeted from capital budget authorized in 2013 - see Appendix 4.

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: 20050006yy

Service: Water
OurWinnipeg: Environment

AUTHORIZATION	Previous Budgets	2017 Estimate	FORECAST 2018	2019	2020	2021	2022	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	300	1,500	-	-	4,036	-	-	4,036	5,536
Financed by:									
Retained Earnings		300			4,036			4,036	4,336
Transfer From Prior Year Authorization - Retained Earnings		1,200							1,200

CASH FLOW	2017	2018	2019	2020	2021	2022	Beyond 2022	Total
Project Costs ($000's)	1,500	-	-	4,036	-	-	-	5,536
Financed by:								
Retained Earnings	300			4,036				4,336
Transfer From Prior Year Authorization - Retained Earnings	1,200							1,200

NET OPERATING IMPACT ($000's)	2017	2018	2019
Operating costs			
External 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 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 in 2016 will provide a class 3 estimate prior to construction.

Funding in 2017 includes $1,200,000 rebudgeted from capital budget authorized in 2013 and 2016 - see Appendix 4.

The expected life of this rehabilitation asset is 50 years.

Project Name: **Pumping Stations Reliability Upgrades**

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

Department: Water and Waste
Project: 20050003yy

Service: Water
OurWinnipeg: Environment

AUTHORIZATION	Previous Budgets	2017 Estimate	FORECAST 2018	2019	2020	2021	2022	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	3,076	3,659	-	-	-	-	-	-	3,659
Financed by:									
Retained Earnings		884						-	884
Transfer From Prior Year Authorization - Retained Earnings		2,775							2,775

CASH FLOW	2017	2018	2019	2020	2021	2022	Beyond 2022	Total
Project Costs ($000's)	1,000	2,000	659	-	-	-	-	3,659
Financed by:								
Retained Earnings		225	659					884
Transfer From Prior Year Authorization - Retained Earnings	1,000	1,775						2,775

NET OPERATING IMPACT ($000's)	2017	2018	2019
Operating costs			
External 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 electrical power supply is the primary source of energy to drive the pumps in the drinking water pump stations. Electrical power disruptions have caused the electric pumps to shut down for protection purposes, which results in reduced water service. In order to identify the deficiencies in the system, a Water Pumping Station Power Reliability Study was completed. One of the recommendations of the study was to carry out Water Pumping Stations Electrical Inspections. The study and the inspections produced recommendations for a number of electrical and control improvements to reduce the effects of electrical power disruptions.

The required improvements will be completed in phases according to priority. The Water Pumping Station Power Reliability Study also recommended a number of upgrades to address risks associated with the configuration of the pumping and ancillary equipment. These reliability upgrades will address shortcomings in the existing control and instrumentation design and will add redundancy to ensure greater station reliability. These reliability upgrades will be undertaken in conjunction with the Supervisory Control and Data Acquisition upgrade project to minimize station shut-down times.

Detailed design being undertaken in 2016/17 will provide a class 3 estimate prior to construction.

Funding in 2017 includes $2,775,000 rebudgeted from capital budget authorized in 2014 and 2015 - see Appendix 4.

The expected life of this asset is 20 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: 20050012yy

Service: Water
OurWinnipeg: Environment

AUTHORIZATION	Previous Budgets	2017 Estimate	FORECAST 2018	2019	2020	2021	2022	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	17,945	-	400	400	400	-	-	1,200	1,200
Financed by:									
Retained Earnings			400	400	400			1,200	1,200

CASH FLOW	2017	2018	2019	2020	2021	2022	Beyond 2022	Total
Project Costs ($000's)	-	400	400	400	-	-	-	1,200
Financed by:								
Retained Earnings		400	400	400				1,200

NET OPERATING IMPACT ($000's)	2017	2018	2019
Operating costs			
External 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. The 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. A preliminary assessment of the north cell at the Wilkes Reservoir found that major rehabilitation was required to ensure continued reliable operation.

Upon completion of the rehabilitation work at the Wilkes Reservoir North Cell, condition assessments will be undertaken at the remaining reservoirs to identify any repairs needed to ensure the reservoirs remain operational for the next 50 years.

The expected life of these assets is 50 years.

Project Name: **Chlorination Upgrading at Pumping Stations**

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

Department: Water and Waste
Project: 20050011yy

Service: Water
OurWinnipeg: Environment

AUTHORIZATION	Previous Budgets	2017 Estimate	FORECAST 2018	2019	2020	2021	2022	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	425	-	2,750	-	-	-	-	2,750	2,750
Financed by:									
Retained Earnings			2,750					2,750	2,750

CASH FLOW	2017	2018	2019	2020	2021	2022	Beyond 2022	Total
Project Costs ($000's)	-	1,000	1,500	250	-	-	-	2,750
Financed by:								
Retained Earnings		1,000	1,500	250				2,750

NET OPERATING IMPACT ($000's)	2017	2018	2019
Operating costs		10	100
External debt and finance charges			
Transfer to General Capital Fund			
Total Direct Costs	-	10	100
Less: Incremental Revenue/Recovery			
Net Cost/(Benefit)	-	10	100
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. To reduce risks to the City, staff, public and the environment, a bulk hypochlorite system will be designed and installed at the pumping stations to replace the gas chlorine systems.

Detailed design work will provide a class 3 estimate prior to construction in 2018.

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: 20050002yy

Service: Water
OurWinnipeg: Environment

AUTHORIZATION	Previous Budgets	2017 Estimate	FORECAST 2018	2019	2020	2021	2022	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	4,267	8,033	-	-	-	-	775	775	8,808
Financed by:									
Retained Earnings							775	775	775
Transfer From Prior Year Authorization - Retained Earnings		8,033							8,033

CASH FLOW	2017	2018	2019	2020	2021	2022	Beyond 2022	Total
Project Costs ($000's)	-	4,000	3,000	1,000	33	775	-	8,808
Financed by:								
Retained Earnings						775		775
Transfer From Prior Year Authorization - Retained Earnings		4,000	3,000	1,000	33			8,033

NET OPERATING IMPACT ($000's)	2017	2018	2019
Operating costs			
External 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 2017 only

The Supervisory Control and Data Acquisition (SCADA) system controls and monitors the operation of the Winnipeg Water Treatment Plant and the Water Supply and Distribution System. The automated control system is comprised of specialized computer hardware and software, remote communications, instrumentation, and Programmable Logic Controls (PLC). The Department currently has two water SCADA systems; the Regional SCADA system which is used to control and monitor processes for the Water Supply and Distribution System and the Water Treatment Plant SCADA which is used to control and monitor processes at the Winnipeg Water Treatment Plant. The SCADA system is essential for the supply, water treatment process control and distribution of drinking water.

The computer servers, workstations and software of the Regional SCADA system were last upgraded in 2006 and are approaching the end of their useful life. Operating system support for this hardware ended in July 2015 and hardware age has exceeded the current industry standard for replacement, increasing risks to system reliability. To achieve system sustainability and ensure continuous operation of the system, replacement of server and workstation hardware and installation of software with longer support lifespan, including compatibility with new hardware, is required. As part of the upgrade, the Regional SCADA will be integrated with the Water Treatment Plant SCADA as this solution was found to have an overall lower 25-year lifecycle cost than maintaining two separate SCADA systems.

The PLCs currently in use at the three regional pumping stations (McPhillips, MacLean, and Hurst), Tache and Deacon booster pumping stations, and Shoal Lake Intake Facility were installed in 1992 and are no longer serviced or supported by the manufacturer. Upgrading the water supply system's PLCs at this time will allow for the review of the control software to optimize the operation of the system.

Water Supervisory Control and Data Acquisition (SCADA) Upgrade (continued):

Funding in 2017 includes $8,033,000 rebudgeted from capital budget authorized in 2014, 2015 and 2016 - see Appendix 4.

The expected service life of the PLCs is 10 years but will depend on the technical advancement in the process automation field.

The expected service life for the hardware is approximately five years for optimal SCADA system reliability. Funding has been added to the 2022 Capital Budget to meet this requirement.

Project Name: **Waterworks System Security Upgrades**

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

Department: Water and Waste
Project: 20010015yy

Service: Water
OurWinnipeg: Environment

AUTHORIZATION	Previous Budgets	2017 Estimate	FORECAST 2018	2019	2020	2021	2022	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	N/A *	498	576	371	-	-	-	947	1,445
Financed by:									
Retained Earnings		498	576	371				947	1,445

CASH FLOW	2017	2018	2019	2020	2021	2022	Beyond 2022	Total
Project Costs ($000's)	300	500	645	-	-	-	-	1,445
Financed by:								
Retained Earnings	300	500	645					1,445

NET OPERATING IMPACT ($000's)	2017	2018	2019
Operating costs			
External 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 in 2016/17 will provide a class 3 estimate prior to construction.

* 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: 20010007yy

Service: Water
OurWinnipeg: Environment

AUTHORIZATION	Previous Budgets	2017 Estimate	FORECAST 2018	2019	2020	2021	2022	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	450	-	-	-	-	575	-	575	575
Financed by:									
Retained Earnings						575		575	575

CASH FLOW	2017	2018	2019	2020	2021	2022	Beyond 2022	Total
Project Costs ($000's)	-	-	-	-	575	-	-	575
Financed by:								
Retained Earnings					575			575

NET OPERATING IMPACT ($000's)	2017	2018	2019
Operating costs			
External 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: **Water Treatment Plant Capacity Validation**

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

Department: Water and Waste
Project: 20025007YY

Service: Water
OurWinnipeg: Environment

AUTHORIZATION	Previous Budgets	2017 Estimate	FORECAST 2018	2019	2020	2021	2022	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	-	-	150	-	-	-	-	150	150
Financed by:									
Retained Earnings			150					150	150

CASH FLOW	2017	2018	2019	2020	2021	2022	Beyond 2022	Total
Project Costs ($000's)	-	150	-	-	-	-	-	150
Financed by:								
Retained Earnings		150						150

NET OPERATING IMPACT ($000's)	2017	2018	2019
Operating costs			
External 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's first Water Treatment Plant (WTP) began to supply treated water to the City late in 2009. The WTP was designed for cold and warm water production rates of 272 and 400 Megalitres per day (MLD), respectively. The maximum capacity of the WTP for both cold and warm water conditions must be validated over the next 5 to 10 years in order to identify the timing of capacity limitations and to plan for future upgrades. Validating capacity will minimize the risk that the City may be unprepared for operating at or near maximum treatment capacity as water demand increases from population growth.

The City's Pilot Scale Water Treatment Plant can be used to validate maximum process rates under a range of operating and water temperature conditions. This project is to retain an engineering consultant to coordinate and document the work of an engineering study, develop testing protocols, etc. The work may also present an opportunity to consider optimization of the entire treatment process to minimize the inputs of energy and chemicals.

Project Name: **Branch 1 Aqueduct at Seine River - Riverbank Stabilization (East Side)**

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

Department: Water and Waste
Project: 20030009YY

Service: Water
OurWinnipeg: Environment

AUTHORIZATION	Previous Budgets	2017 Estimate	FORECAST 2018	2019	2020	2021	2022	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	1,450	950	-	-	-	-	-	-	950
Financed by:									
Transfer From Prior Year Authorization - Retained Earnings		950						-	950

CASH FLOW	2017	2018	2019	2020	2021	2022	Beyond 2022	Total
Project Costs ($000's)	-	100	850	-	-	-	-	950
Financed by:								
Transfer From Prior Year Authorization - Retained Earnings		100	850					950

NET OPERATING IMPACT ($000's)	2017	2018	2019
Operating costs			
External 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 comprehensive condition assessment of the Branch I Aqueduct reach of the Shoal Lake Aqueduct (Deacon Reservoir to McPhillips Pumping Station and Reservoir) was undertaken for its entire length from 1994 to 1996. A program to assess the stability of the riverbanks adjacent to the Branch I Aqueduct where it crosses the Seine River commenced in early 1997. Downslope movement of the east riverbank has been recorded since that time and internal structural inspection of the Aqueduct has not revealed any distress of the pipe as yet. Monitoring of cumulative slope movements along the east bank of the Seine River have revealed increased downslope movement along a well-defined shear zone. If the trend of observed riverbank movement continues, the Aqueduct will inevitably be impacted along the east riverbank. Stabilization of the riverbank is required to protect the Branch 1 Aqueduct.

Funding is for engineering and construction of riverbank stabilization works to be undertaken before the Aqueduct is impacted.

Funding in 2017 includes $950,000 rebudgeted from capital budget authorized in 2015 - see Appendix 4.

The expected life of this asset is 50 years.

See also tax supported riverbank project “Riverbank Stabilization - Physical Asset Protection”, page 2-135.

Project Name: **Study of Backup Power Supply for the Hurst Pumping Station (formerly Study of Natural Gas Powered Backup Pumps for Hurst Pumping Station)**

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

Department: Water and Waste
Project: 20050013YY

Service: Water
OurWinnipeg: Environment

AUTHORIZATION	Previous Budgets	2017 Estimate	FORECAST 2018	2019	2020	2021	2022	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	-	400	-	-	-	-	-	-	400
Financed by:									
Retained Earnings		400						-	400

CASH FLOW	2017	2018	2019	2020	2021	2022	Beyond 2022	Total
Project Costs ($000's)	200	200	-	-	-	-	-	400
Financed by:								
Retained Earnings	200	200						400

NET OPERATING IMPACT ($000's)	2017	2018	2019
Operating costs			
External 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 MacLean and McPhillips pumping stations are driven using two sources of energy: electrical power supply and natural gas. The Hurst Pumping Station, serving the largest portion of the City's water demand, is equipped solely with electrically driven pumps. Despite some redundancy in the electrical supply to the station, Hurst has experienced electrical power disruptions that caused the electric pumps to shut down for protection purposes, which resulted in reduced water service.

In light of electrical interruptions at Hurst Pumping Station, the Regional Water Supply Conceptual Planning Study Update recommended assessing the need for backup power supply to this station. This study will evaluate options for backup power supply and provide cost estimates for options.

Study to be updated to a class 3 estimate following further discussion with Manitoba Hydro as part of pre-bid estimate.

Project Name: **Deacon Reservoir Cell Rehabilitation**

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

Department: Water and Waste
Project: 20110001YY

Service: Water
OurWinnipeg: Environment

AUTHORIZATION	Previous Budgets	2017 Estimate	FORECAST 2018	2019	2020	2021	2022	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	3,425	-	875	-	-	-	-	875	875
Financed by:									
Retained Earnings			875					875	875

CASH FLOW	2017	2018	2019	2020	2021	2022	Beyond 2022	Total
Project Costs ($000's)	-	300	400	175	-	-	-	875
Financed by:								
Retained Earnings		300	400	175				875

NET OPERATING IMPACT ($000's)	2017	2018	2019
Operating costs			
External 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 cells were constructed of clay materials between 1972 and 1996 and rise approximately six meters above the natural prairie. The four cells have a total storage volume of 8,800 megalitres, 6,900 megalitres of which is available for usable storage. The Deacon Reservoir has sufficient capacity to supply the City of Winnipeg with water for approximately 32 days under average water consumption rates. The cells are used to supplement the water supply when the daily water demand exceeds the capacity of the Shoal Lake Aqueduct. The cells also provide a water supply to the City when the Shoal Lake Aqueduct is annually shut down for inspection and maintenance.

On top of the cell dikes exists a three meter wide road which is used for inspection, maintenance, water sampling and security purposes. The total length of the cell roads is 9.5 km. Over time, the roads have developed a number of localized failures from water accumulation which require repair. A topographic survey of the top of the dikes was conducted and found some top of dike elevations that were substantially lower than design elevations. Preliminary engineering is underway to investigate the condition of the existing infrastructure and to develop a mitigation and repair strategy.

Work completed under previous budgets has included the repair of the two precast concrete box culverts that cross under PTH 207 which convey water from Cell No. 2 to Cell No. 1.

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: 20050009YY
Service: Water
OurWinnipeg: Environment

AUTHORIZATION	Previous Budgets	2017 Estimate	FORECAST 2018	2019	2020	2021	2022	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	200	-	1,000	-	-	-	-	1,000	1,000
Financed by:									
Retained Earnings			1,000					1,000	1,000

CASH FLOW	2017	2018	2019	2020	2021	2022	Beyond 2022	Total
Project Costs ($000's)	-	200	800	-	-	-	-	1,000
Financed by:								
Retained Earnings		200	800					1,000

NET OPERATING IMPACT ($000's)	2017	2018	2019
Operating costs			
External 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 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. The works will include the installation of a wall and valve in the mid-point on the suction header 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.

$1,000,000 was budgeted from 2015 capital budget authorization.

The expected life of this asset is 50 years.

