



CAPITAL BUDGET 2021

CAPITAL FORECAST FOR 2022 TO 2030

CAPITAL PROJECT INFORMATION SHEETS

**CAPITAL BUDGET 2021
CAPITAL FORECAST FOR 2022 TO 2030
CAPITAL PROJECT INFORMATION SHEETS
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Introduction

Project Classification:

The following Asset Classifications are denoted beside the individual project names on the Capital Budget Summary Sheets:

- a. **Asset Improvement and Maintenance (AIM):** These projects address existing capital assets and major repairs, rehabilitation and maintenance to City infrastructure, facilities and equipment. These investments are intended to support expected asset life cycles, replacement of assets that have reached their end of life, and technological upgrades to assist in managing operating costs and improve on the delivery of services.
- b. **Strategic Investments (SI):** These projects include those that improve, enhance or expand the level of service offered to the community.
- c. **Growth (G):** Projects that primarily address increased demands for services or are to stimulate growth and development of the City.

It is important to note that it is possible for some projects to be related to more than one of the above categories; however, these projects have been included in the category for which the majority of the project falls.

Project Funding from Other Sources:

Projects that have either reserve and/or third party funding allocated are identified by either an (R) or an (F) beside the project name on the Capital Budget Summary Sheets as follows:

- a. **Reserve Funding (R):** The City has certain reserves that can be used to fund capital projects. Some reserves that are included in the annual budget include Development Charges and Merrick Landfill.
- b. **Grants and Other Funding Sources (F):** Projects included in the capital budget that have associated grants identified are only to proceed if the grant is approved. Otherwise the project will be cancelled or funds will be reallocated from other projects with Council approval.

**2021 GENERAL
CAPITAL BUDGET SUMMARY AND
CAPITAL FORECAST FOR 2022 TO 2030**

2021 General Capital Budget and Capital Forecast for 2022 to 2030 by Business Unit

Project Number/Description	Project Classification	LTD Approved Budget	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	Total	
Community Services														
3508PR - Parks and Playgrounds - New Neighbourhood Parks	R	G	-	-	200,000	-	-	200,000	-	-	200,000	-	-	600,000
3509PZ - Official Plan 5 Year Review and Study Update		SI	350,000	-	-	-	-	-	250,000	-	-	-	-	600,000
3702PR - Waterfront Building Rehab and Development		G	-	-	-	200,000	1,800,000	-	-	-	-	-	-	2,000,000
3711RF - City of North Bay Community and Recreation Centre		G	6,000,000	17,000,000	16,975,000	-	-	-	-	-	-	-	-	39,975,000
3823FD - Fire Master Plan		SI	-	-	50,000	-	-	-	-	-	-	-	-	50,000
3938PR - Olmsted Beach - Boat Launch Replacement		AIM	-	-	-	50,000	550,000	-	-	-	-	-	-	600,000
3942RF - Omischl Sports Complex - Synthetic Turf Replacement		AIM	-	-	-	600,000	-	600,000	-	-	-	-	-	1,200,000
3943RF - Omischl Sports Complex - Shade Structures Development		AIM	171,136	-	-	100,000	-	-	-	-	-	-	-	271,136
3945RF - Amelia Field Renovation & Lighting Upgrades		AIM	25,000	-	-	375,000	-	-	-	-	-	-	-	400,000
3946RF - Johnson Field Renovation & Lighting Upgrades		AIM	-	25,000	-	-	375,000	-	-	-	-	-	-	400,000
4013FD - Fire Station 1 - Roof Replacement		AIM	-	-	124,200	-	-	-	-	-	-	-	-	124,200
4104PZ - Infrastructure Background Study Update and Special Area Charge Study		SI	-	408,000	-	-	-	-	-	-	-	-	-	408,000
4119RF - Arenas - Memorial Gardens East and West Concourse Roof Replacement		AIM	-	-	-	-	-	-	-	25,500	510,000	-	-	535,500
4120PZ - Electronic Building Permit Application Submission Program		G	-	-	150,000	-	-	-	-	-	-	-	-	150,000
4122PR - Omischl Park Feasibility - Volleyball Courts Relocation		SI	-	100,000	-	-	-	-	-	-	-	-	-	100,000
4123PR - Active Transportation Projects		SI	-	100,000	-	-	-	-	-	-	-	-	-	100,000
6552PR - Central City Rehab Program 2021 On-going		AIM	-	80,000	82,000	84,000	86,000	88,000	90,000	92,000	94,000	96,000	96,000	888,000
6564FD - Fire Bunker Gear Replacement Program 2021 On-going		AIM	-	189,000	-	-	-	-	243,225	-	-	-	-	432,225

2021 General Capital Budget and Capital Forecast for 2022 to 2030 by Business Unit

Project Number/Description	Project Classification	LTD Approved Budget	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	Total	
Community Services														
6565FD - Fire Equipment Replacement 2021 On-going	AIM	-	73,500	63,000	84,000	63,000	84,000	63,000	47,250	66,150	84,000	84,000	711,900	
6566FD - Fire Facilities Management Program 2021 On-going	AIM	-	-	89,250	-	94,500	-	99,750	-	105,000	-	105,000	493,500	
6572RF - Memorial Gardens Rehab 2021 On-going	AIM	-	300,000	300,000	300,000	225,000	250,000	275,000	300,000	300,000	300,000	300,000	2,850,000	
6577RF - Omischl Sports Complex Rehab Program 2021 On-going	AIM	-	58,000	60,000	62,000	64,000	66,000	68,000	70,000	72,000	75,000	75,000	670,000	
6580PR - Parks and Playground Rehab Program 2021 On-going	AIM	-	284,000	293,000	302,000	311,000	320,000	329,000	338,000	347,000	360,000	360,000	3,244,000	
6582PR - Parks Equipment Replacement Program 2021 On-going	AIM	-	47,000	49,000	51,000	53,000	55,000	57,000	59,000	61,000	63,000	63,000	558,000	
6584RF - Pete Palangio Rehab Program 2021 On-going	AIM	-	250,000	250,000	250,000	150,000	150,000	250,000	250,000	250,000	250,000	250,000	2,300,000	
6586RF - Recreation Facilities Rehab and Development 2021 On-going	AIM	-	250,000	325,000	750,000	750,000	750,000	750,000	750,000	750,000	750,000	750,000	6,575,000	
6598PR - Trail and Supporting Hard Surfaces Rehab 2021 On-going	AIM	-	242,000	249,000	256,000	264,000	272,000	290,000	298,000	306,000	315,000	315,000	2,807,000	
6605PR - Waterfront Rehab Program 2021 On-going	AIM	-	125,000	129,000	133,000	137,000	141,000	145,000	149,000	153,000	160,000	160,000	1,432,000	
Total Community Services		6,546,136	19,531,500	19,388,450	3,597,000	4,922,500	2,976,000	2,909,975	2,353,250	2,729,650	2,963,000	2,558,000	70,475,461	
Corporate Services														
3912GG - Integrated Software Solution	R	AIM	-	84,000	3,000,000	-	-	-	-	-	-	-	3,084,000	
6596GG - System Technology Program 2021 On-going		AIM	-	595,680	611,310	642,600	642,600	642,600	642,600	642,600	642,600	642,600	6,347,790	
Total Corporate Services			-	679,680	3,611,310	642,600	642,600	642,600	642,600	642,600	642,600	642,600	9,431,790	
General Government														
3216GG - Capital Financing		SI	3,836,785	509,707	503,713	492,511	515,522	536,881	278,562	285,449	292,595	298,319	307,022	7,857,066
Total General Government			3,836,785	509,707	503,713	492,511	515,522	536,881	278,562	285,449	292,595	298,319	307,022	7,857,066
Infrastructure & Operations														
3302ST - Trunk Sewer Rehab - Pinewood Fingers Creek		AIM	-	-	-	-	-	200,000	-	-	-	-	200,000	
3405PK - Parking Property Acquisition Program	R	SI	-	300,000	-	-	300,000	-	-	300,000	-	-	900,000	

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Infrastructure & Operations													
3506ST - Stormwater Management - Overland Flow Control Study	AIM	-	-	-	-	100,000	-	-	-	-	-	-	100,000
3518PR - King's Landing Commercialization of Waterfront	F	SI	734,331	-	-	-	1,000,000	5,100,000	5,100,000	5,100,000	-	-	17,034,331
3700RD - Seymour St. - Station to Wallace - Widening and Signals	G	-	-	-	-	180,000	-	3,400,000	-	-	-	-	3,580,000
3700ST - Seymour St. - Station to Wallace - Widening and Signals	G	-	-	-	-	70,000	-	1,300,000	-	-	-	-	1,370,000
3701RD - Norman/Chapais Connection Watermain	SI	-	-	-	-	-	-	100,000	-	-	-	-	100,000
3701ST - Norman/Chapais Connection Watermain	SI	-	-	-	-	-	-	40,000	-	-	-	-	40,000
3715RD - Pinewood Park & Lakeshore Drive Intersection Reconstruction	R, F	G	600,000	-	-	3,900,000	-	-	-	-	-	-	4,500,000
3801RD - McKeown Ave. Widening - Gormanville to Cartier	F	G	300,000	-	5,500,000	-	-	-	-	-	-	-	5,800,000
3801ST - McKeown Ave. Widening - Gormanville to Cartier	G	-	50,000	-	725,000	-	-	-	-	-	-	-	775,000
3802RD - Lakeshore Dr. - Trunk Watermain and Sewer - Phase 2 - Gertrude to Marshall	AIM	-	-	-	-	-	-	-	-	350,000	-	6,600,000	6,950,000
3802ST - Lakeshore Dr. - Trunk Watermain and Sewer - Phase 2 - Gertrude to Marshall	AIM	-	-	-	-	-	-	-	-	80,000	-	1,500,000	1,580,000
3805GD - Leachate Management - Future Cells	R	G	1,995,000	-	-	250,000	-	2,200,000	-	-	-	250,000	4,695,000
3809RD - Hammond St. Bridge Replacement	AIM	30,000	800,000	-	-	-	-	-	-	-	-	-	830,000
3810RD - Main St. - Gormanville to Memorial	G	-	-	-	-	-	-	-	-	170,000	-	3,200,000	3,370,000
3810ST - Main St. - Gormanville to Memorial	G	-	-	-	-	-	-	-	-	60,000	-	1,100,000	1,160,000
3812RD - Lakeshore Dr. (ONR Overpass)	AIM	-	-	-	-	-	-	25,000	-	250,000	-	-	275,000
3813RD - Trout Lake Rd. (ONR Overpass)	AIM	-	-	-	-	-	-	25,000	-	250,000	-	-	275,000

2021 General Capital Budget and Capital Forecast for 2022 to 2030 by Business Unit

Project Number/Description	Project Classification	LTD Approved Budget	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	Total	
Infrastructure & Operations														
3814RD - Lees Road Reconstruction	AIM	200,000	-	2,400,000	-	2,200,000	-	-	-	-	-	-	4,800,000	
3815RD - Trout Lake Road Retaining Wall Replacement	AIM	-	-	50,000	-	-	-	1,250,000	1,250,000	-	-	-	2,550,000	
3815ST - Trout Lake Road Retaining Wall Replacement	AIM	-	-	15,000	-	-	-	-	250,000	-	-	-	265,000	
3818RD - Premier Pumping Station Replacement	AIM	200,000	-	450,000	-	-	-	-	-	-	-	-	650,000	
3830GD - Merrick Landfill Gas (LFG) Collection Infrastructure	R	G	-	150,000	600,000	-	-	150,000	650,000	-	-	150,000	-	1,700,000
3831ST - Stormwater Outfall Repair and Rehabilitation	AIM	-	250,000	50,000	-	200,000	-	-	-	-	-	-	500,000	
3900RD - Cedar Heights Rd. - Highway 11 to Larocque Urban Upgrade and Watermain	SI	-	140,000	-	-	-	-	2,700,000	-	110,000	-	-	2,950,000	
3900ST - Cedar Heights Rd. - Highway 11 to Larocque Urban Upgrade and Watermain	SI	-	40,000	-	-	-	-	700,000	-	50,000	-	-	790,000	
3908ST - Trunk Sewer Rehab - Eastview Tributary System	AIM	-	-	-	-	100,000	-	1,000,000	-	-	-	-	1,100,000	
3909RD - Worthington, Wyld, Sherbrooke, Second 4" Watermain Replacement	AIM	-	-	-	-	-	130,000	-	2,400,000	-	-	-	2,530,000	
3909ST - Worthington, Wyld, Sherbrooke, Second 4" Watermain Replacement	AIM	-	-	-	-	-	50,000	-	900,000	-	-	-	950,000	
3910ST - Chippewa Creek and Airport Heights Stormwater Retention	G	-	-	50,000	-	2,500,000	-	-	-	-	-	-	2,550,000	
3911RD - Four Mile Lake Rd. Extension to Highway 11	F	G	-	-	-	620,000	-	-	11,800,000	-	-	-	12,420,000	
3913RD - Ivanhoe Drive Reconstruction - Sage to Rita	AIM	70,000	1,900,000	-	-	-	-	-	-	-	-	-	1,970,000	
3913ST - Ivanhoe Drive Reconstruction - Sage to Rita	AIM	30,000	700,000	-	-	-	-	-	-	-	-	-	730,000	
3917RD - Third Avenue - Cassells to Front	AIM	30,000	600,000	-	-	-	-	-	-	-	-	-	630,000	
3917ST - Third Avenue - Cassells to Front	AIM	20,000	400,000	-	-	-	-	-	-	-	-	-	420,000	

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Infrastructure & Operations													
3919RD - Metcalfe St - Laurier to End	AIM	-	40,000	700,000	-	-	-	-	-	-	-	-	740,000
3919ST - Metcalfe St - Laurier to End	AIM	-	30,000	500,000	-	-	-	-	-	-	-	-	530,000
3920RD - O'Brien Street - Ski Club to Airport & Ski Club Signals	AIM	50,000	1,300,000	-	-	-	-	-	-	-	-	-	1,350,000
3920ST - O'Brien Street - Ski Club to Airport & Ski Club Signals	AIM	20,000	400,000	-	-	-	-	-	-	-	-	-	420,000
3926GD - Merrick Landfill Lifecycle Extension Environmental Assessment	R AIM	-	500,000	-	-	-	-	-	-	500,000	7,500,000	-	8,500,000
3931RD - Ellendale Second Feed	SI	30,000	300,000	-	-	-	-	-	-	-	-	-	330,000
3932RD - Lakeshore Dr. - Jessups Creek to Premier Road	AIM	110,000	-	-	800,000	800,000	-	-	-	-	-	-	1,710,000
3932ST - Lakeshore Dr. - Jessups Creek to Premier Road	AIM	30,000	-	-	400,000	400,000	-	-	-	-	-	-	830,000
3934RD - Main St. Paving Stone Replacement	AIM	150,000	-	2,000,000	1,900,000	-	-	-	-	-	-	-	4,050,000
3934ST - Main St. Paving Stone Replacement	AIM	50,000	-	100,000	-	-	-	-	-	-	-	-	150,000
4005RD - Pinewood Park Drive Continuous Left Turn Lane (Lakeshore Drive to Decaire Road)	G	-	-	-	-	90,000	-	-	1,600,000	-	-	-	1,690,000
4006RD - Trout Lake Road (Mountainview Drive to Lees Road)	F AIM	-	3,900,000	-	-	-	-	-	-	-	-	-	3,900,000
4016TR - Transit Terminal Rehabilitation	F AIM	86,250	-	86,250	86,250	-	-	-	-	-	-	-	258,750
4018TR - Transit Fleet Garage and Bus Barn Upgrades: Health and Safety	F AIM	124,555	-	183,957	10,000	63,000	-	-	-	-	-	-	381,512
4019TR - Specialized Transit (Para) AVL	F SI	52,500	78,750	-	-	-	-	-	-	-	-	-	131,250
4020TR - New Bus Shelters and Digital Signage	F SI	63,000	-	219,240	-	158,761	-	-	-	-	-	-	441,001
4021TR - Construction of Sidewalks for Transit Routes	F SI	1,769,000	1,748,895	1,330,802	1,728,434	2,001,950	1,298,624	-	-	-	-	-	9,877,705

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Project Number/Description	Project Classification	LTD Approved Budget	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	Total
Infrastructure & Operations													
4022TR - Transit Fleet Garage and Bus Barn Upgrades: Central Vacuum System and Doors	F	AIM	58,269	62,500	-	-	-	-	-	-	-	-	120,769
4025RD - Booth Road & Lakeshore Drive Intersection Reconstruction		G	-	150,000	2,000,000	-	-	-	-	-	-	-	2,150,000
4027TR - Bicycle Racks and Related Storage Areas for Transit Riders	F	AIM	-	84,000	52,500	-	-	-	-	-	-	-	136,500
4032RD - O'Brien St. Reconstruction - Cassells to Ski Club		AIM	-	-	-	-	-	410,000	-	-	-	3,900,000	4,310,000
4032ST - O'Brien St. Reconstruction - Cassells to Ski Club		AIM	-	-	-	-	-	150,000	-	-	-	1,500,000	1,650,000
4033RD - Roadside Guardrails and Retaining Walls - Inspection and Upgrade		AIM	-	400,000	-	-	-	400,000	-	-	-	-	800,000
4034RD - Road Condition Inspection		AIM	-	-	-	-	250,000	-	-	-	250,000	-	500,000
4036ST - Local Drainage Rehab		AIM	-	150,000	-	-	-	-	-	-	-	-	150,000
4101GG - City Hall Accessibility Upgrades		AIM	-	-	100,000	900,000	-	-	-	-	-	-	1,000,000
4105RD - Pearson St. and Bank St. Culverts Replacement		AIM	-	800,000	-	-	-	-	-	-	-	-	800,000
4106RD - Queen St. Culvert Replacement		AIM	-	-	-	600,000	-	-	-	-	-	-	600,000
4107RD - Tower Dr. Hump Removal		AIM	-	-	-	500,000	-	-	-	-	-	-	500,000
4109RD - Trout Lake Rd. & Laurentian Ave. Intersection Reconstruction	F	AIM	-	-	-	3,500,000	-	-	-	-	-	-	3,500,000
4114GD - Merrick Landfill – Storm Water Management Pond		G	-	100,000	-	-	-	-	-	-	-	-	100,000
4115PK - Innovation Hub		G	-	110,000	-	1,000,000	-	-	-	-	-	-	1,110,000
4115RD - Innovation Hub		G	-	40,000	-	700,000	-	-	-	-	-	-	740,000
4115ST - Innovation Hub		G	-	20,000	-	400,000	-	-	-	-	-	-	420,000

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Infrastructure & Operations													
4117RD - West Peninsula Rd. and Viceroy Rd. Rehab	AIM	-	691,000	-	-	-	-	-	-	-	-	-	691,000
4121RD - Lamorie St. Bridge Rehab	AIM	-	100,000	-	600,000	-	-	-	-	-	-	-	700,000
4124RD - Francis St. Sewer Upsizing (Surrey to Greenhill)	G	-	-	-	-	-	-	110,000	-	-	2,100,000	-	2,210,000
4124ST - Francis St. Sewer Upsizing (Surrey to Greenhill)	G	-	-	-	-	-	-	70,000	-	-	1,300,000	-	1,370,000
4125RD - Lakeshore Dr. Area - Trunk Watermain and Sewer - Phase 1 - Judge to Gertrude	R	AIM	-	-	620,000	-	3,400,000	-	3,400,000	-	-	-	7,420,000
4125ST - Lakeshore Dr. Area - Trunk Watermain and Sewer - Phase 1 - Judge to Gertrude	R	AIM	-	-	140,000	-	750,000	-	750,000	-	-	-	1,640,000
4201PK - Downtown Parking Facilities	SI	-	-	-	-	-	-	-	-	500,000	5,250,000	-	5,750,000
4300RD - Airport Industrial Park Expansion	F	G	-	-	-	-	-	590,000	-	11,200,000	-	-	11,790,000
4300ST - Airport Industrial Park Expansion	F	G	-	-	-	-	-	50,000	-	800,000	-	-	850,000
4401RD - Sage Rd. Reconstruction to Collector Standard	G	-	-	-	-	-	-	-	-	250,000	-	-	250,000
4401ST - Sage Rd. Reconstruction to Collector Standard	G	-	-	-	-	-	-	-	-	90,000	-	-	90,000
4500RD - Franklin & John Trunk Watermain	SI	-	-	-	-	-	-	290,000	-	5,400,000	-	-	5,690,000
4500ST - Franklin & John Trunk Watermain	SI	-	-	-	-	-	-	110,000	-	2,000,000	-	-	2,110,000
6546RF - Aquatic Centre Rehab Program 2021 On-going	AIM	-	100,000	150,000	105,000	110,000	115,000	120,000	125,000	130,000	135,000	135,000	1,225,000
6547RD - Asphalt Resurfacing 2021 On-going	AIM	-	3,600,000	3,600,000	3,600,000	3,600,000	3,600,000	3,600,000	3,600,000	3,600,000	3,600,000	3,600,000	36,000,000
6548RD - Asphalt Sheeting 2021 On-going	AIM	-	138,000	142,000	146,000	146,000	146,000	146,000	146,000	150,000	150,000	150,000	1,460,000
6549RD - Asset Management 2021 On-going	AIM	-	25,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	475,000
6550RD - Bridge Rehab 2021 On-going	AIM	-	225,000	232,000	239,000	246,000	253,000	261,000	269,000	277,000	290,000	290,000	2,582,000

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Infrastructure & Operations													
6553GG - City Hall Building Rehab 2021 On-going	AIM	-	300,000	300,000	300,000	300,000	145,000	150,000	155,000	300,000	300,000	300,000	2,550,000
6554PR - City Hall Grounds Rehab Program 2021 On-going	AIM	-	50,000	342,000	-	170,000	-	178,000	-	186,000	96,000	96,000	1,118,000
6555RD - City Share of Development Costs 2021 On-going	G	-	312,000	144,000	331,000	341,000	351,000	362,000	373,000	384,000	395,000	395,000	3,388,000
6557RD - Design Work Next Year's Projects 2021 On-going	AIM	-	151,000	156,000	161,000	166,000	171,000	176,000	181,000	186,000	190,000	190,000	1,728,000
6557ST - Design Work Next Year's Projects 2021 On-going	AIM	-	17,000	17,000	18,000	18,000	19,000	19,000	20,000	20,000	20,000	20,000	188,000
6559ST - Ditch Enclosure 2021 On-going	AIM	-	200,000	200,000	200,000	200,000	200,000	300,000	300,000	309,000	310,000	310,000	2,529,000
6560RD - Downtown Roads Maintenance 2021 On-going	AIM	-	103,000	106,000	109,000	112,000	115,000	118,000	122,000	126,000	130,000	130,000	1,171,000
6562RD - Engineering Data and Equipment 2021 On-going	SI	-	20,000	20,000	20,000	20,000	20,000	20,000	20,000	20,000	20,000	20,000	200,000
6563RD - Equipment Replacement 2021 On-going	AIM	-	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	100,000
6569ST - Infrastructure Modelling 2021 On-going	AIM	-	100,000	-	-	-	10,000	-	-	-	10,000	-	120,000
6570MR - King's Landing and Marina Rehab Program 2021 On-going	AIM	-	100,000	150,000	200,000	150,000	150,000	100,000	100,000	100,000	100,000	100,000	1,250,000
6578PK - Parking Equipment Program 2021 On-going	AIM	-	-	125,000	-	-	125,000	-	-	125,000	-	-	375,000
6579PK - Parking Lot Maintenance and Improvement Program 2021 On-going	AIM	-	50,000	50,000	50,000	50,000	50,000	50,000	55,000	55,000	60,000	60,000	530,000
6583RD - Pedestrian Safety Program 2021 On-going	AIM	-	88,000	92,000	96,000	96,000	96,000	146,000	146,000	150,000	155,000	155,000	1,220,000
6585RD - Public Works Building Maintenance 2021 On-going	AIM	-	30,000	50,000	50,000	50,000	50,000	50,000	50,000	52,000	55,000	55,000	492,000
6587RD - Road Culvert Replace/Rehab 2021 On-going	AIM	-	209,000	215,000	221,000	221,000	221,000	221,000	221,000	228,000	230,000	230,000	2,217,000
6588RD - Rural Road Rehab 2021 On-going	AIM	-	-	712,000	733,000	733,000	733,000	733,000	733,000	755,000	755,000	755,000	6,642,000
6593RD - Sidewalk Replacement Program 2021 On-going	AIM	-	109,000	115,000	121,000	121,000	121,000	221,000	221,000	228,000	230,000	230,000	1,717,000

2021 General Capital Budget and Capital Forecast for 2022 to 2030 by Business Unit

Project Number/Description	Project Classification	LTD Approved Budget	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	Total
Infrastructure & Operations													
6594ST - Storm Sewer Flushing and Outfall Maintenance 2021 On-going	AIM	-	79,000	81,000	83,000	85,000	88,000	91,000	94,000	97,000	100,000	100,000	898,000
6595SL - Street Light Replacement 2021 On-going	AIM	-	5,000	5,000	5,000	5,000	5,000	10,000	10,000	10,000	15,000	15,000	85,000
6597SL - Traffic Control Signal Upgrade 2021 On-going	AIM	-	209,000	215,000	221,000	221,000	221,000	221,000	221,000	228,000	230,000	230,000	2,217,000
6599TR - Transit Buildings Capital Program 2021 On-going	AIM	-	26,250	26,250	26,250	26,250	26,250	26,250	26,250	27,500	27,500	27,500	266,250
6608RD - Interlocking Brick Sidewalk & Retaining Wall Replacement 2021 Ongoing	AIM	-	100,000	100,000	100,000	100,000	100,000	-	-	-	-	-	500,000
Total Infrastructure & Operations		6,852,905	22,641,395	24,517,999	20,629,934	22,730,961	20,519,874	26,049,250	34,998,250	29,863,500	24,463,500	25,453,500	258,721,068
Service Partners													
6483AA - Cassellholme Redevelopment	SI	125,000	400,000	900,000	1,686,500	1,686,500	1,686,500	1,686,500	1,686,500	1,686,500	1,686,500	1,686,500	14,917,000
6551OC - Capitol Centre 2021 On-going	AIM	-	154,020	204,000	204,000	204,000	204,000	204,000	204,000	204,000	204,000	204,000	1,990,020
6573AT - North Bay Jack Garland Airport 2021 On-going	AIM	-	555,900	561,000	555,900	612,000	5,202,000	586,500	566,100	561,000	561,000	566,100	10,327,500
6574CA - North Bay Mattawa Conservation Authority 2021 On-going	AIM	-	992,362	1,012,167	1,008,951	1,021,129	1,034,411	1,046,249	1,059,047	1,066,372	1,076,079	1,086,574	10,403,341
6575PD - North Bay Police Services 2021 On-going	R AIM	-	2,126,700	2,050,200	827,220	861,900	887,400	852,720	887,400	810,900	776,220	776,220	10,856,880
6576LB - North Bay Public Library 2021 On-going	AIM	-	500,000	500,000	500,000	500,000	500,000	500,000	500,000	500,000	500,000	500,000	5,000,000
Total Service Partners		125,000	4,728,982	5,227,367	4,782,571	4,885,529	9,514,311	4,875,969	4,903,047	4,828,772	4,803,799	4,819,394	53,494,741
Total General Capital Budget		17,360,826	48,091,264	53,248,839	30,144,616	33,697,112	34,189,666	34,756,356	43,182,596	38,357,117	33,171,218	33,780,516	399,980,126
Reserve Funding (R)													
3405PK - Parking Property Acquisition Program		-	(300,000)	-	-	(300,000)	-	-	(300,000)	-	-	-	(900,000)
3508PR - Parks and Playgrounds - New Neighbourhood Parks		-	-	(200,000)	-	-	(70,600)	-	-	-	-	-	(270,600)
3805GD - Leachate Management - Future Cells		(115,000)	-	-	(100,000)	-	(755,000)	-	-	-	(140,000)	-	(1,110,000)
3830GD - Merrick Landfill Gas (LFG) Collection Infrastructure		-	(150,000)	(600,000)	-	-	(150,000)	(650,000)	-	-	(150,000)	-	(1,700,000)