Project Name: **Hurst Pumping Station Building - Structural Repairs**

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

Department: Water and Waste
Project: 20050007yy
Service: Water
OurWinnipeg: Environment

AUTHORIZATION	Previous Budgets	2017 Estimate	FORECAST 2018	2019	2020	2021	2022	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	105	400	1,900	-	-	-	-	1,900	2,300
Financed by:									
Retained Earnings			1,900					1,900	1,900
Transfer From Prior Year Authorization - Retained Earnings		400							400

CASH FLOW	2017	2018	2019	2020	2021	2022	Beyond 2022	Total
Project Costs ($000's)	200	1,100	1,000	-	-	-	-	2,300
Financed by:								
Retained Earnings		900	1,000					1,900
Transfer From Prior Year Authorization - Retained Earnings	200	200						400

NET OPERATING IMPACT ($000's)	2017	2018	2019
Operating costs			
External 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

Hurst Pumping Station was originally constructed in 1960 and an addition was completed in 1993. Several remedial measures are required address ongoing issues at the station. These works include: replacement of the existing roofing system, introduction of new roof drains, removal of interior cork insulation, safety improvements, repairs to the building's exterior cladding, surface drainage improvements, and modifications to the Hurst drainage building.

Preliminary design work being undertaken in 2016 will provide a class 3 estimate prior to construction.

Funding in 2017 includes rebudgeted amounts from previously approved capital budget - see Appendix 4.

$425,000 was budgeted from 2011 capital budget authorization.

The expected life of this asset is 50 years.

Project Name: **Deacon Site Flood Protection**

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

Department: Water and Waste
Project: 20025005YY

Service: Water
OurWinnipeg: Environment

AUTHORIZATION	Previous Budgets	2017 Estimate	FORECAST 2018	2019	2020	2021	2022	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	300	1,825	-	-	-	-	-	-	1,825
Financed by:									
Transfer From Prior Year Authorization - Retained Earnings		1,825						-	1,825

CASH FLOW	2017	2018	2019	2020	2021	2022	Beyond 2022	Total
Project Costs ($000's)	325	1,500	-	-	-	-	-	1,825
Financed by:								
Transfer From Prior Year Authorization - Retained Earnings	325	1,500						1,825

NET OPERATING IMPACT ($000's)	2017	2018	2019
Operating costs			
External 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 site ditch drainage system experienced overland flooding due to high water levels in the drain discharging into the floodway during the 1997 flood. With the expanded floodway and the increased water levels, additional flood protection measures must be installed to protect the Water Treatment Plant and related onsite buildings.

Preliminary design work beginning in 2016 will provide a class 3 estimate prior to construction.

Funding in 2017 includes $1,825,000 rebudgeted from capital budget authorized in 2014 and 2015 - see Appendix 4.

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: 2005001418

Service: Water
OurWinnipeg: Environment

AUTHORIZATION	Previous Budgets	2017 Estimate	FORECAST 2018	2019	2020	2021	2022	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	-	-	4,900	-	-	-	-	4,900	4,900
Financed by:									
Retained Earnings			4,900					4,900	4,900

CASH FLOW	2017	2018	2019	2020	2021	2022	Beyond 2022	Total
Project Costs ($000's)	-	1,000	2,000	1,900	-	-	-	4,900
Financed by:								
Retained Earnings		1,000	2,000	1,900				4,900

NET OPERATING IMPACT ($000's)	2017	2018	2019
Operating costs			
External 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 will have to be replaced as the refrigerant that is 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. Closed loop fluid coolers will be installed at McPhillips and MacLean.

$4,900,000 was budgeted from 2015 capital budget authorization.

The estimated useful 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: 20050013YY

Service: Water
OurWinnipeg: Environment

AUTHORIZATION	Previous Budgets	2017 Estimate	FORECAST 2018	2019	2020	2021	2022	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	-	1,735	-	-	-	-	-	-	1,735
Financed by:									
Retained Earnings		1,735						-	1,735

CASH FLOW	2017	2018	2019	2020	2021	2022	Beyond 2022	Total
Project Costs ($000's)	1,735	-	-	-	-	-	-	1,735
Financed by:								
Retained Earnings	1,735							1,735

NET OPERATING IMPACT ($000's)	2017	2018	2019
Operating costs	(20)	(40)	(40)
External debt and finance charges			
Transfer to General Capital Fund			
Total Direct Costs	(20)	(40)	(40)
Less: Incremental Revenue/Recovery			
Net Cost/(Benefit)	(20)	(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 in 2017 is to complete the recommended upgrades.

The expected life of this asset is 20 years.

Project Name: **Saskatchewan Avenue Water Main**

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

Department: Water and Waste
Project: 20135001YY
Service: Water
OurWinnipeg: Environment

AUTHORIZATION	Previous Budgets	2017 Estimate	FORECAST 2018	2019	2020	2021	2022	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	-	4,830	-	-	-	-	-	-	4,830
Financed by:									
Retained Earnings		4,830						-	4,830

CASH FLOW	2017	2018	2019	2020	2021	2022	Beyond 2022	Total
Project Costs ($000's)	4,830	-	-	-	-	-	-	4,830
Financed by:								
Retained Earnings	4,830							4,830

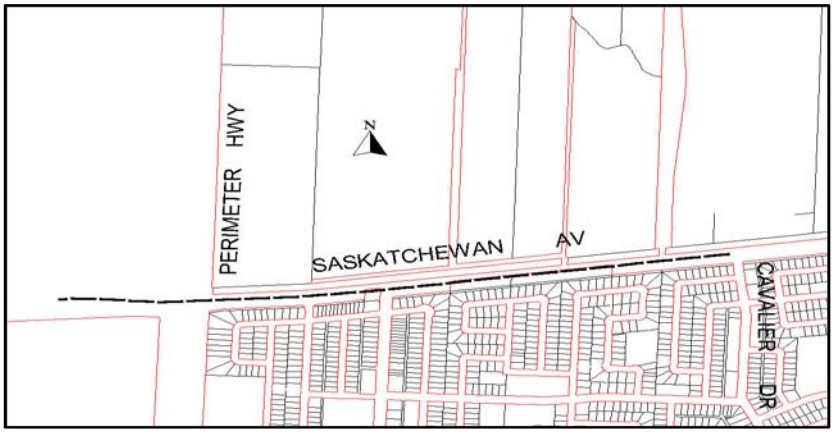
NET OPERATING IMPACT ($000's)	2017	2018	2019
Operating costs			
External debt and finance charges			
Transfer to General Capital Fund			
Total Direct Costs	-	-	-
Less: Incremental Revenue/Recovery			
Net Cost/(Benefit)	-	-	-
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: 3

Urban development of the lands within the City and west of the Perimeter Highway (PTH 101) will require an extension of the water distribution system to provide a looped supply. The funds included are to provide for a water main between Cavalier Drive and a point 500 metres west of PTH 101 on Saskatchewan Avenue. It is expected that water mains required within the development lands to complete the loop will be oversized by developers.

It is expected that a portion of the costs for the new water main servicing the new development areas will be paid back as part of future development agreements. New connections to the water main will not be permitted until the full range of services is installed.

The expected life of this asset is over 50 years.



Project Name: **Transcona Water Main Reliability Upgrade**

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

Department: Water and Waste
Project: 20135002YY

Service: Water
OurWinnipeg: Environment

AUTHORIZATION	Previous Budgets	2017 Estimate	FORECAST 2018	2019	2020	2021	2022	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	-	-	5,788	-	-	-	-	5,788	5,788
Financed by:									
Retained Earnings			5,788					5,788	5,788

CASH FLOW	2017	2018	2019	2020	2021	2022	Beyond 2022	Total
Project Costs ($000's)	-	5,788	-	-	-	-	-	5,788
Financed by:								
Retained Earnings		5,788						5,788

NET OPERATING IMPACT ($000's)	2017	2018	2019
Operating costs			
External 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

Water supply redundancy in South Transcona is required. The Discoloured Water Investigation Study undertaken in 2013 recommended that the City investigate opportunities to minimize water age (water travel time) in the water distribution system. This concern in East Winnipeg can be mitigated by the construction of a 3 km long, 300 mm diameter water main along Dugald Road from McFadden Avenue to Ravenhurst Street and along Ravenhurst Street from Dugald Road to Pandora Avenue East. It is expected that the cost of the portion of water main fronting new development areas will be paid back as part of future development agreements. New connections to the water main will not be permitted until the full range of services is installed.

The expected life of this asset is over 50 years.

Project Name: **Feeder Main Condition Assessment and Rehabilitation**

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

Department: Water and Waste
Project: 20040007yy

Service: Water
OurWinnipeg: Environment

AUTHORIZATION	Previous Budgets	2017 Estimate	FORECAST 2018	2019	2020	2021	2022	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	N/A *	500	1,000	1,000	750	1,500	1,500	5,750	6,250
Financed by:									
Retained Earnings			1,000	1,000	750	1,500	1,500	5,750	5,750
Transfer From Prior Year Authorization - Retained Earnings		500							500

CASH FLOW	2017	2018	2019	2020	2021	2022	Beyond 2022	Total
Project Costs ($000's)	500	1,000	1,000	750	1,500	1,500	-	6,250
Financed by:								
Retained Earnings		1,000	1,000	750	1,500	1,500		5,750
Transfer From Prior Year Authorization - Retained Earnings	500							500

NET OPERATING IMPACT ($000's)	2017	2018	2019
Operating costs		100	200
External debt and finance charges			
Transfer to General Capital Fund			
Total Direct Costs	-	100	200
Less: Incremental Revenue/Recovery			
Net Cost/(Benefit)	-	100	200
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. This is an ongoing program with additional funding being included in future years.

Funding in 2017 includes $500,000 rebudgeted from capital budget authorized in 2014 - see Appendix 4.

* 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: 20010008YY

Service: Water
OurWinnipeg: Environment

AUTHORIZATION	Previous Budgets	2017 Estimate	FORECAST 2018	2019	2020	2021	2022	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	-	-	110	-	-	-	-	110	110
Financed by:									
Retained Earnings			110					110	110

CASH FLOW	2017	2018	2019	2020	2021	2022	Beyond 2022	Total
Project Costs ($000's)	-	110	-	-	-	-	-	110
Financed by:								
Retained Earnings		110						110

NET OPERATING IMPACT ($000's)	2017	2018	2019
Operating costs			
External 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

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.

Funds included in 2018 are to develop a master plan for long-term options.

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: 20100012YY

Service: Water
OurWinnipeg: Environment

AUTHORIZATION	Previous Budgets	2017 Estimate	FORECAST 2018	2019	2020	2021	2022	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	N/A *	930	1,165	640	255	235	200	2,495	3,425
Financed by:									
Retained Earnings		930	1,165	640	255	235	200	2,495	3,425

CASH FLOW	2017	2018	2019	2020	2021	2022	Beyond 2022	Total
Project Costs ($000's)	930	1,165	640	255	235	200	-	3,425
Financed by:								
Retained Earnings	930	1,165	640	255	235	200		3,425

NET OPERATING IMPACT ($000's)	2017	2018	2019
Operating costs	78	78	78
External debt and finance charges			
Transfer to General Capital Fund			
Total Direct Costs	78	78	78
Less: Incremental Revenue/Recovery			
Net Cost/(Benefit)	78	78	78
Incremental Full Time Equivalent Positions	-	-	-

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

The City of Winnipeg Water and Waste Department (WWD) relies on two large utility-based, third party, commercially available off-the-shelf applications known as Oracle Customer Care and Billing system (CCB) and Oracle Work Asset Management (WAM). These were implemented in 2009 and 2001, respectively.

CCB is used to manage customer accounts and collections for Water, Wastewater and Solid Waste services. 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.

Information Systems & Technology Division needs to keep software assets current and operational by applying product updates to CCB and WAM as they become available. Major product versions are expected every 18 to 24 months, unless otherwise driven by the vendor's product roadmap. The necessary infrastructure software and hardware would be updated according to the application software and business specifications. The updates will address technical enhancements along with necessary functional enhancements. This approach will ensure that WWD are able to minimize disruptions to frontline service operations that support public health and protect against lost revenue due to inaccurate billing.

The funding for this project will be split between the Waterworks System Fund and the Sewage Disposal Fund.

The estimated life of this asset is 10 years.

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

Project Name: **Utility Asset Management System**

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

Department: Water and Waste
Project: 20100009YY

Service: Water
OurWinnipeg: Environment

AUTHORIZATION	Previous Budgets	2017 Estimate	FORECAST 2018	2019	2020	2021	2022	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	1,150	500	-	-	-	-	-	-	500
Financed by:									
Retained Earnings		500						-	500

CASH FLOW	2017	2018	2019	2020	2021	2022	Beyond 2022	Total
Project Costs ($000's)	500	-	-	-	-	-	-	500
Financed by:								
Retained Earnings	500							500

NET OPERATING IMPACT ($000's)	2017	2018	2019
Operating costs		50	100
External debt and finance charges			
Transfer to General Capital Fund			
Total Direct Costs	-	50	100
Less: Incremental Revenue/Recovery			
Net Cost/(Benefit)	-	50	100
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: 3

Department asset management programs such as the Sewer Management System (SMS) and the Aqueduct Information Management System (AIMS) are at the end of their useful life, becoming difficult to support and require replacement. Additional requirements have arisen such as a need for an Operations Management System (OMS) for managing water main assets, hydrant and valves and a Synergen/GIS interface. It is believed that all of these requirements can be addressed by a single Information Technology solution such as a commercial off-the shelf asset management program.

The work of this project will be to identify Department needs, procure an appropriate solution, modify to suit and implement across the Department.

The estimated life of this asset is 10 years.

Project Name: **Water Main Renewals**

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

Department: Water and Waste
Project: 201300xxyy

Service: Water
OurWinnipeg: Environment

AUTHORIZATION	Previous Budgets	2017 Estimate	FORECAST 2018	2019	2020	2021	2022	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	N/A *	18,500	18,500	19,000	20,000	21,000	21,500	100,000	118,500
Financed by:									
Water Main Renewal Reserve		18,500	18,500	19,000	20,000	21,000	21,500	100,000	118,500

CASH FLOW	2017	2018	2019	2020	2021	2022	Beyond 2022	Total
Project Costs ($000's)	18,500	18,500	19,000	20,000	21,000	21,500	-	118,500
Financed by:								
Water Main Renewal Reserve	18,500	18,500	19,000	20,000	21,000	21,500		118,500

NET OPERATING IMPACT ($000's)	2017	2018	2019
Operating costs			
External 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.

In 2017 through 2021, funding was decreased from forecast to reflect current market cost adjustments.

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: **Biosolids - Alternative Disposal Delivery and Management System**

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

Department: Water and Waste
Project: 203110004B

Service: Wastewater
OurWinnipeg: Environment

AUTHORIZATION	Previous Budgets	2017 Estimate	FORECAST 2018	2019	2020	2021	2022	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	16,904	-	22,050	-	-	-	-	22,050	22,050
Financed by:									
Retained Earnings			22,050					22,050	22,050

CASH FLOW	2017	2018	2019	2020	2021	2022	Beyond 2022	Total
Project Costs ($000's)	-	1,200	2,100	8,200	10,500	50	-	22,050
Financed by:								
Retained Earnings		1,200	2,100	8,200	10,500	50		22,050

NET OPERATING IMPACT ($000's)	2017	2018	2019
Operating costs			
External 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 of Winnipeg has reviewed its land application practices of biosolids relative to regulation requirements, emerging requirements associated with nutrient management regulations, changes to quantity and quality from upgraded sewage treatment plants, and risk and criticality assessments done at all three plants. The City will have to implement a new biosolids management program as a result of the Provincial Nutrient Management Regulation.

The current biosolids management program will need to be modified to satisfy the Regulation and will require significant capital investment and transition time to implement the required changes. A Biosolids Master Plan has identified potential options, costs, and timeframes to implement a new biosolids management program, which will comply with the Water Protection Act. Funds included are for engineering, design, and construction for the treatment, storage, and disposal of biosolids.

The Biosolids Master Plan was approved by the Province of Manitoba in 2016.

The expected life of the facilities is 50 years and the expected life of the mechanical components are 25 years.

Project Name: **North End Sewage Treatment Plant (NEWPCC) - Nutrient Removal / Upgrade**

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

Department: Water and Waste
Project: 203110013B
Service: Wastewater
OurWinnipeg: Environment

AUTHORIZATION	Previous Budgets	2017 Estimate	FORECAST 2018	2019	2020	2021	2022	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	794,610	980	-	-	-	-	-	-	980
Financed by:									
Retained Earnings		980						-	980

CASH FLOW	2017	2018	2019	2020	2021	2022	Beyond 2022	Total
Project Costs ($000's)	980	-	-	-	-	-	-	980
Financed by:								
Retained Earnings	980							980

NET OPERATING IMPACT ($000's)	2017	2018	2019
Operating costs			4,069
External debt and finance charges			
Transfer to General Capital Fund			
Total Direct Costs	-	-	4,069
Less: Incremental Revenue/Recovery			
Net Cost/(Benefit)	-	-	4,069
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: 5

An Environment Act Licence has been issued for the North End Sewage Treatment Plant (NEWPCC) requiring treatment for nitrogen (N) and phosphorus (P). The implementation of a nutrient removal process will require a major plant expansion and, given the age of the existing structure and the complexity of phasing the construction, several new facilities will be constructed as part of this project.