2021 General Capital Budget and Capital Forecast for 2022 to 2030 by Business Unit

Project Number/Description	Project Classification	LTD Approved Budget	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	Total
Reserve Funding (R)													
3912GG - Integrated Software Solution		-	-	(469,914)	-	-	-	-	-	-	-	-	(469,914)
3926GD - Merrick Landfill Lifecycle Extension Environmental Assessment		-	(500,000)	-	-	-	-	-	-	(500,000)	(90,000)	-	(1,090,000)
3715RD - Pinewood Park & Lakeshore Drive Intersection Reconstruction		-	-	-	(200,000)	-	-	-	-	-	-	-	(200,000)
4125RD - Lakeshore Dr. Area - Trunk Watermain and Sewer - Phase 1 - Judge to Gertrude		-	-	-	(130,000)	-	-	-	-	-	-	-	(130,000)
4125ST - Lakeshore Dr. Area - Trunk Watermain and Sewer - Phase 1 - Judge to Gertrude		-	-	-	(70,000)	-	-	-	-	-	-	-	(70,000)
6575PD - North Bay Police Services 2021 On-going		-	(150,000)	(150,000)	-	-	-	-	-	-	-	-	(300,000)
Total Reserve Funding		(115,000)	(1,100,000)	(1,419,914)	(500,000)	(300,000)	(975,600)	(650,000)	(300,000)	(500,000)	(380,000)	-	(6,240,514)
Grants and Other Funding Sources (F)													
3518PR - King's Landing Commercialization of Waterfront		(559,330)	-	-	-	-	(3,400,000)	(3,400,000)	(3,400,000)	-	-	-	(10,759,330)
3715RD - Pinewood Park & Lakeshore Drive Intersection Reconstruction		-	-	-	(1,050,000)	-	-	-	-	-	-	-	(1,050,000)
3801RD - McKeown Ave. Widening - Gormanville to Cartier		(216,137)	-	(4,106,607)	-	-	-	-	-	-	-	-	(4,322,744)
3911RD - Four Mile Lake Rd. Extension to Highway 11		-	-	-	-	-	-	-	(7,800,000)	-	-	-	(7,800,000)
4006RD - Trout Lake Road (Mountainview Drive to Lees Road)		-	(3,000,000)	-	-	-	-	-	-	-	-	-	(3,000,000)
4016TR - Transit Terminal Rehabilitation		(71,872)	-	(71,872)	(71,872)	-	-	-	-	-	-	-	(215,616)
4018TR - Transit Fleet Garage and Bus Barn Upgrades: Health and Safety		(85,796)	-	(140,436)	(7,333)	(46,198)	-	-	-	-	-	-	(279,763)
4019TR - Specialized Transit (Para) AVL		(38,498)	(57,747)	-	-	-	-	-	-	-	-	-	(96,245)
4020TR - New Bus Shelters and Digital Signage		(46,734)	-	(160,232)	-	(116,419)	-	-	-	-	-	-	(323,385)
4021TR - Construction of Sidewalks for Transit Routes		(1,168,656)	(1,166,221)	(876,899)	(1,138,908)	(1,319,135)	(855,696)	-	-	-	-	-	(6,525,515)

2021 General Capital Budget and Capital Forecast for 2022 to 2030 by Business Unit

Project Number/Description	Project Classification	LTD Approved Budget	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	Total
Grants and Other Funding Sources (F)													
4022TR - Transit Fleet Garage and Bus Barn Upgrades: Central Vacuum System and Doors		(48,556)	(52,081)	-	-	-	-	-	-	-	-	-	(100,637)
4027TR - Bicycle Racks and Related Storage Areas for Transit Riders		-	(61,597)	(38,498)	-	-	-	-	-	-	-	-	(100,095)
4109RD - Trout Lake Rd. & Laurentian Ave. Intersection Reconstruction		-	-	-	-	(3,000,000)	-	-	-	-	-	-	(3,000,000)
4300RD - Airport Industrial Park Expansion		-	-	-	-	-	-	-	-	(7,390,864)	-	-	(7,390,864)
4300ST - Airport Industrial Park Expansion		-	-	-	-	-	-	-	-	(527,918)	-	-	(527,918)
Ontario Community Infrastructure Fund		-	(2,632,581)	(2,632,581)	(2,632,581)	(2,632,581)	(2,632,581)	(2,632,581)	(2,632,581)	(2,632,581)	(2,632,581)	(2,632,581)	(26,325,810)
Total Grants and Other Funding Sources		(2,235,579)	(6,970,227)	(8,027,125)	(4,900,694)	(7,114,333)	(6,888,277)	(6,032,581)	(13,832,581)	(10,551,363)	(2,632,581)	(2,632,581)	(71,817,922)
Net General Capital Budget		15,010,247	40,021,037	43,801,800	24,743,922	26,282,779	26,325,789	28,073,775	29,050,015	27,305,754	30,158,637	31,147,935	321,921,690
Capital Funding Policy Limit													
Capital Levy in Operating Budget		(13,715,309)	(13,415,608)	(12,713,362)	(13,863,920)	(14,931,868)	(15,944,016)	(16,632,674)	(17,347,286)	(17,919,655)	(18,790,030)	(18,790,030)	(155,273,728)
Debenture and Long-term Debt		(8,500,000)	(8,500,000)	(8,500,000)	(8,500,000)	(8,500,000)	(8,500,000)	(8,500,000)	(8,500,000)	(8,500,000)	(8,500,000)	(8,500,000)	(85,000,000)
Special Debt for Community Centre		(12,880,000)	(18,800,000)	-	-	-	-	-	-	-	-	-	(31,680,000)
Federal Gas Tax Top-up for Community Centre		(2,050,000)	-	-	-	-	-	-	-	-	-	-	(2,050,000)
Federal Gas Tax		(3,270,023)	(3,270,023)	(3,412,198)	(3,412,198)	(3,412,198)	(3,412,198)	(3,412,198)	(3,412,198)	(3,412,198)	(3,412,198)	(3,412,198)	(33,837,630)
Target Policy for Net Expenditures		(40,415,332)	(43,985,631)	(24,625,560)	(25,776,118)	(26,844,066)	(27,856,214)	(28,544,872)	(29,259,484)	(29,831,853)	(30,702,228)	(30,702,228)	(307,841,358)
Less Memorial Gardens Remaining Ten Year Commitment		400,000	300,000	-	-	-	-	-	-	-	-	-	700,000
Adjusted Target Policy		(40,015,332)	(43,685,631)	(24,625,560)	(25,776,118)	(26,844,066)	(27,856,214)	(28,544,872)	(29,259,484)	(29,831,853)	(30,702,228)	(30,702,228)	(307,141,358)
(\$ Available) \$Funding Needed		5,705	116,169	118,362	506,661	(518,277)	217,561	505,143	(1,953,730)	326,784	445,707	445,707	(229,915)

**2021 WATER AND WASTEWATER
CAPITAL BUDGET SUMMARY AND
CAPITAL FORECAST FOR 2022 TO 2030**

2021 Water and Wastewater Capital Budget and Capital Forecast for 2022 to 2030 by Business Unit

Project Number/Description	Project Classification	LTD Approved Budget	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	Total
Wastewater													
3700SS - Seymour St. - Station to Wallace - Widening and Signals	G	-	-	-	-	60,000	-	1,100,000	-	-	-	-	1,160,000
3719SS - Digester Replacement	AIM	900,000	1,700,000	400,000	-	-	-	-	-	-	-	-	3,000,000
3801SS - McKeown Ave. Widening - Gormanville to Cartier	R G	75,000	-	1,175,000	-	-	-	-	-	-	-	-	1,250,000
3802SS - Lakeshore Dr. - Trunk Watermain and Sewer - Phase 2 - Gertrude to Marshall	AIM	-	-	-	-	-	-	-	-	160,000	-	3,000,000	3,160,000
3810SS - Main St. - Gormanville to Memorial	G	-	-	-	-	-	-	-	-	220,000	-	4,100,000	4,320,000
3818SS - Premier Pumping Station Replacement	AIM	480,000	-	2,370,000	-	-	-	-	-	-	-	-	2,850,000
3825SS - Wastewater Treatment Plant - Intake Chamber Replacement	AIM	-	-	200,000	2,800,000	1,700,000	-	-	-	-	-	-	4,700,000
3826SS - Pumping Station Replacement	AIM	-	-	-	2,500,000	5,000,000	-	-	1,500,000	5,000,000	2,500,000	3,500,000	20,000,000
3829SS - Wastewater Treatment Plant - Structural Repair	R AIM	306,257	689,582	490,000	950,000	500,000	-	-	-	-	-	-	2,935,839
3900SS - Cedar Heights Rd. - Highway 11 to Larocque Urban Upgrade and Watermain	SI	-	80,000	-	-	-	-	1,500,000	-	20,000	-	-	1,600,000
3909SS - Worthington, Wyld, Sherbrooke, Second 4" Watermain Replacement	AIM	-	-	-	-	-	50,000	-	900,000	-	-	-	950,000
3913SS - Ivanhoe Drive Reconstruction - Sage to Rita	AIM	30,000	700,000	-	-	-	-	-	-	-	-	-	730,000
3917SS - Third Avenue - Cassells to Front	AIM	20,000	400,000	-	-	-	-	-	-	-	-	-	420,000
3919SS - Metcalfe St - Laurier to End	AIM	-	30,000	-	-	-	-	-	-	-	-	-	30,000
3920SS - O'Brien Street - Ski Club to Airport & Ski Club Signals	AIM	20,000	400,000	-	-	-	-	-	-	-	-	-	420,000
3928SS - Wastewater Treatment Plant - Roof Rehab	AIM	250,000	-	-	250,000	250,000	-	250,000	-	250,000	-	-	1,250,000
3932SS - Lakeshore Dr. - Jessups Creek to Premier Road	AIM	40,000	-	-	825,000	825,000	-	-	-	-	-	-	1,690,000
3935SS - Marshall 500 mm Forcemain Condition Assessment and Rehab	AIM	-	-	500,000	-	-	-	-	-	-	-	-	500,000

2021 Water and Wastewater Capital Budget and Capital Forecast for 2022 to 2030 by Business Unit

Project Number/Description	Project Classification	LTD Approved Budget	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	Total
Wastewater													
4029SS - Wastewater Treatment Plant - Raw Sewage Pumping Station	R	AIM	-	1,100,000	-	-	-	-	-	-	-	-	1,100,000
4030SS - Sanitary Sewer Relining		AIM	-	-	-	400,000	-	200,000	-	-	125,000	-	725,000
4032SS - O'Brien St. Reconstruction - Cassells to Ski Club		AIM	-	-	-	-	-	160,000	-	-	-	1,500,000	1,660,000
4037SS - Sage Area Trunk Sewer Improvements		AIM	-	-	-	500,000	-	3,000,000	-	-	-	-	3,500,000
4103SS - Wastewater Treatment Plant Expansion		AIM	-	-	3,500,000	-	7,000,000	-	-	250,000	9,350,000	-	20,100,000
4110SS - WWTP Ferric Room Upgrades		AIM	-	100,000	-	-	-	-	-	-	-	-	100,000
4112SS - WWTP – Gas Compressor Replacement		AIM	-	60,000	-	-	-	-	-	-	-	-	60,000
4115SS - Innovation Hub		G	-	10,000	-	100,000	-	-	-	-	-	-	110,000
4118SS - King's Landing Pumping Station Replacement		AIM	-	75,000	-	1,500,000	-	-	-	-	-	-	1,575,000
4124SS - Francis St. Sewer Upsizing (Surrey to Greenhill)		G	-	-	-	-	-	80,000	-	-	1,500,000	-	1,580,000
4125SS - Lakeshore Dr. Area - Trunk Watermain and Sewer - Phase 1 - Judge to Gertrude	R	AIM	-	-	-	320,000	-	1,500,000	-	1,500,000	-	-	3,320,000
4202SS - Infiltration Reduction/Flow Monitoring Program - Phase 3		SI	-	200,000	-	-	-	-	-	-	-	-	200,000
4300SS - Airport Industrial Park Expansion	F	G	-	-	-	-	-	150,000	-	2,900,000	-	-	3,050,000
4401SS - Sage Rd. Reconstruction to Collector Standard		G	-	-	-	-	-	-	-	20,000	-	-	20,000
4402SS - Chippewa Trunk Sewer Major Rehabilitation & Replacement		AIM	-	-	-	200,000	-	1,000,000	2,500,000	-	-	-	3,700,000
4500SS - Franklin & John Trunk Watermain		SI	-	-	-	-	-	110,000	-	2,100,000	-	-	2,210,000
6557SS - Design Work Next Year's Projects 2021 On-going		AIM	-	32,000	33,000	34,000	35,000	36,000	37,000	38,000	39,000	40,000	364,000
6558SS - Digester and Grit Removal 2021 On-going		AIM	-	-	-	109,000	-	-	109,000	-	-	109,000	327,000

2021 Water and Wastewater Capital Budget and Capital Forecast for 2022 to 2030 by Business Unit

Project Number/Description	Project Classification	LTD Approved Budget	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	Total
Wastewater													
6562SS - Engineering Data and Equipment 2021 On-going	SI	-	20,000	5,000	5,000	5,000	20,000	5,000	5,000	5,000	20,000	20,000	110,000
6569SS - Infrastructure Modelling 2021 On-going	AIM	-	-	-	-	-	10,000	-	-	-	10,000	-	20,000
6589SS - Sewage Lift Stations 2021 On-going	AIM	-	50,000	50,000	50,000	50,000	50,000	50,000	50,000	52,000	55,000	55,000	512,000
6590SS - Sewage Lift Stations PLC and Radio Upgrades 2021 On-going	AIM	-	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	300,000
6592SS - Sewer Rehab and Restoration 2021 On-going	AIM	-	250,000	250,000	250,000	250,000	250,000	250,000	250,000	258,000	260,000	260,000	2,528,000
6600SS - Wastewater Treatment Plant - Electrical Upgrades 2021 On-going	AIM	-	250,000	200,000	250,000	250,000	250,000	250,000	250,000	258,000	260,000	260,000	2,478,000
6601SS - Wastewater Treatment Plant Exterior Rehab 2021 on-going	AIM	-	300,000	150,000	300,000	-	300,000	-	450,000	-	300,000	-	1,800,000
6602SS - Wastewater Treatment Plant Rehab 2021 On-going	AIM	-	250,000	-	200,000	-	150,000	-	150,000	-	150,000	-	900,000
Total Wastewater		2,121,257	6,726,582	9,353,000	10,473,000	10,055,000	9,646,000	8,281,000	7,623,000	11,562,000	14,709,000	12,765,000	103,314,839
Water													
3319WS - Ellendale Upgrades as per Condition Assessment	AIM	920,392	400,000	-	-	-	-	-	-	-	-	-	1,320,392
3700WS - Seymour St. - Station to Wallace - Widening and Signals	G	-	-	-	-	200,000	-	3,800,000	-	-	-	-	4,000,000
3701WS - Norman/Chapais Connection Watermain	SI	-	-	-	-	-	-	60,000	-	-	-	-	60,000
3801WS - McKeown Ave. Widening - Gormanville to Cartier	R G	75,000	-	1,125,000	-	-	-	-	-	-	-	-	1,200,000
3802WS - Lakeshore Dr. - Trunk Watermain and Sewer - Phase 2 - Gertrude to Marshall	AIM	-	-	-	-	-	-	-	-	160,000	-	3,000,000	3,160,000
3807WS - Ellendale Generator Replacement	AIM	313,527	886,473	-	-	-	-	-	-	-	-	-	1,200,000
3810WS - Main St. - Gormanville to Memorial	G	-	-	-	-	-	-	-	-	60,000	-	1,200,000	1,260,000
3900WS - Cedar Heights Rd. - Highway 11 to Larocque Urban Upgrade and Watermain	SI	-	90,000	-	-	-	-	1,800,000	-	100,000	-	-	1,990,000
3905WS - Cedar Heights Rd. - Larocque BPS	G	-	-	-	-	50,000	-	-	4,000,000	-	-	-	4,050,000

2021 Water and Wastewater Capital Budget and Capital Forecast for 2022 to 2030 by Business Unit

Project Number/Description	Project Classification	LTD Approved Budget	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	Total
Water													
3909WS - Worthington, Wyld, Sherbrooke, Second 4" Watermain Replacement	AIM	-	-	-	-	-	50,000	-	1,000,000	-	-	-	1,050,000
3912WS - Integrated Software Solution	AIM	-	16,000	2,000,000	-	-	-	-	-	-	-	-	2,016,000
3913WS - Ivanhoe Drive Reconstruction - Sage to Rita	AIM	30,000	800,000	-	-	-	-	-	-	-	-	-	830,000
3917WS - Third Avenue - Cassells to Front	AIM	20,000	400,000	-	-	-	-	-	-	-	-	-	420,000
3919WS - Metcalfe St - Laurier to End	AIM	-	30,000	-	-	-	-	-	-	-	-	-	30,000
3920WS - O'Brien Street - Ski Club to Airport & Ski Club Signals	AIM	20,000	400,000	-	-	-	-	-	-	-	-	-	420,000
3931WS - Ellendale Second Feed	SI	50,000	800,000	-	-	-	-	-	-	-	-	-	850,000
3932WS - Lakeshore Dr. - Jessups Creek to Premier Road	AIM	30,000	-	-	725,000	725,000	-	-	-	-	-	-	1,480,000
3936WS - Watermain - Cathodic Protection Program	AIM	-	200,000	-	-	-	-	-	-	-	-	-	200,000
4003WS - Membrane Module Replacement	R AIM	-	-	-	-	1,620,000	1,620,000	-	-	-	-	-	3,240,000
4031WS - Public Works Building Rehab	AIM	-	-	-	-	100,000	-	200,000	-	-	1,000,000	-	1,300,000
4032WS - O'Brien St. Reconstruction - Cassells to Ski Club	AIM	-	-	-	-	-	-	160,000	-	-	-	1,600,000	1,760,000
4102WS - Ellendale Pumping Station Second Feed to Airport	SI	-	-	-	-	200,000	-	-	1,500,000	1,000,000	-	-	2,700,000
4108WS - Unidirectional Flushing Update	AIM	-	125,000	-	-	-	-	-	-	-	-	-	125,000
4111WS - WTP Solar Tank Replacement	AIM	-	100,000	-	-	-	-	-	-	-	-	-	100,000
4113WS - WTP - Brick Repairs	AIM	-	70,000	-	-	-	-	-	-	-	-	-	70,000
4115WS - Innovation Hub	G	-	20,000	-	400,000	-	-	-	-	-	-	-	420,000
4116WS - Judge St. Watermain Upsizing	G	-	797,000	-	-	-	-	-	-	-	-	-	797,000

2021 Water and Wastewater Capital Budget and Capital Forecast for 2022 to 2030 by Business Unit

Project Number/Description	Project Classification	LTD Approved Budget	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	Total	
Water														
4124WS - Francis St. Sewer Upsizing (Surrey to Greenhill)	G	-	-	-	-	-	-	80,000	-	-	1,400,000	-	1,480,000	
4125WS - Lakeshore Dr. Area - Trunk Watermain and Sewer - Phase 1 - Judge to Gertrude	R	AIM	-	-	320,000	-	1,500,000	-	1,500,000	-	-	-	3,320,000	
4300WS - Airport Industrial Park Expansion	F	G	-	-	-	-	-	260,000	-	4,800,000	-	-	5,060,000	
4401WS - Sage Rd. Reconstruction to Collector Standard		G	-	-	-	-	-	-	-	60,000	-	-	60,000	
4500WS - Franklin & John Trunk Watermain		SI	-	-	-	-	-	150,000	-	2,800,000	-	-	2,950,000	
6549WS - Asset Management 2021 On-going		AIM	-	25,000	75,000	75,000	75,000	75,000	75,000	75,000	75,000	75,000	700,000	
6555WS - City Share of Development Costs 2021 On-going		G	-	284,000	293,000	302,000	311,000	320,000	330,000	340,000	350,000	360,000	3,250,000	
6557WS - Design Work Next Year's Projects 2021 On-going		AIM	-	116,000	119,000	122,000	125,000	128,000	132,000	136,000	140,000	140,000	1,298,000	
6563WS - Equipment Replacement 2021 On-going		AIM	-	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	150,000	
6567WS - Flush Watermains 2021 On-going		AIM	-	100,000	200,000	200,000	200,000	200,000	200,000	200,000	206,000	210,000	1,926,000	
6568WS - Hydrant and Valve Rehab 2021 On-going		AIM	-	209,000	215,000	221,000	221,000	221,000	221,000	221,000	228,000	230,000	2,217,000	
6569WS - Infrastructure Modelling 2021 On-going		AIM	-	50,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	95,000	
6585WS - Public Works Building Maintenance 2021 On-going		AIM	-	25,000	25,000	25,000	25,000	25,000	25,000	26,000	26,000	26,000	253,000	
6596WS - System Technology Program 2021 On-going		AIM	-	123,188	127,131	131,072	131,072	131,072	131,072	131,072	135,014	135,014	1,310,721	
6603WS - Water Infrastructure Audit 2021 On-going		AIM	-	69,000	69,000	73,000	73,000	73,000	73,000	73,000	75,000	75,000	728,000	
6604WS - Water Plant Maintenance 2021 On-going		AIM	-	300,000	-	300,000	-	300,000	300,000	300,000	309,000	310,000	2,429,000	
6606WS - Watermain Rehab and Restoration 2021 On-going		AIM	-	-	-	818,000	818,000	818,000	818,000	818,000	843,000	845,000	6,623,000	
6607WS - Watermain Replace/Ream/Reline 2021 On-going		AIM	-	209,000	215,000	221,000	221,000	221,000	221,000	221,000	228,000	230,000	2,217,000	
Total Water			1,458,919	6,659,661	4,483,131	3,953,072	5,115,072	5,702,072	9,056,072	10,560,072	11,615,014	5,056,014	8,456,014	72,115,113
Total Wastewater and Water Capital Budget			3,580,175	13,386,243	13,836,131	14,426,072	15,170,072	15,348,072	17,337,072	18,183,072	23,177,014	19,765,014	21,221,014	175,429,951

2021 Water and Wastewater Capital Budget and Capital Forecast for 2022 to 2030 by Business Unit

Project Number/Description	Project Classification	LTD Approved Budget	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	Total
Reserve Funding (R)													
3801SS - McKeown Ave. Widening - Gormanville to Cartier		(18,750)	-	(293,750)	-	-	-	-	-	-	-	-	(312,500)
3801WS - McKeown Ave. Widening - Gormanville to Cartier		(18,750)	-	(281,250)	-	-	-	-	-	-	-	-	(300,000)
3829SS - Wastewater Treatment Plant - Structural Repair		-	(497,000)	(150,000)	(116,000)	-	-	-	-	-	-	-	(763,000)
4003WS - Membrane Module Replacement		-	-	-	-	(580,000)	-	-	-	-	-	-	(580,000)
4029SS - Wastewater Treatment Plant - Raw Sewage Pumping Station		-	(452,700)	-	-	-	-	-	-	-	-	-	(452,700)
4125SS - Lakeshore Dr. Area - Trunk Watermain and Sewer - Phase 1 - Judge to Gertrude		-	-	-	(255,000)	-	-	-	-	-	-	-	(255,000)
4125WS - Lakeshore Dr. Area - Trunk Watermain and Sewer - Phase 1 - Judge to Gertrude		-	-	-	(110,000)	-	-	-	-	-	-	-	(110,000)
Total Reserve Funding		(37,500)	(949,700)	(725,000)	(481,000)	(580,000)	-	-	-	-	-	-	(2,773,200)
Grants and Other Funding Sources (F)													
4300SS - Airport Industrial Park Expansion		-	-	-	-	-	-	-	-	(1,913,706)	-	-	(1,913,706)
4300WS - Airport Industrial Park Expansion		-	-	-	-	-	-	-	-	(3,167,512)	-	-	(3,167,512)
Total Grants and Other Funding Sources		-	-	-	-	-	-	-	-	(5,081,218)	-	-	(5,081,218)
Net Water and Wastewater Capital Budget		3,542,675	12,436,543	13,111,131	13,945,072	14,590,072	15,348,072	17,337,072	18,183,072	18,095,796	19,765,014	21,221,014	167,575,533
Capital Funding Policy Limit													
Capital Levy In Water and Wastewater Budget			(9,436,543)	(10,082,089)	(10,816,078)	(11,786,510)	(12,692,310)	(13,814,286)	(14,858,607)	(15,958,857)	(16,822,608)	(18,038,948)	(134,306,836)
Debenture and Long-term Debt			(3,000,000)	(3,000,000)	(3,000,000)	(3,000,000)	(3,000,000)	(3,000,000)	(3,000,000)	(3,000,000)	(3,000,000)	(3,000,000)	(30,000,000)
Target Policy for Net Expenditures			(12,436,543)	(13,082,089)	(13,816,078)	(14,786,510)	(15,692,310)	(16,814,286)	(17,858,607)	(18,958,857)	(19,822,608)	(21,038,948)	(164,306,836)
(\$ Available) \$Funding Needed			-	29,042	128,994	(196,438)	(344,238)	522,786	324,465	(863,061)	(57,594)	182,066	(273,978)

**CAPITAL PROJECT INFORMATION SHEETS
BY PROJECT NUMBER**

Number:	3216GG	Scenario:	Main
Title:	Capital Financing	Project Stage:	Committee of Council Review
Asset Type:	Strategic Investment (General)	Strategic Plans:	Master Plans
Division:	Capital - General Government	Project Type:	
Budget Year:	2021	Active:	Yes

Description	Comments
The project is in line with the Long Term Capital Funding Policy to put aside two percent of the total Capital Financing Policy to pay for unfunded capital projects to 2025 then reduced to one percent of the total capital financing policy.	

Scenario Description	Scenario Comments

Forecast	Project Detailed 2021																																																																									
<table border="1"> <thead> <tr> <th>Budget Year</th> <th>Total Expense</th> <th>Total Revenue</th> <th>Difference</th> </tr> </thead> <tbody> <tr><td>2021</td><td>509,707</td><td>509,707</td><td>0</td></tr> <tr><td>2022</td><td>503,713</td><td>503,713</td><td>0</td></tr> <tr><td>2023</td><td>492,511</td><td>492,511</td><td>0</td></tr> <tr><td>2024</td><td>515,522</td><td>515,522</td><td>0</td></tr> <tr><td>2025</td><td>536,881</td><td>536,881</td><td>0</td></tr> <tr><td>2026</td><td>278,562</td><td>278,562</td><td>0</td></tr> <tr><td>2027</td><td>285,449</td><td>285,449</td><td>0</td></tr> <tr><td>2028</td><td>292,595</td><td>292,595</td><td>0</td></tr> <tr><td>2029</td><td>298,319</td><td>298,319</td><td>0</td></tr> <tr><td>2030</td><td>307,022</td><td>307,022</td><td>0</td></tr> <tr> <td></td> <td>4,020,281</td> <td>4,020,281</td> <td>0</td> </tr> <tr> <td colspan="2">LTD Amount: 3,836,785</td> <td colspan="2">Total Project Cost: 7,857,066</td> </tr> </tbody> </table>	Budget Year	Total Expense	Total Revenue	Difference	2021	509,707	509,707	0	2022	503,713	503,713	0	2023	492,511	492,511	0	2024	515,522	515,522	0	2025	536,881	536,881	0	2026	278,562	278,562	0	2027	285,449	285,449	0	2028	292,595	292,595	0	2029	298,319	298,319	0	2030	307,022	307,022	0		4,020,281	4,020,281	0	LTD Amount: 3,836,785		Total Project Cost: 7,857,066		<table border="1"> <thead> <tr> <th>GL Account</th> <th>Description</th> <th>Total Amount</th> </tr> </thead> <tbody> <tr> <td colspan="3">Expense</td> </tr> <tr> <td>3199</td> <td>MISC PROFESSIONAL FEES</td> <td>509,707</td> </tr> <tr> <td colspan="2">Total Expense:</td> <td>509,707</td> </tr> <tr> <td colspan="3">Revenue</td> </tr> <tr> <td>5901</td> <td>DEBENTURE PROCEEDS</td> <td>509,707</td> </tr> <tr> <td colspan="2">Total Revenue:</td> <td>509,707</td> </tr> </tbody> </table>	GL Account	Description	Total Amount	Expense			3199	MISC PROFESSIONAL FEES	509,707	Total Expense:		509,707	Revenue			5901	DEBENTURE PROCEEDS	509,707	Total Revenue:		509,707
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Related Projects	Operating Impacts			
Year Identified	Start Date	Useful Life	Manager	Completion Date
2012	Jan 1, 2012	N/A	Margaret Karpenko	Dec 31, 2030

Number:	3302ST	Scenario:	Main
Title:	Trunk Sewer Rehab - Pinewood Fingers Creek	Project Stage:	Committee of Council Review
Asset Type:	Asset Improvement and Maintenance (General)	Strategic Plans:	Infrastructure / Sustainability
Division:	Capital - Infrastructure & Operations	Project Type:	
Budget Year:	2021	Active:	Yes

Description	Comments
<p>The project provides for engineering and construction services for major culvert improvements at various locations along the Pinewood Fingers Creek. Culvert upgrades anticipated includes the CP Rail Crossing, removal of the historical CN Rail Crossing, upsizing the culvert from Jane Street to Copeland Street, channelization downstream of Tackaberry Drive, upsizing the culvert crossing Tackaberry Drive, and upsizing the culvert crossing the Ministry of Transportation Highway 17 corridor.</p> <p>Engineering services will include condition inspection, preliminary design, detailed design, agency approvals, contract drawings, specifications, tendering and construction.</p>	<p>The Pinewood Fingers Creek has various culvert constraints that constrict the creek flow and add to flooding hazards. Flood flows at the culverts represent a significant risk to wash out type collapse of the culverts and roads.</p> <p>Flood flows through the yards between Jane Street and Copeland Street and backwater flooding to McNamara Street are the primary residential property flooding concerns. These hazards are expected with larger storms and as such are not considered an on-going nuisance hazard but rather a larger scale community protection concern.</p>

Scenario Description	Scenario Comments

Forecast	Project Detailed 2021																
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Related Projects	Operating Impacts

Year Identified	Start Date	Useful Life	Manager	Completion Date
2011	Jan 1, 2026	75 Years	Adam Lacombe	Dec 31, 2027

Number:	3319WS	Scenario:	Main
Title:	Ellendale Upgrades as per Condition Assessment	Project Stage:	Committee of Council Review
Asset Type:	Asset Improvement and Maintenance (Water and Wastewater)	Strategic Plans:	Infrastructure / Sustainability,...
Division:	Capital - Water	Project Type:	
Budget Year:	2021	Active:	Yes

Description	Comments
A condition assessment was undertaken on the Ellendale Pumping Station that identified a number of repairs and upgrades that are needed and also gave priority timelines for the repairs and upgrades to be completed. The majority of repairs and upgrades fall under structural, architectural, electrical and instrumentation needs but also include process mechanical and building mechanical needs.	Projects include pump, valve motor and VFD replacements on all 4 pumps and electrical replacements (MCC and control panel).