The North End Sewage Treatment Plant (NEWPCC) - Nutrient Removal/Upgrade project will be delivered through a design-build procurement model.

The communication tower on the NEWPCC site needs to be relocated as it is in the way of the upgrade.

The current funding requirements are based on the Facility Plan (class 5) report. Funding requirements will be revised as engineering progresses; class estimates will be updated to class 3 prior to construction.

The expected life of the structures is 50 years, the expected life of electrical and mechanical components are 25 years, and the expected life for computer related systems is 10 years.

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: 203310011B
Service: Wastewater
OurWinnipeg: Environment

AUTHORIZATION	Previous Budgets	2017 Estimate	FORECAST 2018	2019	2020	2021	2022	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	-	-	-	-	-	500	-	500	500
Financed by:									
Retained Earnings						500		500	500

CASH FLOW	2017	2018	2019	2020	2021	2022	Beyond 2022	Total
Project Costs ($000's)	-	-	-	-	100	150	250	500
Financed by:								
Retained Earnings					100	150	250	500

NET OPERATING IMPACT ($000's)	2017	2018	2019
Operating costs			
External 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: **Process Control System Master Plan and Upgrade**

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

Department: Water and Waste
Project: 20400006yy

Service: Wastewater
OurWinnipeg: Environment

AUTHORIZATION	Previous Budgets	2017 Estimate	FORECAST 2018	2019	2020	2021	2022	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	3,000	1,000	9,000	-	-	-	-	9,000	10,000
Financed by:									
Retained Earnings			9,000					9,000	9,000
Transfer From Prior Year Authorization - Retained Earnings		1,000							1,000

CASH FLOW	2017	2018	2019	2020	2021	2022	Beyond 2022	Total
Project Costs ($000's)	1,000	9,000	-	-	-	-	-	10,000
Financed by:								
Retained Earnings		9,000						9,000
Transfer From Prior Year Authorization - Retained Earnings	1,000							1,000

NET OPERATING IMPACT ($000's)	2017	2018	2019
Operating costs	10	20	30
External debt and finance charges			
Transfer to General Capital Fund			
Total Direct Costs	10	20	30
Less: Incremental Revenue/Recovery			
Net Cost/(Benefit)	10	20	30
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: 5

The name of this project changed from "WPCC - Distributed Control System (DCS) & Human Machine Interface (HMI) upgrades" to "Process Control System Master Plan and Upgrade" in 2015.

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.

The DCS system was installed in the early 1990s, with the oldest installation at the North End Sewage Treatment Plant (NEWPCC) facility. The DCS system is nearing end of life for all sewage treatment plants. The HMI system was installed between 1998 and 2003. The HMI system is nearing end its end of life.

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.

Process Control System Master Plan and Upgrade (continued):

Funding in 2017 includes rebudgeted amount from previously approved capital budget for this project - see Appendix 4. $5,000,000 was budgeted from 2011, 2012, 2013 and 2015 capital budget authorizations.

The class estimate will be refined to a class 3 prior to undertaking upgrades.

The expected life of the new PLC system is 20 years, and for 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: 20300005YY

Service: Wastewater
OurWinnipeg: Environment

AUTHORIZATION	Previous Budgets	2017 Estimate	FORECAST 2018	2019	2020	2021	2022	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	N/A *	2,000	4,000	6,000	6,000	2,000	2,000	20,000	22,000
Financed by:									
Retained Earnings			4,000	6,000	6,000	2,000	2,000	20,000	20,000
Transfer From Prior Year Authorization - Retained Earnings		2,000							2,000

CASH FLOW	2017	2018	2019	2020	2021	2022	Beyond 2022	Total
Project Costs ($000's)	2,000	4,000	6,000	6,000	2,000	2,000	-	22,000
Financed by:								
Retained Earnings		4,000	6,000	6,000	2,000	2,000		20,000
Transfer From Prior Year Authorization - Retained Earnings	2,000							2,000

NET OPERATING IMPACT ($000's)	2017	2018	2019
Operating costs			
External 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. 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.

The expected life of the structure upgrades is 50 years and the expected life of the electrical and mechanical components is 25 years.

The name of this project changed from ‘WPCC - Reliability Upgrades’ to ‘WPCC - Asset Refurbishment and and Replacement Program’ in 2014. Funding in 2017 includes rebudgeted amount from previously approved capital budget for this project - see Appendix 4. $10,000,000 was budgeted from 2012, 2013, and 2014 capital budget authorizations.

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

Project Name: **Wastewater Hauling System Replacement (formerly Wastewater Hauling and Grease Trap Licensing Automation)**

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

Department: Water and Waste
Project: 20400011YY
Service: Wastewater
OurWinnipeg: Environment

AUTHORIZATION	Previous Budgets	2017 Estimate	FORECAST 2018	2019	2020	2021	2022	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	500	1,000	-	-	-	-	-	-	1,000
Financed by:									
Retained Earnings		1,000						-	1,000

CASH FLOW	2017	2018	2019	2020	2021	2022	Beyond 2022	Total
Project Costs ($000's)	1,000	-	-	-	-	-	-	1,000
Financed by:								
Retained Earnings	1,000							1,000

NET OPERATING IMPACT ($000's)	2017	2018	2019
Operating costs		100	100
External debt and finance charges			
Transfer to General Capital Fund			
Total Direct Costs	-	100	100
Less: Incremental Revenue/Recovery			
Net Cost/(Benefit)	-	100	100
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: 3

There is a need to provide an integrated and unified automated solution to manage all programs offered by the Industrial Waste Services (IWS) Branch.

To aid the IWS Branch in complying with the rules, regulations and by-laws set forward by the City of Winnipeg and Manitoba Conservation, the purchase of a commercial-off-the-shelf (COTS) based solution that will provide the following is recommended:

- Provide an integrated and unified automated solution to manage all IWS programs.
- Provide a solution that will accurately enforce the Sewer by-law 92-2010.
- Provide a single source for all programs and generator information.
- Establish a framework to extend the existing Wastewater Hauling Management System functionalities to include management of other IWS Branch customers.
- Provide a solution that will accurately and efficiently provide the administration of licensing and inspection, customer management, reporting and billing enquiries.
- Eliminate paper waste hauler load tickets.
- Ensure waste hauler load ticket information is accurately and efficiently recorded through the use of a mobile application that enforces business rules and content validation.
- Accurately bill customers based on wastewater volume and strength.

Funding was adjusted based on 2016 analysis which identified a COTS solution used by similar private organizations and governments. The scope has increased and includes organizational change management.

The name of this project has changed from "Wastewater Hauling and Grease Trap Licensing Automation".

Project Name: **Arc Flash Hazard Analysis and Remediation**

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

Department: Water and Waste
Project: 20300018YY

Service: Wastewater
OurWinnipeg: Environment

AUTHORIZATION	Previous Budgets	2017 Estimate	FORECAST 2018	2019	2020	2021	2022	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	1,713	424	499	512	65	-	-	1,076	1,500
Financed by:									
Retained Earnings		424	499	512	65			1,076	1,500

CASH FLOW	2017	2018	2019	2020	2021	2022	Beyond 2022	Total
Project Costs ($000's)	424	499	512	65	-	-	-	1,500
Financed by:								
Retained Earnings	424	499	512	65				1,500

NET OPERATING IMPACT ($000's)	2017	2018	2019
Operating costs			
External 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.

Project Name: **Lift Stations Upgrading**

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

Department: Water and Waste
Project: 20350001YY

Service: Wastewater
OurWinnipeg: Environment

AUTHORIZATION	Previous Budgets	2017 Estimate	FORECAST 2018	2019	2020	2021	2022	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	N/A *	2,332	2,722	2,870	3,028	6,250	6,250	21,120	23,452
Financed by:									
Retained Earnings		2,332	2,722	2,870	3,028	6,250	6,250	21,120	23,452

CASH FLOW	2017	2018	2019	2020	2021	2022	Beyond 2022	Total
Project Costs ($000's)	2,332	2,722	2,870	3,028	6,250	6,250	-	23,452
Financed by:								
Retained Earnings	2,332	2,722	2,870	3,028	6,250	6,250		23,452

NET OPERATING IMPACT ($000's)	2017	2018	2019
Operating costs			
External 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 74 lift stations and associated force mains, gate chambers, and related works in the sewage collection system.

The program will include a condition assessment of all lift stations to establish future funding requirements.

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 50 years.

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

Project Name: **Plessis Road Interceptor**

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

Department: Water and Waste
Project: 20370013YY

Service: Wastewater
OurWinnipeg: Environment

AUTHORIZATION	Previous Budgets	2017 Estimate	FORECAST 2018	2019	2020	2021	2022	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	-	7,300	-	-	-	-	-	-	7,300
Financed by:									
Retained Earnings		7,300						-	7,300

CASH FLOW	2017	2018	2019	2020	2021	2022	Beyond 2022	Total
Project Costs ($000's)	7,300	-	-	-	-	-	-	7,300
Financed by:								
Retained Earnings	7,300							7,300

NET OPERATING IMPACT ($000's)	2017	2018	2019
Operating costs			
External 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 includes construction of an interceptor sewer to service lands in future developments in the North Transcona sector of the City of Winnipeg, which is designated as Precinct "I" in OurWinnipeg.

The expected life of this asset is 75 years.

Project Name: **Kenaston Boulevard Interceptor**

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

Department: Water and Waste
Project: 20370014YY

Service: Wastewater
OurWinnipeg: Environment

AUTHORIZATION	Previous Budgets	2017 Estimate	FORECAST 2018	2019	2020	2021	2022	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	-	-	-	-	-	-	6,800	6,800	6,800
Financed by:									
Retained Earnings							6,800	6,800	6,800

CASH FLOW	2017	2018	2019	2020	2021	2022	Beyond 2022	Total
Project Costs ($000's)	-	-	-	-	-	6,800	-	6,800
Financed by:								
Retained Earnings						6,800		6,800

NET OPERATING IMPACT ($000's)	2017	2018	2019
Operating costs			
External 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 includes construction of an interceptor sewer to service lands in future developments in the southwest sector of the City of Winnipeg, as part of a planned Fort Whyte residential area southeast of Wilkes Avenue and McCreary Road.

The expected life of this asset is 75 years.

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: 20380001YY

Service: Wastewater
OurWinnipeg: Environment

AUTHORIZATION	Previous Budgets	2017 Estimate	FORECAST 2018	2019	2020	2021	2022	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	N/A *	21,400	29,902	31,200	34,114	25,588	25,910	146,714	168,114
Financed by:									
Environmental Projects Reserve		8,180	29,902	31,200	34,114	25,588	25,910	146,714	154,894
Transfer From Prior Year Authorization - Environmental Projects Reserve		13,220						-	13,220

CASH FLOW	2017	2018	2019	2020	2021	2022	Beyond 2022	Total
Project Costs ($000's)	15,900	29,302	27,300	32,930	31,772	30,910	-	168,114
Financed by:								
Environmental Projects Reserve	8,400	23,582	27,300	32,930	31,772	30,910		154,894
Transfer From Prior Year Authorization - Environmental Projects Reserve	7,500	5,720						13,220

NET OPERATING IMPACT ($000's)	2017	2018	2019
Operating costs		(2)	(4)
External debt and finance charges			
Transfer to General Capital Fund			
Total Direct Costs	-	(2)	(4)
Less: Incremental Revenue/Recovery			
Net Cost/(Benefit)	-	(2)	(4)
Incremental Full Time Equivalent Positions	-	-	-

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

In 2016 the Combined Sewer Flood Relief program from the General Capital Fund - Land Drainage and Flood Control was amalgamated with the Combined Sewer Overflow (CSO) Management Strategy & Miscellaneous Mitigation project. The amalgamated capital program is called the Combined Sewer Overflow and Basement Flood Management Strategy and will be driven by the Combined Sewer Overflow Master Plan which is being developed to meet the requirements of Environment Act Licence No. 3042. The Combined Sewer Overflow Master Plan will be completed by December 31, 2017.

It is the intent to create a multi-year combined sewer overflow and basement flood mitigation program that integrates with other major sewer programs, including work on sewer condition assessment and renewals, sewage lift station upgrades, and the sewage treatment plant upgrading programs.

The program objectives are:

- to comply with the regulators to mitigate the impact of CSO's on the local water courses and protect the public interest,
- to reduce the amount of wet weather flow going to the sewage treatment plants,
- to reduce the number of basement flooding.

Combined Sewer Overflow and Basement Flood Management Strategy (continued):

Funds budgeted are for the development of a CSO Master Implementation Plan, technical and economic analyses, program development, staging of mitigation works, annual monitoring programs, pilot studies, land acquisition, integration with other major sewer programs, overflow monitoring and reporting, and initiation and implementation of control measures, including SCADA (Supervisory Control and Data Acquisition). These funds will also be used for the planning, design and construction of sewer relief works for basement flooding and CSO mitigation. Funds will be used for sewer flow and meteorological monitoring in advance of design as well as public communication and education on basement flood protection and combined sewer overflows.

Funding in 2017 includes $13,220,000 rebudgeted capital budget authorized in 2014 and 2015 - see Appendix 4.

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: 20300030YY

Service: Wastewater
OurWinnipeg: Environment

AUTHORIZATION	Previous Budgets	2017 Estimate	FORECAST 2018	2019	2020	2021	2022	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	2,750	1,100	1,100	1,200	1,300	-	-	3,600	4,700
Financed by:									
Retained Earnings		1,100	1,100	1,200	1,300			3,600	4,700

CASH FLOW	2017	2018	2019	2020	2021	2022	Beyond 2022	Total
Project Costs ($000's)	1,100	1,100	1,200	1,300	-	-	-	4,700
Financed by:								
Retained Earnings	1,100	1,100	1,200	1,300				4,700

NET OPERATING IMPACT ($000's)	2017	2018	2019
Operating costs			
External 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 (H_2S) 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 H_2S 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: 20370016YY

Service: Wastewater
OurWinnipeg: Environment

AUTHORIZATION	Previous Budgets	2017 Estimate	FORECAST 2018	2019	2020	2021	2022	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	-	-	-	-	-	-	250	250	250
Financed by:									
Retained Earnings							250	250	250

CASH FLOW	2017	2018	2019	2020	2021	2022	Beyond 2022	Total
Project Costs ($000's)	-	-	-	-	-	150	100	250
Financed by:								
Retained Earnings						150	100	250

NET OPERATING IMPACT ($000's)	2017	2018	2019
Operating costs			
External 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, 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. In 2022, 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: 203000034B

Service: Wastewater
OurWinnipeg: Environment

AUTHORIZATION	Previous Budgets	2017 Estimate	FORECAST 2018	2019	2020	2021	2022	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	-	-	-	-	250	-	-	250	250
Financed by:									
Retained Earnings					250			250	250

CASH FLOW	2017	2018	2019	2020	2021	2022	Beyond 2022	Total
Project Costs ($000's)	-	-	-	125	125	-	-	250
Financed by:								
Retained Earnings				125	125			250

NET OPERATING IMPACT ($000's)	2017	2018	2019
Operating costs			
External 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: **River Crossings Monitoring and Rehabilitation**

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

Department: Water and Waste
Project: 20375000yy

Service: Wastewater
OurWinnipeg: Environment

AUTHORIZATION	Previous Budgets	2017 Estimate	FORECAST 2018	2019	2020	2021	2022	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	N/A*	360	-	-	-	-	-	-	360
Financed by:									
Retained Earnings					800	800	585	2,185	2,185
Transfer From Prior Year Authorization - Retained Earnings		360						-	360

CASH FLOW	2017	2018	2019	2020	2021	2022	Beyond 2022	Total
Project Costs ($000's)	360	-	-	-	-	-	-	360
Financed by:								
Retained Earnings				800	800	585		2,185
Transfer From Prior Year Authorization - Retained Earnings	360							360

NET OPERATING IMPACT ($000's)	2017	2018	2019
Operating costs			
External 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 2017 only

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 Environmental 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 License.

Funding in 2017 includes rebudgeted amount from previously approved capital budget for this project - see Appendix 4. $2,545,000 was budgeted from 2010, 2011 and 2012 capital budget authorizations.

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

Project Name: **Environmental Standards Laboratory Facility Plan**

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

Department: Water and Waste
Project: 20340010YY

Service: Wastewater
OurWinnipeg: Environment

AUTHORIZATION	Previous Budgets	2017 Estimate	FORECAST 2018	2019	2020	2021	2022	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	-	-	-	-	-	-	500	500	500
Financed by:									
Retained Earnings							500	500	500

CASH FLOW	2017	2018	2019	2020	2021	2022	Beyond 2022	Total
Project Costs ($000's)	-	-	-	-	-	100	400	500
Financed by:								
Retained Earnings						100	400	500

NET OPERATING IMPACT ($000's)	2017	2018	2019
Operating costs			
External 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: **Water and Waste Department (WWD) Business Intelligence**

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

Department: Water and Waste
Project: 20400013YY
Service: Wastewater
OurWinnipeg: Environment

AUTHORIZATION	Previous Budgets	2017 Estimate	FORECAST 2018	2019	2020	2021	2022	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	150	210	1,560	600	480	-	-	2,640	2,850
Financed by:									
Retained Earnings		210	1,560	600	480			2,640	2,850

CASH FLOW	2017	2018	2019	2020	2021	2022	Beyond 2022	Total
Project Costs ($000's)	210	1,560	600	480	-	-	-	2,850
Financed by:								
Retained Earnings	210	1,560	600	480				2,850

NET OPERATING IMPACT ($000's)	2017	2018	2019
Operating costs			175
External debt and finance charges			
Transfer to General Capital Fund			
Total Direct Costs	-	-	175
Less: Incremental Revenue/Recovery			
Net Cost/(Benefit)	-	-	175
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: 3

Since 2011, the Water and Waste Department (WWD) relied on a third-party, commercially available off-the-shelf application known as Oracle Utilities Business Intelligence (OUBI) for critical customer financial information. During the initial implementation of OUBI, it was announced that the application would be discontinued with vendor support ending. Implementation of OUBI was halted, pending the selection of a new, viable platform.

The Information Technology Strategic Plan re-affirmed the requirement for a business intelligence solution as there is a need for Information Systems & Technology to keep software assets current and operational. A new system will ensure we are able to minimize service disruptions to frontline service operations that support public health and protect against lost revenue due to inaccurate billing.

An enterprise-based software system, complete with lifecycle management planning, is required in order to address the growth in capacity, enhance system recovery, manage the complexity of enhanced functionality and increase operational integrity. This will be a management analysis and reporting tool for the Department.

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: 20400012YY

Service: Wastewater
OurWinnipeg: Environment

AUTHORIZATION	Previous Budgets	2017 Estimate	FORECAST 2018	2019	2020	2021	2022	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	N/A *	930	1,165	640	255	235	200	2,495	3,425
Financed by:									
Retained Earnings		930	1,165	640	255	235	200	2,495	3,425

CASH FLOW	2017	2018	2019	2020	2021	2022	Beyond 2022	Total
Project Costs ($000's)	930	1,165	640	255	235	200	-	3,425
Financed by:								
Retained Earnings	930	1,165	640	255	235	200		3,425

NET OPERATING IMPACT ($000's)	2017	2018	2019
Operating costs	78	78	78
External debt and finance charges			
Transfer to General Capital Fund			
Total Direct Costs	78	78	78
Less: Incremental Revenue/Recovery			
Net Cost/(Benefit)	78	78	78
Incremental Full Time Equivalent Positions	-	-	-

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

The City of Winnipeg Water and Waste Department (WWD) relies on two large utility-based, third party, commercially available off-the-shelf applications known as Oracle Customer Care and Billing system (CCB) and Oracle Work Asset Management (WAM). These were implemented in 2009 and 2001, respectively.

CCB is used to manage customer accounts and collections for Water, Wastewater and Solid Waste services. 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.

Information Systems & Technology Division needs to keep software assets current and operational by applying product updates to CCB and WAM as they become available. Major product versions are expected every 18 to 24 months, unless otherwise driven by the vendor's product roadmap. The necessary infrastructure software and hardware would be updated according to the application software and business specifications. The updates will address technical enhancements along with necessary functional enhancements. This approach will ensure that WWD are able to minimize disruptions to frontline service operations that support public health and protect against lost revenue due to inaccurate billing.

The funding for this project will be split between the Waterworks System Fund and the Sewage Disposal Fund.

The estimated life of this asset is 10 years.

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

Project Name: **Sewer Renewals**

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

Department: Water and Waste
Project: 203900XXYY

Service: Wastewater
OurWinnipeg: Environment

AUTHORIZATION	Previous Budgets	2017 Estimate	FORECAST 2018	2019	2020	2021	2022	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	N/A *	18,800	18,200	19,500	20,500	21,500	22,500	102,200	121,000
Financed by:									
Sewer System Rehabilitation Reserve		18,800	18,200	19,500	20,500	21,500	22,500	102,200	121,000

CASH FLOW	2017	2018	2019	2020	2021	2022	Beyond 2022	Total
Project Costs ($000's)	18,800	18,200	19,500	20,500	21,500	22,500	-	121,000
Financed by:								
Sewer System Rehabilitation Reserve	18,800	18,200	19,500	20,500	21,500	22,500		121,000

NET OPERATING IMPACT ($000's)	2017	2018	2019
Operating costs		100	100
External debt and finance charges			
Transfer to General Capital Fund			
Total Direct Costs	-	100	100
Less: Incremental Revenue/Recovery			
Net Cost/(Benefit)	-	100	100
Incremental Full Time Equivalent Positions	-	-	-

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

This is a program to replace and/or rehabilitate sewer infrastructure. Funds will be utilized to rehabilitate and replace combined, separate wastewater and land drainage sewers. A portion of the funding will be used for condition assessment and for the development of wastewater and land drainage design standards. Sewers will be replaced or rehabilitated using appropriate technologies based on condition assessment data. Additional funding has been added to the program due to the increased number of sewer mains requiring replacement/rehabilitation. The expected remaining life of each rehabilitated sewer ranges from 20 to 100 years, depending on the rehabilitation technology and the asset condition.

Funds will be utilized to update the sewer asset register which is currently at the end of life; ongoing operating costs associated with software licensing and maintenance have been included. The expected life of the asset register is 10 years.

Funds 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.

* 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 - Administration Building**

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

Department: Water and Waste
Project: 2062003yy
Service: Solid Waste Collection and Disposal
OurWinnipeg: Environment

AUTHORIZATION	Previous Budgets	2017 Estimate	FORECAST 2018	2019	2020	2021	2022	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	1,014	2,700	-	-	-	-	-	-	2,700
Financed by:									
Retained Earnings		50							50
External Debt		2,450							2,450
Transfer From Prior Year Authorization - Retained Earnings		200							200

CASH FLOW	2017	2018	2019	2020	2021	2022	Beyond 2022	Total
Project Costs ($000's)	2,700	-	-	-	-	-	-	2,700
Financed by:								
Retained Earnings	50							50
External Debt	2,450							2,450
Transfer From Prior Year Authorization - Retained Earnings	200							200

NET OPERATING IMPACT ($000's)	2017	2018	2019
Operating costs			
External debt and finance charges	97	154	154
Transfer to General Capital Fund			
Total Direct Costs	97	154	154
Less: Incremental Revenue/Recovery			
Net Cost/(Benefit)	97	154	154
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: 5

The current administration structure at the Brady Road Resource Management Facility (BRRMF) is no longer adequate to support the staff and operations at the site. The structure is a temporary office trailer that has been in use with the Water & Waste Department since 1973. The deteriorating condition of the temporary trailer and increase in staffing due to expanded programs requires the construction of a new administration building.

The funds identified provide for the design and construction of a new administration building, including associated engineering.

Preliminary scoping and costing is underway to define building requirements. This may result in a change of budget requirement for construction of the administration building. Project will be updated to a class 3 estimate prior to construction.

Funding in 2017 includes $200,000 rebudgeted from capital budget authorized in 2013 - see Appendix 4.

The expected life of this asset is 50 years.

Project Name: **Brady Road Resource Management Facility - Cell Construction - Phase 1**

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

Department: Water and Waste
Project: 20620004yy
Service: Solid Waste Collection and Disposal
OurWinnipeg: Environment

AUTHORIZATION	Previous Budgets	2017 Estimate	FORECAST 2018	2019	2020	2021	2022	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	5,940	699	-	1,907	-	2,004	-	3,911	4,610
Financed by:									
Retained Earnings		699		1,907		2,004		3,911	4,610

CASH FLOW	2017	2018	2019	2020	2021	2022	Beyond 2022	Total
Project Costs ($000's)	699	-	1,907	-	2,004	-	-	4,610
Financed by:								
Retained Earnings	699		1,907		2,004			4,610

NET OPERATING IMPACT ($000's)	2017	2018	2019
Operating costs			
External 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 remaining capacity at the Brady Road Resource Management Facility is approximately 100-150 years. The funding identified provides for annual cell construction related works to accommodate lateral expansion of the landfill adjacent to the existing cells. This involves constructing a natural clay or artificial liner and a leachate (landfill liquids) collection system at the base of the prior excavation. The excavation will be performed as part of routine operations to obtain cover material during progressive closure. Cells are filled with refuse, which progresses within the cell in layers, until the design height above ground has been achieved by which time the next cell has been prepared.

The cost identified includes the earthwork construction of the liner and installation of the leachate collection system, including associated engineering. This work is a requirement of the Province of Manitoba Environment Act Licence No. 3081 R.

Phase 1 will provide sufficient capacity until the end of 2023. Phase 2 is the next disposal area which must be designed in 2022 in order for construction to begin in 2023.

The expected life of this asset is 50 years.

Project Name: **Brady Road Resource Management Facility - Cell Construction - Phase 2**

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

Department: Water and Waste
Project: 20620004yy

Service: Solid Waste Collection and Disposal
OurWinnipeg: Environment

AUTHORIZATION	Previous Budgets	2017 Estimate	FORECAST 2018	2019	2020	2021	2022	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	-	-	-	-	-	-	690	690	690
Financed by:									
Retained Earnings							690	690	690

CASH FLOW	2017	2018	2019	2020	2021	2022	Beyond 2022	Total
Project Costs ($000's)	-	-	-	-	-	690	-	690
Financed by:								
Retained Earnings						690		690

NET OPERATING IMPACT ($000's)	2017	2018	2019
Operating costs			
External 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 remaining capacity at the Brady Road Resource Management Facility is approximately 100-150 years. The funding identified provides for annual cell construction related works to accommodate lateral expansion of the landfill adjacent to the existing cells. This involves constructing a natural clay or artificial liner and a leachate (landfill liquids) collection system at the base of the prior excavation. The excavation will be performed as part of routine operations to obtain cover material during progressive closure. Cells are filled with refuse, which progresses within the cell in layers, until the design height above ground has been achieved by which time the next cell has been prepared.

The cost identified includes the earthwork construction of the liner and installation of the leachate collection system, including associated engineering. This work is a requirement of the Province of Manitoba Environment Act Licence No. 3081 R.

Phase 1 will provide sufficient capacity until the end of 2023. Phase 2 is the next disposal area which must be designed in 2022 in order for construction to begin in 2023.

The expected life of this asset is 50 years.

Project Name: **Brady Road Resource Management Facility - Drainage, Roadways and Site Improvements**

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

Department: Water and Waste
Project: 20620006yy
Service: Solid Waste Collection and Disposal
OurWinnipeg: Environment

AUTHORIZATION	Previous Budgets	2017 Estimate	FORECAST 2018	2019	2020	2021	2022	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	6,510	200	4,200	-	-	-	-	4,200	4,400
Financed by:									
Retained Earnings		200	3,800					3,800	4,000
External Debt			400					400	400

CASH FLOW	2017	2018	2019	2020	2021	2022	Beyond 2022	Total
Project Costs ($000's)	200	4,200	-	-	-	-	-	4,400
Financed by:								
Retained Earnings	200	3,800						4,000
External Debt		400						400

NET OPERATING IMPACT ($000's)	2017	2018	2019
Operating costs			(90)
External debt and finance charges	-	17	27
Transfer to General Capital Fund			
Total Direct Costs	-	17	(63)
Less: Incremental Revenue/Recovery			
Net Cost/(Benefit)	-	17	(63)
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 significant drainage, roadway and other site improvements such as landscaping. In keeping with best practices for landfill operations, runoff from landfilled areas will be directed to storage and tested for acceptability for release. Drainage from non-landfilled areas will be by direct connection to external drainage.

The main internal roadway is Charrette Road which has been in operation since the inception of this landfill in 1973. This roadway requires significant upgrading to withstand continued use. There is also a need to construct new internal roadways for redirection of trucks transporting clean fill and other bulk usable materials to stockpile areas and for future landfill access and alternative emergency access. Also included are security and communications upgrades to mitigate risk and enhance facilitate response in case of emergency.

The expected life of this asset is 50 years.

Project Name: **Brady Road Resource Management Facility - Landfill Gas Capture Expansion - Phase 2**

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

Department: Water and Waste
Project: 20620002yy
Service: Solid Waste Collection and Disposal
OurWinnipeg: Environment

AUTHORIZATION	Previous Budgets	2017 Estimate	FORECAST 2018	2019	2020	2021	2022	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	2,166	-	1,800	-	-	-	-	1,800	1,800
Financed by:									
Brady Landfill Site Rehabilitation Reserve			1,800					1,800	1,800

CASH FLOW	2017	2018	2019	2020	2021	2022	Beyond 2022	Total
Project Costs ($000's)	-	1,800	-	-	-	-	-	1,800
Financed by:								
Brady Landfill Site Rehabilitation Reserve		1,800						1,800

NET OPERATING IMPACT ($000's)	2017	2018	2019
Operating costs			
External 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 current landfill gas collection system is constructed in the inactive (completed) portion of the landfill. There is no current collection of landfill gases in the active portion of the landfill. The active disposal cell is expected to have a partial gas collection system installed in 2016 with the final phase completed in 2018. If the gas is not collected in this cell of the landfill, objectionable odours will be experienced by the nearby neighbourhoods from the active filling area.

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. 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 (GHG) reduction and odour control.

The City intends to explore funding alternatives with external agencies on GHG credit allowance or capital funding.

Project Name: **Closed Landfill Site Improvement**

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

Department: Water and Waste
Project: 20600006yy

Service: Solid Waste Collection and Disposal
OurWinnipeg: Environment

AUTHORIZATION	Previous Budgets	2017 Estimate	FORECAST 2018	2019	2020	2021	2022	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	N/A*	182	193	280	-	-	-	473	655
Financed by:									
Brady Landfill Site Rehabilitation Reserve		96	193	280				473	569
Transfer From Prior Year Authorization - Retained Earnings		86							86

CASH FLOW	2017	2018	2019	2020	2021	2022	Beyond 2022	Total
Project Costs ($000's)	182	193	280	-	-	-	-	655
Financed by:								
Brady Landfill Site Rehabilitation Reserve	96	193	280					569
Transfer From Prior Year Authorization - Retained Earnings	86							86

NET OPERATING IMPACT ($000's)	2017	2018	2019
Operating costs	57	58	59
External debt and finance charges			
Transfer to General Capital Fund			
Total Direct Costs	57	58	59
Less: Incremental Revenue/Recovery			
Net Cost/(Benefit)	57	58	59
Incremental Full Time Equivalent Positions	1.00	1.00	1.00

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

The Closed Landfill Maintenance 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.

Funding in 2017 includes $86,000 rebudgeted 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: **Miscellaneous Land Acquisition**

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

Department: Water and Waste
Project: 20610001yy

Service: Solid Waste Collection and Disposal
OurWinnipeg: Environment

AUTHORIZATION	Previous Budgets	2017 Estimate	FORECAST 2018	2019	2020	2021	2022	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	-	800	-	-	-	-	-	-	800
Financed by:									
Transfer From Prior Year Authorization - Retained Earnings		800							800

CASH FLOW	2017	2018	2019	2020	2021	2022	Beyond 2022	Total
Project Costs ($000's)	800	-	-	-	-	-	-	800
Financed by:								
Transfer From Prior Year Authorization - Retained Earnings	800							800

NET OPERATING IMPACT ($000's)	2017	2018	2019
Operating costs			
External 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

With the 33 closed landfills and one active landfill in the City, there are occasions when there is a benefit to acquiring lands in proximity of these sites to provide additional buffer zones to minimize impacts on adjacent private lands. There are also occasions when acquiring land would be beneficial for monitoring, long term control, use, drainage works or rehabilitation of landfill sites.

Additionally, acquiring land can improve site geometry and protect long term waste management ability.

Funds identified provision for the cost of acquiring land and associated administration costs.

Funding in 2017 includes $500,000 rebudgeted from capital budget authorized in 2012 and $300,000 from 2013 - see Appendix 4.

Project Name: **Comprehensive Integrated Waste Management Strategy (CIWMS) - 4R Winnipeg Depots (Community Resource Recovery Centres)**

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

Department: Water and Waste
Project: 20650011yy
Service: Recycling and Waste Diversion
OurWinnipeg: Environment

AUTHORIZATION	Previous Budgets	2017 Estimate	FORECAST 2018	2019	2020	2021	2022	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	12,120	3,303	-	-	3,949	-	-	3,949	7,252
Financed by:									
External Debt		3,303			3,949			3,949	7,252

CASH FLOW	2017	2018	2019	2020	2021	2022	Beyond 2022	Total
Project Costs ($000's)	3,303	-	-	3,949	-	-	-	7,252
Financed by:								
External Debt	3,303			3,949				7,252

NET OPERATING IMPACT ($000's)	2017	2018	2019
Operating costs	2,073	3,163	3,207
External debt and finance charges	129	208	208
Transfer to General Capital Fund			
Total Direct Costs	2,202	3,371	3,415
Less: Incremental Revenue/Recovery			
Net Cost/(Benefit)	2,202	3,371	3,415
Incremental Full Time Equivalent Positions	13.18	-	-

Class Estimate: 3 - applies to 2017 only

On October 19, 2011, Council approved the Comprehensive Integrated Waste Management Strategy (CIWMS). This project is part of that plan and consists of up to four facilities, one at the Brady Road Resource Management facility (South), one on Pacific Avenue (North), one on Panet Road (East) and one in west Winnipeg, should it be required.