Scenario Description	Scenario Comments

Forecast	Project Detailed 2021																																								
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Related Projects	Operating Impacts

Year Identified	Start Date	Useful Life	Manager	Completion Date
2012	Jan 1, 2012	15 to 20 Years	Karin Pratte	Dec 31, 2021

Number:	3405PK	Scenario:	Main
Title:	Parking Property Acquisition Program	Project Stage:	Committee of Council Review
Asset Type:	Strategic Investment (General)	Strategic Plans:	Growth / Economic Development
Division:	Capital - Infrastructure & Operations	Project Type:	
Budget Year:	2021	Active:	Yes

Description	Comments
The project is to provide funds for the purchase of lands for future parking uses.	<p>Downtown development potential is limited if steps are not taken to provide additional parking space. The 2012 Parking Study identifies preferred properties to be acquired. The funding budgeted in 2021, 2024 and 2027 is for the purchase of lands identified. The construction cost of parking lots or facilities on these lands, if acquired, will be requested in future capital budgets or has been budgeted in Capital Project 4201PK, depending on properties purchased.</p> <p>Project is funded by the Property Development Reserve (99535R) which was established to fund the purchase of property and the development of the City.</p> <p>Related project 4201PK.</p>

Scenario Description	Scenario Comments

Forecast	Project Detailed 2021																																																
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Related Projects	Operating Impacts

Year Identified	Start Date	Useful Life	Manager	Completion Date
2011	Jan 1, 2021	NA	David Jackowski	Dec 31, 2027

Number:	3506ST	Scenario:	Main
Title:	Stormwater Management - Overland Flow Control Study	Project Stage:	Committee of Council Review
Asset Type:	Asset Improvement and Maintenance (General)	Strategic Plans:	Infrastructure / Sustainability, Master Plans
Division:	Capital - Infrastructure & Operations	Project Type:	
Budget Year:	2021	Active:	Yes

Description	Comments
<p>The project involves the engineering services for the analysis of the City's stormwater infrastructure and major storm water flow routes (i.e. when the sewers are full during larger rain events) leading to the identification of overland flow route needs.</p> <p>Engineering services will include mapping of drainage areas, analysis of the major and minor (storm sewer) systems and identification of the needs to mitigate major flow system deficiencies.</p>	<p>The City's storm sewer systems (the minor system) are only designed to capture runoff from certain sized storms (one that statistically occurs once every five years).</p> <p>During intense rain events, the system's capacity can be exceeded and once the sewer systems are full of water any additional runoff must flow overland (the major system). If the overland flow routes are designed properly, localized flooding can be mitigated.</p> <p>Unfortunately, a number of older systems did not include accommodations for a major system - examples include the low area at Ferguson Street and King Street that experienced a number of floods in recent years, as well as the low spot on Surrey Drive between Airport Road and Francis Avenue, which has experienced some minor flooding, but with a large enough storm, the only outlet was between two residential houses.</p> <p>Projects have been undertaken recently to correct the major system deficiencies on Ferguson Street and Surrey Drive. A City-wide study will help to identify other under-designed areas and to prioritize areas with the greatest risk potential for flooding and damage.</p>

Scenario Description	Scenario Comments

Forecast	Project Detailed 2021																
<table border="1"> <thead> <tr> <th>Budget Year</th> <th>Total Expense</th> <th>Total Revenue</th> <th>Difference</th> </tr> </thead> <tbody> <tr> <td>2024</td> <td>100,000</td> <td>100,000</td> <td>0</td> </tr> <tr> <td></td> <td>100,000</td> <td>100,000</td> <td>0</td> </tr> <tr> <td colspan="2">LTD Amount: 0</td> <td colspan="2">Total Project Cost: 100,000</td> </tr> </tbody> </table>	Budget Year	Total Expense	Total Revenue	Difference	2024	100,000	100,000	0		100,000	100,000	0	LTD Amount: 0		Total Project Cost: 100,000		
Budget Year	Total Expense	Total Revenue	Difference														
2024	100,000	100,000	0														
	100,000	100,000	0														
LTD Amount: 0		Total Project Cost: 100,000															

Related Projects	Operating Impacts

Year Identified	Start Date	Useful Life	Manager	Completion Date
2011	Jan 1, 2024	N/A	Adam Lacombe	Dec 31, 2025

Number:	3508PR	Scenario:	Main
Title:	Parks and Playgrounds - New Neighbourhood Parks	Project Stage:	Committee of Council Review
Asset Type:	Growth (General)	Strategic Plans:	Growth / Economic Development
Division:	Capital - Community Services	Project Type:	
Budget Year:	2021	Active:	Yes

Description		Comments	
The program provides for the development of new parks based on recommendations in the 2009 Parks Plan Update and the City's Official Plan.		Areas identified for development are Trillium Woods, Sugar Bush, Cedar Heights and LaVase Park Trail Head. This project has been identified to be funded partially by Development Charges and from the Parklands Reserve Fund (99501R) established by the Planning Act to fund the acquisition of lands to be used for park or other public recreational purposes, including the erection or repair of buildings or other structures.	
Scenario Description		Scenario Comments	
		The following details support the Capital Forecast for 2022 to 2030: 2022 Development of a park in the Trillium Woods subdivision 2025 Development of a park in the Sugar Bush subdivision 2028 Development of a park in the Cedar Heights subdivision	
Forecast		Project Detailed 2021	
Budget Year	Total Expense	Total Revenue	Difference
2022	200,000	200,000	0
2025	200,000	200,000	0
2028	200,000	200,000	0
	600,000	600,000	0
LTD Amount: 0		Total Project Cost: 600,000	
Related Projects		Operating Impacts	
Year Identified	Start Date	Useful Life	Manager
2011	Jan 1, 2022	TBD	David Schroeder
			Completion Date
			Dec 31, 2028

Number:	3509PZ	Scenario:	Main
Title:	Official Plan 5 Year Review and Study Update	Project Stage:	Committee of Council Review
Asset Type:	Strategic Investment (General)	Strategic Plans:	Master Plans
Division:	Capital - Community Services	Project Type:	
Budget Year:	2021	Active:	Yes

Description	Comments
The project provides for the completion of various studies including the Population, Household and Employment Forecast and Parks Master Plan leading to the 5-year review of the City's Official Plan.	The City's Official Plan requires a review every 5 years. In order to complete the review a number of background studies are required. This project will enable the update to the City's Parks Master Plan and the Population, Household and Employment Forecast. These studies are in addition to the Parks and Active Transportation Plan Update, Source Water Protection Plan Implementation and Trout Lake Capacity Assessment.

Scenario Description	Scenario Comments

Forecast	Project Detailed 2021																
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Budget Year	Total Expense	Total Revenue	Difference														
2026	250,000	250,000	0														
	250,000	250,000	0														
LTD Amount: 350,000		Total Project Cost: 600,000															

Related Projects	Operating Impacts

Year Identified	Start Date	Useful Life	Manager	Completion Date
2011	Jan 1, 2017	TBD	Beverley Hillier	Dec 31, 2026

Number:	3518PR	Scenario:	Main
Title:	King's Landing Commercialization of Waterfront	Project Stage:	Committee of Council Review
Asset Type:	Strategic Investment (General)	Strategic Plans:	Growth / Economic Development
Division:	Capital - Infrastructure & Operations	Project Type:	
Budget Year:	2021	Active:	Yes

Description	Comments
The program provides for the development of infrastructure at the Waterfront to support commercial investment.	<p>In July 2019, Council:</p> <ol style="list-style-type: none"> 1. Approved the Preferred Alternative for the phased replacement of the King's Landing Wharf with a naturalized spit and expansion of the pier on the south side of the marina as recommended by the Schedule C, Class Environmental Assessment (EA) as shown on Appendix 'A' attached to Report to Council EESW 2019-13. 2. Directed Staff to complete the Schedule C, Class EA Report and table it for the 30 day review period. <p>The preferred alternative includes 4 phases: Phase 1: Major Rehabilitation of Existing King's Landing Phase 2: Construct New South Pier / Commercial Area Phase 3: Construct Rock Fill Wavebreak Phase 4: Landscape / Naturalize Wavebreak</p> <p>In June 2020 MECP notified the City that they had no further input or objections to the Project. Therefore the Schedule C, Class EA is complete.</p> <p>Final design and issuance of a tender for construction of the preferred alternative will be initiated depending on the availability of the necessary funding and direction of Council.</p> <p>In the meantime, continued maintenance of King's Landing has been budgeted.</p>

Scenario Description	Scenario Comments

Forecast	Project Detailed 2021																												
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Budget Year	Total Expense	Total Revenue	Difference																										
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2025	5,100,000	5,100,000	0																										
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LTD Amount: 734,331		Total Project Cost: 17,034,331																											

Related Projects	Operating Impacts

Year Identified	Start Date	Useful Life	Manager	Completion Date
2014	Jan 1, 2015	TBD	Gerry McCrank	Dec 31, 2027

Number:	3700RD	Scenario:	Main
Title:	Seymour St. - Station to Wallace - Widening and Signals	Project Stage:	Committee of Council Review
Asset Type:	Growth (General)	Strategic Plans:	Growth / Economic Development,...
Division:	Capital - Infrastructure & Operations	Project Type:	
Budget Year:	2021	Active:	Yes

Description	Comments
<p>The project involves the engineering and construction services for the widening and reconstruction of Seymour Street from just east of Station Road to Wallace Road, as well as a new trunk watermain from Wallace Road to Station Road and along Cholette Street from Station Road to Highway 11/17.</p> <p>The road improvements include widening the roadway to three lanes with a center auxiliary left turn lane, a new set of traffic signals at the Commerce Crescent and Venture Crescent intersection and the extension of a sidewalk along the north side of the roadway. Underground works include the installation of new storm sewers and repair/rehabilitation/replacement of sanitary sewers and watermains.</p>	<p>A contract for engineering services was awarded to an engineering consultant in 2009 which included Environmental Assessment (EA) and preliminary design. Road works include the road base aggregates, asphalt, curb, gutter, grass boulevard and concrete sidewalk.</p> <p>As an existing arterial road servicing industrial areas, it is critical that an adequate level of service be maintained. Seymour Street has a deteriorating road surface that will require reconstruction within 5 to 10 years. The widening and traffic signals will address current traffic congestion and safety concerns.</p> <p>An additional contract for engineering services is required for detailed design, agency approvals, contract drawings, specifications, tendering and construction technical assistance.</p> <p>The work will be constructed in one phase subsequent to the completion of the construction and improvement at the intersection of Highway 11/17 and Seymour.</p> <p>Related projects include 3700SS/ST/WS and 4500RD/SS/ST/WS.</p>

Scenario Description	Scenario Comments

Forecast	Project Detailed 2021																				
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Budget Year	Total Expense	Total Revenue	Difference																		
2024	180,000	180,000	0																		
2026	3,400,000	3,400,000	0																		
	3,580,000	3,580,000	0																		
LTD Amount: 0		Total Project Cost: 3,580,000																			

Related Projects	Operating Impacts

Year Identified	Start Date	Useful Life	Manager	Completion Date
2011	Jan 1, 2024	25 Years	Gerry McCrank	Dec 31, 2027

Number:	3700SS	Scenario:	Main
Title:	Seymour St. - Station to Wallace - Widening and Signals	Project Stage:	Committee of Council Review
Asset Type:	Growth (Water and Wastewater)	Strategic Plans:	Growth / Economic Development,...
Division:	Capital - Sewer	Project Type:	
Budget Year:	2021	Active:	Yes

Description	Comments
<p>The project involves the engineering and construction services for the widening and reconstruction of Seymour Street from just east of Station Road to Wallace Road, as well as a new trunk watermain from Wallace Road to Station Road and along Cholette Street from Station Road to Highway 11/17.</p> <p>The road improvements include widening the roadway to three lanes with a center auxiliary left turn lane, a new set of traffic signals at the Commerce Crescent and Venture Crescent intersection and the extension of a sidewalk along the north side of the roadway. Underground works include the installation of new storm sewers and repair/rehabilitation/replacement of sanitary sewers and watermains.</p>	<p>A contract for engineering services was awarded to an engineering consultant in 2009 which included Environmental Assessment (EA) and preliminary design. Road works include the road base aggregates, asphalt, curb, gutter, grass boulevard and concrete sidewalk.</p> <p>As an existing arterial road servicing industrial areas, it is critical that an adequate level of service be maintained. Seymour Street has a deteriorating road surface that will require reconstruction within 5 to 10 years. The widening and traffic signals will address current traffic congestion and safety concerns.</p> <p>An additional contract for engineering services is required for detailed design, agency approvals, contract drawings, specifications, tendering and construction technical assistance.</p> <p>The work will be constructed in one phase subsequent to the completion of the construction and improvement at the intersection of Highway 11/17 and Seymour.</p> <p>Related projects include 3700RD/ST/WS and 4500RD/SS/ST/WS.</p>

Scenario Description	Scenario Comments

Forecast	Project Detailed 2021																				
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Budget Year	Total Expense	Total Revenue	Difference																		
2024	60,000	60,000	0																		
2026	1,100,000	1,100,000	0																		
	1,160,000	1,160,000	0																		
LTD Amount: 0		Total Project Cost: 1,160,000																			

Related Projects	Operating Impacts

Year Identified	Start Date	Useful Life	Manager	Completion Date
2011	Jan 1, 2024	75 Years	Gerry McCrank	Dec 31, 2027

Number:	3700ST	Scenario:	Main
Title:	Seymour St. - Station to Wallace - Widening and Signals	Project Stage:	Committee of Council Review
Asset Type:	Growth (General)	Strategic Plans:	Growth / Economic Development,...
Division:	Capital - Infrastructure & Operations	Project Type:	
Budget Year:	2021	Active:	Yes

Description	Comments
<p>The project involves the engineering and construction services for the widening and reconstruction of Seymour Street from just east of Station Road to Wallace Road, as well as a new trunk watermain from Wallace Road to Station Road and along Cholette Street from Station Road to Highway 11/17.</p> <p>The road improvements include widening the roadway to three lanes with a center auxiliary left turn lane, a new set of traffic signals at the Commerce Crescent and Venture Crescent intersection and the extension of a sidewalk along the north side of the roadway. Underground works include the installation of new storm sewers and repair/rehabilitation/replacement of sanitary sewers and watermains.</p>	<p>A contract for engineering services was awarded to an engineering consultant in 2009 which included Environmental Assessment (EA) and preliminary design. Road works include the road base aggregates, asphalt, curb, gutter, grass boulevard and concrete sidewalk.</p> <p>As an existing arterial road servicing industrial areas, it is critical that an adequate level of service be maintained. Seymour Street has a deteriorating road surface that will require reconstruction within 5 to 10 years. The widening and traffic signals will address current traffic congestion and safety concerns.</p> <p>An additional contract for engineering services is required for detailed design, agency approvals, contract drawings, specifications, tendering and construction technical assistance.</p> <p>The work will be constructed in one phase subsequent to the completion of the construction and improvement at the intersection of Highway 11/17 and Seymour.</p> <p>Related projects include 3700RD/SS/WS and 4500RD/SS/ST/WS.</p>

Scenario Description	Scenario Comments

Forecast	Project Detailed 2021																				
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Budget Year	Total Expense	Total Revenue	Difference																		
2024	70,000	70,000	0																		
2026	1,300,000	1,300,000	0																		
	1,370,000	1,370,000	0																		
LTD Amount: 0		Total Project Cost: 1,370,000																			

Related Projects	Operating Impacts

Year Identified	Start Date	Useful Life	Manager	Completion Date
2011	Jan 1, 2024	75 Years	Gerry McCrank	Dec 31, 2027

Number:	3700WS	Scenario:	Main
Title:	Seymour St. - Station to Wallace - Widening and Signals	Project Stage:	Committee of Council Review
Asset Type:	Growth (Water and Wastewater)	Strategic Plans:	Growth / Economic Development,...
Division:	Capital - Water	Project Type:	
Budget Year:	2021	Active:	Yes

Description	Comments
<p>The project involves the engineering and construction services for the widening and reconstruction of Seymour Street from just east of Station Road to Wallace Road, as well as a new trunk watermain from Wallace Road to Station Road and along Cholette Street from Station Road to Highway 11/17.</p> <p>The road improvements include widening the roadway to three lanes with a center auxiliary left turn lane, a new set of traffic signals at the Commerce Crescent and Venture Crescent intersection and the extension of a sidewalk along the north side of the roadway. Underground works include the installation of new storm sewers and repair/rehabilitation/replacement of sanitary sewers and watermains.</p>	<p>A contract for engineering services was awarded to an engineering consultant in 2009 which included Environmental Assessment (EA) and preliminary design. Road works include the road base aggregates, asphalt, curb, gutter, grass boulevard and concrete sidewalk.</p> <p>As an existing arterial road servicing industrial areas, it is critical that an adequate level of service be maintained. Seymour Street has a deteriorating road surface that will require reconstruction within 5 to 10 years. The widening and traffic signals will address current traffic congestion and safety concerns.</p> <p>An additional contract for engineering services is required for detailed design, agency approvals, contract drawings, specifications, tendering and construction technical assistance.</p> <p>The work will be constructed in one phase subsequent to the completion of the construction and improvement at the intersection of Highway 11/17 and Seymour.</p> <p>Related projects include 3700RD/SS/ST and 4500RD/SS/ST/WS.</p>

Scenario Description	Scenario Comments

Forecast	Project Detailed 2021																				
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Budget Year	Total Expense	Total Revenue	Difference																		
2024	200,000	200,000	0																		
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	4,000,000	4,000,000	0																		
LTD Amount: 0		Total Project Cost: 4,000,000																			

Related Projects	Operating Impacts

Year Identified	Start Date	Useful Life	Manager	Completion Date
2011	Jan 1, 2024	75 Years	Gerry McCrank	Dec 31, 2027

Number:	3701RD	Scenario:	Main
Title:	Norman/Chapais Connection Watermain	Project Stage:	Committee of Council Review
Asset Type:	Strategic Investment (General)	Strategic Plans:	Growth / Economic Development,...
Division:	Capital - Infrastructure & Operations	Project Type:	
Budget Year:	2021	Active:	Yes

Description	Comments
<p>The project involves the engineering and construction services for the connection of Norman Avenue to Chapais Street. Engineering services will include an Environmental Assessment (EA), preliminary and detailed design, agency approvals, contract drawings, specifications, tendering and construction technical assistance.</p> <p>Included in these works are extensions to the trunk watermain that are critical to providing redundancy protection for the City's water network. These works will also tie in with future works related to the proposed North Bay Expressway.</p>	<p>The 2008 Infrastructure Background Study that was prepared in support of the Official Plan update identified that it is desirable to connect the Connaught/Norman area to the Chapais/McKeown area. This transportation link would connect the O'Brien Street and Trout Lake Road arterial.</p> <p>In addition, the study identified that future development would require watermain distribution improvements, including a new 600 mm watermain system along Norman Avenue, Chapais Street and Lansdowne Avenue.</p> <p>Related project includes 3701ST/WS.</p>

Scenario Description	Scenario Comments

Forecast	Project Detailed 2021																
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Budget Year	Total Expense	Total Revenue	Difference														
2026	100,000	100,000	0														
	100,000	100,000	0														
LTD Amount: 0	Total Project Cost: 100,000																

Related Projects	Operating Impacts

Year Identified	Start Date	Useful Life	Manager	Completion Date
2011	Jan 1, 2026	25 Years	Adam Lacombe	Dec 31, 2027

Number:	3701ST	Scenario:	Main
Title:	Norman/Chapais Connection Watermain	Project Stage:	Committee of Council Review
Asset Type:	Strategic Investment (General)	Strategic Plans:	Growth / Economic Development,...
Division:	Capital - Infrastructure & Operations	Project Type:	
Budget Year:	2021	Active:	Yes

Description	Comments
<p>The project involves the engineering and construction services for the connection of Norman Avenue to Chapais Street. Engineering services will include an Environmental Assessment (EA), preliminary and detailed design, agency approvals, contract drawings, specifications, tendering and construction technical assistance.</p> <p>Included in these works are extensions to the trunk watermain that are critical to providing redundancy protection for the City's water network. These works will also tie in with future works related to the proposed North Bay Expressway.</p>	<p>The 2008 Infrastructure Background Study that was prepared in support of the Official Plan update identified that it is desirable to connect the Connaught/Norman area to the Chapais/McKeown area. This transportation link would connect the O'Brien Street and Trout Lake Road arterial.</p> <p>In addition, the study identified that future development would require watermain distribution improvements, including a new 600 mm watermain system along Norman Avenue, Chapais Street and Lansdowne Avenue.</p> <p>Related project includes 3701RD/WS.</p>

Scenario Description	Scenario Comments

Forecast	Project Detailed 2021																
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Budget Year	Total Expense	Total Revenue	Difference														
2026	40,000	40,000	0														
	40,000	40,000	0														
LTD Amount: 0	Total Project Cost: 40,000																

Related Projects	Operating Impacts

Year Identified	Start Date	Useful Life	Manager	Completion Date
2011	Jan 1, 2026	75 Years	Adam Lacombe	Dec 31, 2027

Number:	3701WS	Scenario:	Main
Title:	Norman/Chapais Connection Watermain	Project Stage:	Committee of Council Review
Asset Type:	Strategic Investment (Water and Wastewater)	Strategic Plans:	Growth / Economic Development,...
Division:	Capital - Water	Project Type:	
Budget Year:	2021	Active:	Yes

Description	Comments
<p>The project involves the engineering and construction services for the connection of Norman Avenue to Chapais Street. Engineering services will include an Environmental Assessment (EA), preliminary and detailed design, agency approvals, contract drawings, specifications, tendering and construction technical assistance.</p> <p>Included in these works are extensions to the trunk watermain that are critical to providing redundancy protection for the City's water network. These works will also tie in with future works related to the proposed North Bay Expressway.</p>	<p>The 2008 Infrastructure Background Study that was prepared in support of the Official Plan update identified that it is desirable to connect the Connaught/Norman area to the Chapais/McKeown area. This transportation link would connect the O'Brien Street and Trout Lake Road arterial.</p> <p>In addition, the study identified that future development would require watermain distribution improvements including a new 600 mm watermain system along Norman Avenue, Chapais Street, and Lansdowne Avenue.</p> <p>Related project includes 3701RD/ST.</p>

Scenario Description	Scenario Comments

Forecast	Project Detailed 2021																
<table border="1"> <thead> <tr> <th>Budget Year</th> <th>Total Expense</th> <th>Total Revenue</th> <th>Difference</th> </tr> </thead> <tbody> <tr> <td>2026</td> <td>60,000</td> <td>60,000</td> <td>0</td> </tr> <tr> <td></td> <td>60,000</td> <td>60,000</td> <td>0</td> </tr> <tr> <td>LTD Amount: 0</td> <td colspan="3">Total Project Cost: 60,000</td> </tr> </tbody> </table>	Budget Year	Total Expense	Total Revenue	Difference	2026	60,000	60,000	0		60,000	60,000	0	LTD Amount: 0	Total Project Cost: 60,000			
Budget Year	Total Expense	Total Revenue	Difference														
2026	60,000	60,000	0														
	60,000	60,000	0														
LTD Amount: 0	Total Project Cost: 60,000																

Related Projects	Operating Impacts

Year Identified	Start Date	Useful Life	Manager	Completion Date
2011	Jan 1, 2026	75 Years	Adam Lacombe	Dec 31, 2027

Number:	3702PR	Scenario:	Main
Title:	Waterfront Building Rehab and Development	Project Stage:	Committee of Council Review
Asset Type:	Growth (General)	Strategic Plans:	Growth / Economic Development, Maintenance
Division:	Capital - Community Services	Project Type:	
Budget Year:	2021	Active:	Yes

Description	Comments
The program provides for the rehabilitation and/or development of Waterfront (Park) tourist commercial attractions and related facilities.	<p>The City has completed a Waterfront Tourism Attraction Feasibility Study (2014) and a Downtown Waterfront Land Use Master Plan (2017) which identified that future components of the Waterfront and Downtown should include development of commercial attractions and related facilities.</p> <p>The funding projected in 2023/24 is for waterfront and marina facilities in connection to the commercialization of the Waterfront. If the outcome of the assessment is that the City does not move forward as identified in the Waterfront Tourism Attraction Feasibility Study and the Downtown Waterfront Master Plan the budgeted funds will be required to rehabilitate the current facilities.</p>

Scenario Description	Scenario Comments

Forecast	Project Detailed 2021																				
<table border="1"> <thead> <tr> <th>Budget Year</th> <th>Total Expense</th> <th>Total Revenue</th> <th>Difference</th> </tr> </thead> <tbody> <tr> <td>2023</td> <td>200,000</td> <td>200,000</td> <td>0</td> </tr> <tr> <td>2024</td> <td>1,800,000</td> <td>1,800,000</td> <td>0</td> </tr> <tr> <td></td> <td>2,000,000</td> <td>2,000,000</td> <td>0</td> </tr> <tr> <td colspan="2">LTD Amount: 0</td> <td colspan="2">Total Project Cost: 2,000,000</td> </tr> </tbody> </table>	Budget Year	Total Expense	Total Revenue	Difference	2023	200,000	200,000	0	2024	1,800,000	1,800,000	0		2,000,000	2,000,000	0	LTD Amount: 0		Total Project Cost: 2,000,000		
Budget Year	Total Expense	Total Revenue	Difference																		
2023	200,000	200,000	0																		
2024	1,800,000	1,800,000	0																		
	2,000,000	2,000,000	0																		
LTD Amount: 0		Total Project Cost: 2,000,000																			

Related Projects	Operating Impacts

Year Identified	Start Date	Useful Life	Manager	Completion Date
2011	Jan 1, 2023	TBD	David Jackowski	Dec 31, 2024

Number:	3711RF	Scenario:	Main
Title:	City of North Bay Community and Recreation Centre	Project Stage:	Committee of Council Review
Asset Type:	Growth (General)	Strategic Plans:	Growth / Economic Development,...
Division:	Capital - Community Services	Project Type:	
Budget Year:	2021	Active:	Yes

Description	Comments
The project provides for the design and construction of a new multi-purpose community centre that includes a double ice pad facility, walking track, and multi-use community room.	<p>West Ferris Arena has reached the end of its useful life. Council established the Arena Committee that recommended construction of a new Community Centre with two ice pads, a walking track and the potential for other community oriented amenities to be explored through the design phase. A contract for design services has been awarded by Council in 2019.</p> <p>In 2020, 100% Completion of the Schematic Design, 100% of the Design Development and 75% of the Construction Detail portion of the design contract has been completed. Work included multiple Client reviews and meetings, public info meeting, meetings and presentations to Stakeholders (Users) and multiple meetings and presentations to the Committee of Council. These meetings and presentations informed the design of the community centre.</p> <p>Construction Documents & Class A Costing Phase of the project will be completed in the fall of 2020 following which the project will be presented to Council for direction to Tender the project in late 2020 or early 2021.</p> <p>Related projects include 4025RD.</p>

Scenario Description	Scenario Comments

Forecast	Project Detailed 2021																																															
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Related Projects	Operating Impacts

Year Identified	Start Date	Useful Life	Manager	Completion Date
2016	Jan 1, 2017	60 Years	David Jackowski	Dec 31, 2022

Number:	3715RD	Scenario:	Main
Title:	Pinewood Park & Lakeshore Drive Intersection Reconstruction	Project Stage:	Committee of Council Review
Asset Type:	Growth (General)	Strategic Plans:	Growth / Economic Development,...
Division:	Capital - Infrastructure & Operations	Project Type:	
Budget Year:	2021	Active:	Yes

Description		Comments	
<p>The project involves the engineering and construction services to reconstruct the intersection of Pinewood Park and Lakeshore Drive. Engineering services will include an environmental assessment, preliminary design, detailed design, agency approvals, contract drawings, specifications, tendering, and construction.</p> <p>Road works include the road base aggregates, asphalt, curb, gutter, and grass boulevard.</p>		<p>With the water and sanitary servicing works complete along Pinewood Park, future growth along the corridor will change the traffic patterns and volumes. The current intersection configuration may not support the change in traffic and will need to be reconstructed to a new configuration. Alternatives that will be examined include additional lanes and corresponding changes to the traffic signals, as well as a roundabout.</p> <p>Related projects include 4005RD and 4025RD.</p>	
Scenario Description		Scenario Comments	
Forecast		Project Detailed 2021	
Budget Year	Total Expense	Total Revenue	Difference
2023	3,900,000	3,900,000	0
	3,900,000	3,900,000	0
LTD Amount: 600,000		Total Project Cost: 4,500,000	
Related Projects		Operating Impacts	
Year Identified	Start Date	Useful Life	Manager
2017	Jan 1, 2020	25 Years	Reid Porter
			Completion Date
			Dec 31, 2023

Number:	3719SS	Scenario:	Main
Title:	Digester Replacement	Project Stage:	Committee of Council Review
Asset Type:	Asset Improvement and Maintenance (Water and Wastewater)	Strategic Plans:	Infrastructure / Sustainability, Maintenance
Division:	Capital - Sewer	Project Type:	
Budget Year:	2021	Active:	Yes

Description	Comments
The project provides for the replacement of the Digester #4 at the Wastewater Treatment Plant.	The Digester # 4 is past its useful life and is recommended for replacement.