These facilities will provide a drop-off location for small loads of recyclable and divertible materials delivered by residents for processing and/or transfer to markets and/or further processing facilities. The collection of select product steward materials will also be included. These facilities will include opportunities for non-profit recyclers and product stewards to partner with the City for material diversion. These facilities will also include the capability to transfer residue from the operations for burial at the Brady Road Resource Management Facility. Each facility will consist of an all-weather traffic surface, the ability to monitor, drop-off and charge for loads and the ability to haul away materials.

These facilities, formally known as Community Resource Recovery Centres, have now been branded as 4R Winnipeg Depots.

Funds identified provision for preliminary/detailed design, engineering and construction. It is expected that some funding towards this project will be received from 3rd parties.

The life expectancy of this asset is 25 years.

Project Name: **CIWMS - Garbage and Recycling Cart Asset Management**

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

Department: Water and Waste
Project: 20640002YY
Service: Recycling and Waste Diversion
OurWinnipeg: Environment

AUTHORIZATION	Previous Budgets	2017 Estimate	FORECAST 2018	2019	2020	2021	2022	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	337	250	-	-	-	-	-	-	250
Financed by:									
Waste Diversion Reserve		150							150
Transfer From Prior Year Authorization - Waste Diversion Reserve		100							100

CASH FLOW	2017	2018	2019	2020	2021	2022	Beyond 2022	Total
Project Costs ($000's)	250	-	-	-	-	-	-	250
Financed by:								
Waste Diversion Reserve	150							150
Transfer From Prior Year Authorization - Waste Diversion Reserve	100							100

NET OPERATING IMPACT ($000's)	2017	2018	2019
Operating costs			
External 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

A cart asset management system is required to develop and maintain consistent and effective management of all functions related to garbage and recycling carts such as managing inventory, service requests, reporting and other data related functions.

Funding in 2017 includes $100,000 rebudgeted from capital budget authorized in 2013 - see Appendix 4.

Data analysis currently being undertaken will update project to a class 3 estimate prior to implementation.

Project Name: **Golf Course Amenities**

Standing Policy Committee: Protection, Community Services and Parks

Department: Planning, Property and Development

Service: Golf Services SOA

Project: 639XXXXX19

OurWinnipeg: Recreation

AUTHORIZATION	Previous Budgets	2017 Estimate	FORECAST 2018	2019	2020	2021	2022	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	2017	2018	2019	2020	2021	2022	Beyond 2022	Total
Project Costs ($000's)	-	-	1,000	-	-	-	-	1,000
Financed by:								
Cash to Capital			1,000					1,000

NET OPERATING IMPACT ($000's)	2017	2018	2019
Operating costs			
External debt and finance charges			
Transfer to General Capital Fund			1,000
Total Direct Costs	-	-	1,000
Less: Incremental Revenue/Recovery	-	-	33
Net Cost/(Benefit)	-	-	968
Incremental Full Time Equivalent Positions	-	-	-

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

The lease on the Canoe Club Golf Course expires in April 2019. The funds will enable a public consultation about future options for the property, and could be used to fund amenities such as tennis courts or soccer facilities on the property. Should the lease for the current 9-hole course be renewed, funds may be returned to the other area parks projects.

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CAPITAL PROJECTS SUMMARY *SERVICE BASED VIEW* *(in Thousands of $)*	PRELIMINARY CAPITAL BUDGET 2017	FORECAST 2018	2019	2020	2021	2022	6 YEAR TOTAL
INFRASTRUCTURE RENEWAL AND PUBLIC WORKS							
Roadway Construction and Maintenance	137,733	150,664	135,758	150,757	143,013	153,968	871,893
Transportation Planning and Traffic Management	2,280	3,730	3,730	3,730	3,730	3,730	20,930
Public Transit	81,536	34,913	45,496	40,359	41,972	43,666	287,942
City Beautification	5,677	800	800	800	800	800	9,677
Total Infrastructure Renewal and Public Works	227,226	190,107	185,784	195,646	189,515	202,164	1,190,442
WATER AND WASTE, RIVERBANK MANAGEMENT AND THE ENVIRONMENT							
Water	49,383	41,182	21,411	28,056	28,235	23,975	192,242
Wastewater	57,836	90,198	62,522	66,792	56,873	64,995	399,216
Land Drainage and Flood Control	11,349	9,306	9,001	7,823	4,824	6,220	48,523
Solid Waste Disposal	4,581	6,193	2,187		2,004	690	15,655
Recycling and Waste Diversion	3,553			3,949			7,502
Total Water and Waste, Riverbank Management and the Environment	126,702	146,879	95,121	106,620	91,936	95,880	663,138
PROPERTY AND DEVELOPMENT, HERITAGE AND DOWNTOWN DEVELOPMENT							
Neighbourhood Revitalization	2,123	4,277	4,492	6,557	3,863	2,300	23,612
Heritage Conservation	295	270	214	217	220	424	1,640
Cemeteries	408	400	390	398	406	400	2,402
Property Asset Management - Tax Supported	1,800	384	361	393	381	388	3,707
Property Asset Management - Municipal Accommodations	4,272	4,078	3,919	3,909	3,840	4,014	24,032
Total Property and Development, Heritage and Downtown Development	8,898	9,409	9,376	11,474	8,710	7,526	55,393
PROTECTION, COMMUNITY SERVICES AND PARKS / WINNIPEG POLICE BOARD							
Police Response	23,585	6,436	4,767	1,308	8,810	2,358	47,264
Fire and Rescue Response	5,211	15,505	11,661	5,139	8,606	7,430	53,552
Medical Response				119			119
Recreation	15,800	11,914	15,897	11,121	13,305	6,201	74,238
Parks and Urban Forestry	9,291	7,644	6,015	7,107	9,383	9,264	48,704
Golf Services (SOA)			1,000				1,000
Libraries	3,244	2,156	3,713	10,374	4,968	14,871	39,326
Arts, Entertainment and Culture	6,373	5,623	5,623	2,500	2,500	2,500	25,119
Insect Control							
Total Protection, Community Services and Parks / Winnipeg Police Board	63,504	49,278	48,676	37,668	47,572	42,624	289,322
EXECUTIVE POLICY							
Organizational Support Services	4,509	3,488	1,651	2,951	2,935	5,614	21,148
Assessment, Taxation and Corporate	870	320	350	200	350	350	2,440
Council Services	1,200	1,450	1,000	1,000	1,200	2,200	8,050
Total Executive Policy	6,579	5,258	3,001	4,151	4,485	8,164	31,638
TOTAL CAPITAL PROGRAM	432,909	400,931	341,958	355,559	342,218	356,358	2,229,933

CAPITAL PROJECTS SUMMARY *SERVICE BASED VIEW* *(in Thousands of $)*	DETAIL PAGE NO.	PRELIMINARY CAPITAL BUDGET 2017	FORECAST 2018	2019	2020	2021	2022	6 YEAR TOTAL
CAPITAL PROJECTS LISTING								
INFRASTRUCTURE RENEWAL AND PUBLIC WORKS								
Roadway Construction and Maintenance								
Public Works								
Pedestrian and Cycling Program	2-1	**4,700**	**5,400**	**5,400**	**5,400**	**5,400**	**5,400**	**31,700**
Pedestrian and Cycling Grade Separations	2-6	**1,000**						**1,000**
Developer Payback - Various Locations	2-7	**5,000**	**8,737**		**16,113**			**29,850**
Tuxedo Yards Development	2-9	**2,049**	**2,045**	**2,034**	**2,024**	**830**		**8,982**
Kenaston Boulevard - Ness Avenue to Taylor Avenue	2-14	**100**	**100**	**100**	**100**	**100**	**100**	**600**
Henderson Highway North of Gilmore to City Limit	2-15		**700**					**700**
Inner-Ring Road - Functional Design	2-16		**2,000**	**2,000**	**2,000**			**6,000**
Kenaston Boulevard Southbound - From McGillivray To Bishop Grandin	2-17	**2,200**						**2,200**
Lagimodiere and Sage Creek - Southbound Double Left Turn	2-18	**500**						**500**
Regional and Local Street Renewal - First charge against 2017 Capital Budget of up to $8 million (Council July 13, 2016)	2-19	**105,180**	**106,282**	**107,361**	**108,420**	**127,583**	**130,368**	**685,194**
Fermor Avenue Bridge (Seine River)	2-25	**1,200**	**10,100**	**6,700**				**18,000**
Saskatchewan Avenue Culvert (Sturgeon Creek)	2-26	**1,000**	**8,000**					**9,000**
Lyndale Drive - Retaining Wall Rehabilitation	2-27	**5,000**						**5,000**
Osborne Street Underpass	2-28			**2,500**				**2,500**
Dublin Avenue Bridge (Omand's Creek)	2-29		**700**	**700**	**6,800**			**8,200**
Sherwin Road Bridge (Omand's Creek)	2-30			**700**	**2,800**			**3,500**
Pembina Highway Overpass (Bishop Grandin) Rehabilitation	2-31				**1,000**	**2,000**	**9,000**	**12,000**
St. James Bridge South Bound	2-32	**3,245**		**2,163**				**5,408**
St. Vital Bridge Rehabilitation	2-33					**1,000**	**3,000**	**4,000**
Waterway Crossing and Grade Separations - Annual Program	2-34	**3,000**	**3,000**	**3,000**	**3,000**	**3,000**	**3,000**	**18,000**
Work Management / Asset Management Systems Study	2-40	**459**	**500**					**959**
Asset Management System - Various Divisions	2-41	**100**	**100**	**100**	**100**	**100**	**100**	**600**
Assessment and Taxation								
Local Improvements - Ongoing Program	2-180	**3,000**	**3,000**	**3,000**	**3,000**	**3,000**	**3,000**	**18,000**
Total Roadway Construction and Maintenance		**137,733**	**150,664**	**135,758**	**150,757**	**143,013**	**153,968**	**871,893**

CAPITAL PROJECTS SUMMARY *SERVICE BASED VIEW* *(in Thousands of $)*	DETAIL PAGE NO.	PRELIMINARY CAPITAL BUDGET 2017	FORECAST 2018	2019	2020	2021	2022	6 YEAR TOTAL
Transportation Planning and Traffic Management								
Public Works								
Transportation Master Plan	2-10		250	250	250	250	250	1,250
Traffic Signals Improvements	2-11	1,030	1,030	1,030	1,030	1,030	1,030	6,180
Traffic Signals Loops	2-12	250	250	250	250	250	250	1,500
Traffic Engineering Improvements - Various Locations	2-13	1,000	1,900	1,900	1,900	1,900	1,900	10,500
Land Acquisition - Transportation Right of Way	2-43		300	300	300	300	300	1,500
Total Transportation Planning and Traffic Management		2,280	3,730	3,730	3,730	3,730	3,730	20,930
Public Transit								
Transit								
Innovative Transit Program	2-182	565	1,000	1,000	1,000	1,000	1,000	5,565
Transit Building Replacement / Refurbishment	2-183	1,468	956	2,036	4,036	4,536	4,518	17,550
Expansion of Transit Vehicle Overhaul and Maintenance Facilities	2-185	53,200						53,200
Transit Building Roof Replacement and Ventilation Upgrade	2-187	3,550	3,550	4,500	2,500	2,000	2,018	18,118
Transit Buses	2-189	22,408	29,252	37,960	32,823	34,436	36,130	193,009
Bus Fleet Cameras	2-194	345	155					500
Total Public Transit		81,536	34,913	45,496	40,359	41,972	43,666	287,942
City Beautification								
Planning, Property and Development								
Downtown Enhancement Program	2-129	400	400	400	400	400	400	2,400
BIZ Zones, Image Routes and Neighbourhood Main Streets	2-131	974	400	400	400	400	400	2,974
Tache Promenade	2-138	4,303						4,303
Total City Beautification		5,677	800	800	800	800	800	9,677
TOTAL INFRASTRUCTURE RENEWAL AND PUBLIC WORKS		227,226	190,107	185,784	195,646	189,515	202,164	1,190,442

CAPITAL PROJECTS SUMMARY *SERVICE BASED VIEW* *(in Thousands of $)*	DETAIL PAGE NO.	PRELIMINARY CAPITAL BUDGET 2017	FORECAST 2018	2019	2020	2021	2022	6 YEAR TOTAL
WATER AND WASTE, RIVERBANK MANAGEMENT AND THE ENVIRONMENT								
Water								
Water and Waste - Waterworks System								
Shoal Lake Aqueduct Asset Preservation	2-201	**400**	**2,018**		**1,390**	**2,595**		**6,403**
Shoal Lake Aqueduct Intake Facility Rehabilitation	2-202	**3,223**	**50**		**1,225**	**1,330**		**5,828**
Aqueduct Condition Assessment and Rehabilitation (formerly Branch Aqueduct Condition Assessment and Rehabilitation)	2-203	**1,500**				**1,000**		**2,500**
Tache Booster Pumping Station	2-204	**1,500**			**4,036**			**5,536**
Pumping Stations Reliability Upgrades	2-205	**3,659**						**3,659**
Pumping Stations and Reservoirs Structural Upgrades	2-206		**400**	**400**	**400**			**1,200**
Chlorination Upgrading at Pumping Stations	2-207		**2,750**					**2,750**
Water Supervisory Control and Data Acquisition (SCADA) Upgrade	2-208	**8,033**					**775**	**8,808**
Waterworks System Security Upgrades	2-210	**498**	**576**	**371**				**1,445**
Regulatory Assessment of Water System Infrastructure and Supply Sources	2-211					**575**		**575**
Water Treatment Plant Capacity Validation	2-212		**150**					**150**
Branch 1 Aqueduct at Seine River - Riverbank Stabilization (East Side)	2-213	**950**						**950**
Study of Backup Power Supply for Hurst Pumping Station (formerly Study of Natural Gas Powered Backup Pumps for Hurst Pumping Station)	2-214	**400**						**400**
Deacon Reservoir Cell Rehabilitation	2-215		**875**					**875**
Deacon Booster Pumping Station Suction Header Divider Wall and Valve	2-216		**1,000**					**1,000**
Hurst Pumping Station Building - Structural Repairs	2-217	**400**	**1,900**					**2,300**
Deacon Site Flood Protection	2-218	**1,825**						**1,825**
HVAC Upgrades at Pumping Stations	2-219		**4,900**					**4,900**
Ultraviolet Light Disinfection System Upgrade	2-220	**1,735**						**1,735**
Saskatchewan Avenue Water Main	2-221	**4,830**						**4,830**
Transcona Water Main Reliability Upgrade	2-222		**5,788**					**5,788**
Feeder Main Condition Assessment and Rehabilitation	2-223	**500**	**1,000**	**1,000**	**750**	**1,500**	**1,500**	**6,250**
Building Renovations - 1199 Pacific Avenue	2-224		**110**					**110**
Customer Billing and Work Management Systems Upgrades Program	2-225	**930**	**1,165**	**640**	**255**	**235**	**200**	**3,425**
Utility Asset Management System	2-226	**500**						**500**
Water Main Renewals	2-227	**18,500**	**18,500**	**19,000**	**20,000**	**21,000**	**21,500**	**118,500**
Total Water		**49,383**	**41,182**	**21,411**	**28,056**	**28,235**	**23,975**	**192,242**