Scenario Description	Scenario Comments

Forecast	Project Detailed 2021																																												
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Related Projects	Operating Impacts

Year Identified	Start Date	Useful Life	Manager	Completion Date
2017	Jan 1, 2018	50 Years	Karin Pratte	Dec 31, 2023

Number:	3801RD	Scenario:	Main
Title:	McKeown Ave. Widening - Gormanville to Cartier	Project Stage:	Committee of Council Review
Asset Type:	Growth (General)	Strategic Plans:	Growth / Economic Development,...
Division:	Capital - Infrastructure & Operations	Project Type:	
Budget Year:	2021	Active:	Yes

Description	Comments
<p>The project involves the engineering design and construction services for the complete reconstruction of the above-ground infrastructure and to widen McKeown Avenue to four lanes between Gormanville Road and Cartier Street.</p> <p>Engineering services will include preliminary design, detailed design, agency approvals, contract drawings, specifications, tendering and construction.</p>	<p>McKeown Avenue is a primary arterial route between Algonquin Avenue and Gormanville Road, but the portion from Gormanville to Cartier is currently not constructed to an arterial standard. An Environmental Assessment completed in the early 2000s and subsequent studies in connection to development projects have identified and supported the need to increase the road to 4-lane and 5-lane sections.</p> <p>The budget includes funding through the Investing in Canada Infrastructure Program.</p> <p>The sanitary sewer and watermain will be reaching a typical end of useful life age and will need to be evaluated for repair, rehab, or replacement.</p> <p>Related projects include 3801ST/SS/WS.</p>

Scenario Description	Scenario Comments

Forecast	Project Detailed 2021																
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Budget Year	Total Expense	Total Revenue	Difference														
2022	5,500,000	5,500,000	0														
	5,500,000	5,500,000	0														
LTD Amount: 300,000		Total Project Cost: 5,800,000															

Related Projects	Operating Impacts

Year Identified	Start Date	Useful Life	Manager	Completion Date
2011	Jan 1, 2020	25 Years	Reid Porter	Dec 31, 2023

Number:	3801SS	Scenario:	Main
Title:	McKeown Ave. Widening - Gormanville to Cartier	Project Stage:	Committee of Council Review
Asset Type:	Growth (Water and Wastewater)	Strategic Plans:	Growth / Economic Development,...
Division:	Capital - Sewer	Project Type:	
Budget Year:	2021	Active:	Yes

Description	Comments
<p>The project involves the engineering design and construction services for the complete reconstruction of the above-ground infrastructure and to widen McKeown Avenue to four lanes between Gormanville Road and Cartier Street.</p> <p>Engineering services will include preliminary design, detailed design, agency approvals, contract drawings, specifications, tendering and construction.</p>	<p>McKeown Avenue is a primary arterial route between Algonquin Avenue and Gormanville Road, but the portion from Gormanville to Cartier is currently not constructed to an arterial standard. An Environmental Assessment completed in the early 2000s and subsequent studies in connection to development projects have identified and supported the need to increase the road to 4-lane and 5-lane sections.</p> <p>The budget includes funding through the Investing in Canada Infrastructure Program.</p> <p>The sanitary sewer and watermain will be reaching a typical end of useful life age and will need to be evaluated for repair, rehab, or replacement.</p> <p>Related projects include 3801RD/ST/WS.</p>

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Budget Year	Total Expense	Total Revenue	Difference														
2022	1,175,000	1,175,000	0														
	1,175,000	1,175,000	0														
LTD Amount: 75,000		Total Project Cost: 1,250,000															

Related Projects	Operating Impacts

Year Identified	Start Date	Useful Life	Manager	Completion Date
2011	Jan 1, 2020	75 Years	Reid Porter	Dec 31, 2023

Number:	3801ST	Scenario:	Main
Title:	McKeown Ave. Widening - Gormanville to Cartier	Project Stage:	Committee of Council Review
Asset Type:	Growth (General)	Strategic Plans:	Growth / Economic Development,...
Division:	Capital - Infrastructure & Operations	Project Type:	
Budget Year:	2021	Active:	Yes

Description	Comments
<p>The project involves the engineering design and construction services for the complete reconstruction of the above-ground infrastructure and to widen McKeown Avenue to four lanes between Gormanville Road and Cartier Street.</p> <p>Engineering services will include preliminary design, detailed design, agency approvals, contract drawings, specifications, tendering and construction.</p>	<p>McKeown Avenue is a primary arterial route between Algonquin Avenue and Gormanville Road, but the portion from Gormanville to Cartier is currently not constructed to an arterial standard. An Environmental Assessment completed in the early 2000s and subsequent studies in connection to development projects have identified and supported the need to increase the road to 4-lane and 5-lane sections.</p> <p>The budget includes funding through the Investing in Canada Infrastructure Program.</p> <p>The sanitary sewer and watermain will be reaching a typical end of useful life age and will need to be evaluated for repair, rehab, or replacement.</p> <p>Related projects include 3801RD/SS/WS.</p>

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Budget Year	Total Expense	Total Revenue	Difference														
2022	725,000	725,000	0														
	725,000	725,000	0														
LTD Amount: 50,000		Total Project Cost: 775,000															

Related Projects	Operating Impacts

Year Identified	Start Date	Useful Life	Manager	Completion Date
2011	Jan 1, 2020	75 Years	Reid Porter	Dec 31, 2023

Number:	3801WS	Scenario:	Main
Title:	McKeown Ave. Widening - Gormanville to Cartier	Project Stage:	Committee of Council Review
Asset Type:	Growth (Water and Wastewater)	Strategic Plans:	Growth / Economic Development,...
Division:	Capital - Water	Project Type:	
Budget Year:	2021	Active:	Yes

Description	Comments
<p>The project involves the engineering design and construction services for the complete reconstruction of the above-ground infrastructure and to widen McKeown Avenue to four lanes between Gormanville Road and Cartier Street.</p> <p>Engineering services will include preliminary design, detailed design, agency approvals, contract drawings, specifications, tendering and construction.</p>	<p>McKeown Avenue is a primary arterial route between Algonquin Avenue and Gormanville Road, but the portion from Gormanville to Cartier is currently not constructed to an arterial standard. An Environmental Assessment completed in the early 2000s and subsequent studies in connection to development projects have identified and supported the need to increase the road to 4-lane and 5-lane sections.</p> <p>The budget includes funding through the Investing in Canada Infrastructure Program.</p> <p>The sanitary sewer and watermain will be reaching a typical end of useful life age and will need to be evaluated for repair, rehab, or replacement.</p> <p>Related projects include 3801RD/ST/SS.</p>

Scenario Description	Scenario Comments

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Budget Year	Total Expense	Total Revenue	Difference														
2022	1,125,000	1,125,000	0														
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LTD Amount: 75,000		Total Project Cost: 1,200,000															

Related Projects	Operating Impacts

Year Identified	Start Date	Useful Life	Manager	Completion Date
2011	Jan 1, 2020	75 Years	Reid Porter	Dec 31, 2023

Number:	3802RD	Scenario:	Main
Title:	Lakeshore Dr. - Trunk Watermain and Sewer - Phase 2 - Gertrude to Marshall	Project Stage:	Committee of Council Review
Asset Type:	Asset Improvement and Maintenance (General)	Strategic Plans:	Growth / Economic Development,...
Division:	Capital - Infrastructure & Operations	Project Type:	
Budget Year:	2021	Active:	Yes

Description	Comments
<p>The project involves the engineering and construction services for upgrading the existing 100 mm distribution watermain, adding a new 400 mm transmission watermain, and adding a new 500 mm forcemain to twin the existing Marshall sanitary pumping station forcemain. An Environmental Assessment will also be conducted to look at upgrading the road to a five lane configuration.</p>	<p>Watermain service along the entire Lakeshore Drive corridor is severely undersized and a new trunk watermain is required to provide adequate water supply. This work was first identified in 1977 and was targeted for construction at the time of reconstruction needs of the road surface to maximize the value of the road asset.</p> <p>In 2003, efforts for the watermain construction commenced; however, the project was postponed due to funding constraints. Since then, the road surface has been rehabilitated through the resurfacing program to extend the life of the existing pavement.</p> <p>The need was more recently confirmed again in the 2008 Infrastructure Background Study that was prepared in support of the Official Plan update. Installation of a trunk watermain from Judge Avenue to Sunset Boulevard will be carried out over three phases - Phase 1 will include Judge Avenue to Gertrude Street, Phase 2 will include Gertrude Street to Marshall Avenue and Phase 3 will include Marshall Avenue to Sunset Blvd. The watermain portion of Phase 3 is currently being constructed in stages by the Public Works Department.</p> <p>The Marshall sanitary pumping station currently has no outlet in proximity to the station to relieve flow in the event of an emergency at the pumping station or a downstream break on the forcemain. During these emergency situations, sewage flows may back up into upstream buildings. A new forcemain to twin the existing forcemain will provide redundancy in the system to mitigate the risks of these emergency situations.</p> <p>Related projects include; 4125RD/ST/SS/WS for Phase 1; 3802ST/SS/WS for Phase 2</p>

Scenario Description	Scenario Comments

Forecast	Project Detailed 2021																				
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Budget Year	Total Expense	Total Revenue	Difference																		
2028	350,000	350,000	0																		
2030	6,600,000	6,600,000	0																		
	6,950,000	6,950,000	0																		
LTD Amount: 0		Total Project Cost: 6,950,000																			

Related Projects	Operating Impacts

Year Identified	Start Date	Useful Life	Manager	Completion Date
2011	Jan 1, 2028	25 Years	Adam Lacombe	Dec 31, 2031

Number:	3802SS	Scenario:	Main
Title:	Lakeshore Dr. - Trunk Watermain and Sewer - Phase 2 - Gertrude to Marshall	Project Stage:	Committee of Council Review
Asset Type:	Asset Improvement and Maintenance (Water and Wastewater)	Strategic Plans:	Growth / Economic Development,...
Division:	Capital - Sewer	Project Type:	
Budget Year:	2021	Active:	Yes

Description	Comments
<p>The project involves the engineering and construction services for upgrading the existing 100 mm distribution watermain, adding a new 400 mm transmission watermain, and adding a new 500 mm forcemain to twin the existing Marshall sanitary pumping station forcemain. An Environmental Assessment will also be conducted to look at upgrading the road to a five lane configuration.</p>	<p>Watermain service along the entire Lakeshore Drive corridor is severely undersized and a new trunk watermain is required to provide adequate water supply. This work was first identified in 1977 and was targeted for construction at the time of reconstruction needs of the road surface to maximize the value of the road asset.</p> <p>In 2003, efforts for the watermain construction commenced; however, the project was postponed due to funding constraints. Since then, the road surface has been rehabilitated through the resurfacing program to extend the life of the existing pavement.</p> <p>The need was more recently confirmed again in the 2008 Infrastructure Background Study that was prepared in support of the Official Plan update. Installation of a trunk watermain from Judge Avenue to Sunset Boulevard will be carried out over three phases - Phase 1 will include Judge Avenue to Gertrude Street, Phase 2 will include Gertrude Street to Marshall Avenue and Phase 3 will include Marshall Avenue to Sunset Blvd. The watermain portion of Phase 3 is currently being constructed in stages by the Public Works Department.</p> <p>The Marshall sanitary pumping station currently has no outlet in proximity to the station to relieve flow in the event of an emergency at the pumping station or a downstream break on the forcemain. During these emergency situations, sewage flows may back up into upstream buildings. A new forcemain to twin the existing forcemain will provide redundancy in the system to mitigate the risks of these emergency situations.</p> <p>Related projects include; 4125RD/ST/SS/WS for Phase 1; 3802RD/ST/WS for Phase 2</p>

Scenario Description	Scenario Comments

Forecast	Project Detailed 2021																				
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2030	3,000,000	3,000,000	0																		
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Related Projects	Operating Impacts

Year Identified	Start Date	Useful Life	Manager	Completion Date
2011	Jan 1, 2028	75 Years	Adam Lacombe	Dec 31, 2031

Number:	3802ST	Scenario:	Main
Title:	Lakeshore Dr. - Trunk Watermain and Sewer - Phase 2 - Gertrude to Marshall	Project Stage:	Committee of Council Review
Asset Type:	Asset Improvement and Maintenance (General)	Strategic Plans:	Growth / Economic Development,...
Division:	Capital - Infrastructure & Operations	Project Type:	
Budget Year:	2021	Active:	Yes

Description	Comments
<p>The project involves the engineering and construction services for upgrading the existing 100 mm distribution watermain, adding a new 400 mm transmission watermain, and adding a new 500 mm forcemain to twin the existing Marshall sanitary pumping station forcemain. An Environmental Assessment will also be conducted to look at upgrading the road to a five lane configuration.</p>	<p>Watermain service along the entire Lakeshore Drive corridor is severely undersized and a new trunk watermain is required to provide adequate water supply. This work was first identified in 1977 and was targeted for construction at the time of reconstruction needs of the road surface to maximize the value of the road asset.</p> <p>In 2003, efforts for the watermain construction commenced; however, the project was postponed due to funding constraints. Since then, the road surface has been rehabilitated through the resurfacing program to extend the life of the existing pavement.</p> <p>The need was more recently confirmed again in the 2008 Infrastructure Background Study that was prepared in support of the Official Plan update. Installation of a trunk watermain from Judge Avenue to Sunset Boulevard will be carried out over three phases - Phase 1 will include Judge Avenue to Gertrude Street, Phase 2 will include Gertrude Street to Marshall Avenue and Phase 3 will include Marshall Avenue to Sunset Blvd. The watermain portion of Phase 3 is currently being constructed in stages by the Public Works Department.</p> <p>The Marshall sanitary pumping station currently has no outlet in proximity to the station to relieve flow in the event of an emergency at the pumping station or a downstream break on the forcemain. During these emergency situations, sewage flows may back up into upstream buildings. A new forcemain to twin the existing forcemain will provide redundancy in the system to mitigate the risks of these emergency situations.</p> <p>Related projects include; 4125RD/ST/SS/WS for Phase 1; 3802RD/SS/WS for Phase 2</p>

Scenario Description	Scenario Comments

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Budget Year	Total Expense	Total Revenue	Difference																		
2028	80,000	80,000	0																		
2030	1,500,000	1,500,000	0																		
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LTD Amount: 0		Total Project Cost: 1,580,000																			

Related Projects	Operating Impacts

Year Identified	Start Date	Useful Life	Manager	Completion Date
2011	Jan 1, 2028	75 Years	Adam Lacombe	Dec 31, 2031

Number:	3802WS	Scenario:	Main
Title:	Lakeshore Dr. - Trunk Watermain and Sewer - Phase 2 - Gertrude to Marshall	Project Stage:	Committee of Council Review
Asset Type:	Asset Improvement and Maintenance (Water and Wastewater)	Strategic Plans:	Growth / Economic Development,...
Division:	Capital - Water	Project Type:	
Budget Year:	2021	Active:	Yes

Description	Comments
<p>The project involves the engineering and construction services for upgrading the existing 100 mm distribution watermain, adding a new 400 mm transmission watermain, and adding a new 500 mm forcemain to twin the existing Marshall sanitary pumping station forcemain. An Environmental Assessment will also be conducted to look at upgrading the road to a five lane configuration.</p>	<p>Watermain service along the entire Lakeshore Drive corridor is severely undersized and a new trunk watermain is required to provide adequate water supply. This work was first identified in 1977 and was targeted for construction at the time of reconstruction needs of the road surface to maximize the value of the road asset.</p> <p>In 2003, efforts for the watermain construction commenced; however, the project was postponed due to funding constraints. Since then, the road surface has been rehabilitated through the resurfacing program to extend the life of the existing pavement.</p> <p>The need was more recently confirmed again in the 2008 Infrastructure Background Study that was prepared in support of the Official Plan update. Installation of a trunk watermain from Judge Avenue to Sunset Boulevard will be carried out over three phases - Phase 1 will include Judge Avenue to Gertrude Street, Phase 2 will include Gertrude Street to Marshall Avenue and Phase 3 will include Marshall Avenue to Sunset Blvd. The watermain portion of Phase 3 is currently being constructed in stages by the Public Works Department.</p> <p>The Marshall sanitary pumping station currently has no outlet in proximity to the station to relieve flow in the event of an emergency at the pumping station or a downstream break on the forcemain. During these emergency situations, sewage flows may back up into upstream buildings. A new forcemain to twin the existing forcemain will provide redundancy in the system to mitigate the risks of these emergency situations.</p> <p>Related projects include; 4125RD/ST/SS/WS for Phase 1; 3802RD/ST/SS for Phase 2</p>

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Related Projects	Operating Impacts

Year Identified	Start Date	Useful Life	Manager	Completion Date
2011	Jan 1, 2028	75 Years	Adam Lacombe	Dec 31, 2031

Number:	3805GD	Scenario:	Main
Title:	Leachate Management - Future Cells	Project Stage:	Committee of Council Review
Asset Type:	Growth (General)	Strategic Plans:	Infrastructure / Sustainability, Environmental,...
Division:	Capital - Infrastructure & Operations	Project Type:	
Budget Year:	2021	Active:	Yes

Description		Comments	
<p>The program provides for the design and construction of landfill cells for the effective leachate management as required by the Merrick Landfill Certificate of Approval. It includes the capping and closing of the preceding landfill cells and lining of future landfill cells as well as the construction and expansion of a leachate collection, pumping and infiltration and control systems.</p>		<p>The project is necessary to manage untreated leachate quantities in compliance with the Landfill's Certificate of Approval and prior to leachate treatment. Cell closing and expansion occurs approximately every 4-5 years.</p> <p>Project is partially funded by the Merrick Landfill Reserve (99515R).</p> <p>Related projects include 3830GD.</p>	
Scenario Description		Scenario Comments	
Forecast		Project Detailed 2021	
Budget Year	Total Expense	Total Revenue	Difference
2023	250,000	250,000	0
2025	2,200,000	2,200,000	0
2029	250,000	250,000	0
	2,700,000	2,700,000	0
LTD Amount: 1,995,000		Total Project Cost: 4,695,000	
Related Projects		Operating Impacts	
Year Identified	Start Date	Useful Life	Manager
2013	Jan 1, 2019	25 Years	Karin Pratte
			Completion Date
			Dec 31, 2029

Number:	3807WS	Scenario:	Main
Title:	Ellendale Generator Replacement	Project Stage:	Committee of Council Review
Asset Type:	Asset Improvement and Maintenance (Water and Wastewater)	Strategic Plans:	Infrastructure / Sustainability, Maintenance
Division:	Capital - Water	Project Type:	
Budget Year:	2021	Active:	Yes

Description	Comments
The generator at Ellendale reservoir is critical to ensure the reliable supply of drinking water to the airport hill area (zones 3, 4, 5). The reliability of the generator and availability of qualified maintenance personnel is limited.	This project provides for the engineering and replacement of the generator, control panel and SCADA control system.

Scenario Description	Scenario Comments

Forecast	Project Detailed 2021																																								
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Related Projects	Operating Impacts

Year Identified	Start Date	Useful Life	Manager	Completion Date
2016	Jan 1, 2018	TBD	Karin Pratte	Dec 31, 2021

Number:	3809RD	Scenario:	Main
Title:	Hammond St. Bridge Replacement	Project Stage:	Committee of Council Review
Asset Type:	Asset Improvement and Maintenance (General)	Strategic Plans:	Infrastructure / Sustainability
Division:	Capital - Infrastructure & Operations	Project Type:	
Budget Year:	2021	Active:	Yes

Description	Comments
The project involves the removal and replacement of the Hammond Street Bridge. The bridge will be replaced by a box culvert type structure.	The removal of the Hammond Street bridge across Chippewa Creek was the original preferred alternative derived from an Environmental Assessment to look at the various alternatives. Design work completed since then has determined that the costs to remove the existing bridge and create two cul-de-sacs are comparable to the costs to install a new box culvert (culverts on Chippewa Creek at Milani, O'Brien, and High have recently been replaced with box culverts and demonstrated it to be an economical option). A new box culvert on Hammond would also maintain the current ease of snow clearing maintenance compared with two new cul-de-sacs.

Scenario Description	Scenario Comments

Forecast	Project Detailed 2021																																											
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Related Projects	Operating Impacts

Year Identified	Start Date	Useful Life	Manager	Completion Date
2010	Jan 1, 2019	75 Years	Reid Porter	Dec 31, 2021

Number:	3810RD	Scenario:	Main
Title:	Main St. - Gormanville to Memorial	Project Stage:	Committee of Council Review
Asset Type:	Growth (General)	Strategic Plans:	Growth / Economic Development,...
Division:	Capital - Infrastructure & Operations	Project Type:	
Budget Year:	2021	Active:	Yes

Description	Comments
The project involves the engineering and construction services to upgrade the sanitary trunk sewer from Gormanville Road to Memorial Drive (an approximate length of 1,500 meters). The sewer alignment will follow Main Street from Gormanville Road to Harriet Street, Harriet Street from Main Street to Nipissing Street and CP Rail lands from Nipissing Street to Memorial Drive.	The 2008 Infrastructure Background Study prepared in support of the Official Plan update identified that the existing trunk sewer will be undersized to support future development including the Cedar Heights area, Canadore College and Nipissing University expansion and Main West commercial development. A contract for engineering services was awarded to an engineering consultant in 2009 and included preliminary design. Upgrading the road to a proper Collector standard will be evaluated, including upgrading to curb and gutter and storm sewer system. Also, the condition of the watermain will be evaluated for repair/rehab/reconstruction needs. Related projects include 3810ST/SS/WS.

Scenario Description	Scenario Comments

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Related Projects	Operating Impacts

Year Identified	Start Date	Useful Life	Manager	Completion Date
2009	Jan 1, 2028	25 Years	Adam Lacombe	Dec 31, 2031

Number:	3810SS	Scenario:	Main
Title:	Main St. - Gormanville to Memorial	Project Stage:	Committee of Council Review
Asset Type:	Growth (Water and Wastewater)	Strategic Plans:	Growth / Economic Development,...
Division:	Capital - Sewer	Project Type:	
Budget Year:	2021	Active:	Yes

Description	Comments
The project involves the engineering and construction services to upgrade the sanitary trunk sewer from Gormanville Road to Memorial Drive (an approximate length of 1,500 meters). The sewer alignment will follow Main Street from Gormanville Road to Harriet Street, Harriet Street from Main Street to Nipissing Street and CP Rail lands from Nipissing Street to Memorial Drive.	<p>The 2008 Infrastructure Background Study prepared in support of the Official Plan update identified that the existing trunk sewer will be undersized to support future development including the Cedar Heights area, Canadore College and Nipissing University expansion and Main West commercial development. A contract for engineering services was awarded to an engineering consultant in 2009 and included preliminary design.</p> <p>Upgrading the road to a proper Collector standard will be evaluated, including upgrading to curb and gutter and storm sewer system.</p> <p>Also, the condition of the watermain will be evaluated for repair/rehab/reconstruction needs.</p> <p>Related projects include 3810RD/ST/WS.</p>

Scenario Description	Scenario Comments

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Related Projects	Operating Impacts

Year Identified	Start Date	Useful Life	Manager	Completion Date
2009	Jan 1, 2028	75 Years	Adam Lacombe	Dec 31, 2031

Number:	3810ST	Scenario:	Main
Title:	Main St. - Gormanville to Memorial	Project Stage:	Committee of Council Review
Asset Type:	Growth (General)	Strategic Plans:	Growth / Economic Development,...
Division:	Capital - Infrastructure & Operations	Project Type:	
Budget Year:	2021	Active:	Yes

Description	Comments
The project involves the engineering and construction services to upgrade the sanitary trunk sewer from Gormanville Road to Memorial Drive (an approximate length of 1,500 meters). The sewer alignment will follow Main Street from Gormanville Road to Harriet Street, Harriet Street from Main Street to Nipissing Street and CP Rail lands from Nipissing Street to Memorial Drive.	The 2008 Infrastructure Background Study prepared in support of the Official Plan update identified that the existing trunk sewer will be undersized to support future development including the Cedar Heights area, Canadore College and Nipissing University expansion and Main West commercial development. A contract for engineering services was awarded to an engineering consultant in 2009 and included preliminary design. Upgrading the road to a proper Collector standard will be evaluated, including upgrading to curb and gutter and storm sewer system. Also, the condition of the watermain will be evaluated for repair/rehab/reconstruction needs. Related projects include 3810RD/SS/WS.

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Related Projects	Operating Impacts

Year Identified	Start Date	Useful Life	Manager	Completion Date
2009	Jan 1, 2028	75 Years	Adam Lacombe	Dec 31, 2031

Number:	3810WS	Scenario:	Main
Title:	Main St. - Gormanville to Memorial	Project Stage:	Committee of Council Review
Asset Type:	Growth (Water and Wastewater)	Strategic Plans:	Growth / Economic Development,...
Division:	Capital - Water	Project Type:	
Budget Year:	2021	Active:	Yes

Description	Comments
The project involves the engineering and construction services to upgrade the sanitary trunk sewer from Gormanville Road to Memorial Drive (an approximate length of 1,500 meters). The sewer alignment will follow Main Street from Gormanville Road to Harriet Street, Harriet Street from Main Street to Nipissing Street and CP Rail lands from Nipissing Street to Memorial Drive.	The 2008 Infrastructure Background Study prepared in support of the Official Plan update identified that the existing trunk sewer will be undersized to support future development including the Cedar Heights area, Canadore College and Nipissing University expansion and Main West commercial development. A contract for engineering services was awarded to an engineering consultant in 2009 and included preliminary design. Upgrading the road to a proper Collector standard will be evaluated, including upgrading to curb and gutter and storm sewer system. Also, the condition of the watermain will be evaluated for repair/rehab/reconstruction needs. Related projects include 3810RD/ST/SS.