CAPITAL PROJECTS SUMMARY	**DETAIL**	**PRELIMINARY CAPITAL**						
SERVICE BASED VIEW	**PAGE**	**BUDGET**	**FORECAST**					**6 YEAR**
(in Thousands of $)	**NO.**	**2017**	**2018**	**2019**	**2020**	**2021**	**2022**	**TOTAL**
Wastewater								
Water and Waste - Sewage Disposal								
Biosolids - Alternative Disposal Delivery and Management System	2-228		**22,050**					**22,050**
North End Sewage Treatment Plant (NEWPCC) - Nutrient Removal / Upgrade	2-229	**980**						**980**
West End Sewage Treatment Plant (WEWPCC) - Facilities Plan	2-230					**500**		**500**
Process Control System Master Plan and Upgrade	2-231	**1,000**	**9,000**					**10,000**
Asset Refurbishment and Replacement Program	2-233	**2,000**	**4,000**	**6,000**	**6,000**	**2,000**	**2,000**	**22,000**
Wastewater Hauling System Replacement (formerly Wastewater Hauling and Grease Trap Licensing Automation)	2-234	**1,000**						**1,000**
Arc Flash Hazard Analysis and Remediation	2-235	**424**	**499**	**512**	**65**			**1,500**
Lift Stations Upgrading	2-236	**2,332**	**2,722**	**2,870**	**3,028**	**6,250**	**6,250**	**23,452**
Plessis Road Interceptor	2-237	**7,300**						**7,300**
Kenaston Boulevard Interceptor	2-238						**6,800**	**6,800**
Combined Sewer Overflow and Basement Flood Management Strategy	2-239	**21,400**	**29,902**	**31,200**	**34,114**	**25,588**	**25,910**	**168,114**
Comminutor Chamber Rehabilitation Program	2-241	**1,100**	**1,100**	**1,200**	**1,300**			**4,700**
Southwest Interceptor River Crossing	2-242						**250**	**250**
Wastewater Services Facilities Plan	2-243				**250**			**250**
River Crossings Monitoring and Rehabilitation	2-244	**360**			**800**	**800**	**585**	**2,545**
Environmental Standards Laboratory Facility Plan	2-245						**500**	**500**
Water and Waste Department (WWD) Business Intelligence	2-246	**210**	**1,560**	**600**	**480**			**2,850**
Customer Billing and Work Management Systems Upgrades Program	2-247	**930**	**1,165**	**640**	**255**	**235**	**200**	**3,425**
Sewer Renewals	2-248	**18,800**	**18,200**	**19,500**	**20,500**	**21,500**	**22,500**	**121,000**
Total Wastewater		**57,836**	**90,198**	**62,522**	**66,792**	**56,873**	**64,995**	**399,216**

CAPITAL PROJECTS SUMMARY *SERVICE BASED VIEW* *(in Thousands of $)*	DETAIL PAGE NO.	PRELIMINARY CAPITAL BUDGET 2017	FORECAST 2018	2019	2020	2021	2022	6 YEAR TOTAL
Land Drainage and Flood Control								
Public Works								
Land Drainage Sewers - Regional / Local Streets	2-42	**1,000**	**1,000**	**1,000**	**300**	**300**	**300**	**3,900**
Planning, Property and Development								
Riverbank Greenway Programs	2-127	**225**	**406**	**411**	**453**	**424**	**420**	**2,339**
Riverbank Stabilization - Physical Asset Protection	2-135	**1,229**	**1,000**	**1,000**	**1,000**	**1,000**	**1,000**	**6,229**
Water and Waste - General Capital Fund								
Flood Pumping Station Rehabilitation	2-195	**1,000**	**1,000**	**1,000**	**1,000**	**1,000**	**1,000**	**6,000**
Land Drainage and Combined Sewers Outfall Gate Structures	2-196	**2,430**	**1,730**	**1,710**	**1,980**			**7,850**
Stormwater Retention Basin Revetments (formerly Stormwater Retention Basin Rehabilitation)	2-197	**215**	**170**	**180**	**190**			**755**
Land Drainage Utility (formerly Land Drainage Utility Study and Implementation)	2-198				**400**	**100**		**500**
Development Agreement Paybacks	2-199	**3,250**	**2,000**	**1,700**	**500**			**7,450**
Outfall Rehabilitation	2-200	**2,000**	**2,000**	**2,000**	**2,000**	**2,000**	**3,500**	**13,500**
Total Land Drainage and Flood Control		**11,349**	**9,306**	**9,001**	**7,823**	**4,824**	**6,220**	**48,523**
Solid Waste Disposal								
Water and Waste - Solid Waste								
Brady Road Resource Management Facility - Administration Building	2-249	**2,700**						**2,700**
Brady Road Resource Management Facility - Cell Construction - Phase 1	2-250	**699**		**1,907**		**2,004**		**4,610**
Brady Road Resource Management Facility - Cell Construction - Phase 2	2-251						**690**	**690**
Brady Road Resource Management Facility - Drainage, Roadways and Site Improvements	2-252	**200**	**4,200**					**4,400**
Brady Road Resource Management Facility - Landfill Gas Capture Expansion - Phase 2	2-253		**1,800**					**1,800**
Closed Landfill Site Improvement	2-254	**182**	**193**	**280**				**655**
Miscellaneous Land Acquisition	2-255	**800**						**800**
Total Solid Waste Disposal		**4,581**	**6,193**	**2,187**		**2,004**	**690**	**15,655**

CAPITAL PROJECTS SUMMARY	**DETAIL**	**PRELIMINARY CAPITAL**						
SERVICE BASED VIEW	**PAGE**	**BUDGET**	**FORECAST**					**6 YEAR**
(in Thousands of $)	**NO.**	**2017**	**2018**	**2019**	**2020**	**2021**	**2022**	**TOTAL**
Recycling and Waste Diversion								
Water and Waste - Solid Waste								
Comprehensive Integrated Waste Management Strategy (CIWMS) - 4R Winnipeg Depots (Community Resource Recovery Centres)	2-256	**3,303**			**3,949**			**7,252**
CIWMS - Garbage and Recycling Cart Asset Management	2-257	**250**						**250**
Total Recycling and Waste Diversion		**3,553**			**3,949**			**7,502**
TOTAL WATER AND WASTE, RIVERBANK MANAGEMENT AND THE ENVIRONMENT		**126,702**	**146,879**	**95,121**	**106,620**	**91,936**	**95,880**	**663,138**

CAPITAL PROJECTS SUMMARY *SERVICE BASED VIEW* *(in Thousands of $)*	DETAIL PAGE NO.	PRELIMINARY CAPITAL BUDGET 2017	FORECAST 2018	2019	2020	2021	2022	6 YEAR TOTAL
PROPERTY AND DEVELOPMENT, HERITAGE AND DOWNTOWN DEVELOPMENT								
Neighbourhood Revitalization								
Community Services								
Dakota Community Centre - Outdoor Running Track	2-83			300	550			850
Community Incentive Grant Program (CIGP)	2-91	1,698	1,732	1,767	1,802	1,838	1,875	10,712
Planning, Property and Development								
Building Communities Initiative III	2-137		2,120	2,000	3,780	1,600		9,500
Municipal Accommodations								
City-Wide Accessibility Program	2-158	425	425	425	425	425	425	2,550
Total Neighbourhood Revitalization		2,123	4,277	4,492	6,557	3,863	2,300	23,612
Heritage Conservation								
Municipal Accommodations								
Historic Buildings	2-146	145	270	214	217	220	224	1,290
City Clerks								
Corporate Records Centre	2-165	150					200	350
Total Heritage Conservation		295	270	214	217	220	424	1,640
Cemeteries								
Planning, Property and Development								
Cemeteries - Improvements	2-128	408	400	390	398	406	400	2,402
Total Cemeteries		408	400	390	398	406	400	2,402
Property Asset Management - Tax Supported								
Planning, Property and Development								
Computer Automation	2-126		144	133	119	143	132	671
Land Acquisition for General Unspecified Purposes	2-133	1,800	240	228	274	238	256	3,036
Total Property Asset Management - Tax Supported		1,800	384	361	393	381	388	3,707

CAPITAL PROJECTS SUMMARY *SERVICE BASED VIEW* *(in Thousands of $)*	DETAIL PAGE NO.	PRELIMINARY CAPITAL BUDGET 2017	FORECAST 2018	2019	2020	2021	2022	6 YEAR TOTAL
Property Asset Management - Municipal Accommodations								
Municipal Accommodations								
General Building Renovation and Refurbishing	2-140	**222**	**500**	**180**	**500**	**500**	**500**	**2,402**
Accommodation Facilities	2-141	**425**	**1,227**	**784**	**1,824**	**1,775**	**1,956**	**7,991**
Millennium Library - HVAC and Temperature Control Improvements	2-142		**750**	**1,495**				**2,245**
Fire / Life Safety / Regulatory Upgrades	2-143	**625**	**720**	**759**	**708**	**704**	**720**	**4,236**
Energy Conservation	2-144		**140**	**158**	**130**	**136**	**143**	**707**
Tenant Improvement Prepayment - Major Department	2-145		**193**		**186**	**183**	**179**	**741**
Generator Set Replacement and Upgrades	2-147		**130**	**113**	**136**	**123**	**148**	**650**
Security / Building Automation System Initiatives	2-148	**255**	**255**	**255**	**255**	**255**	**203**	**1,478**
Building Asset / Work Management Program	2-156	**100**	**163**	**175**	**170**	**164**	**165**	**937**
City Hall - Building Refurbishment	2-160	**2,645**						**2,645**
Total Property Asset Management - Municipal Accommodations		**4,272**	**4,078**	**3,919**	**3,909**	**3,840**	**4,014**	**24,032**
TOTAL PROPERTY AND DEVELOPMENT, HERITAGE AND DOWNTOWN DEVELOPMENT		**8,898**	**9,409**	**9,376**	**11,474**	**8,710**	**7,526**	**55,393**

CAPITAL PROJECTS SUMMARY *SERVICE BASED VIEW* *(in Thousands of $)*	DETAIL PAGE NO.	PRELIMINARY CAPITAL BUDGET 2017	FORECAST 2018	2019	2020	2021	2022	6 YEAR TOTAL
PROTECTION, COMMUNITY SERVICES AND PARKS / WINNIPEG POLICE BOARD								
Police Response								
Winnipeg Police Service								
North Station Information Technology Requirements	2-93		**490**					**490**
Police Divisions Systems Upgrades	2-94	**1,667**	**800**					**2,467**
Major Case Management System Expansion	2-95	**1,158**		**500**				**1,658**
Police Headquarters Building Systems Safeguards	2-96	**510**						**510**
North District Police Station	2-98	**20,000**						**20,000**
Building Video Surveillance Systems	2-99					**4,160**		**4,160**
Intelligence Led Reporting (Phase 2)	2-100		**1,665**					**1,665**
WPS Data Integration, Auditing and Quality Solution Tool	2-101		**662**					**662**
Automated Fingerprint Identification System (AFIS)	2-102					**500**		**500**
Technology Upgrades - Information Systems	2-103			**1,200**				**1,200**
In Car Computing	2-104			**1,247**	**253**			**1,500**
Bomb Unit Truck Replacement	2-105		**300**					**300**
Next Generation 911	2-106				**800**	**1,000**		**1,800**
Communication Centre Back Up Site Upgrade	2-107					**550**		**550**
Police Vehicle Operations Building	2-108			**1,820**				**1,820**
Archival and Exhibit Building	2-109		**2,519**					**2,519**
Computer Assisted Dispatch Upgrade	2-110	**250**			**255**			**505**
Schedule and Management System Upgrade	2-111					**500**		**500**
Call Answer Software	2-112						**1,000**	**1,000**
Police Headquarters Information System Upgrades	2-113					**2,100**		**2,100**
Flight Operations - Forward Looking Infra-Red (FLIR) Equipment	2-114						**658**	**658**
JSI Voice Intercept System	2-115						**700**	**700**
Total Police Response		**23,585**	**6,436**	**4,767**	**1,308**	**8,810**	**2,358**	**47,264**

CAPITAL PROJECTS SUMMARY *SERVICE BASED VIEW* *(in Thousands of $)*	DETAIL PAGE NO.	PRELIMINARY CAPITAL BUDGET 2017	FORECAST 2018	2019	2020	2021	2022	6 YEAR TOTAL
Fire and Rescue Response								
Fire Paramedic Service								
Facilities Optimization	2-116	**925**	**3,934**	**6,339**				**11,198**
Equipment Obsolescence	2-118	**1,487**	**1,010**	**4,052**	**739**	**739**	**4,629**	**12,656**
911 Call Centre Resilience	2-120	**861**	**260**			**124**		**1,245**
Computer Aided Dispatch (CAD)	2-121		**7,449**					**7,449**
Station Capital Maintenance	2-123	**1,938**	**2,852**	**1,270**	**4,400**	**7,743**	**2,801**	**21,004**
Total Fire and Rescue Response		**5,211**	**15,505**	**11,661**	**5,139**	**8,606**	**7,430**	**53,552**
Medical Response								
Fire Paramedic Service								
Emergency Medical Services (EMS) Training Equipment	2-125				**119**			**119**
Total Medical Response					**119**			**119**

CAPITAL PROJECTS SUMMARY *SERVICE BASED VIEW* *(in Thousands of $)*	DETAIL PAGE NO.	PRELIMINARY CAPITAL BUDGET 2017	FORECAST 2018	2019	2020	2021	2022	6 YEAR TOTAL
Recreation								
Community Services								
Recreational Facility Safety, Security and Accessibility Improvements Program	2-73	**156**	**159**	**162**	**165**	**168**	**172**	**982**
Fitness Equipment Upgrade Program	2-74		**233**	**227**	**230**	**235**	**241**	**1,166**
Recreation Equipment and Amenities Program	2-75			**400**		**400**		**800**
Recreation Refurbishment and Redevelopment Program - Existing Infrastructure	2-76					**2,000**	**495**	**2,495**
Recreation Facility New Infrastructure - South Winnipeg - First charge on 2017 Capital Budget of up $3.8 million (Council March 22, 2016)	2-77	**4,114**						**4,114**
Recreation Facility Replacement - New Infrastructure	2-78			**7,000**		**5,000**		**12,000**
Recreation Refurbishment and Redevelopment - East End Cultural and Leisure Centre	2-79	**171**						**171**
St. James Civic Centre - Facility Addition - First charge on 2017 Capital Budget of up $250,000 (Council March 22, 2016)	2-80	**1,195**	**4,791**	**2,080**				**8,066**
Seven Oaks Indoor Pool - Renewal Plan - First charge on 2017 Capital Budget of up to $2.4 million (Council July 13, 2016)	2-82	**2,400**						**2,400**
Pan Am Pool - Change Room Upgrades	2-84		**815**					**815**
Boni-Vital Pool	2-85	**240**		**385**	**5,359**			**5,984**
Spray Pad Development - Freighthouse Site	2-86	**1,039**						**1,039**
Spray Pad Development - Old Ex / North Centennial Recreation and Leisure Facility	2-87	**1,038**						**1,038**
Business Application Systems	2-88	**142**	**306**	**312**				**760**
Technology Upgrade and Replacement Program	2-89		**306**			**325**		**631**
Community Centre Renovation Grant Program (CCRGP)	2-90	**965**	**965**	**965**	**965**	**965**	**965**	**5,790**
Municipal Accommodations								
Community Centres - Refurbishing and Improvements	2-149	**620**	**644**	**673**	**667**	**661**	**653**	**3,918**
Arenas	2-150	**547**	**525**	**525**	**565**	**533**	**535**	**3,230**
Indoor Aquatic Facilities	2-151	**2,375**	**2,470**	**2,518**	**2,516**	**2,359**	**2,479**	**14,717**
Pan Am Indoor Pool - Parking Lot Refurbishment	2-153	**156**						**156**
Outdoor Aquatic Facilities	2-154	**342**	**340**	**338**	**340**	**342**	**340**	**2,042**
Community Facilities	2-155	**200**	**260**	**212**	**214**	**217**	**221**	**1,324**
UFF - Hockey Pen Light Standard Replacement	2-157	**100**	**100**	**100**	**100**	**100**	**100**	**600**
Total Recreation		**15,800**	**11,914**	**15,897**	**11,121**	**13,305**	**6,201**	**74,238**

CAPITAL PROJECTS SUMMARY *SERVICE BASED VIEW* *(in Thousands of $)*	DETAIL PAGE NO.	PRELIMINARY CAPITAL BUDGET 2017	FORECAST 2018	2019	2020	2021	2022	6 YEAR TOTAL
Parks and Urban Forestry								
Public Works								
Reforestation - Improvements	2-44	**766**	**766**	**383**	**383**	**383**	**383**	**3,064**
Athletic Fields - Improvements	2-45		**350**	**350**	**350**	**350**	**350**	**1,750**
Community and Neighbourhood Parks - Existing (formerly Parks - Improvements)	2-46	**550**	**200**	**170**				**920**
Community and Neighbourhood Parks - New	2-47	**375**						**375**
Regional Parks	2-48	**400**				**2,350**	**3,650**	**6,400**
Parks Buildings (formerly Regional and Community Parks - Buildings)	2-49		**850**	**220**	**1,400**	**1,420**		**3,890**
Assiniboine Park Zoo - Sewer Siphon	2-51				**100**			**100**
Boat Docks and Launches	2-52	**1,500**	**600**					**2,100**
Parks and Recreation Enhancement Program	2-53	**3,300**	**3,300**	**3,300**	**3,300**	**3,300**	**3,300**	**19,800**
Urban Forest Enhancement Program	2-54	**1,300**	**1,300**	**1,300**	**1,300**	**1,300**	**1,300**	**7,800**
Regional Parks Investment Strategy	2-55	**100**						**100**
Parks Master Plan	2-56	**300**						**300**
Parks Road Renewal	2-57	**420**						**420**
Planning, Property and Development								
Developer Payback	2-134	**280**	**278**	**292**	**274**	**280**	**281**	**1,685**
Total Parks and Urban Forestry		**9,291**	**7,644**	**6,015**	**7,107**	**9,383**	**9,264**	**48,704**
Golf Services (SOA)								
Winnipeg Golf Services								
Golf Course Amenities	2-258			**1,000**				**1,000**
Total Golf Services (SOA)				**1,000**				**1,000**
Libraries								
Community Services								
Library Facility Safety, Security and Accessibility Improvements Program	2-58	**312**	**318**	**324**	**330**	**336**	**342**	**1,962**
Library Interior Infrastructure Replacement Program	2-59	**300**	**306**	**312**	**318**	**325**	**331**	**1,892**
Library Technology Upgrade and Replacement Program	2-60		**510**	**520**	**530**	**541**	**553**	**2,654**
Library Refurbishment and Redevelopment Program - Existing Infrastructure	2-61		**510**	**520**	**530**	**541**	**554**	**2,655**
Library Facility Redevelopment - Transcona Library	2-64	**2,512**						**2,512**
Library Facility Redevelopment - St. James Library	2-66		**512**	**2,037**	**8,024**			**10,573**
Library Facility Redevelopment - West Kildonan Library	2-68					**937**	**2,774**	**3,711**
Library Facility Redevelopment - Westwood Library	2-70					**146**	**794**	**940**
New Library Facility - South Winnipeg Library (formerly Waverley West Library)	2-71	**120**			**502**	**2,142**	**9,085**	**11,849**
New Library Facility - Southeast Winnipeg Library	2-72				**140**		**438**	**578**
Total Libraries		**3,244**	**2,156**	**3,713**	**10,374**	**4,968**	**14,871**	**39,326**

CAPITAL PROJECTS SUMMARY *SERVICE BASED VIEW* *(in Thousands of $)*	DETAIL PAGE NO.	PRELIMINARY CAPITAL BUDGET 2017	FORECAST 2018	2019	2020	2021	2022	6 YEAR TOTAL
Arts, Entertainment and Culture								
Community Services								
Assiniboine Park Conservancy (APC) - Infrastructure and Sustainability	2-92	**5,123**	**5,123**	**5,123**	**2,000**	**2,000**	**2,000**	**21,369**
Planning, Property and Development								
Public Art Strategy	2-132	**500**	**500**	**500**	**500**	**500**	**500**	**3,000**
City Clerks								
2017 Canada Summer Games	2-168	**750**						**750**
Total Arts, Entertainment and Culture		**6,373**	**5,623**	**5,623**	**2,500**	**2,500**	**2,500**	**25,119**
TOTAL PROTECTION, COMMUNITY SERVICES AND PARKS / WINNIPEG POLICE BOARD		**63,504**	**49,278**	**48,676**	**37,668**	**47,572**	**42,624**	**289,322**

CAPITAL PROJECTS SUMMARY *SERVICE BASED VIEW* *(in Thousands of $)*	DETAIL PAGE NO.	PRELIMINARY CAPITAL BUDGET 2017	FORECAST 2018	2019	2020	2021	2022	6 YEAR TOTAL
EXECUTIVE POLICY								
Organizational Support Services								
Corporate Support Services								
PeopleSoft Upgrade	2-170	**1,800**	**412**				**2,483**	**4,695**
Communications Network Infrastructure	2-171	**401**	**813**	**267**	**525**	**327**	**475**	**2,808**
Enterprise Computing Initiatives	2-172	**1,566**	**1,413**	**1,127**	**1,636**	**2,041**	**1,832**	**9,615**
Print Asset Renewal	2-173		**152**			**317**		**469**
Aerial Imagery Renewal Program	2-174		**165**		**190**		**182**	**537**
Software Renewal Program	2-175			**157**			**152**	**309**
311 Renewal	2-176	**450**	**250**	**100**	**450**	**250**	**490**	**1,990**
Infrastructure Service Enhancements	2-177	**100**			**150**			**250**
Candidate Gateway	2-178		**283**					**283**
Other Projects								
PeopleSoft Accounts Receivable and Billing	2-181	**192**						**192**
Total Organizational Support Services		**4,509**	**3,488**	**1,651**	**2,951**	**2,935**	**5,614**	**21,148**
Assessment, Taxation and Corporate								
Assessment and Taxation								
Assessment Automation	2-179	**870**	**320**	**350**	**200**	**350**	**350**	**2,440**
Total Assessment, Taxation and Corporate		**870**	**320**	**350**	**200**	**350**	**350**	**2,440**
Council Services								
City Clerks								
Innovation Capital Fund	2-164	**1,000**	**1,000**	**1,000**	**1,000**	**1,000**	**1,000**	**6,000**
Election Systems	2-166	**200**	**200**			**200**	**200**	**800**
Decision Making Information System (DMIS) Replacement	2-167		**250**					**250**
Voting Machine Replacement	2-169						**1,000**	**1,000**
Total Council Services		**1,200**	**1,450**	**1,000**	**1,000**	**1,200**	**2,200**	**8,050**
TOTAL EXECUTIVE POLICY		**6,579**	**5,258**	**3,001**	**4,151**	**4,485**	**8,164**	**31,638**
TOTAL CAPITAL PROGRAM - SERVICE BASED VIEW		**432,909**	**400,931**	**341,958**	**355,559**	**342,218**	**356,358**	**2,229,933**

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City of Winnipeg
Cost Estimate Classification System

Estimation Classification*	Project Definition	Project Definition % Complete	Accuracy of Cost Estimate
Class 1	Detail Design Drawing and Specification Complete, Pre-Tender Estimate	~90% - 95%	-5% to +10%
Class 2	Design Development in progress	~60%	-10% to +20%
Class 3	**Preliminary Design, for Budget Authorization**	**~30%**	**-20% to +30%**
Class 4	Feasibility Study	~10%	-30% to +60%
Class 5	Concept Screening, Rough Order of Magnitude Estimate	~1%	-50% to +100%

Scalable	Project/Program scope can be adjusted to fit the Budget	N/A	N/A

Cost Estimate Class Descriptions

Class 1	Estimates prepared based on completed detail design documentation (plans and specifications) as well as complete project delivery plans. At pre-tender estimate stage.
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 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 4	Estimates prepared based on limited information with some engineering work completed and preliminary scope determination.
Class 5	Rough estimate prepared based on very limited information with no engineering work completed. Used to make an assessment of initial viability and for long range capital planning.
Scalable	Scalable projects/programs will be sized according to the final budget authorization.

* Determined using the Association for the Advancement of Cost Engineering (AACE) International Recommended Practices 17R-97, 18R-97 & 56R-08

** City Auditor has recommended that a Class 3 estimate is 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)	2017	2018	2019	2020	2021	2022
Tax Supported Public Private Partnership Payments:						
1 Charleswood Bridge	$ 1,478	$ 1,478	$ 1,478	$ 1,478	$ 1,478	$ 1,478
2 Disraeli Bridge and Overpass Facility	18,325	18,250	14,900	13,200	13,250	13,300
3 Chief Peguis Trail - Henderson to Lagimodiere	7,185	7,230	7,270	7,315	7,360	7,425
4 East District Police Station	990	1,012	1,056	1,056	1,056	1,056
Total	$ 27,978	$ 27,970	$ 24,704	$ 23,049	$ 23,144	$ 23,259
Less Manitoba Winnipeg Infrastructure Fund (2010 - 2019)	(5,000)	(5,000)	(5,000)	-	-	-
Net Public Private Partnership Payments	**$ 22,978**	**$ 22,970**	**$ 19,704**	**$ 23,049**	**$ 23,144**	**$ 23,259**
Financing Sources:						
1 Cash to Capital	$ 55,649	$ 80,278	$ 70,778	$ 72,778	$ 74,778	$ 76,778
2 Federal Gas Tax	36,016	37,551	56,451	43,948	43,948	43,948
Total Cash to Capital and Gas Tax	**$ 91,665**	**$ 117,829**	**$ 127,229**	**$ 116,726**	**$ 118,726**	**$ 120,726**
Payments as a Percentage of Cash to Capital and Gas Tax	**25.07%**	**19.49%**	**15.49%**	**19.75%**	**19.49%**	**19.27%**

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.

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.

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 will not impact this Public Private Partnership Payments calculation.

Transfers from Other Capital Accounts / Surplus Capital

Source (From)		Capital Project (To)	2017	2018	2019
TAX SUPPORTED, TRANSIT AND MUNICIPAL ACCOMMODATIONS	**($000's)**			**($000's)**	
Corporate					
2016 Corporate Non-Specified Capital Account	8,616	Developer Payback (Public Works)	1,600		
		Regional and Local Street Renewal	1,710		
		St. James Civic Centre - Facility Addition	945	250	
		APC - Infrastructure & Sustainability	3,580		
		City Hall - Building Refurbishment	531		
	8,616		8,366	250	-
Public Works					
2016 Ness Culvert (Sturgeon Creek)	750				
2016 Saskatchewan Avenue Bridge (Omand's Creek)	200				
2013 St. James Street Bridge (Omand's Creek)	150	Kenaston Boulevard Southbound from			
	1,100	McGillivray to Bishop Grandin	1,100		
Public Works					
2013 Asset Management - Parks and Open Space	229				
2014 Asset Management - Parks and Open Space	230	Work Management / Asset Management			
	459	Systems Study	459		
Winnipeg Police Service					
2014 Police Computer Upgrades	350	Police Headquarters Building Systems	510		
2014 Police Communication Centre / Alternate Site	450	Safeguards (2016 budget $290,000 + 2017			
	800	budget $510,000 = $800,000)			
Planning, Property and Development					
2012 BIZ Zones, Image Routes and Neighbourhood Main Streets	45				
2013 BIZ Zones, Image Routes and Neighbourhood Main Streets	192				
2014 BIZ Zones, Image Routes and Neighbourhood Main Streets	337	BIZ Zones, Image Routes and			
	574	Neighbourhood Main Streets	574		
Planning, Property and Development					
2013 Riverbank Stabilization - Physical Asset Protection	93				
2014 Riverbank Stabilization - Physical Asset Protection	136	Riverbank Stabilization - Physical Asset			
	229	Protection	229		
Municipal Accommodations					
2014 St. Vital Centennial Arena	222	Arenas	222		
Municipal Accommodations					
2014 Community Facilities	200	Community Facilities	200		
Municipal Accommodations					
2014 Historic Buildings	20				
2015 Historic Buildings	125				
	145	Historic Buildings	145		
Municipal Accommodations					
2014 General Building Renovation and Refurbishing	222	General Building Renovation and Refurbishing	222		
Other (Corporate Finance)					
2014 PeopleSoft Accounts Receivable and Billing	192	PeopleSoft Accounts Receivable and Billing	192		

Transfers from Other Capital Accounts / Surplus Capital

Source (From)		Capital Project (To)	2017	2018	2019
TAX SUPPORTED, TRANSIT AND MUNICIPAL ACCOMMODATIONS	**($000's)**		**($000's)**		
Corporate Support Service					
2015 Teraspan Fibre Ring Renewal	100				
2015 ININ (Interactive Intelligence) Renewal	122				
2016 311 Renewal	50				
2016 Communications Network Infrastructure	25				
2016 Communication Tower Relocation	300				
2016 Teraspan Fibre Ring Renewal	119				
2016 Infrastructure Service Enhancements	50				
	766	Enterprise Computing Initiatives	766		
Transit					
2014 Transit Building Replacement / Refurbishment	4,226				
2015 Transit Building Replacement / Refurbishment	4,934	Expansion of Transit Vehicle Overhaul and			
	9,160	Maintenance Facilities	9,160		
Water and Waste - Land Drainage					
2014 Stormwater Retention Basin Revetments (formerly Stormwater Retention Basin Rehabilitation)	50	Stormwater Retention Basin Revetments	50		
Sub-total Tax Supported, Transit and Municipal Accommodations			**22,195**	**250**	**-**
OTHER LEVELS OF GOVERNMENT					
Transfer Prior Year Surplus - Manitoba Winnipeg Infrastructure Fund (MWIF)	3,900	St. James Civic Centre - Facility Addition - Transfer Prior Year Surplus - Manitoba Winnipeg Infrastructure Fund (MWIF)	-	3,900	
2013, 2014 & 2015 Transit Building Replacement / Refurbishment - Manitoba Winnipeg Infrastructure Agreement (MWIA)	17,460	Expansion of Transit Vehicle Overhaul and Maintenance Facilities	13,000		
		Transit Building Roof Replacement and Ventilation Upgrade	862	863	
		Transit Buses	1,880	855	
Transfer Prior Year Authorization - Manitoba Winnipeg Infrastructure Agreement (MWIA)	17,460	Transfer Prior Year Authorization - Manitoba Winnipeg Infrastructure Agreement (MWIA)	15,742	1,718	-
2013 Transit Building Replacement / Refurbishment - Federal Gas Tax	1,132	Transit Buses - Transfer from Prior Year Authorization - Federal Gas Tax			1,132
Sub-total - Other Levels of Government			**15,742**	**5,618**	**1,132**
Total Transfers from Other Capital Accounts / Surplus Capital - Tax Supported, Transit and Municipal Accommodations			**$ 37,937**	**$ 5,868**	**$ 1,132**

Transfers from Other Capital Accounts / Surplus Capital

Source (From)		Capital Project (To)	2017	2018	2019
WATER AND WASTE UTILITIES	**($000's)**			**($000's)**	
Waterworks System					
2013 Tache Booster Pumping Station	500				
2016 Tache Booster Pumping Station	700				
	1,200	Tache Booster Pumping Station	1,200		
2013 Aqueduct Condition Assessment and Rehabilitation (formerly Branch Aqueduct Condition Assessment and Rehabilitation)	1,500	Aqueduct Condition Assessment and Rehabilitation	1,500		
2014 Pumping Stations Reliability Upgrades	1,462				
2015 Pumping Stations Reliability Upgrades	1,313				
	2,775	Pumping Stations Reliability Upgrades	2,775		
2014 Water Supervisory Control and Data Acquisition (SCADA) Upgrade	398				
2015 Water Supervisory Control and Data Acquisition (SCADA) Upgrade	7,600				
2016 Water Supervisory Control and Data Acquisition (SCADA) Upgrade	35				
	8,033	Water Supervisory Control and Data Acquisition (SCADA) Upgrade	8,033		
2015 Branch 1 Aqueduct at Seine River - Riverbank Stabilization (East Side)	950	Branch 1 Aqueduct at Seine River - Riverbank Stabilization (East Side)	950		
2011 Hurst Pumping Station Building - Structural Repairs	400	Hurst Pumping Station Building - Structural Repairs	400		
2014 Deacon Site Flood Protection	300				
2015 Deacon Site Flood Protection	1,525				
	1,825	Deacon Site Flood Protection	1,825		
2014 Feeder Main Condition Assessment and Rehabilitation	500	Feeder Main Condition Assessment and Rehabilitation	500		
Sewage Disposal System					
2012 Asset Refurbishment and Replacement Program (formerly WPCC Reliability Upgrades)	1,901				
2013 Asset Refurbishment and Replacement Program (formerly WPCC Reliability Upgrades)	99				
	2,000	Asset Refurbishment and Replacement Program	2,000		
2010 River Crossings Monitoring and Rehabilitation	360	River Crossings Monitoring and Rehabilitation	360		
2011 Process Control System Master Plan and Upgrade (formerly Distributed Control System (DCS) & Human Machine Interface (HMI) upgrades at Water Pollution Control Centres (WPCCs))	1,000	Process Control System Master Plan and Upgrade	1,000		
2014 Combined Sewer Overflow and Basement Flood Management Strategy	12,596				
2015 Combined Sewer Overflow and Basement Flood Management Strategy	624				
	13,220	Combined Sewer Overflow and Basement Flood Management Strategy	13,220		

Transfers from Other Capital Accounts / Surplus Capital

Source (From)		Capital Project (To)	2017	2018	2019
WATER AND WASTE UTILITIES	**($000's)**			**($000's)**	
Solid Waste Disposal System					
2013 Brady Road Resource Management Facility - Administration Building	200	Brady Road Resource Management Facility - Administration Building	200		
2012 Miscellaneous Land Acquisition	500				
2013 Miscellaneous Land Acquisition	300				
	800	Miscellaneous Land Acquisition	800		
2015 Summit Landfill Closure / Post Closure	86	Closed Landfill Site Improvement	86		
2013 CIWMS - Garbage and Recycling Cart Asset Management	100	CIWMS - Garbage and Recycling Cart Asset Management	100		
Total Transfers from Other Capital Accounts / Surplus Capital - Water and Waste Utilities			**$ 34,949**	**$ -**	**$ -**
Total City Transfers from Other Capital Accounts / Surplus Capital			**$ 72,886**	**$ 5,868**	**$ 1,132**

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Transfer to Capital Reconciliation

Departments	2016 Adopted Budget	2017 Preliminary Budget	Variance
Winnipeg Police Service	$ 7,278,000	$ 3,075,000	$ (4,203,000)
Public Works	22,294,000	17,164,000	(5,130,000)
Fire Paramedic Service	4,333,000	5,211,000	878,000
Community Services	9,768,000	8,131,000	(1,637,000)
Planning, Property and Development	1,828,000	2,480,000	652,000
Water and Waste (Land Drainage)	4,425,000	5,595,000	1,170,000
Corporate Support Services	3,874,000	3,245,000	(629,000)
Assessment and Taxation/Local Improvements	600,000	1,470,000	870,000
City Clerks	1,750,000	2,100,000	350,000
Corporate	(569,010)	-	569,010
Total tax supported	**$ 55,580,990**	**$ 48,471,000**	**$ (7,109,990)**
Transit	17,173,000	1,986,000	(15,187,000)
Municipal Accommodations	2,474,010	5,192,000	2,717,990
Total City Transfer to Capital	**$ 75,228,000**	**$ 55,649,000**	**$ (19,579,000)**
Corporate - Savings from capital closure	-	(2,000,000)	(2,000,000)
TOTAL	**$ 75,228,000**	**$ 53,649,000**	**$ (21,579,000)**

Notes:

1. 2016 transfers to capital are based on the 2016 Adopted Capital Budget adjusted for assumed provincial funding. 2017 transfers are based on the 2017 Preliminary Capital Budget adjusted for assumed provincial funding.