Scenario Description	Scenario Comments

Forecast	Project Detailed 2021																				
<table border="1"> <thead> <tr> <th>Budget Year</th> <th>Total Expense</th> <th>Total Revenue</th> <th>Difference</th> </tr> </thead> <tbody> <tr> <td>2028</td> <td>60,000</td> <td>60,000</td> <td>0</td> </tr> <tr> <td>2030</td> <td>1,200,000</td> <td>1,200,000</td> <td>0</td> </tr> <tr> <td></td> <td>1,260,000</td> <td>1,260,000</td> <td>0</td> </tr> <tr> <td colspan="2">LTD Amount: 0</td> <td colspan="2">Total Project Cost: 1,260,000</td> </tr> </tbody> </table>	Budget Year	Total Expense	Total Revenue	Difference	2028	60,000	60,000	0	2030	1,200,000	1,200,000	0		1,260,000	1,260,000	0	LTD Amount: 0		Total Project Cost: 1,260,000		
Budget Year	Total Expense	Total Revenue	Difference																		
2028	60,000	60,000	0																		
2030	1,200,000	1,200,000	0																		
	1,260,000	1,260,000	0																		
LTD Amount: 0		Total Project Cost: 1,260,000																			

Related Projects	Operating Impacts

Year Identified	Start Date	Useful Life	Manager	Completion Date
2009	Jan 1, 2028	75 Years	Adam Lacombe	Dec 31, 2031

Number:	3812RD	Scenario:	Main
Title:	Lakeshore Dr. (ONR Overpass)	Project Stage:	Committee of Council Review
Asset Type:	Asset Improvement and Maintenance (General)	Strategic Plans:	Infrastructure / Sustainability
Division:	Capital - Infrastructure & Operations	Project Type:	
Budget Year:	2021	Active:	Yes

Description	Comments
The project involves the necessary remedial works to the structure to repair various components of the Lakeshore Drive Overpass (over ONR and CP Rail).	The Lakeshore Drive Overpass is the City's largest bridge structure. Major rehab and reconstruction works were carried out in 2016/2017 including the abutments, abutment seats, piers, pier caps, etc. , as well as replacement of the bridge deck including asphalt, sidewalks, curb and gutter, barrier wall and street lights. Additional rehab works have been identified for the future.

Scenario Description	Scenario Comments
	The following details support the Capital Forecast for 2022 to 2030: 2026 Perform a bridge inspection and assessment 2028 Repairs and rehab based on the assessment performed in 2026

Forecast	Project Detailed 2021																				
<table border="1"> <thead> <tr> <th>Budget Year</th> <th>Total Expense</th> <th>Total Revenue</th> <th>Difference</th> </tr> </thead> <tbody> <tr> <td>2026</td> <td>25,000</td> <td>25,000</td> <td>0</td> </tr> <tr> <td>2028</td> <td>250,000</td> <td>250,000</td> <td>0</td> </tr> <tr> <td></td> <td>275,000</td> <td>275,000</td> <td>0</td> </tr> <tr> <td colspan="2">LTD Amount: 0</td> <td colspan="2">Total Project Cost: 275,000</td> </tr> </tbody> </table>	Budget Year	Total Expense	Total Revenue	Difference	2026	25,000	25,000	0	2028	250,000	250,000	0		275,000	275,000	0	LTD Amount: 0		Total Project Cost: 275,000		
Budget Year	Total Expense	Total Revenue	Difference																		
2026	25,000	25,000	0																		
2028	250,000	250,000	0																		
	275,000	275,000	0																		
LTD Amount: 0		Total Project Cost: 275,000																			

Related Projects	Operating Impacts

Year Identified	Start Date	Useful Life	Manager	Completion Date
2018	Jan 1, 2026	25 Years	Adam Lacombe	Dec 31, 2028

Number:	3813RD	Scenario:	Main
Title:	Trout Lake Rd. (ONR Overpass)	Project Stage:	Committee of Council Review
Asset Type:	Asset Improvement and Maintenance (General)	Strategic Plans:	Infrastructure / Sustainability
Division:	Capital - Infrastructure & Operations	Project Type:	
Budget Year:	2021	Active:	Yes

Description	Comments
The project involves the necessary remedial works to repair the Trout Lake Road Overpass over the ONR tracks.	The Trout Lake Road Overpass is the City's second largest bridge structure. Significant rehab works were carried out in 2017 including rehabilitation to the wearing surface, sidewalk, curb, median and barrier walls. Additional rehab works have been identified for the future.

Scenario Description	Scenario Comments
	The following details support the Capital Forecast for 2022 to 2030: 2026 Perform a bridge inspection and assessment 2028 Repairs and rehab based on the assessment performed in 2026

Forecast	Project Detailed 2021																				
<table border="1"> <thead> <tr> <th>Budget Year</th> <th>Total Expense</th> <th>Total Revenue</th> <th>Difference</th> </tr> </thead> <tbody> <tr> <td>2026</td> <td>25,000</td> <td>25,000</td> <td>0</td> </tr> <tr> <td>2028</td> <td>250,000</td> <td>250,000</td> <td>0</td> </tr> <tr> <td></td> <td>275,000</td> <td>275,000</td> <td>0</td> </tr> <tr> <td colspan="2">LTD Amount: 0</td> <td colspan="2">Total Project Cost: 275,000</td> </tr> </tbody> </table>	Budget Year	Total Expense	Total Revenue	Difference	2026	25,000	25,000	0	2028	250,000	250,000	0		275,000	275,000	0	LTD Amount: 0		Total Project Cost: 275,000		
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2026	25,000	25,000	0																		
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	275,000	275,000	0																		
LTD Amount: 0		Total Project Cost: 275,000																			

Related Projects	Operating Impacts

Year Identified	Start Date	Useful Life	Manager	Completion Date
2018	Jan 1, 2026	25 Years	Adam Lacombe	Dec 31, 2028

Number:	3814RD	Scenario:	Main
Title:	Lees Road Reconstruction	Project Stage:	Committee of Council Review
Asset Type:	Asset Improvement and Maintenance (General)	Strategic Plans:	Infrastructure / Sustainability
Division:	Capital - Infrastructure & Operations	Project Type:	
Budget Year:	2021	Active:	Yes

Description		Comments	
The project involves the engineering and construction services for reconstruction of the road. Engineering services will include preliminary design, detailed design, agency approvals, contract drawings, specifications, tendering, and construction.		The road structure is nearing the end of its useful life and will need to be reconstructed. Road geometry will also be evaluated for improvement to meet current industry standards.	

Scenario Description		Scenario Comments	

Forecast		Project Detailed 2021	
Budget Year	Total Expense	Total Revenue	Difference
2022	2,400,000	2,400,000	0
2024	2,200,000	2,200,000	0
	4,600,000	4,600,000	0
LTD Amount: 200,000		Total Project Cost: 4,800,000	

Related Projects		Operating Impacts	

Year Identified	Start Date	Useful Life	Manager	Completion Date
2018	Jan 1, 2020	25 Years	Reid Porter	Dec 31, 2024

Number:	3815RD	Scenario:	Main
Title:	Trout Lake Road Retaining Wall Replacement	Project Stage:	Committee of Council Review
Asset Type:	Asset Improvement and Maintenance (General)	Strategic Plans:	Infrastructure / Sustainability
Division:	Capital - Infrastructure & Operations	Project Type:	
Budget Year:	2021	Active:	Yes

Description	Comments
The project involves the engineering and construction services for the rehab/reconstruction of the retaining wall and storm drainage system. Engineering services will include preliminary design, detailed design, agency approvals, contract drawings, specifications, tendering, and construction technical assistance.	<p>The existing retaining wall located between Lakeheights Road and Lees Road on the north side of Trout Lake Road has significant cracking. A condition assessment was carried out in 2016 which identified that retaining wall was subject to alkali–aggregate reaction - an irreversible condition causing expansion and cracking. The wall will need replacement or significant rehabilitation to extend some life in the wall.</p> <p>In addition, the retaining wall drainage system is not performing properly, especially during the spring melt, leading to water pooling on the adjacent roadway.</p> <p>Project 4006RD involves the reconstruction of the roadway adjacent to the wall.</p> <p>Related project includes 3815ST and 4006RD.</p>

Scenario Description	Scenario Comments

Forecast	Project Detailed 2021																								
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Budget Year	Total Expense	Total Revenue	Difference																						
2022	50,000	50,000	0																						
2026	1,250,000	1,250,000	0																						
2027	1,250,000	1,250,000	0																						
	2,550,000	2,550,000	0																						
LTD Amount: 0	Total Project Cost: 2,550,000																								

Related Projects	Operating Impacts

Year Identified	Start Date	Useful Life	Manager	Completion Date
2018	Jan 1, 2022	50 Years	Adam Lacombe	Dec 31, 2027

Number:	3815ST	Scenario:	Main
Title:	Trout Lake Road Retaining Wall Replacement	Project Stage:	Committee of Council Review
Asset Type:	Asset Improvement and Maintenance (General)	Strategic Plans:	Infrastructure / Sustainability
Division:	Capital - Infrastructure & Operations	Project Type:	
Budget Year:	2021	Active:	Yes

Description	Comments
The project involves the engineering and construction services for the rehab/reconstruction of the retaining wall and storm drainage system. Engineering services will include preliminary design, detailed design, agency approvals, contract drawings, specifications, tendering, and construction technical assistance.	<p>The existing retaining wall located between Lakeheights Road and Lees Road on the north side of Trout Lake Road has significant cracking. A condition assessment was carried out in 2016 which identified that retaining wall was subject to alkali-aggregate reaction - an irreversible condition causing expansion and cracking. The wall will need replacement or significant rehabilitation to extend some life in the wall.</p> <p>In addition, the retaining wall drainage system is not performing properly, especially during the spring melt, leading to water pooling on the adjacent roadway.</p> <p>Project 4006RD involves the reconstruction of the roadway adjacent to the wall.</p> <p>Related project includes 3815RD and 4006RD.</p>

Scenario Description	Scenario Comments

Forecast	Project Detailed 2021																				
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Budget Year	Total Expense	Total Revenue	Difference																		
2022	15,000	15,000	0																		
2027	250,000	250,000	0																		
	265,000	265,000	0																		
LTD Amount: 0		Total Project Cost: 265,000																			

Related Projects	Operating Impacts

Year Identified	Start Date	Useful Life	Manager	Completion Date
2018	Jan 1, 2022	75 Years	Adam Lacombe	Dec 31, 2027

Number:	3818RD	Scenario:	Main
Title:	Premier Pumping Station Replacement	Project Stage:	Committee of Council Review
Asset Type:	Asset Improvement and Maintenance (General)	Strategic Plans:	Infrastructure / Sustainability
Division:	Capital - Infrastructure & Operations	Project Type:	
Budget Year:	2021	Active:	Yes

Description		Comments	
The project involves the replacement of the Premier lift station as well as all of the equipment within.		The station is at the end of its useful life. Related project includes 3818SS.	

Scenario Description		Scenario Comments	
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Forecast		Project Detailed 2021	
Budget Year	Total Expense	Total Revenue	Difference
2022	450,000	450,000	0
	450,000	450,000	0
LTD Amount: 200,000		Total Project Cost: 650,000	

Related Projects		Operating Impacts	
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Year Identified	Start Date	Useful Life	Manager	Completion Date
2018	Jan 1, 2021	25 Years	Gerry McCrank	Dec 31, 2022

Number:	3818SS	Scenario:	Main
Title:	Premier Pumping Station Replacement	Project Stage:	Committee of Council Review
Asset Type:	Asset Improvement and Maintenance (Water and Wastewater)	Strategic Plans:	Infrastructure / Sustainability
Division:	Capital - Sewer	Project Type:	
Budget Year:	2021	Active:	Yes

Description	Comments
The program will allow for the replacement of the Premier lift station as well as all of the equipment within.	The station is at the end of its useful life. Related project includes 3818RD.

Scenario Description	Scenario Comments

Forecast	Project Detailed 2021																
<table border="1"> <thead> <tr> <th>Budget Year</th> <th>Total Expense</th> <th>Total Revenue</th> <th>Difference</th> </tr> </thead> <tbody> <tr> <td>2022</td> <td>2,370,000</td> <td>2,370,000</td> <td>0</td> </tr> <tr> <td></td> <td>2,370,000</td> <td>2,370,000</td> <td>0</td> </tr> <tr> <td colspan="2">LTD Amount: 480,000</td> <td colspan="2">Total Project Cost: 2,850,000</td> </tr> </tbody> </table>	Budget Year	Total Expense	Total Revenue	Difference	2022	2,370,000	2,370,000	0		2,370,000	2,370,000	0	LTD Amount: 480,000		Total Project Cost: 2,850,000		
Budget Year	Total Expense	Total Revenue	Difference														
2022	2,370,000	2,370,000	0														
	2,370,000	2,370,000	0														
LTD Amount: 480,000		Total Project Cost: 2,850,000															

Related Projects	Operating Impacts

Year Identified	Start Date	Useful Life	Manager	Completion Date
2018	Jan 1, 2021	50 Years	Gerry McCrank	Dec 31, 2022

Number:	3823FD	Scenario:	Main
Title:	Fire Master Plan	Project Stage:	Committee of Council Review
Asset Type:	Strategic Investment (General)	Strategic Plans:	Master Plans
Division:	Capital - Community Services	Project Type:	
Budget Year:	2021	Active:	Yes

Description		Comments	
The purpose of this project is to identify the fire protection needs of the community in the short and long term and to balance these needs against the municipal goals and objectives.		The Fire Master Plan will set the direction of Fire and Emergency Services keeping pace with corporate needs and goals.	

Scenario Description		Scenario Comments	
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Forecast		Project Detailed 2021	
Budget Year	Total Expense	Total Revenue	Difference
2022	50,000	50,000	0
	50,000	50,000	0
LTD Amount: 0	Total Project Cost: 50,000		

Related Projects		Operating Impacts	
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Year Identified	Start Date	Useful Life	Manager	Completion Date
2018	Jan 1, 2022	TBD	Jason Whiteley	Dec 31, 2022

Number:	3825SS	Scenario:	Main
Title:	Wastewater Treatment Plant - Intake Chamber Replacement	Project Stage:	Committee of Council Review
Asset Type:	Asset Improvement and Maintenance (Water and Wastewater)	Strategic Plans:	Infrastructure / Sustainability, Maintenance
Division:	Capital - Sewer	Project Type:	
Budget Year:	2021	Active:	Yes

Description	Comments
This project provides for the rehabilitation / replacement of the Wastewater Treatment Plant intake chamber.	The sewage intake chamber has been identified as being past its anticipated service life and is due for significant rehabilitation or replacement. There is currently only one intake chamber which receives all sewage for the entire City of North Bay. This project will look at the option to create a second intake chamber for redundancy and to increase reliability and looks at options for flood mitigation of the intake chambers when Lake Nipissing levels become high.

Scenario Description	Scenario Comments

Forecast	Project Detailed 2021																								
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Budget Year	Total Expense	Total Revenue	Difference																						
2022	200,000	200,000	0																						
2023	2,800,000	2,800,000	0																						
2024	1,700,000	1,700,000	0																						
	4,700,000	4,700,000	0																						
LTD Amount: 0		Total Project Cost: 4,700,000																							

Related Projects	Operating Impacts

Year Identified	Start Date	Useful Life	Manager	Completion Date
2018	Jan 1, 2022	80 Years	Karin Pratte	Dec 31, 2024

Number:	3826SS	Scenario:	Main
Title:	Pumping Station Replacement	Project Stage:	Committee of Council Review
Asset Type:	Asset Improvement and Maintenance (Water and Wastewater)	Strategic Plans:	Infrastructure / Sustainability
Division:	Capital - Sewer	Project Type:	
Budget Year:	2021	Active:	Yes

Description		Comments	
The project involves the engineering and construction services for the rehab/reconstruction of various sanitary pumping stations. Engineering services will include preliminary design, detailed design, agency approvals, contract drawings, specifications, tendering, and construction.		A condition assessment will be undertaken on all of the pumping stations and the most critical replacements will be prioritized.	

Scenario Description		Scenario Comments	

Forecast		Project Detailed 2021																																					
<table border="1"> <thead> <tr> <th>Budget Year</th> <th>Total Expense</th> <th>Total Revenue</th> <th>Difference</th> </tr> </thead> <tbody> <tr> <td>2023</td> <td>2,500,000</td> <td>2,500,000</td> <td>0</td> </tr> <tr> <td>2024</td> <td>5,000,000</td> <td>5,000,000</td> <td>0</td> </tr> <tr> <td>2027</td> <td>1,500,000</td> <td>1,500,000</td> <td>0</td> </tr> <tr> <td>2028</td> <td>5,000,000</td> <td>5,000,000</td> <td>0</td> </tr> <tr> <td>2029</td> <td>2,500,000</td> <td>2,500,000</td> <td>0</td> </tr> <tr> <td>2030</td> <td>3,500,000</td> <td>3,500,000</td> <td>0</td> </tr> <tr> <td></td> <td>20,000,000</td> <td>20,000,000</td> <td>0</td> </tr> <tr> <td colspan="2">LTD Amount: 0</td> <td colspan="2">Total Project Cost: 20,000,000</td> </tr> </tbody> </table>	Budget Year	Total Expense	Total Revenue	Difference	2023	2,500,000	2,500,000	0	2024	5,000,000	5,000,000	0	2027	1,500,000	1,500,000	0	2028	5,000,000	5,000,000	0	2029	2,500,000	2,500,000	0	2030	3,500,000	3,500,000	0		20,000,000	20,000,000	0	LTD Amount: 0		Total Project Cost: 20,000,000				
Budget Year	Total Expense	Total Revenue	Difference																																				
2023	2,500,000	2,500,000	0																																				
2024	5,000,000	5,000,000	0																																				
2027	1,500,000	1,500,000	0																																				
2028	5,000,000	5,000,000	0																																				
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2030	3,500,000	3,500,000	0																																				
	20,000,000	20,000,000	0																																				
LTD Amount: 0		Total Project Cost: 20,000,000																																					

Related Projects		Operating Impacts	

Year Identified	Start Date	Useful Life	Manager	Completion Date
2018	Jan 1, 2023	50 Years	Adam Lacombe	Dec 31, 2030

Number:	3829SS	Scenario:	Main
Title:	Wastewater Treatment Plant - Structural Repair	Project Stage:	Committee of Council Review
Asset Type:	Asset Improvement and Maintenance (Water and Wastewater)	Strategic Plans:	Infrastructure / Sustainability, Maintenance
Division:	Capital - Sewer	Project Type:	
Budget Year:	2021	Active:	Yes

Description	Comments
<p>The project provides for design and construction related to structural repairs required at the Wastewater Treatment Plant in accordance with recommendations outlined in the 2011 condition assessment.</p> <p>Other structural repairs of buildings, roofs, tunnels and channels are also required.</p>	<p>The Wastewater Treatment Plant has many concrete tanks that are used for process treatment streams. Although most of the tanks are relatively new (constructed in 1983) and their structural integrity generally appears satisfactory, all exposed concrete elements of the tanks show a great deal of cracking in the walls. The tanks' expansion joints are generally in poor condition and overgrown with vegetation in some locations. Joints have spilled and must be repaired before further serious damage and leaking occurs.</p>

Scenario Description	Scenario Comments

Forecast	Project Detailed 2021																																																							
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Expense																																																								
3425	CONSTRUCTION CONTRACT	675,790																																																						
7010	ADMINISTRATON & OVERHEAD	13,792																																																						
	Total Expense:	689,582																																																						
Revenue																																																								
0461	TSF FRM REV FUND-PAYGO	192,582																																																						
0470	TSF FROM RESERVE FUND	497,000																																																						
	Total Revenue:	689,582																																																						

Related Projects	Operating Impacts

Year Identified	Start Date	Useful Life	Manager	Completion Date
2013	Jan 1, 2018	25 Years	Karin Pratte	Dec 31, 2024

Number:	3830GD	Scenario:	Main
Title:	Merrick Landfill Gas (LFG) Collection Infrastructure	Project Stage:	Committee of Council Review
Asset Type:	Growth (General)	Strategic Plans:	Environmental
Division:	Capital - Infrastructure & Operations	Project Type:	
Budget Year:	2021	Active:	Yes

Description		Comments	
The program involves the construction of LFG collection system in each of the landfill cells as the landfill expands. Collection system includes piping, valves, controls and wells.		Collection of landfill gases is necessary to remain compliant with Merrick Landfill's Certificate of Approval and to efficiently supply landfill gas to Merrick's Gas Utilization System. Expansion is related to the timing of the filling of the working Cell and Landfill Leachate Management Cell expansion which is done, approximately, every 4-5 years. Funding from Merrick Reserves (99515R) will be utilized.	
		Related project includes 3805GD.	

Scenario Description		Scenario Comments	

Forecast				Project Detailed 2021		
Budget Year	Total Expense	Total Revenue	Difference	GL Account	Description	Total Amount
2021	150,000	150,000	0	Expense		
2022	600,000	600,000	0	3117	DESIGN FEES	147,000
2025	150,000	150,000	0	7010	ADMINISTRATON & OVERHEAD	3,000
2026	650,000	650,000	0	Total Expense:		150,000
2029	150,000	150,000	0	Revenue		
	1,700,000	1,700,000	0	0470	TSF FROM RESERVE FUND	150,000
LTD Amount: 0	Total Project Cost: 1,700,000			Total Revenue:		150,000

Related Projects			Operating Impacts	
Year Identified	Start Date	Useful Life	Manager	
2014	Jan 1, 2021	20 Years	Karin Pratte	
			Completion Date	
			Dec 31, 2029	

Number:	3831ST	Scenario:	Main
Title:	Stormwater Outfall Repair and Rehabilitation	Project Stage:	Committee of Council Review
Asset Type:	Asset Improvement and Maintenance (General)	Strategic Plans:	Infrastructure / Sustainability, Maintenance
Division:	Capital - Infrastructure & Operations	Project Type:	
Budget Year:	2021	Active:	Yes

Description	Comments
<p>The project involves the engineering and construction services for corrective measures to various storm sewer outfalls to Lake Nipissing.</p> <p>Engineering services will include condition inspections, contract drawings, specifications, tendering and construction.</p>	<p>There are a number of storm outlet structures at or nearing the end of their service life with critical deficiencies and risk of failure. The mitigation measures will include both repair works to current deficiencies and proactive works to prevent the further deterioration and failure of the highest risk outlets.</p> <p>In 2015 a study was completed that included inventorying the outfalls and identifying the most critical needs. In future years, work will involve design and construction of the corrective measures, which will include erosion control treatments, flushing and pipe repairs. The work will be constructed in multiple phases.</p>

Scenario Description	Scenario Comments

Forecast	Project Detailed 2021																																																
<table border="1"> <thead> <tr> <th>Budget Year</th> <th>Total Expense</th> <th>Total Revenue</th> <th>Difference</th> </tr> </thead> <tbody> <tr> <td>2021</td> <td>250,000</td> <td>250,000</td> <td>0</td> </tr> <tr> <td>2022</td> <td>50,000</td> <td>50,000</td> <td>0</td> </tr> <tr> <td>2024</td> <td>200,000</td> <td>200,000</td> <td>0</td> </tr> <tr> <td></td> <td>500,000</td> <td>500,000</td> <td>0</td> </tr> <tr> <td>LTD Amount: 0</td> <td></td> <td>Total Project Cost: 500,000</td> <td></td> </tr> </tbody> </table>	Budget Year	Total Expense	Total Revenue	Difference	2021	250,000	250,000	0	2022	50,000	50,000	0	2024	200,000	200,000	0		500,000	500,000	0	LTD Amount: 0		Total Project Cost: 500,000		<table border="1"> <thead> <tr> <th>GL Account</th> <th>Description</th> <th>Total Amount</th> </tr> </thead> <tbody> <tr> <td colspan="3">Expense</td> </tr> <tr> <td>3425</td> <td>CONSTRUCTION CONTRACT</td> <td>245,000</td> </tr> <tr> <td>7010</td> <td>ADMINISTRATON & OVERHEAD</td> <td>5,000</td> </tr> <tr> <td></td> <td>Total Expense:</td> <td>250,000</td> </tr> <tr> <td colspan="3">Revenue</td> </tr> <tr> <td>0461</td> <td>TSF FRM REV FUND-PAYGO</td> <td>250,000</td> </tr> <tr> <td></td> <td>Total Revenue:</td> <td>250,000</td> </tr> </tbody> </table>	GL Account	Description	Total Amount	Expense			3425	CONSTRUCTION CONTRACT	245,000	7010	ADMINISTRATON & OVERHEAD	5,000		Total Expense:	250,000	Revenue			0461	TSF FRM REV FUND-PAYGO	250,000		Total Revenue:	250,000
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Related Projects	Operating Impacts

Year Identified	Start Date	Useful Life	Manager	Completion Date
2011	Jan 1, 2021	50 Years	Adam Lacombe	Dec 31, 2029

Number:	3900RD	Scenario:	Main
Title:	Cedar Heights Rd. - Highway 11 to Larocque Urban Upgrade and Watermain	Project Stage:	Committee of Council Review
Asset Type:	Strategic Investment (General)	Strategic Plans:	Growth / Economic Development,...
Division:	Capital - Infrastructure & Operations	Project Type:	
Budget Year:	2021	Active:	Yes

Description	Comments
<p>The project involves the engineering and construction services for the first phase of the looping of Water Zone 2B (Cedar Heights) to Water Zone 3 (Ellendale) as a second feed to both water zones.</p> <p>The project will include reconstruction of Cedar Heights Road as well as installation of a new sanitary sewer.</p> <p>This will be the first phase of the project and will extend from the College Drive/Larocque Road intersection easterly approximately 800 m. The services will extend from the existing services at the College Drive/Larocque Road intersection.</p>	<p>The need was identified in the 2008 Infrastructure Background Study that was prepared in support of the Official Plan update. Installation of a trunk watermain to loop Zone 2B and Zone 3 along Cedar Heights Road and Golf Club Road will provide a second feed to both areas and provide a key reinforcement of these systems.</p> <p>Related projects include 3900ST/SS/WS.</p>

Scenario Description	Scenario Comments

Forecast	Project Detailed 2021																																																
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Related Projects	Operating Impacts

Year Identified	Start Date	Useful Life	Manager	Completion Date
2011	Jan 1, 2021	25 Years	Adam Lacombe	Dec 31, 2029

Number:	3900SS	Scenario:	Main
Title:	Cedar Heights Rd. - Highway 11 to Larocque Urban Upgrade and Watermain	Project Stage:	Committee of Council Review
Asset Type:	Strategic Investment (Water and Wastewater)	Strategic Plans:	Growth / Economic Development,...
Division:	Capital - Sewer	Project Type:	
Budget Year:	2021	Active:	Yes

Description	Comments
<p>The project involves the engineering and construction services for the first phase of the looping of Water Zone 2B (Cedar Heights) to Water Zone 3 (Ellendale) as a second feed to both water zones.</p> <p>The project will include reconstruction of Cedar Heights Road as well as installation of a new sanitary sewer.</p> <p>This will be the first phase of the project and will extend from the College Drive/Larocque Road intersection easterly approximately 800 m. The services will extend from the existing services at the College Drive/Larocque Road intersection.</p>	<p>The need was identified in the 2008 Infrastructure Background Study that was prepared in support of the Official Plan update. Installation of a trunk watermain to loop Zone 2B and Zone 3 along Cedar Heights Road and Golf Club Road will provide a second feed to both areas and provide a key reinforcement of these systems.</p> <p>Related projects include 3900RD/ST/WS.</p>

Scenario Description	Scenario Comments

Forecast	Project Detailed 2021																																																
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Related Projects	Operating Impacts

Year Identified	Start Date	Useful Life	Manager	Completion Date
2014	Jan 1, 2021	75 Years	Adam Lacombe	Dec 31, 2029

Number:	3900ST	Scenario:	Main
Title:	Cedar Heights Rd. - Highway 11 to Larocque Urban Upgrade and Watermain	Project Stage:	Committee of Council Review
Asset Type:	Strategic Investment (General)	Strategic Plans:	Growth / Economic Development,...
Division:	Capital - Infrastructure & Operations	Project Type:	
Budget Year:	2021	Active:	Yes

Description	Comments
<p>The project involves the engineering and construction services for the first phase of the looping of Water Zone 2B (Cedar Heights) to Water Zone 3 (Ellendale) as a second feed to both water zones.</p> <p>The project will include reconstruction of Cedar Heights Road as well as installation of a new sanitary sewer.</p> <p>This will be the first phase of the project and will extend from the College Drive/Larocque Road intersection easterly approximately 800 m. The services will extend from the existing services at the College Drive/Larocque Road intersection.</p>	<p>The need was identified in the 2008 Infrastructure Background Study that was prepared in support of the Official Plan update. Installation of a trunk watermain to loop Zone 2B and Zone 3 along Cedar Heights Road and Golf Club Road will provide a second feed to both areas and provide a key reinforcement of these systems.</p> <p>Related projects include 3900RD/SS/WS.</p>

Scenario Description	Scenario Comments

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Related Projects	Operating Impacts

Year Identified	Start Date	Useful Life	Manager	Completion Date
2011	Jan 1, 2021	75 Years	Adam Lacombe	Dec 31, 2029

Number:	3900WS	Scenario:	Main
Title:	Cedar Heights Rd. - Highway 11 to Larocque Urban Upgrade and Watermain	Project Stage:	Committee of Council Review
Asset Type:	Strategic Investment (Water and Wastewater)	Strategic Plans:	Growth / Economic Development,...
Division:	Capital - Water	Project Type:	
Budget Year:	2021	Active:	Yes