2. Public Works transfer to capital excludes transfers to the regional and local streets reserves (2016 - $33.5 million and 2017 - $44.240 million) and transfer to capital - frontage levy of $10 million.

3. Municipal Accommodations' 2016 adopted budget reflects internal financing interest on a portion of the Police Headquarters of $569,010. This is offset as a Corporate adjustment above. This internal financing interest on a portion of the Police Headquarters continues to be budgeted in Municipal Accommodations in 2017, but is not included above.

4. Year over year Total City Transfer to Capital

Tax Supported:	
a) Tax supported savings transferred to Regional Streets Renewal Program (2017 - $11 million, 2016 - $11 million, combined with $6.5 million in 2015 and planned $11.5 million in 2018, a total of $40 million has been invested).	-
b) transfer to capital reduction	(7,109,990)
c) Corporate - savings from capital closure	(2,000,000)
Total Tax Supported	(9,109,990)
Utility - transfer to capital year over year change:	
Transit	(15,187,000)
Municipal Accommodations	2,717,990
Total City Transfer to Capital change	**(21,579,000)**

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Appendix 5B

2017 Operating Budget Reconciliation
Variances Net of Transfer to Capital / Regional and Local Street Renewal Reserves / Frontage Levy
Tax Supported Summary

	2016 Adopted Budget	2017 Preliminary Budget	Year over Year		
			Transfer to Capital		
			Cash to Capital Variance	Frontage Levy / Reserves Variance	Other Variances
Expenditures:					
Departmental:					
Police Service	$ 280,669,573	**$ 288,000,280**	$ (4,203,000)		$ 11,533,707
Public Works	215,520,928	**229,990,833**	(5,130,000)	10,740,000	8,859,905
Fire Paramedic Service	190,273,654	**199,219,481**	878,000		8,067,827
Community Services	111,408,533	**114,879,529**	(1,637,000)		5,107,996
Planning, Property and Development	45,528,018	**45,592,436**	652,000		(587,582)
Water and Waste	30,399,443	**32,292,739**	1,170,000		723,296
Street Lighting	12,962,647	**13,398,809**	-		436,162
Corporate Support Services	37,253,982	**35,995,704**	(629,000)		(629,278)
Assessment and Taxation	19,985,887	**20,855,802**	870,000		(85)
Corporate Finance	9,015,503	**9,073,426**	-		57,923
City Clerks	14,550,008	**14,946,733**	350,000		46,725
Other departments	15,205,821	**16,048,156**	-		842,335
Sub-total Departmental	$ 982,773,997	**$ 1,020,293,928**	$ (7,679,000)	$ 10,740,000	$ 34,458,931
Corporate:					
Debt and finance charges	$ 542,945	**$ 567,892**			$ 24,947
Taxes	10,576,362	**10,734,993**			158,631
Insurance and damage claims	4,130,682	**3,838,052**			(292,630)
Contribution to Transit	69,918,833	**55,125,727**			(14,793,106)
Other	(12,812,934)	**(11,052,072)**	(1,430,990)		3,191,852
Sub-total Corporate	$ 72,355,888	**$ 59,214,592**	$ (1,430,990)	$ -	$ (11,710,306)
Total Expenditures	**$ 1,055,129,885**	**$ 1,079,508,520**	**$ (9,109,990)**	**$ 10,740,000**	**$ 22,748,625**

Notes:

1. Public Works' transfer to capital variance includes transfers to the regional and local street renewal reserves of $10.740 million (2016 - $33.5 million and 2017 - $44.240 million). The transfer to capital - frontage levy is budgeted at $10 million for each of 2016 and 2017.

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2017 Operating Budget Reconciliation
Budget Net of Transfer to Capital / Regional and Local Street Renewal Reserves / Frontage Levy
Tax Supported Summary

	2016 Net Budget	2017 Preliminary Net Budget	Variance
Expenditures:			
Departmental:			
Police Service	$ 273,391,573	$ 284,925,280	$ 11,533,707
Public Works	149,726,928	158,586,833	8,859,905
Fire Paramedic Service	185,940,654	194,008,481	8,067,827
Community Services	101,640,533	106,748,529	5,107,996
Planning, Property and Development	43,700,018	43,112,436	(587,582)
Water and Waste	25,974,443	26,697,739	723,296
Street Lighting	12,962,647	13,398,809	436,162
Corporate Support Services	33,379,982	32,750,704	(629,278)
Assessment and Taxation	19,385,887	19,385,802	(85)
Corporate Finance	9,015,503	9,073,426	57,923
City Clerks	12,800,008	12,846,733	46,725
Other departments	15,205,821	16,048,156	842,335
Sub-total Departmental	$ 883,123,997	$ 917,582,928	$ 34,458,931
Corporate:			
Debt and finance charges	$ 542,945	$ 567,892	$ 24,947
Taxes	10,576,362	10,734,993	158,631
Insurance and damage claims	4,130,682	3,838,052	(292,630)
Contribution to Transit	69,918,833	55,125,727	(14,793,106)
Other	(12,243,924)	(9,052,072)	3,191,852
Sub-total Corporate	$ 72,924,898	$ 61,214,592	$ (11,710,306)
Total Expenditures before Transfer to the General Capital Fund	**$ 956,048,895**	**$ 978,797,520**	**$ 22,748,625**
Capital:			
Transfer to Capital Tax Supported	44,580,990	37,471,000	(7,109,990)
Incremental Transfer to Capital	11,000,000	11,000,000	-
Transfer to Regional Street Renewal Reserve	14,500,000	19,870,000	5,370,000
Transfer to Local Street Renewal Reserve	19,000,000	24,370,000	5,370,000
Transfer to Capital - Frontage Levy	10,000,000	10,000,000	-
Capital Closing Surplus	-	(2,000,000)	(2,000,000)
Total Transfer to the General Capital Fund	**$ 99,080,990**	**$ 100,711,000**	**$ 1,630,010**
Total Expenditures	**$ 1,055,129,885**	**$ 1,079,508,520**	**$ 24,378,635**

Cash to Capital Surpluses - 2016 Capital Review
Tax Supported Summary

	2016
Total for tax supported departments	
Balance prior to 2016 Capital Review	$ 7,492,982
Cash to capital surpluses from 2016 capital review (see detailed list on the following pages)	3,248,446
Total Cash to Capital Surpluses after 2016 Capital Review	**$ 10,741,428**
Use of Cash to Capital Surpluses	
Amount utilized in the 2017 capital budget ($8.366 million) and 2018 forecast ($250,000)	$ 8,616,000
Amount utilized to reduce transfer to General Capital Fund in the 2017 tax supported operating budget	2,000,000
Amount retained in Corporate non-specified capital account (see note below)	125,428
Total	**$ 10,741,428**

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 - 2016 Capital Review
List of Project Net Surpluses Closed
Tax Supported Departments

Project Name	Project Year	Net Surplus
Public Works		
Chief Peguis Trail - Henderson Highway to Lagimodiere Boulevard	2007	$ 72,492
Disraeli Bridge	2008	27,143
Osborne Street Bridge	2009	113,126
Vehicle Guidance System	2009	82,456
Sturgeon Road Bridge	2010	29,585
Land Acquisition - Chief Peguis Trail	2010	201,292
Parks - Assiniboine River Walk	2010	19,805
Vehicle Guidance System & Office Management Software Package	2010	160,000
Asset Management - Parks and Open Spaces	2012	2,279
Traffic Signals Enhancements	2012	18,068
St. James Street Bridge	2013	10,752
Land Drainage Sewer - Regional / Local Streets	2013	11,072
SMIR (Strategic Municipal Infrastructure Research) - Pedestrian Detection System	2013	73,188
Transportation Master Plan	2013	3,451
Athletic Fields - Improvements	2013	177,820
Parks - Improvements	2013	248,500
Hardsurface Upgrading	2013	30,259
Kenaston Boulevard Ness to Taylor	2014	65,861
Transportation Master Plan	2014	199,978
Athletic Fields - Improvements	2014	181,063
Hardsurface Upgrading	2014	52,820
Burton Cummings Community Centre - Fitness Trail	2014	34,156
Chief Peguis Trail - Henderson Highway to Lagimodiere Boulevard - Future Payment	2015	161,085
Preliminary / Detailed Design for Building Canada Fund	2015	1,500,000
Disraeli Bridge and Overpass Facility - Future Payment	2015	671,978
Developer Payback	2015	10,162
Traffic Signals Improvements	2015	1,215
Traffic Signals Loops	2015	6,879
Traffic Signals Gel Covers	2015	4,875
Reforestation - Improvements	2015	3,199
MWIF (Manitoba Winnipeg Infrastructure Fund) cash to capital investment for previously closed projects *		(112,444)
Total Public Works		**4,062,115**

* Bracketed amounts disclosed above represent cash to capital investment for projects as indicated.

Appendix 5D

Cash to Capital - 2016 Capital Review
List of Project Net Surpluses Closed
Tax Supported Departments

Project Name	Project Year	Net Surplus
Municipal Accommodations & Planning, Property and Development		
Pan Am Pool Building Envelope	2010	12,303
Historic Buildings	2013	56,020
Cooling Plant Replacement Public Safety Building	2013	291,000
Arenas	2013	5,232
Outdoor Aquatic Facilities	2013	1,818
Accommodation Facilities	2013	616
Recreation and Leisure Facilities - River Heights - Fort Garry Ward	2013	1
Recreation and Leisure Facilities - St. Boniface Ward	2013	1
Security / Building Automation	2014	14,867
Universal Funding Formula - Hockey Pen Light Standard	2014	16,163
MWIF (Manitoba Winnipeg Infrastructure Fund) cash to capital investment for Municipal Accommodations' previously closed projects *		(754,881)
Building Communities - Charleswood Tuxedo Ward	2010	78
Building Communities - Mynarski Ward	2010	9,993
Building Communities - Point Douglas Ward	2010	526
Building Communities - Elmwood / East Kildonan Ward	2010	21
Building Communities - St. Charles Ward	2010	3,194
Building Communities - Daniel McIntyre Ward	2010	10,555
Building Communities - Fort Rouge / East Fort Garry Ward	2010	2,643
Building Communities - River Heights / Fort Garry Ward	2010	1,955
Building Communities - St. Boniface Ward	2010	3,902
Building Communities - St. Vital Ward	2010	130
Churchill Park Riverbank Stabilization *	2011	(237,419)
Riverbank Stabilization - Physical Asset Protection	2012	9,087
Riverbank Greenway Programs	2013	19,589
Cemeteries - Improvements	2014	21
Developer Payback	2014	380,000
Riverbank Greenway Programs	2014	8,317
Downtown Enhancement Program	2014	40,058
Computer Automation	2014	32,138
Public Art Strategy	2016	200
MWIF (Manitoba Winnipeg Infrastructure Fund) cash to capital surplus for Planning, Property and Development's previously closed projects		161,156
Total Municipal Accommodations & Planning, Property and Development		**89,284**

* Bracketed amounts disclosed above represent cash to capital investment for projects as indicated.

Cash to Capital - 2016 Capital Review
List of Project Net Surpluses Closed
Tax Supported Departments

Project Name	Project Year	Net Surplus
Community Services		
Library Technical Upgrade / Replacement Program	2014	4,047
Library Facility Safety and Accessibility Improvements Program	2014	3,305
Library Facilities Redevelopment - Westwood	2014	100,000
MWIF (Manitoba Winnipeg Infrastructure Fund) cash to capital surplus for previously closed projects		4,005
Total Community Services		**111,357**
Winnipeg Police Service		
Police Division System Upgrades	2013	13,760
Automated Fingerprint Identification System (AFIS)	2014	652
MWIF (Manitoba Winnipeg Infrastructure Fund) cash to capital investment for previously closed projects *		(1,074,141)
Total Winnipeg Police Service		**(1,059,729)**
Corporate Support Services		
Communications Network Infrastructure TeraSpan Remediation / Mitigation	2014	262
Infrastructure Service Enhancements	2014	857
PeopleSoft Upgrade	2014	196
311 Renewal	2014	12,413
Document Management	2014	153
ININ (Interactive Intelligence) Upgrade	2015	594
Total Corporate Support Services		**14,475**
Corporate Finance		
City-Wide Asset Management Initiative	2012	946
Total Corporate Finance		**946**
Assessment and Taxation (including Local Improvements)		
Weather Protected Walkway 350 St. Mary's Avenue	2009	7,722
2014 Local Improvements	2014	22,276
Total Assessment and Taxation (including Local Improvements)		**29,998**
Net cash to capital surpluses from 2016 capital review - tax supported departments		**$ 3,248,446**

* Bracketed amounts disclosed above represent cash to capital investment for projects as indicated.

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.

Thus, for 2017, projects $21 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 Committee may, at its discretion, request projects below this threshold to report to the Committee.

Year	Threshold	Construction Inflation	Revised Threshold after Inflation
2014	19,036,265	4%	19,797,715
2015	19,797,715	4%	20,589,624
2016	20,589,624	5%	21,619,105

Listing of Major Capital Projects previously approved and active for 2017:

1) Plessis Road Twinning and Grade Separation at CN Rail
2) Polo Park Infrastructure Improvements
3) Automatic Fare Collection System
4) Winnipeg Police Headquarters Redevelopment
5) North End Sewage Treatment Plant (NEWPCC) Biological Nutrient Removal Upgrade
6) South End Sewage Treatment Plant (SEWPCC) Upgrading and Expansion
7) Biosolids – Alternative Disposal Delivery and Management System
8) Comprehensive Integrated Waste Management Strategy – Reduce Reuse Recycle Repeat 4R Winnipeg Depots
9) Southwest Rapid Transitway (Stage 2) / Pembina Highway Underpass
10) Transit Building Replacement / Refurbishment (Expansion of Transit Vehicle Overhaul and Maintenance Facilities)*
11) Water Supervisory Control and Data Acquisition (SCADA) Upgrade and Expansion
12) Servicing for St. Boniface Industrial Park Phase 2
13) Waverley Street at CN Mainline (Rivers) Grade Separation

*With the adoption of the 2017 Capital Budget, there are no additional projects requiring the formation of a Major Capital Projects Advisory Committee. The Transit Building Replacement/Refurbishment program has been reporting to SPC Finance since April 9, 2015 with the understanding that once the project scope had been defined the project would be pulled out of the program and a refined budget would be submitted to Council for consideration. A report has been submitted to the Standing Policy Committee on Infrastructure Renewal and Public Works at its meeting held November 7, 2016 and, if approved, will continue on to Executive Policy Committee then Council for approval. This new project is also included in the 2017 capital budget.

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Capital Projects Funded by Federal Gas Tax

Department - Project	(In thousands of dollars)					
	2017	2018	2019	2020	2021	2022
Public Works - Chief Peguis Trail - Henderson Highway to Lagimodiere Boulevard - On-going P3 payments	6,325	6,280	6,077	6,065	5,965	5,950
Public Works - Disraeli Bridge and Overpass Facility - On-going P3 payments	17,415	17,385	14,238	12,550	12,700	12,700
Public Works - Regional and Local Street Renewal	12,276	13,886	17,236	18,936	18,886	18,901
Transit - Transit Buses	-	-	18,900	6,397	6,397	6,397
TOTAL PROJECTS FUNDED BY FEDERAL GAS TAX	**36,016**	**37,551**	**56,451**	**43,948**	**43,948**	**43,948**
RECONCILIATION:						
Federal Gas Tax, capital forecast	41,950	43,948	43,948	43,948	43,948	43,948
Federal Gas Tax Reserve Surplus, primarily interest revenue	172					
Transit Buses deferral	(6,106)	(6,397)	12,503			
Total Federal Gas Tax	**36,016**	**37,551**	**56,451**	**43,948**	**43,948**	**43,948**