Description	Comments
<p>The project involves the engineering and construction services for the first phase of the looping of Water Zone 2B (Cedar Heights) to Water Zone 3 (Ellendale) as a second feed to both water zones.</p> <p>The project will include reconstruction of Cedar Heights Road as well as installation of a new sanitary sewer.</p> <p>This will be the first phase of the project and will extend from the College Drive/Larocque Road intersection easterly approximately 800 m. The services will extend from the existing services at the College Drive/Larocque Road intersection.</p>	<p>The need was identified in the 2008 Infrastructure Background Study that was prepared in support of the Official Plan update. Installation of a trunk watermain to loop Zone 2B and Zone 3 along Cedar Heights Road and Golf Club Road will provide a second feed to both areas and provide a key reinforcement of these systems.</p> <p>Related projects include 3900RD/ST/SS.</p>

Scenario Description	Scenario Comments

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Related Projects	Operating Impacts

Year Identified	Start Date	Useful Life	Manager	Completion Date
2014	Jan 1, 2021	75 Years	Adam Lacombe	Dec 31, 2029

Number:	3905WS	Scenario:	Main
Title:	Cedar Heights Rd. - Larocque BPS	Project Stage:	Committee of Council Review
Asset Type:	Growth (Water and Wastewater)	Strategic Plans:	Growth / Economic Development
Division:	Capital - Water	Project Type:	
Budget Year:	2021	Active:	Yes

Description	Comments
<p>This project is to provide for the construction of the Larocque BPS.</p> <p>The third phase of the Cedar Heights water infrastructure upgrades and expansion is to construct a booster pumping station near the Larocque standpipe. Under certain conditions some areas serviced by the standpipe will not have sufficient pressure to meet current standards; therefore a booster station is required to increase the pressure.</p>	<p>Engineering services were previously completed for an Environmental Assessment, preliminary design, detailed design, agency approvals, and contract drawings. Since the design will be on the shelf, immediately prior to tendering and construction, the design will need to be reviewed again and updated for any changes in conditions since the original completion, including any physical changes to the site, changes in standards or regulations, etc.</p> <p>Construction of Phase 1 was completed in 2015, and included construction of the Cedar Heights Booster Pumping Station on College Drive, as well as the installation of sewer and water and a pathway on College drive. Phase 2 was completed in 2020 and included continuation of the sewer and water installation as well as a standpipe on Larocque Road.</p>

Scenario Description	Scenario Comments

Forecast	Project Detailed 2021																				
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Budget Year	Total Expense	Total Revenue	Difference																		
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2027	4,000,000	4,000,000	0																		
	4,050,000	4,050,000	0																		
LTD Amount: 0		Total Project Cost: 4,050,000																			

Related Projects	Operating Impacts

Year Identified	Start Date	Useful Life	Manager	Completion Date
2013	Jan 1, 2024	50 Years	Adam Lacombe	Dec 31, 2027

Number:	3908ST	Scenario:	Main
Title:	Trunk Sewer Rehab - Eastview Tributary System	Project Stage:	Committee of Council Review
Asset Type:	Asset Improvement and Maintenance (General)	Strategic Plans:	Infrastructure / Sustainability
Division:	Capital - Infrastructure & Operations	Project Type:	
Budget Year:	2021	Active:	Yes

Description	Comments
<p>The project involves the engineering and construction services for the rehabilitation of the Eastview Tributary Storm System. The works will include trenchless technologies to preserve the existing pipe works and extend the system's life. The Eastview Tributary is part of the Chippewa Creek watershed and generally runs from Ski Club Road south towards Northgate Square.</p> <p>A portion of the watercourse north of Trout Lake Road is enclosed in a storm sewer which runs along a back lot easement of the residential properties on the east side of Laurentian Avenue.</p> <p>Engineering services will include survey, condition inspection, design, contract drawings, specifications, tendering, construction inspection, contract administration, and project management.</p>	<p>This work is being done as a preventative treatment at minimum cost to avoid potential collapse and emergency replacement. The trenchless methods are very cost effective by not requiring surface restorations and significant disturbance to the surrounding neighbourhood.</p> <p>The work will be constructed in one phase.</p>

Scenario Description	Scenario Comments

Forecast	Project Detailed 2021																				
<table border="1"> <thead> <tr> <th>Budget Year</th> <th>Total Expense</th> <th>Total Revenue</th> <th>Difference</th> </tr> </thead> <tbody> <tr> <td>2024</td> <td>100,000</td> <td>100,000</td> <td>0</td> </tr> <tr> <td>2026</td> <td>1,000,000</td> <td>1,000,000</td> <td>0</td> </tr> <tr> <td></td> <td>1,100,000</td> <td>1,100,000</td> <td>0</td> </tr> <tr> <td colspan="2">LTD Amount: 0</td> <td colspan="2">Total Project Cost: 1,100,000</td> </tr> </tbody> </table>	Budget Year	Total Expense	Total Revenue	Difference	2024	100,000	100,000	0	2026	1,000,000	1,000,000	0		1,100,000	1,100,000	0	LTD Amount: 0		Total Project Cost: 1,100,000		
Budget Year	Total Expense	Total Revenue	Difference																		
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Related Projects	Operating Impacts

Year Identified	Start Date	Useful Life	Manager	Completion Date
2011	Jan 1, 2024	25 Years	Adam Lacombe	Dec 31, 2026

Number:	3909RD	Scenario:	Main
Title:	Worthington, Wyld, Sherbrooke, Second 4" Watermain Replacement	Project Stage:	Committee of Council Review
Asset Type:	Asset Improvement and Maintenance (General)	Strategic Plans:	Infrastructure / Sustainability
Division:	Capital - Infrastructure & Operations	Project Type:	
Budget Year:	2021	Active:	Yes

Description	Comments
<p>The project involves the engineering and construction services for the replacement of 100 mm watermains in various locations of the downtown area, including 100 mm watermains on Wyld Street, Worthington Street, Sherbrooke Street, and Second Avenue.</p> <p>Engineering services will include preliminary design, detailed design, agency approvals, contract drawings, specifications, tendering and construction technical assistance. In addition to the watermain replacement, the construction works will also include restoration of the disturbed surface areas, including road base aggregates, asphalt, curb, gutter, grass boulevard and grassed ditches.</p>	<p>Historically, 100 mm watermains have been problematic due to build-up of tubercles and other corrosion deposits inside the mains, leading to significant reduction in flow capacity. Additionally, the recent Fire Underwriter's Survey identified an excessive amount of 100 mm watermains within the city, resulting in a negative impact on the City's overall scoring. Replacement of the 100 mm watermains will mitigate risk due to reduced fire flows and will address the Fire Underwriter's Survey concerns.</p> <p>The project will be constructed in one phase. The related project includes 3909SS/ST/WS.</p>

Scenario Description	Scenario Comments

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2025	130,000	130,000	0																		
2027	2,400,000	2,400,000	0																		
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LTD Amount: 0		Total Project Cost: 2,530,000																			

Related Projects	Operating Impacts

Year Identified	Start Date	Useful Life	Manager	Completion Date
2011	Jan 1, 2025	25 Years	Adam Lacombe	Dec 31, 2028

Number:	3909SS	Scenario:	Main
Title:	Worthington, Wyld, Sherbrooke, Second 4" Watermain Replacement	Project Stage:	Committee of Council Review
Asset Type:	Asset Improvement and Maintenance (Water and Wastewater)	Strategic Plans:	Infrastructure / Sustainability
Division:	Capital - Sewer	Project Type:	
Budget Year:	2021	Active:	Yes

Description	Comments
<p>The project involves the engineering and construction services for the replacement of 100 mm watermains in various locations of the downtown area, including 100 mm watermains on Wyld Street, Worthington Street, Sherbrooke Street, and Second Avenue.</p> <p>Engineering services will include preliminary design, detailed design, agency approvals, contract drawings, specifications, tendering and construction technical assistance. In addition to the watermain replacement, the construction works will also include restoration of the disturbed surface areas, including road base aggregates, asphalt, curb, gutter, grass boulevard and grassed ditches.</p>	<p>Historically, 100 mm watermains have been problematic due to build-up of tubercles and other corrosion deposits inside the mains, leading to significant reduction in flow capacity. Additionally, the recent Fire Underwriter's Survey identified an excessive amount of 100 mm watermains within the city, resulting in a negative impact on the City's overall scoring. Replacement of the 100 mm watermains will mitigate risk due to reduced fire flows and will address the Fire Underwriter's Survey concerns.</p> <p>The project will be constructed in one phase. The related project includes 3909RD/ST/WS.</p>

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Related Projects	Operating Impacts

Year Identified	Start Date	Useful Life	Manager	Completion Date
2011	Jan 1, 2025	75 Years	Adam Lacombe	Dec 31, 2028

Number:	3909ST	Scenario:	Main
Title:	Worthington, Wyld, Sherbrooke, Second 4" Watermain Replacement	Project Stage:	Committee of Council Review
Asset Type:	Asset Improvement and Maintenance (General)	Strategic Plans:	Infrastructure / Sustainability
Division:	Capital - Infrastructure & Operations	Project Type:	
Budget Year:	2021	Active:	Yes

Description	Comments
<p>The project involves the engineering and construction services for the replacement of 100 mm watermains in various locations of the downtown area, including 100 mm watermains on Wyld Street, Worthington Street, Sherbrooke Street, and Second Avenue.</p> <p>Engineering services will include preliminary design, detailed design, agency approvals, contract drawings, specifications, tendering and construction technical assistance. In addition to the watermain replacement, the construction works will also include restoration of the disturbed surface areas, including road base aggregates, asphalt, curb, gutter, grass boulevard and grassed ditches.</p>	<p>Historically, 100 mm watermains have been problematic due to build-up of tubercles and other corrosion deposits inside the mains, leading to significant reduction in flow capacity. Additionally, the recent Fire Underwriter's Survey identified an excessive amount of 100 mm watermains within the city, resulting in a negative impact on the City's overall scoring. Replacement of the 100 mm watermains will mitigate risk due to reduced fire flows and will address the Fire Underwriter's Survey concerns.</p> <p>The project will be constructed in one phase. The related project includes 3909RD/SS/WS.</p>

Scenario Description	Scenario Comments

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	950,000	950,000	0																		
LTD Amount: 0		Total Project Cost: 950,000																			

Related Projects	Operating Impacts

Year Identified	Start Date	Useful Life	Manager	Completion Date
2011	Jan 1, 2025	75 Years	Adam Lacombe	Dec 31, 2028

Number:	3909WS	Scenario:	Main
Title:	Worthington, Wyld, Sherbrooke, Second 4" Watermain Replacement	Project Stage:	Committee of Council Review
Asset Type:	Asset Improvement and Maintenance (Water and Wastewater)	Strategic Plans:	Infrastructure / Sustainability
Division:	Capital - Water	Project Type:	
Budget Year:	2021	Active:	Yes

Description	Comments
<p>The project involves the engineering and construction services for the replacement of 100 mm watermains in various locations of the downtown area, including 100 mm watermains on Wyld Street, Worthington Street, Sherbrooke Street, and Second Avenue.</p> <p>Engineering services will include preliminary design, detailed design, agency approvals, contract drawings, specifications, tendering and construction technical assistance. In addition to the watermain replacement, the construction works will also include restoration of the disturbed surface areas, including road base aggregates, asphalt, curb, gutter, grass boulevard and grassed ditches.</p>	<p>Historically, 100 mm watermains have been problematic due to build-up of tubercles and other corrosion deposits inside the mains, leading to significant reduction in flow capacity. Additionally, the recent Fire Underwriter's Survey identified an excessive amount of 100 mm watermains within the city, resulting in a negative impact on the City's overall scoring. Replacement of the 100 mm watermains will mitigate risk due to reduced fire flows and will address the Fire Underwriter's Survey concerns.</p> <p>The project will be constructed in one phase. The related project includes 3909RD/SS/ST.</p>

Scenario Description	Scenario Comments

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2025	50,000	50,000	0																		
2027	1,000,000	1,000,000	0																		
	1,050,000	1,050,000	0																		
LTD Amount: 0		Total Project Cost: 1,050,000																			

Related Projects	Operating Impacts

Year Identified	Start Date	Useful Life	Manager	Completion Date
2011	Jan 1, 2025	75 Years	Adam Lacombe	Dec 31, 2028

Number:	3910ST	Scenario:	Main
Title:	Chippewa Creek and Airport Heights Stormwater Retention	Project Stage:	Committee of Council Review
Asset Type:	Growth (General)	Strategic Plans:	Growth / Economic Development
Division:	Capital - Infrastructure & Operations	Project Type:	
Budget Year:	2021	Active:	Yes

Description	Comments
<p>The project involves the engineering and construction services to construct a stormwater management (SWM) pond approximately 350 meters east of O'Brien Street and 150 meters north of Airport Road and to construct a drainage channel and recreational pathway/maintenance road from Kenwood Hills Drive to the pond.</p> <p>For new development on the north side of Airport Road, the pond will provide quantity control to mitigate flooding impacts in Chippewa Creek. The pond will also provide quality control to mitigate sedimentation into the creek for a significant portion of the existing and future development in the Airport Heights area.</p>	<p>A contract for engineering services was awarded to an engineering consultant in 2009 which included an Environmental Assessment (EA), preliminary and detailed design, agency approvals, contract drawings, specifications, tendering and construction technical assistance.</p> <p>The Chippewa Creek Watershed Study identified that future development in the Airport Heights area would require quantity and quality control. The Highland Woods development was allowed to proceed based on the SWM requirements being met by the construction of this SWM pond. The SWM pond, channel, and recreational pathway/maintenance road will be constructed in one phase.</p>

Scenario Description	Scenario Comments

Forecast	Project Detailed 2021																				
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Budget Year	Total Expense	Total Revenue	Difference																		
2022	50,000	50,000	0																		
2024	2,500,000	2,500,000	0																		
	2,550,000	2,550,000	0																		
LTD Amount: 0		Total Project Cost: 2,550,000																			

Related Projects	Operating Impacts

Year Identified	Start Date	Useful Life	Manager	Completion Date
2009	Jan 1, 2022	50 Years	Adam Lacombe	Dec 31, 2025

Number:	3911RD	Scenario:	Main
Title:	Four Mile Lake Rd. Extension to Highway 11	Project Stage:	Committee of Council Review
Asset Type:	Growth (General)	Strategic Plans:	Growth / Economic Development
Division:	Capital - Infrastructure & Operations	Project Type:	
Budget Year:	2021	Active:	Yes

Description		Comments	
<p>The project involves the engineering and construction services for a new rural roadway from the west end of Four Mile Lake Road to Marsh Drive and possible upgrades on Marsh Drive to Highway 11 including any required improvements to Highway 11 and the Marsh Drive intersection.</p> <p>The road will be constructed as a truck route to service existing industrial properties and new industrial developments in the airport area. Engineering services are being undertaken in-house and include an Environmental Assessment (EA), preliminary and detailed design, agency approvals, contract drawings, specifications, tendering and construction technical assistance.</p>		<p>The project's priority is related to development and should be implemented as expected growth demands.</p> <p>The project would also address some safety concerns. Truck traffic to Highway 11/17 is currently serviced by Airport Road and O'Brien Street. Thibeault Hill on Highway 11 has a truck arrestor bed and Airport Hill does not. Removing truck traffic from Airport Hill and redirecting it to Thibeault Hill would reduce the risk of runaway trucks. Re-routing truck traffic would also extend the life of Airport Road and O'Brien Street between Airport Road and Highway 11/17.</p> <p>The work will be constructed in one phase.</p>	
Scenario Description		Scenario Comments	
Forecast		Project Detailed 2021	
Budget Year	Total Expense	Total Revenue	Difference
2024	620,000	620,000	0
2027	11,800,000	11,800,000	0
	12,420,000	12,420,000	0
LTD Amount: 0	Total Project Cost: 12,420,000		
Related Projects		Operating Impacts	
Year Identified	Start Date	Useful Life	Manager
2011	Jan 1, 2024	25 Years	Reid Porter
			Completion Date
			Dec 31, 2028

Number:	3912GG	Scenario:	Main
Title:	Integrated Software Solution	Project Stage:	Committee of Council Review
Asset Type:	Asset Improvement and Maintenance (General)	Strategic Plans:	Technology
Division:	Capital - Corporate Services	Project Type:	
Budget Year:	2021	Active:	Yes

Description	Comments
<p>One of the six pillars of the City of North Bay's business plan is to strategically implement and utilize technology to achieve corporate goals. In keeping with this corporate objective, the vision for the Enterprise Resource Planning (ERP) project is to implement an integrated ERP system that supports staff in the delivery of municipal programs and services; takes advantage of best practices; and significantly improves the efficiency and effectiveness of the City's work processes.</p> <p>The City of North Bay has used Naviline HTE (now SunGard Public Sector) for approximately nineteen years. The applications include general ledger, cash, purchasing, billing (water/tax), building, work orders, code enforcement, human resources, payroll, accounts receivable, accounts payable, transit and licensing. Due to changing technologies, it is appropriate to re-evaluate the current system, evaluate other systems and determine if an alternative solution can provide enhancements in service delivery and administrative efficiencies can be gained.</p>	<p>BDO was engaged and completed a needs analysis. Their conclusion is the City's existing ERP system does not realize many of the intended efficiencies of an effective ERP system.</p> <p>In order for a new implementation to be successful a significant financial and human resource commitment is required.</p> <p>Pursuing an integrated ERP strategy is different than a 'best of breed' approach. BDO is supportive of an integrated ERP strategy to reduce the overall cost of technology ownership, to enhance processes and data integration, reporting and to reduce complexity and duplication of tasks.</p> <p>An Information Systems Review with Blackline Consulting is underway and recommendations will be brought forward to Council based on this review.</p> <p>Related project includes 3912WS.</p>

Scenario Description	Scenario Comments

Forecast	Project Detailed 2021																																												
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Related Projects	Operating Impacts

Year Identified	Start Date	Useful Life	Manager	Completion Date
2011	Jan 1, 2021	TBD	Lea Janisse	Dec 31, 2023

Number:	3912WS	Scenario:	Main
Title:	Integrated Software Solution	Project Stage:	Committee of Council Review
Asset Type:	Asset Improvement and Maintenance (Water and Wastewater)	Strategic Plans:	Technology
Division:	Capital - Water	Project Type:	
Budget Year:	2021	Active:	Yes

Description	Comments
<p>One of the six pillars of the City of North Bay's business plan is to strategically implement and utilize technology to achieve corporate goals. In keeping with this corporate objective, the vision for the Enterprise Resource Planning (ERP) project is to implement an integrated ERP system that supports staff in the delivery of municipal programs and services; takes advantage of best practices; and significantly improves the efficiency and effectiveness of the City's work processes.</p> <p>The City of North Bay has used Naviline HTE (now SunGard Public Sector) for approximately nineteen years. The applications include general ledger, cash, purchasing, billing (water/tax), building, work orders, code enforcement, human resources, payroll, accounts receivable, accounts payable, transit and licensing. Due to changing technologies, it is appropriate to re-evaluate the current system, evaluate other systems and determine if an alternative solution can provide enhancements in service delivery and administrative efficiencies can be gained.</p>	<p>BDO was engaged and completed a needs analysis. Their conclusion is the City's existing ERP system does not realize many of the intended efficiencies of an effective ERP system.</p> <p>In order for a new implementation to be successful a significant financial and human resource commitment is required.</p> <p>Pursuing an integrated ERP strategy is different than a 'best of breed' approach. BDO is supportive of an integrated ERP strategy to reduce the overall cost of technology ownership, to enhance processes and data integration, reporting and to reduce complexity and duplication of tasks.</p> <p>An Information Systems Review with Blackline Consulting is underway and recommendations will be brought forward to Council based on this review.</p> <p>Related project includes 3912GG.</p>

Scenario Description	Scenario Comments

Forecast	Project Detailed 2021																																												
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GL Account	Description	Total Amount																																											
Expense																																													
3130	CONSULTANT FEES	15,691																																											
7010	ADMINISTRATON & OVERHEAD	309																																											
Total Expense:		16,000																																											
Revenue																																													
0461	TSF FRM REV FUND-PAYGO	16,000																																											
Total Revenue:		16,000																																											

Related Projects	Operating Impacts

Year Identified	Start Date	Useful Life	Manager	Completion Date
2011	Jan 1, 2021	TBD	Lea Janisse	Dec 31, 2023

Number:	3913RD	Scenario:	Main
Title:	Ivanhoe Drive Reconstruction - Sage to Rita	Project Stage:	Committee of Council Review
Asset Type:	Asset Improvement and Maintenance (General)	Strategic Plans:	Infrastructure / Sustainability, Maintenance
Division:	Capital - Infrastructure & Operations	Project Type:	
Budget Year:	2021	Active:	Yes

Description	Comments
<p>The project involves the engineering and construction services for the complete reconstruction of the roadway on Ivanhoe from Sage to Rita. The capacity and condition of the existing underground infrastructure (storm, sanitary, and water) will be evaluated to determine if any work is required to repair, rehabilitate, or replace the infrastructure.</p> <p>Engineering services will include preliminary design, detailed design, agency approvals, contract drawings, specifications, tendering and construction.</p>	<p>The above-ground infrastructure on Ivanhoe between Sage and Rita (pavement and curbs) has reached the end of its useful life and is no longer a candidate for rehabilitation treatments. A number of areas of the roadway have poor drainage resulting in curbs and pavement areas that have heaved or subsided. Without correcting the drainage issues, rehabilitation of the road asphalt would only result in short-term benefits. To correct the drainage issues, the curb and gutter will need to be replaced. Additionally, the granular material in the road base has likely been compromised and in need of replacement.</p> <p>The complete replacement of the above-ground infrastructure provides the opportunity to repair, rehabilitate, or replace the underground infrastructure.</p> <p>Related projects include 3913ST/SS/WS</p>

Scenario Description	Scenario Comments

Forecast	Project Detailed 2021																																														
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Related Projects	Operating Impacts

Year Identified	Start Date	Useful Life	Manager	Completion Date
2019	Jan 1, 2020	25 Years	Reid Porter	Dec 31, 2021

Number:	3913SS	Scenario:	Main
Title:	Ivanhoe Drive Reconstruction - Sage to Rita	Project Stage:	Committee of Council Review
Asset Type:	Asset Improvement and Maintenance (Water and Wastewater)	Strategic Plans:	Infrastructure / Sustainability, Maintenance
Division:	Capital - Sewer	Project Type:	
Budget Year:	2021	Active:	Yes

Description	Comments
<p>The project involves the engineering and construction services for the complete reconstruction of the roadway on Ivanhoe from Sage to Rita. The capacity and condition of the existing underground infrastructure (storm, sanitary, and water) will be evaluated to determine if any work is required to repair, rehabilitate, or replace the infrastructure.</p> <p>Engineering services will include preliminary design, detailed design, agency approvals, contract drawings, specifications, tendering and construction.</p>	<p>The above-ground infrastructure on Ivanhoe between Sage and Rita (pavement and curbs) has reached the end of its useful life and is no longer a candidate for rehabilitation treatments. A number of areas of the roadway have poor drainage resulting in curbs and pavement areas that have heaved or subsided. Without correcting the drainage issues, rehabilitation of the road asphalt would only result in short-term benefits. To correct the drainage issues, the curb and gutter will need to be replaced. Additionally, the granular material in the road base has likely been compromised and in need of replacement.</p> <p>The complete replacement of the above-ground infrastructure provides the opportunity to repair, rehabilitate, or replace the underground infrastructure.</p> <p>Related projects include 3913RD/ST/WS</p>

Scenario Description	Scenario Comments

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Related Projects	Operating Impacts			
Year Identified	Start Date	Useful Life	Manager	Completion Date
2019	Jan 1, 2020	75 Years	Reid Porter	Dec 31, 2021

Number:	3913ST	Scenario:	Main
Title:	Ivanhoe Drive Reconstruction - Sage to Rita	Project Stage:	Committee of Council Review
Asset Type:	Asset Improvement and Maintenance (General)	Strategic Plans:	Infrastructure / Sustainability, Maintenance
Division:	Capital - Infrastructure & Operations	Project Type:	
Budget Year:	2021	Active:	Yes

Description	Comments
<p>The project involves the engineering and construction services for the complete reconstruction of the roadway on Ivanhoe from Sage to Rita. The capacity and condition of the existing underground infrastructure (storm, sanitary, and water) will be evaluated to determine if any work is required to repair, rehabilitate, or replace the infrastructure.</p> <p>Engineering services will include preliminary design, detailed design, agency approvals, contract drawings, specifications, tendering and construction.</p>	<p>The above-ground infrastructure on Ivanhoe between Sage and Rita (pavement and curbs) has reached the end of its useful life and is no longer a candidate for rehabilitation treatments. A number of areas of the roadway have poor drainage resulting in curbs and pavement areas that have heaved or subsided. Without correcting the drainage issues, rehabilitation of the road asphalt would only result in short-term benefits. To correct the drainage issues, the curb and gutter will need to be replaced. Additionally, the granular material in the road base has likely been compromised and in need of replacement.</p> <p>The complete replacement of the above-ground infrastructure provides the opportunity to repair, rehabilitate, or replace the underground infrastructure.</p> <p>Related projects include 3913RD/SS/WS</p>

Scenario Description	Scenario Comments

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Total Revenue:		700,000																																										

Related Projects	Operating Impacts

Year Identified	Start Date	Useful Life	Manager	Completion Date
2019	Jan 1, 2020	75 Years	Reid Porter	Dec 31, 2021

Number:	3913WS	Scenario:	Main
Title:	Ivanhoe Drive Reconstruction - Sage to Rita	Project Stage:	Committee of Council Review
Asset Type:	Asset Improvement and Maintenance (Water and Wastewater)	Strategic Plans:	Infrastructure / Sustainability, Maintenance
Division:	Capital - Water	Project Type:	
Budget Year:	2021	Active:	Yes

Description	Comments
<p>The project involves the engineering and construction services for the complete reconstruction of the roadway on Ivanhoe from Sage to Rita. The capacity and condition of the existing underground infrastructure (storm, sanitary, and water) will be evaluated to determine if any work is required to repair, rehabilitate, or replace the infrastructure.</p> <p>Engineering services will include preliminary design, detailed design, agency approvals, contract drawings, specifications, tendering and construction.</p>	<p>The above-ground infrastructure on Ivanhoe between Sage and Rita (pavement and curbs) has reached the end of its useful life and is no longer a candidate for rehabilitation treatments. A number of areas of the roadway have poor drainage resulting in curbs and pavement areas that have heaved or subsided. Without correcting the drainage issues, rehabilitation of the road asphalt would only result in short-term benefits. To correct the drainage issues, the curb and gutter will need to be replaced. Additionally, the granular material in the road base has likely been compromised and in need of replacement.</p> <p>The complete replacement of the above-ground infrastructure provides the opportunity to repair, rehabilitate, or replace the underground infrastructure.</p> <p>Related projects include 3913RD/ST/SS</p>

Scenario Description	Scenario Comments

Forecast	Project Detailed 2021																																								
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Related Projects	Operating Impacts			
Year Identified	Start Date	Useful Life	Manager	Completion Date
2019	Jan 1, 2020	75 Years	Reid Porter	Dec 31, 2021

Number:	3917RD	Scenario:	Main
Title:	Third Avenue - Cassells to Front	Project Stage:	Committee of Council Review
Asset Type:	Asset Improvement and Maintenance (General)	Strategic Plans:	Infrastructure / Sustainability, Maintenance
Division:	Capital - Infrastructure & Operations	Project Type:	
Budget Year:	2021	Active:	Yes

Description	Comments
<p>The project involves the engineering and construction services for the complete reconstruction of the roadway and underground infrastructure on Third Avenue from Cassells St to Front St.</p> <p>Engineering services will include preliminary design, detailed design, agency approvals, contract drawings, specifications, and construction technical assistance. Construction will be undertaken by the City's Sewer & Water Department.</p>	<p>The pavement structure on Third Avenue between Cassells St and Front St has reached the end of its useful life and is no longer a candidate for rehabilitation treatments. The roadway is not constructed to current standards and has no formal drainage system - i.e. no ditches and no curb and gutter system - drainage issues are apparent throughout. The underground infrastructure (sanitary and water) is also at the end of its useful life and requires replacement. The road will be brought up to a current local road standard.</p> <p>Related projects include 3917ST/SS/WS</p>

Scenario Description	Scenario Comments

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Related Projects	Operating Impacts

Year Identified	Start Date	Useful Life	Manager	Completion Date
2019	Jan 1, 2019	25 Years	Gerry McCrank	Dec 31, 2021

Number:	3917SS	Scenario:	Main
Title:	Third Avenue - Cassells to Front	Project Stage:	Committee of Council Review
Asset Type:	Asset Improvement and Maintenance (Water and Wastewater)	Strategic Plans:	Infrastructure / Sustainability, Maintenance
Division:	Capital - Sewer	Project Type:	
Budget Year:	2021	Active:	Yes

Description	Comments
<p>The project involves the engineering and construction services for the complete reconstruction of the roadway and underground infrastructure on Third Avenue from Cassells St to Front St.</p> <p>Engineering services will include preliminary design, detailed design, agency approvals, contract drawings, specifications, and construction technical assistance. Construction will be undertaken by the City's Sewer & Water Department.</p>	<p>The pavement structure on Third Avenue between Cassells St and Front St has reached the end of its useful life and is no longer a candidate for rehabilitation treatments. The roadway is not constructed to current standards and has no formal drainage system - i.e. no ditches and no curb and gutter system - drainage issues are apparent throughout. The underground infrastructure (sanitary and water) is also at the end of its useful life and requires replacement. The road will be brought up to a current local road standard.</p> <p>Related projects include 3917RD/ST/WS</p>

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Related Projects	Operating Impacts

Year Identified	Start Date	Useful Life	Manager	Completion Date
2019	Jan 1, 2019	75 Years	Gerry McCrank	Dec 31, 2021

Number:	3917ST	Scenario:	Main
Title:	Third Avenue - Cassells to Front	Project Stage:	Committee of Council Review
Asset Type:	Asset Improvement and Maintenance (General)	Strategic Plans:	Infrastructure / Sustainability, Maintenance
Division:	Capital - Infrastructure & Operations	Project Type:	
Budget Year:	2021	Active:	Yes

Description	Comments
<p>The project involves the engineering and construction services for the complete reconstruction of the roadway and underground infrastructure on Third Avenue from Cassells St to Front St.</p> <p>Engineering services will include preliminary design, detailed design, agency approvals, contract drawings, specifications, and construction technical assistance. Construction will be undertaken by the City's Sewer & Water Department.</p>	<p>The pavement structure on Third Avenue between Cassells St and Front St has reached the end of its useful life and is no longer a candidate for rehabilitation treatments. The roadway is not constructed to current standards and has no formal drainage system - i.e. no ditches and no curb and gutter system - drainage issues are apparent throughout. The underground infrastructure (sanitary and water) is also at the end of its useful life and requires replacement. The road will be brought up to a current local road standard.</p> <p>Related projects include 3917RD/SS/WS</p>

Scenario Description	Scenario Comments

Forecast	Project Detailed 2021																																											
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Related Projects	Operating Impacts

Year Identified	Start Date	Useful Life	Manager	Completion Date
2019	Jan 1, 2019	75 Years	Gerry McCrank	Dec 31, 2021

Number:	3917WS	Scenario:	Main
Title:	Third Avenue - Cassells to Front	Project Stage:	Committee of Council Review
Asset Type:	Asset Improvement and Maintenance (Water and Wastewater)	Strategic Plans:	Infrastructure / Sustainability, Maintenance
Division:	Capital - Water	Project Type:	
Budget Year:	2021	Active:	Yes

Description	Comments
<p>The project involves the engineering and construction services for the complete reconstruction of the roadway and underground infrastructure on Third Avenue from Cassells St to Front St.</p> <p>Engineering services will include preliminary design, detailed design, agency approvals, contract drawings, specifications, and construction technical assistance. Construction will be undertaken by the City's Sewer & Water Department.</p>	<p>The pavement structure on Third Avenue between Cassells St and Front St has reached the end of its useful life and is no longer a candidate for rehabilitation treatments. The roadway is not constructed to current standards and has no formal drainage system - i.e. no ditches and no curb and gutter system - drainage issues are apparent throughout. The underground infrastructure (sanitary and water) is also at the end of its useful life and requires replacement. The road will be brought up to a current local road standard.</p> <p>Related projects include 3917RD/ST/SS</p>

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Related Projects	Operating Impacts

Year Identified	Start Date	Useful Life	Manager	Completion Date
2019	Jan 1, 2019	75 Years	Gerry McCrank	Dec 31, 2021

Number:	3919RD	Scenario:	Main
Title:	Metcalfe St - Laurier to End	Project Stage:	Committee of Council Review
Asset Type:	Asset Improvement and Maintenance (General)	Strategic Plans:	Infrastructure / Sustainability, Maintenance
Division:	Capital - Infrastructure & Operations	Project Type:	
Budget Year:	2021	Active:	Yes

Description	Comments
<p>The project involves the engineering and construction services for the complete reconstruction of the roadway and underground infrastructure on Metcalfe St from Laurier southwesterly to the dead-end.</p> <p>Engineering services will include preliminary design, detailed design, agency approvals, contract drawings, specifications, and construction technical assistance. Construction will be undertaken by the City's Sewer & Water Department.</p>	<p>The pavement structure on Metcalfe St from Laurier to the dead-end has reached the end of its useful life and is no longer a candidate for rehabilitation treatments. The roadway is not constructed to current standards and has no formal drainage system - i.e. no ditches and no curb and gutter system - drainage issues are apparent throughout. The underground infrastructure (sanitary and water) is also at the end of its useful life and requires replacement. The road will be brought up to a current local road standard.</p> <p>Related projects include 3919ST/SS/WS</p>

Scenario Description	Scenario Comments

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Related Projects	Operating Impacts

Year Identified	Start Date	Useful Life	Manager	Completion Date
2019	Jan 1, 2021	25 Years	Adam Lacombe	Dec 31, 2022

Number:	3919SS	Scenario:	Main
Title:	Metcalfe St - Laurier to End	Project Stage:	Committee of Council Review
Asset Type:	Asset Improvement and Maintenance (Water and Wastewater)	Strategic Plans:	Infrastructure / Sustainability, Maintenance
Division:	Capital - Sewer	Project Type:	
Budget Year:	2021	Active:	Yes

Description	Comments
<p>The project involves the engineering and construction services for the complete reconstruction of the roadway and underground infrastructure on Metcalfe St from Laurier southwesterly to the dead-end.</p> <p>Engineering services will include preliminary design, detailed design, agency approvals, contract drawings, specifications, and construction technical assistance. Construction will be undertaken by the City's Sewer & Water Department.</p>	<p>The pavement structure on Metcalfe St from Laurier to the dead-end has reached the end of its useful life and is no longer a candidate for rehabilitation treatments. The roadway is not constructed to current standards and has no formal drainage system - i.e. no ditches and no curb and gutter system - drainage issues are apparent throughout. The underground infrastructure (sanitary and water) is also at the end of its useful life and requires replacement. The road will be brought up to a current local road standard.</p> <p>Related projects include 3919RD/ST/WS</p>

Scenario Description	Scenario Comments

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Related Projects	Operating Impacts

Year Identified	Start Date	Useful Life	Manager	Completion Date
2019	Jan 1, 2021	75 Years	Adam Lacombe	Dec 31, 2022

Number:	3919ST	Scenario:	Main
Title:	Metcalfe St - Laurier to End	Project Stage:	Committee of Council Review
Asset Type:	Asset Improvement and Maintenance (General)	Strategic Plans:	Infrastructure / Sustainability, Maintenance
Division:	Capital - Infrastructure & Operations	Project Type:	
Budget Year:	2021	Active:	Yes

Description	Comments
<p>The project involves the engineering and construction services for the complete reconstruction of the roadway and underground infrastructure on Metcalfe St from Laurier southwesterly to the dead-end.</p> <p>Engineering services will include preliminary design, detailed design, agency approvals, contract drawings, specifications, and construction technical assistance. Construction will be undertaken by the City's Sewer & Water Department.</p>	<p>The pavement structure on Metcalfe St from Laurier to the dead-end has reached the end of its useful life and is no longer a candidate for rehabilitation treatments. The roadway is not constructed to current standards and has no formal drainage system - i.e. no ditches and no curb and gutter system - drainage issues are apparent throughout. The underground infrastructure (sanitary and water) is also at the end of its useful life and requires replacement. The road will be brought up to a current local road standard.</p> <p>Related projects include 3919RD/SS/WS</p>

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Related Projects	Operating Impacts

Year Identified	Start Date	Useful Life	Manager	Completion Date
2019	Jan 1, 2021	75 Years	Adam Lacombe	Dec 31, 2022

Number:	3919WS	Scenario:	Main
Title:	Metcalfe St - Laurier to End	Project Stage:	Committee of Council Review
Asset Type:	Asset Improvement and Maintenance (Water and Wastewater)	Strategic Plans:	Infrastructure / Sustainability, Maintenance
Division:	Capital - Water	Project Type:	
Budget Year:	2021	Active:	Yes

Description	Comments
<p>The project involves the engineering and construction services for the complete reconstruction of the roadway and underground infrastructure on Metcalfe St from Laurier southwesterly to the dead-end.</p> <p>Engineering services will include preliminary design, detailed design, agency approvals, contract drawings, specifications, and construction technical assistance. Construction will be undertaken by the City's Sewer & Water Department.</p>	<p>The pavement structure on Metcalfe St from Laurier to the dead-end has reached the end of its useful life and is no longer a candidate for rehabilitation treatments. The roadway is not constructed to current standards and has no formal drainage system - i.e. no ditches and no curb and gutter system - drainage issues are apparent throughout. The underground infrastructure (sanitary and water) is also at the end of its useful life and requires replacement. The road will be brought up to a current local road standard.</p> <p>Related projects include 3919RD/ST/SS</p>

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Related Projects	Operating Impacts

Year Identified	Start Date	Useful Life	Manager	Completion Date
2019	Jan 1, 2021	75 Years	Adam Lacombe	Dec 31, 2022

Number:	3920RD	Scenario:	Main
Title:	O'Brien Street - Ski Club to Airport & Ski Club Signals	Project Stage:	Committee of Council Review
Asset Type:	Asset Improvement and Maintenance (General)	Strategic Plans:	Infrastructure / Sustainability
Division:	Capital - Infrastructure & Operations	Project Type:	
Budget Year:	2021	Active:	Yes

Description	Comments
<p>The project involves the engineering and construction services for the complete reconstruction of the roadway on O'Brien from Airport to Ski Club to improve the road to a current urban collector road standard, as well as installation of new traffic signals at the intersection of O'Brien and Ski Club. The capacity and condition of the existing underground infrastructure (storm, sanitary, and water) will be evaluated to determine if any work is required to repair, rehabilitate, or replace the infrastructure.</p> <p>Engineering services will include preliminary design, detailed design, agency approvals, contract drawings, specifications, tendering and construction.</p>	<p>The configuration of O'Brien from Airport to Ski Club does not meet current urban collector standards. The roadway and intersection at Ski Club has reached its capacity and requires upgrading to reduce congestion in the area. The Ski Club intersection is currently controlled by an all-way stop control - replacement of this control with traffic signals that are coordinated with the traffic signals at the Airport Road intersection will provide increased capacity. Upgrading the road to meet current urban collector standards, including the addition of curb and gutters and a proper drainage system will provide more traffic capacity and will improve the life expectancy of the pavement structure.</p> <p>The complete replacement of the above-ground infrastructure provides the opportunity to repair, rehabilitate, or replace the underground infrastructure.</p> <p>Related projects include 3920ST/SS/WS and 4032RD/ST/SS/WS.</p>

Scenario Description	Scenario Comments

Forecast				Project Detailed 2021		
Budget Year	Total Expense	Total Revenue	Difference	GL Account	Description	Total Amount
2021	1,300,000	1,300,000	0	3425	CONSTRUCTION CONTRACT	1,274,000
	1,300,000	1,300,000	0	7010	ADMINISTRATON & OVERHEAD	26,000
					Total Expense:	1,300,000
	LTD Amount: 50,000	Total Project Cost: 1,350,000				
					Revenue	
				0461	TSF FRM REV FUND-PAYGO	100,000
				5901	DEBENTURE PROCEEDS	1,200,000
					Total Revenue:	1,300,000

Related Projects			Operating Impacts
Year Identified	Start Date	Useful Life	Manager
2019	Jan 1, 2019	25 Years	Reid Porter
			Completion Date
			Dec 31, 2021

Number:	3920SS	Scenario:	Main
Title:	O'Brien Street - Ski Club to Airport & Ski Club Signals	Project Stage:	Committee of Council Review
Asset Type:	Asset Improvement and Maintenance (Water and Wastewater)	Strategic Plans:	Infrastructure / Sustainability
Division:	Capital - Sewer	Project Type:	
Budget Year:	2021	Active:	Yes

Description	Comments
<p>The project involves the engineering and construction services for the complete reconstruction of the roadway on O'Brien from Airport to Ski Club to improve the road to a current urban collector road standard, as well as installation of new traffic signals at the intersection of O'Brien and Ski Club. The capacity and condition of the existing underground infrastructure (storm, sanitary, and water) will be evaluated to determine if any work is required to repair, rehabilitate, or replace the infrastructure.</p> <p>Engineering services will include preliminary design, detailed design, agency approvals, contract drawings, specifications, tendering and construction.</p>	<p>The configuration of O'Brien from Airport to Ski Club does not meet current urban collector standards. The roadway and intersection at Ski Club has reached its capacity and requires upgrading to reduce congestion in the area. The Ski Club intersection is currently controlled by an all-way stop control - replacement of this control with traffic signals that are coordinated with the traffic signals at the Airport Road intersection will provide increased capacity. Upgrading the road to meet current urban collector standards, including the addition of curb and gutters and a proper drainage system will provide more traffic capacity and will improve the life expectancy of the pavement structure.</p> <p>The complete replacement of the above-ground infrastructure provides the opportunity to repair, rehabilitate, or replace the underground infrastructure.</p> <p>Related projects include 3920RD/ST/WS and 4032RD/ST/SS/WS.</p>

Scenario Description	Scenario Comments

Forecast				Project Detailed 2021		
Budget Year	Total Expense	Total Revenue	Difference	GL Account	Description	Total Amount
2021	400,000	400,000	0	3425	CONSTRUCTION CONTRACT	392,000
	400,000	400,000	0	7010	ADMINISTRATON & OVERHEAD	8,000
					Total Expense:	400,000
	LTD Amount: 20,000	Total Project Cost: 420,000				
					Total Revenue:	400,000

Related Projects			Operating Impacts
Year Identified	Start Date	Useful Life	Manager
2019	Jan 1, 2019	75 Years	Reid Porter
			Completion Date
			Dec 31, 2021

Number:	3920ST	Scenario:	Main
Title:	O'Brien Street - Ski Club to Airport & Ski Club Signals	Project Stage:	Committee of Council Review
Asset Type:	Asset Improvement and Maintenance (General)	Strategic Plans:	Infrastructure / Sustainability
Division:	Capital - Infrastructure & Operations	Project Type:	
Budget Year:	2021	Active:	Yes

Description	Comments
<p>The project involves the engineering and construction services for the complete reconstruction of the roadway on O'Brien from Airport to Ski Club to improve the road to a current urban collector road standard, as well as installation of new traffic signals at the intersection of O'Brien and Ski Club. The capacity and condition of the existing underground infrastructure (storm, sanitary, and water) will be evaluated to determine if any work is required to repair, rehabilitate, or replace the infrastructure.</p> <p>Engineering services will include preliminary design, detailed design, agency approvals, contract drawings, specifications, tendering and construction.</p>	<p>The configuration of O'Brien from Airport to Ski Club does not meet current urban collector standards. The roadway and intersection at Ski Club has reached its capacity and requires upgrading to reduce congestion in the area. The Ski Club intersection is currently controlled by an all-way stop control - replacement of this control with traffic signals that are coordinated with the traffic signals at the Airport Road intersection will provide increased capacity. Upgrading the road to meet current urban collector standards, including the addition of curb and gutters and a proper drainage system will provide more traffic capacity and will improve the life expectancy of the pavement structure.</p> <p>The complete replacement of the above-ground infrastructure provides the opportunity to repair, rehabilitate, or replace the underground infrastructure.</p> <p>Related projects include 3920RD/SS/WS and 4032RD/ST/SS/WS.</p>

Scenario Description	Scenario Comments

Forecast	Project Detailed 2021																																											
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Related Projects	Operating Impacts

Year Identified	Start Date	Useful Life	Manager	Completion Date
2019	Jan 1, 2019	75 Years	Reid Porter	Dec 31, 2021

Number:	3920WS	Scenario:	Main
Title:	O'Brien Street - Ski Club to Airport & Ski Club Signals	Project Stage:	Committee of Council Review
Asset Type:	Asset Improvement and Maintenance (Water and Wastewater)	Strategic Plans:	Infrastructure / Sustainability
Division:	Capital - Water	Project Type:	
Budget Year:	2021	Active:	Yes

Description	Comments
<p>The project involves the engineering and construction services for the complete reconstruction of the roadway on O'Brien from Airport to Ski Club to improve the road to a current urban collector road standard, as well as installation of new traffic signals at the intersection of O'Brien and Ski Club. The capacity and condition of the existing underground infrastructure (storm, sanitary, and water) will be evaluated to determine if any work is required to repair, rehabilitate, or replace the infrastructure.</p> <p>Engineering services will include preliminary design, detailed design, agency approvals, contract drawings, specifications, tendering and construction.</p>	<p>The configuration of O'Brien from Airport to Ski Club does not meet current urban collector standards. The roadway and intersection at Ski Club has reached its capacity and requires upgrading to reduce congestion in the area. The Ski Club intersection is currently controlled by an all-way stop control - replacement of this control with traffic signals that are coordinated with the traffic signals at the Airport Road intersection will provide increased capacity. Upgrading the road to meet current urban collector standards, including the addition of curb and gutters and a proper drainage system will provide more traffic capacity and will improve the life expectancy of the pavement structure.</p> <p>The complete replacement of the above-ground infrastructure provides the opportunity to repair, rehabilitate, or replace the underground infrastructure.</p> <p>Related projects include 3920RD/ST/SS and 4032RD/ST/SS/WS.</p>

Scenario Description	Scenario Comments

Forecast	Project Detailed 2021																																								
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Related Projects	Operating Impacts			
Year Identified	Start Date	Useful Life	Manager	Completion Date
2019	Jan 1, 2019	75 Years	Reid Porter	Dec 31, 2021

Number:	3926GD	Scenario:	Main
Title:	Merrick Landfill Lifecycle Extension Environmental Assessment	Project Stage:	Committee of Council Review
Asset Type:	Asset Improvement and Maintenance (General)	Strategic Plans:	Infrastructure / Sustainability, Maintenance,...
Division:	Capital - Infrastructure & Operations	Project Type:	
Budget Year:	2021	Active:	Yes

Description	Comments
This project provides for the environmental assessment and analysis in order to extend the lifecycle of the existing Merrick Landfill Site.	The existing footprint for waste disposal at the Merrick Landfill Site is expected to be full (approx.) by the year 2036. It typically takes 10 to 15 years in order to get approval for expansion on an existing landfill site. This project provides for the environmental assessment and analysis in order to extend the lifecycle of the existing Merrick Landfill Site.

Scenario Description	Scenario Comments

Forecast	Project Detailed 2021																																																
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Related Projects	Operating Impacts

Year Identified	Start Date	Useful Life	Manager	Completion Date
2019	Jan 1, 2021	TBD	Karin Pratte	Dec 31, 2029

Number:	3928SS	Scenario:	Main
Title:	Wastewater Treatment Plant - Roof Rehab	Project Stage:	Committee of Council Review
Asset Type:	Asset Improvement and Maintenance (Water and Wastewater)	Strategic Plans:	Infrastructure / Sustainability, Maintenance
Division:	Capital - Sewer	Project Type:	
Budget Year:	2021	Active:	Yes

Description	Comments
This project provides funds for the rehabilitation and replacement of the roofs of 11 buildings at the Wastewater Treatment Plant.	This project includes the repairs and replacements of the roofs at the Wastewater Treatment Plant. Work will be completed based on the condition of the buildings.

Scenario Description	Scenario Comments

Forecast	Project Detailed 2021																												
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Budget Year	Total Expense	Total Revenue	Difference																										
2023	250,000	250,000	0																										
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Related Projects	Operating Impacts

Year Identified	Start Date	Useful Life	Manager	Completion Date
2019	Jan 1, 2020	20 Years	Karin Pratte	Dec 31, 2028

Number:	3931RD	Scenario:	Main
Title:	Ellendale Second Feed	Project Stage:	Committee of Council Review
Asset Type:	Strategic Investment (General)	Strategic Plans:	Infrastructure / Sustainability
Division:	Capital - Infrastructure & Operations	Project Type:	
Budget Year:	2021	Active:	Yes

Description	Comments
<p>The project involves the engineering design and construction services for a second trunk watermain feed to the Ellendale Reservoir.</p> <p>Engineering services will include preliminary design, detailed design, agency approvals, contract drawings, specifications, tendering and construction.</p>	<p>The Ellendale Reservoir is currently fed through a single 750 mm trunk watermain from Ski Club Road along Olympia Court and through an easement to the reservoir. A redundant feed is required to minimize the potential for serious long duration water supply interruptions to the Airport Heights area as a result of a break in the single feed line. Project 4102WS addresses the single feed from the Ellendale Pumping Station to Airport Hill.</p> <p>Related Project includes 3931WS.</p>

Scenario Description	Scenario Comments

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Related Projects	Operating Impacts

Year Identified	Start Date	Useful Life	Manager	Completion Date
2011	Jan 1, 2020	25 Years	Gerry McCrank	Dec 31, 2021

Number:	3931WS	Scenario:	Main
Title:	Ellendale Second Feed	Project Stage:	Committee of Council Review
Asset Type:	Strategic Investment (Water and Wastewater)	Strategic Plans:	Infrastructure / Sustainability
Division:	Capital - Water	Project Type:	
Budget Year:	2021	Active:	Yes

Description	Comments
<p>The project involves the engineering design and construction services for a second trunk watermain feed to the Ellendale Reservoir.</p> <p>Engineering services will include preliminary design, detailed design, agency approvals, contract drawings, specifications, tendering and construction.</p>	<p>The Ellendale Reservoir is currently fed through a single 750 mm trunk watermain from Ski Club Road along Olympia Court and through an easement to the reservoir. A redundant feed is required to minimize the potential for serious long duration water supply interruptions to the Airport Heights area as a result of a break in the single feed line. Project 4102WS addresses the single feed from the Ellendale Pumping Station to Airport Hill.</p> <p>Related Project includes 3931RD.</p>

Scenario Description	Scenario Comments

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Related Projects	Operating Impacts

Year Identified	Start Date	Useful Life	Manager	Completion Date
2011	Jan 1, 2020	75 Years	Gerry McCrank	Dec 31, 2021

Number:	3932RD	Scenario:	Main
Title:	Lakeshore Dr. - Jessups Creek to Premier Road	Project Stage:	Committee of Council Review
Asset Type:	Asset Improvement and Maintenance (General)	Strategic Plans:	Infrastructure / Sustainability
Division:	Capital - Infrastructure & Operations	Project Type:	
Budget Year:	2021	Active:	Yes

Description	Comments
<p>The project involves the engineering and construction services for upgrading the existing sanitary sewer and watermain. Road and boulevard surface restoration will also be required for the areas disturbed during construction. Restoration will include the road base aggregates, asphalt, curb, gutters, grass boulevard and concrete sidewalks.</p> <p>Engineering services will include preliminary evaluation and design, detailed design, agency approvals, contract drawings, specifications, and construction technical assistance. Construction will be undertaken by the City's Sewer & Water Department.</p>	<p>The existing sanitary sewer is undersized resulting in insufficient capacity to receive flows from the sanitary pumping station on Premier Road - this leads to backups and overflows in the system. The recent installation of a trunk sewer on Birchs Road helped alleviate the problem, but did not fully address it.</p> <p>The watermain along this section of the roadway is 100 mm, which is undersized for proper fire flow and will need to be upsized.</p> <p>Related projects include 3932ST/SS/WS.</p>

Scenario Description	Scenario Comments

Forecast	Project Detailed 2021																				
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Budget Year	Total Expense	Total Revenue	Difference																		
2023	800,000	800,000	0																		
2024	800,000	800,000	0																		
	1,600,000	1,600,000	0																		
LTD Amount: 110,000		Total Project Cost: 1,710,000																			

Related Projects	Operating Impacts

Year Identified	Start Date	Useful Life	Manager	Completion Date
2016	Jan 1, 2020	25 Years	Gerry McCrank	Dec 31, 2025

Number:	3932SS	Scenario:	Main
Title:	Lakeshore Dr. - Jessups Creek to Premier Road	Project Stage:	Committee of Council Review
Asset Type:	Asset Improvement and Maintenance (Water and Wastewater)	Strategic Plans:	Infrastructure / Sustainability
Division:	Capital - Sewer	Project Type:	
Budget Year:	2021	Active:	Yes

Description	Comments
<p>The project involves the engineering and construction services for upgrading the existing sanitary sewer and watermain. Road and boulevard surface restoration will also be required for the areas disturbed during construction. Restoration will include the road base aggregates, asphalt, curb, gutters, grass boulevard and concrete sidewalks.</p> <p>Engineering services will include preliminary evaluation and design, detailed design, agency approvals, contract drawings, specifications, and construction technical assistance. Construction will be undertaken by the City's Sewer & Water Department.</p>	<p>The existing sanitary sewer is undersized resulting in insufficient capacity to receive flows from the sanitary pumping station on Premier Road - this leads to backups and overflows in the system. The recent installation of a trunk sewer on Birchs Road helped alleviate the problem, but did not fully address it.</p> <p>The watermain along this section of the roadway is 100 mm, which is undersized for proper fire flow and will need to be upsized.</p> <p>Related projects include 3932RD/ST/WS.</p>

Scenario Description	Scenario Comments

Forecast	Project Detailed 2021																				
<table border="1"> <thead> <tr> <th>Budget Year</th> <th>Total Expense</th> <th>Total Revenue</th> <th>Difference</th> </tr> </thead> <tbody> <tr> <td>2023</td> <td>825,000</td> <td>825,000</td> <td>0</td> </tr> <tr> <td>2024</td> <td>825,000</td> <td>825,000</td> <td>0</td> </tr> <tr> <td></td> <td>1,650,000</td> <td>1,650,000</td> <td>0</td> </tr> <tr> <td colspan="2">LTD Amount: 40,000</td> <td colspan="2">Total Project Cost: 1,690,000</td> </tr> </tbody> </table>	Budget Year	Total Expense	Total Revenue	Difference	2023	825,000	825,000	0	2024	825,000	825,000	0		1,650,000	1,650,000	0	LTD Amount: 40,000		Total Project Cost: 1,690,000		
Budget Year	Total Expense	Total Revenue	Difference																		
2023	825,000	825,000	0																		
2024	825,000	825,000	0																		
	1,650,000	1,650,000	0																		
LTD Amount: 40,000		Total Project Cost: 1,690,000																			

Related Projects	Operating Impacts

Year Identified	Start Date	Useful Life	Manager	Completion Date
2016	Jan 1, 2020	75 Years	Gerry McCrank	Dec 31, 2025

Number:	3932ST	Scenario:	Main
Title:	Lakeshore Dr. - Jessups Creek to Premier Road	Project Stage:	Committee of Council Review
Asset Type:	Asset Improvement and Maintenance (General)	Strategic Plans:	Infrastructure / Sustainability
Division:	Capital - Infrastructure & Operations	Project Type:	
Budget Year:	2021	Active:	Yes

Description	Comments
<p>The project involves the engineering and construction services for upgrading the existing sanitary sewer and watermain. Road and boulevard surface restoration will also be required for the areas disturbed during construction. Restoration will include the road base aggregates, asphalt, curb, gutters, grass boulevard and concrete sidewalks.</p> <p>Engineering services will include preliminary evaluation and design, detailed design, agency approvals, contract drawings, specifications, and construction technical assistance. Construction will be undertaken by the City's Sewer & Water Department.</p>	<p>The existing sanitary sewer is undersized resulting in insufficient capacity to receive flows from the sanitary pumping station on Premier Road - this leads to backups and overflows in the system. The recent installation of a trunk sewer on Birchs Road helped alleviate the problem, but did not fully address it.</p> <p>The watermain along this section of the roadway is 100 mm, which is undersized for proper fire flow and will need to be upsized.</p> <p>Related projects include 3932RD/SS/WS.</p>

Scenario Description	Scenario Comments

Forecast	Project Detailed 2021																				
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Budget Year	Total Expense	Total Revenue	Difference																		
2023	400,000	400,000	0																		
2024	400,000	400,000	0																		
	800,000	800,000	0																		
LTD Amount: 30,000		Total Project Cost: 830,000																			

Related Projects	Operating Impacts

Year Identified	Start Date	Useful Life	Manager	Completion Date
2016	Jan 1, 2020	75 Years	Gerry McCrank	Dec 31, 2025

Number:	3932WS	Scenario:	Main
Title:	Lakeshore Dr. - Jessups Creek to Premier Road	Project Stage:	Committee of Council Review
Asset Type:	Asset Improvement and Maintenance (Water and Wastewater)	Strategic Plans:	Infrastructure / Sustainability
Division:	Capital - Water	Project Type:	
Budget Year:	2021	Active:	Yes

Description	Comments
<p>The project involves the engineering and construction services for upgrading the existing sanitary sewer and watermain. Road and boulevard surface restoration will also be required for the areas disturbed during construction. Restoration will include the road base aggregates, asphalt, curb, gutters, grass boulevard and concrete sidewalks.</p> <p>Engineering services will include preliminary evaluation and design, detailed design, agency approvals, contract drawings, specifications, and construction technical assistance. Construction will be undertaken by the City's Sewer & Water Department.</p>	<p>The existing sanitary sewer is undersized resulting in insufficient capacity to receive flows from the sanitary pumping station on Premier Road - this leads to backups and overflows in the system. The recent installation of a trunk sewer on Birchs Road helped alleviate the problem, but did not fully address it.</p> <p>The watermain along this section of the roadway is 100 mm, which is undersized for proper fire flow and will need to be upsized.</p> <p>Related projects include 3932RD/ST/SS.</p>

Scenario Description	Scenario Comments

Forecast	Project Detailed 2021																				
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Budget Year	Total Expense	Total Revenue	Difference																		
2023	725,000	725,000	0																		
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	1,450,000	1,450,000	0																		
LTD Amount: 30,000		Total Project Cost: 1,480,000																			

Related Projects	Operating Impacts

Year Identified	Start Date	Useful Life	Manager	Completion Date
2016	Jan 1, 2020	75 Years	Gerry McCrank	Dec 31, 2025

Number:	3934RD	Scenario:	Main
Title:	Main St. Paving Stone Replacement	Project Stage:	Committee of Council Review
Asset Type:	Asset Improvement and Maintenance (General)	Strategic Plans:	Infrastructure / Sustainability
Division:	Capital - Infrastructure & Operations	Project Type:	
Budget Year:	2021	Active:	Yes

Description	Comments
<p>The project involves the engineering and construction services for the replacement of the interlocking brick pavement, retaining walls, and streetscaping on Main Street between Cassells Street and Sherbrooke Street.</p> <p>Engineering services will include survey, design, contract drawings, specifications, tendering, construction inspection, contract administration, and project management.</p>	<p>The interlocking brick pavement was originally installed in 1983 on a 740 meter section of downtown Main Street and was based upon a twenty-year design life with an expected traffic volume of 8,000 vehicles per day including 5% delivery trucks and buses. The interlocking brick has performed very well and has exceeded its intended design life by over 50%.</p> <p>Significant deterioration on some portions is now evident and anticipated to get progressively worse in the near future. The Downtown Waterfront Master Plan provided a recommended concept for the streetscaping and materials.</p> <p>Related projects include: 3934ST</p>

Scenario Description	Scenario Comments

Forecast	Project Detailed 2021																				
<table border="1"> <thead> <tr> <th>Budget Year</th> <th>Total Expense</th> <th>Total Revenue</th> <th>Difference</th> </tr> </thead> <tbody> <tr> <td>2022</td> <td>2,000,000</td> <td>2,000,000</td> <td>0</td> </tr> <tr> <td>2023</td> <td>1,900,000</td> <td>1,900,000</td> <td>0</td> </tr> <tr> <td></td> <td>3,900,000</td> <td>3,900,000</td> <td>0</td> </tr> <tr> <td colspan="2">LTD Amount: 150,000</td> <td colspan="2">Total Project Cost: 4,050,000</td> </tr> </tbody> </table>	Budget Year	Total Expense	Total Revenue	Difference	2022	2,000,000	2,000,000	0	2023	1,900,000	1,900,000	0		3,900,000	3,900,000	0	LTD Amount: 150,000		Total Project Cost: 4,050,000		
Budget Year	Total Expense	Total Revenue	Difference																		
2022	2,000,000	2,000,000	0																		
2023	1,900,000	1,900,000	0																		
	3,900,000	3,900,000	0																		
LTD Amount: 150,000		Total Project Cost: 4,050,000																			

Related Projects	Operating Impacts

Year Identified	Start Date	Useful Life	Manager	Completion Date
2013	Jan 1, 2020	25 Years	Gerry McCrank	Dec 31, 2023

Number:	3934ST	Scenario:	Main
Title:	Main St. Paving Stone Replacement	Project Stage:	Committee of Council Review
Asset Type:	Asset Improvement and Maintenance (General)	Strategic Plans:	Infrastructure / Sustainability
Division:	Capital - Infrastructure & Operations	Project Type:	
Budget Year:	2021	Active:	Yes

Description	Comments
<p>The project involves the engineering and construction services for the replacement of the interlocking brick pavement, retaining walls, and streetscaping on Main Street between Cassells Street and Sherbrooke Street.</p> <p>Engineering services will include survey, design, contract drawings, specifications, tendering, construction inspection, contract administration, and project management.</p>	<p>The interlocking brick pavement was originally installed in 1983 on a 740 meter section of downtown Main Street and was based upon a twenty-year design life with an expected traffic volume of 8,000 vehicles per day including 5% delivery trucks and buses. The interlocking brick has performed very well and has exceeded its intended design life by over 50%.</p> <p>Significant deterioration on some portions is now evident and anticipated to get progressively worse in the near future. The Downtown Waterfront Master Plan provided a recommended concept for the streetscaping and materials.</p> <p>Related projects include: 3934RD</p>

Scenario Description	Scenario Comments

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Budget Year	Total Expense	Total Revenue	Difference														
2022	100,000	100,000	0														
	100,000	100,000	0														
LTD Amount: 50,000		Total Project Cost: 150,000															

Related Projects	Operating Impacts

Year Identified	Start Date	Useful Life	Manager	Completion Date
2013	Jan 1, 2020	25 Years	Gerry McCrank	Dec 31, 2024

Number:	3935SS	Scenario:	Main
Title:	Marshall 500 mm Forcemain Condition Assessment and Rehab	Project Stage:	Committee of Council Review
Asset Type:	Asset Improvement and Maintenance (Water and Wastewater)	Strategic Plans:	Infrastructure / Sustainability
Division:	Capital - Sewer	Project Type:	
Budget Year:	2021	Active:	Yes

Description	Comments
The project will allow for rehabilitation works as a result of the 2016 condition assessment of the forcemain that identified potential problem areas or failures in the system.	The Marshall Forcemain has been identified as a potential single point failure in the wastewater collection system. This forcemain serves much of the West Ferris area. A failure of this system could result in flooding and back-up of both residential neighborhoods and commercial developments throughout the West Ferris area.

Scenario Description	Scenario Comments

Forecast	Project Detailed 2021																
<table border="1"> <thead> <tr> <th>Budget Year</th> <th>Total Expense</th> <th>Total Revenue</th> <th>Difference</th> </tr> </thead> <tbody> <tr> <td>2022</td> <td>500,000</td> <td>500,000</td> <td>0</td> </tr> <tr> <td></td> <td>500,000</td> <td>500,000</td> <td>0</td> </tr> <tr> <td colspan="2">LTD Amount: 0</td> <td colspan="2">Total Project Cost: 500,000</td> </tr> </tbody> </table>	Budget Year	Total Expense	Total Revenue	Difference	2022	500,000	500,000	0		500,000	500,000	0	LTD Amount: 0		Total Project Cost: 500,000		
Budget Year	Total Expense	Total Revenue	Difference														
2022	500,000	500,000	0														
	500,000	500,000	0														
LTD Amount: 0		Total Project Cost: 500,000															

Related Projects	Operating Impacts

Year Identified	Start Date	Useful Life	Manager	Completion Date
2016	Jan 1, 2022	25 Years	Adam Lacombe	Dec 31, 2022

Number:	3936WS	Scenario:	Main
Title:	Watermain - Cathodic Protection Program	Project Stage:	Committee of Council Review
Asset Type:	Asset Improvement and Maintenance (Water and Wastewater)	Strategic Plans:	Infrastructure / Sustainability
Division:	Capital - Water	Project Type:	
Budget Year:	2021	Active:	Yes

Description	Comments
The project provides for a cathodic protection program to protect city watermains that are being corroded from the outside by adverse soil conditions.	This program extends the useful life of the City's metallic watermains. With the program in place, it is expected that the annual number of watermain breaks will decline. A previous project in this program focused on the 500 mm Birchs Road watermain.

Scenario Description	Scenario Comments

Forecast	Project Detailed 2021																																								
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Budget Year	Total Expense	Total Revenue	Difference																																						
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	200,000	200,000	0																																						
LTD Amount: 0		Total Project Cost: 200,000																																							
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Total Revenue:		200,000																																							

Related Projects	Operating Impacts

Year Identified	Start Date	Useful Life	Manager	Completion Date
2013	Jan 1, 2021	10 to 20 Years	Adam Lacombe	Dec 31, 2021

Number:	3938PR	Scenario:	Main
Title:	Olmsted Beach - Boat Launch Replacement	Project Stage:	Committee of Council Review
Asset Type:	Asset Improvement and Maintenance (General)	Strategic Plans:	Infrastructure / Sustainability, Maintenance
Division:	Capital - Community Services	Project Type:	
Budget Year:	2021	Active:	Yes

Description	Comments
This project provides for the design and construction to replace the Olmsted Boat Launch.	The boat launch at Olmsted Beach (Armstrong Park) has reached the end of its expected service life. Repairs undertaken to date have been temporary in nature. The boat launch provides an important public access to Trout Lake for boaters. Not undertaking the redevelopment will result in the eventual closing of the access due to health and safety concerns to users.

Scenario Description	Scenario Comments
	The following details support the Capital Forecast for 2022 to 2030: 2023 Olmsted boat launch design 2024 Olmsted boat launch construction

Forecast	Project Detailed 2021																				
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Budget Year	Total Expense	Total Revenue	Difference																		
2023	50,000	50,000	0																		
2024	550,000	550,000	0																		
	600,000	600,000	0																		
LTD Amount: 0		Total Project Cost: 600,000																			

Related Projects	Operating Impacts

Year Identified	Start Date	Useful Life	Manager	Completion Date
2018	Jan 1, 2023	25 Years	David Schroeder	Dec 31, 2024

Number:	3942RF	Scenario:	Main
Title:	Omischl Sports Complex - Synthetic Turf Replacement	Project Stage:	Committee of Council Review
Asset Type:	Asset Improvement and Maintenance (General)	Strategic Plans:	Infrastructure / Sustainability, Maintenance
Division:	Capital - Community Services	Project Type:	
Budget Year:	2021	Active:	Yes

Description	Comments
This project provides for the replacement of the two synthetic turf fields (soccer and football) at the Omischl Sports Complex when they have reached the end of their respective life cycle.	The synthetic turf (carpet and infill only) had an 8 year warranty which ends in 2020. The industry life cycle for a synthetic turf field is 10 to 20 years. Synthetic turf fields can have a longer life cycle depending on use, maintenance practices and climate. At the end of each year the condition of these fields will be reviewed and the replacement dates adjusted accordingly.

Scenario Description	Scenario Comments
	The following details support the Capital Forecast for 2022 to 2030: 2023 Soccer field synthetic turf replacement 2025 Football field synthetic turf replacement

Forecast	Project Detailed 2021																				
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Budget Year	Total Expense	Total Revenue	Difference																		
2023	600,000	600,000	0																		
2025	600,000	600,000	0																		
	1,200,000	1,200,000	0																		
LTD Amount: 0		Total Project Cost: 1,200,000																			

Related Projects	Operating Impacts

Year Identified	Start Date	Useful Life	Manager	Completion Date
2019	Jan 1, 2023	10 to 20 Years	David Schroeder	Dec 31, 2025

Number:	3943RF	Scenario:	Main
Title:	Omischl Sports Complex - Shade Structures Development	Project Stage:	Committee of Council Review
Asset Type:	Asset Improvement and Maintenance (General)	Strategic Plans:	Growth / Economic Development,...
Division:	Capital - Community Services	Project Type:	
Budget Year:	2021	Active:	Yes

Description	Comments
This project provides for the construction of shade structures. The first to be situated near the baseball diamonds and the second to be determined based on the new arena building location.	The first shade structures situated near the baseball diamonds will protect users from the sun and rain during regular league play. Additionally, the structure can be used by the ball tournament organizers to enhance their event.

Scenario Description	Scenario Comments
	The following details support the Capital Forecast for 2022 to 2030: 2023 Picnic shelter construction

Forecast	Project Detailed 2021																
<table border="1"> <thead> <tr> <th>Budget Year</th> <th>Total Expense</th> <th>Total Revenue</th> <th>Difference</th> </tr> </thead> <tbody> <tr> <td>2023</td> <td>100,000</td> <td>100,000</td> <td>0</td> </tr> <tr> <td></td> <td>100,000</td> <td>100,000</td> <td>0</td> </tr> <tr> <td colspan="2">LTD Amount: 171,136</td> <td colspan="2">Total Project Cost: 271,136</td> </tr> </tbody> </table>	Budget Year	Total Expense	Total Revenue	Difference	2023	100,000	100,000	0		100,000	100,000	0	LTD Amount: 171,136		Total Project Cost: 271,136		
Budget Year	Total Expense	Total Revenue	Difference														
2023	100,000	100,000	0														
	100,000	100,000	0														
LTD Amount: 171,136		Total Project Cost: 271,136															

Related Projects	Operating Impacts

Year Identified	Start Date	Useful Life	Manager	Completion Date
2019	Jan 1, 2023	25 Years	David Schroeder	Dec 31, 2023

Number:	3945RF	Scenario:	Main
Title:	Amelia Field Renovation & Lighting Upgrades	Project Stage:	Committee of Council Review
Asset Type:	Asset Improvement and Maintenance (General)	Strategic Plans:	Infrastructure / Sustainability
Division:	Capital - Community Services	Project Type:	
Budget Year:	2021	Active:	Yes

Description	Comments
This project provides for the renovation of the Amelia ball and soccer fields and upgrading the Amelia ball field lighting to LED fixtures.	The Amelia ball and soccer field renovations include turf, infield, fencing, and irrigation system work. The Amelia ball field lighting will be upgraded to LED fixtures that will improve efficiencies and reduce the maintenance concerns with the current metal halide lighting.

Scenario Description	Scenario Comments
	The following details support the Capital Forecast for 2022 to 2030: 2023 Amelia ball & soccer field renos // ball field lighting upgrade

Forecast	Project Detailed 2021																
<table border="1"> <thead> <tr> <th>Budget Year</th> <th>Total Expense</th> <th>Total Revenue</th> <th>Difference</th> </tr> </thead> <tbody> <tr> <td>2023</td> <td>375,000</td> <td>375,000</td> <td>0</td> </tr> <tr> <td></td> <td>375,000</td> <td>375,000</td> <td>0</td> </tr> <tr> <td colspan="2">LTD Amount: 25,000</td> <td colspan="2">Total Project Cost: 400,000</td> </tr> </tbody> </table>	Budget Year	Total Expense	Total Revenue	Difference	2023	375,000	375,000	0		375,000	375,000	0	LTD Amount: 25,000		Total Project Cost: 400,000		
Budget Year	Total Expense	Total Revenue	Difference														
2023	375,000	375,000	0														
	375,000	375,000	0														
LTD Amount: 25,000		Total Project Cost: 400,000															

Related Projects	Operating Impacts

Year Identified	Start Date	Useful Life	Manager	Completion Date
2019	Jan 1, 2023	25 Years	David Schroeder	Dec 31, 2023

Number:	3946RF	Scenario:	Main
Title:	Johnson Field Renovation & Lighting Upgrades	Project Stage:	Committee of Council Review
Asset Type:	Asset Improvement and Maintenance (General)	Strategic Plans:	Infrastructure / Sustainability
Division:	Capital - Community Services	Project Type:	
Budget Year:	2021	Active:	Yes

Description	Comments
This project provides for the renovation of Centennial Field including upgrading the lighting to LED.	The renovations include turf, infield fencing and irrigation work. The field lighting will be upgrade to LED fixtures that will improve inefficiencies and reduce the maintenance concerns with the current metal halide lighting.

Scenario Description	Scenario Comments
	The following details support the Capital Forecast for 2022 to 2030: 2022 Johnson ball field renos and lighting upgrades

Forecast	Project Detailed 2021																																												
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Budget Year	Total Expense	Total Revenue	Difference																																										
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Related Projects	Operating Impacts

Year Identified	Start Date	Useful Life	Manager	Completion Date
2019	Jan 1, 2021	25 Years	David Schroeder	Dec 31, 2024

Number:	4003WS	Scenario:	Main
Title:	Membrane Module Replacement	Project Stage:	Committee of Council Review
Asset Type:	Asset Improvement and Maintenance (Water and Wastewater)	Strategic Plans:	Infrastructure / Sustainability
Division:	Capital - Water	Project Type:	
Budget Year:	2021	Active:	Yes

Description	Comments
The project is to replace the membrane module.	The replacement of the membrane module is scheduled to take place in the year 2024 and 2025.

Scenario Description	Scenario Comments

Forecast	Project Detailed 2021																				
<table border="1"> <thead> <tr> <th>Budget Year</th> <th>Total Expense</th> <th>Total Revenue</th> <th>Difference</th> </tr> </thead> <tbody> <tr> <td>2024</td> <td>1,620,000</td> <td>1,620,000</td> <td>0</td> </tr> <tr> <td>2025</td> <td>1,620,000</td> <td>1,620,000</td> <td>0</td> </tr> <tr> <td></td> <td>3,240,000</td> <td>3,240,000</td> <td>0</td> </tr> <tr> <td colspan="2">LTD Amount: 0</td> <td colspan="2">Total Project Cost: 3,240,000</td> </tr> </tbody> </table>	Budget Year	Total Expense	Total Revenue	Difference	2024	1,620,000	1,620,000	0	2025	1,620,000	1,620,000	0		3,240,000	3,240,000	0	LTD Amount: 0		Total Project Cost: 3,240,000		
Budget Year	Total Expense	Total Revenue	Difference																		
2024	1,620,000	1,620,000	0																		
2025	1,620,000	1,620,000	0																		
	3,240,000	3,240,000	0																		
LTD Amount: 0		Total Project Cost: 3,240,000																			

Related Projects	Operating Impacts

Year Identified	Start Date	Useful Life	Manager	Completion Date
2012	Jan 1, 2024	15 Years	Karin Pratte	Dec 31, 2025

Number:	4005RD	Scenario:	Main
Title:	Pinewood Park Drive Continuous Left Turn Lane (Lakeshore Drive to Decaire Road)	Project Stage:	Committee of Council Review
Asset Type:	Growth (General)	Strategic Plans:	Growth / Economic Development,...
Division:	Capital - Infrastructure & Operations	Project Type:	
Budget Year:	2021	Active:	Yes

Description	Comments
<p>The project involves the engineering and construction services to add a continuous left turn lane from Lakeshore Drive to Decaire Road. The project has been included in the preparation of a Municipal Class Environmental Assessment for the Lakeshore Drive and Pinewood Park corridors under Project 3715RD Pinewood Park & Lakeshore Drive Intersection Reconstruction. Engineering services will include preliminary evaluation and design, detailed design, agency approvals, contract drawings, specifications, tendering and construction technical assistance.</p> <p>Road works include the road base aggregates, asphalt, and grass boulevard. Potential implementation of curb, gutter, and sidewalk will be examined during the EA.</p>	<p>As the Pinewood Park corridor continues to develop, increased traffic will necessitate additional lanes. It is anticipated that a continuous centre left turn lane will be required, but different configurations will also be examined during the Environmental Assessment, such as widening to four lanes.</p> <p>Related projects include 3715RD.</p>

Scenario Description	Scenario Comments

Forecast	Project Detailed 2021																				
<table border="1"> <thead> <tr> <th>Budget Year</th> <th>Total Expense</th> <th>Total Revenue</th> <th>Difference</th> </tr> </thead> <tbody> <tr> <td>2024</td> <td>90,000</td> <td>90,000</td> <td>0</td> </tr> <tr> <td>2027</td> <td>1,600,000</td> <td>1,600,000</td> <td>0</td> </tr> <tr> <td></td> <td>1,690,000</td> <td>1,690,000</td> <td>0</td> </tr> <tr> <td colspan="2">LTD Amount: 0</td> <td colspan="2">Total Project Cost: 1,690,000</td> </tr> </tbody> </table>	Budget Year	Total Expense	Total Revenue	Difference	2024	90,000	90,000	0	2027	1,600,000	1,600,000	0		1,690,000	1,690,000	0	LTD Amount: 0		Total Project Cost: 1,690,000		
Budget Year	Total Expense	Total Revenue	Difference																		
2024	90,000	90,000	0																		
2027	1,600,000	1,600,000	0																		
	1,690,000	1,690,000	0																		
LTD Amount: 0		Total Project Cost: 1,690,000																			

Related Projects	Operating Impacts

Year Identified	Start Date	Useful Life	Manager	Completion Date
2020	Jan 1, 2024	25 Years	Adam Lacombe	Dec 31, 2027

Number:	4006RD	Scenario:	Main
Title:	Trout Lake Road (Mountainview Drive to Lees Road)	Project Stage:	Committee of Council Review
Asset Type:	Asset Improvement and Maintenance (General)	Strategic Plans:	Infrastructure / Sustainability
Division:	Capital - Infrastructure & Operations	Project Type:	
Budget Year:	2021	Active:	Yes

Description		Comments
<p>The project involves the engineering and construction services for reconstruction and rehabilitation of Trout Lake Road from Mountainview Drive to Lees Road.</p> <p>Engineering services will include survey, design, contract drawings, specifications, tendering, construction inspection, contract administration, and project management.</p>		<p>The scope of work includes:</p> <p>1- Reconstruction of Roadway and Drainage Approximately 350 m of roadway is designated for reconstruction to address significant drainage and icing issues that have developed over the years and to repair the damage to the roadway as a result of such drainage issues. The scope of work includes the replacement and addition of storm sewers systems, replacement of the subbase and base materials including the asphalt, new curbs & gutters and new bike lanes on either side of the roadway.</p> <p>2- Asphalt Resurfacing and Guardrails Full depth reclamation with resurfacing is anticipated for the remaining portion of Trout Lake Road from approximately Mountainview Drive to Lees Road (less the section of roadway being reconstructed). Also included is the replacement of approximately 470m of guiderail system due to non-conformance as identified in the City's 2015 Guiderail Inventory & Assessment Summary Table.</p> <p>3- Bike Lanes The project will include the extension of bike lanes on either side of Trout Lake Road from Mountainview Drive to Lees Road in order to connect existing active transportation routes per the City's Active Transportation Master Plan.</p> <p>Trout Lake Road is classified as an inter-provincial connecting link roadway by the Ministry of Transportation (MTO). Under the MTO's Connecting Link program, grant funding has been approved and is included in the capital budget which represents approximately 90% (to a maximum of \$3m) of the design and construction costs.</p> <p>RTC CORP 2020-101 - Award of contract to Tatham Engineering Ltd. in the amount of \$175,000 (plus HST) for Design Services for Trout Lake Road Rehabilitation relates to the pre-commitment to the 2021 Capital Budget.</p>

Scenario Description		Scenario Comments

Forecast				Project Detailed 2021		
Budget Year	Total Expense	Total Revenue	Difference	GL Account	Description	Total Amount
2021	3,900,000	3,900,000	0	Expense		
	3,900,000	3,900,000	0	3425	CONSTRUCTION CONTRACT	3,822,000
LTD Amount: 0		Total Project Cost: 3,900,000		7010	ADMINISTRATON & OVERHEAD	78,000
					Total Expense:	3,900,000
				Revenue		
				0461	TSF FRM REV FUND-PAYGO	100,000
				0508	MIN OF TRANSPORTATION	3,000,000
				5901	DEBENTURE PROCEEDS	800,000
					Total Revenue:	3,900,000

Related Projects		Operating Impacts

Year Identified	Start Date	Useful Life	Manager	Completion Date
2020	Jan 1, 2021	25 Years	Adam Lacombe	Dec 31, 2021

Number:	4013FD	Scenario:	Main
Title:	Fire Station 1 - Roof Replacement	Project Stage:	Committee of Council Review
Asset Type:	Asset Improvement and Maintenance (General)	Strategic Plans:	Infrastructure / Sustainability, Maintenance
Division:	Capital - Community Services	Project Type:	
Budget Year:	2021	Active:	Yes

Description	Comments
This project provides for the replacement of the flat roof section of Fire Station 1.	Fire Station #1 flat roof has been identified as needing replacement. We are planning to complete the work in 2022.

Scenario Description	Scenario Comments
	Project to commence and be completed in 2022.

Forecast	Project Detailed 2021																
<table border="1"> <thead> <tr> <th>Budget Year</th> <th>Total Expense</th> <th>Total Revenue</th> <th>Difference</th> </tr> </thead> <tbody> <tr> <td>2022</td> <td>124,200</td> <td>124,200</td> <td>0</td> </tr> <tr> <td></td> <td>124,200</td> <td>124,200</td> <td>0</td> </tr> <tr> <td>LTD Amount: 0</td> <td colspan="3">Total Project Cost: 124,200</td> </tr> </tbody> </table>	Budget Year	Total Expense	Total Revenue	Difference	2022	124,200	124,200	0		124,200	124,200	0	LTD Amount: 0	Total Project Cost: 124,200			
Budget Year	Total Expense	Total Revenue	Difference														
2022	124,200	124,200	0														
	124,200	124,200	0														
LTD Amount: 0	Total Project Cost: 124,200																

Related Projects	Operating Impacts

Year Identified	Start Date	Useful Life	Manager	Completion Date
2020	Jan 1, 2022	20+ years	Jason Whiteley	Dec 31, 2022

Number:	4016TR	Scenario:	Main
Title:	Transit Terminal Rehabilitation	Project Stage:	Committee of Council Review
Asset Type:	Asset Improvement and Maintenance (General)	Strategic Plans:	Infrastructure / Sustainability, Maintenance
Division:	Capital - Infrastructure & Operations	Project Type:	
Budget Year:	2021	Active:	Yes

Description		Comments	
This project is for the rehabilitation of the transit terminal for passenger safety and to promote public transit.		This program provides for rehabilitation of the transit terminal in order to ensure passenger safety and promote public transit. This includes the repair or replacement of existing walkway surface, creation of green space, restoration of shelters and upgraded lighting and development of pedestrian friendly environment to ensure security, safety, and accessibility for pedestrians walking to and from and waiting at the transit terminal. Budget includes funding through the Investing in Canada Infrastructure Program.	
Scenario Description		Scenario Comments	
Forecast		Project Detailed 2021	
Budget Year	Total Expense	Total Revenue	Difference
2022	86,250	86,250	0
2023	86,250	86,250	0
	172,500	172,500	0
LTD Amount: 86,250		Total Project Cost: 258,750	
Related Projects		Operating Impacts	
Year Identified	Start Date	Useful Life	Manager
2020	Jan 1, 2020	TBD	Drew Poeta
			Completion Date
			Dec 31, 2023

Number:	4018TR	Scenario:	Main
Title:	Transit Fleet Garage and Bus Barn Upgrades: Health and Safety	Project Stage:	Committee of Council Review
Asset Type:	Asset Improvement and Maintenance (General)	Strategic Plans:	Infrastructure / Sustainability,...
Division:	Capital - Infrastructure & Operations	Project Type:	
Budget Year:	2021	Active:	Yes

Description	Comments
This project provides for upgrades to the Fleet Garage and Bus Barn, which will also resolve some health and safety concerns.	<p>This project will resolve some current health and safety concerns and provide other upgrades within the Fleet Garage and Bus Barn. This is planned to be done through the installation of a permanent fall arrest anchor system for working at heights, vehicle lifting devices, and approximately 16 security cameras.</p> <p>This project will also include the purchase of specialized tools, network and work stations, diagnostic laptops and software, and computerized systems for monitoring bulk fluids and scanning system for transit inventory.</p> <p>Budget includes funding through the Investing in Canada Infrastructure Program. The City is awaiting Federal approval of the submitted application.</p>

Scenario Description	Scenario Comments

Forecast	Project Detailed 2021																								
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Budget Year	Total Expense	Total Revenue	Difference																						
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2023	10,000	10,000	0																						
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LTD Amount: 124,555	Total Project Cost: 381,512																								

Related Projects	Operating Impacts

Year Identified	Start Date	Useful Life	Manager	Completion Date
2020	Jan 1, 2021	TBD	Drew Poeta	Dec 31, 2025

Number:	4019TR	Scenario:	Main
Title:	Specialized Transit (Para) AVL	Project Stage:	Committee of Council Review
Asset Type:	Strategic Investment (General)	Strategic Plans:	Technology, Equipment Replacement
Division:	Capital - Infrastructure & Operations	Project Type:	
Budget Year:	2021	Active:	Yes

Description	Comments
This project is for improvements to the specialized transit buses.	This project is for the purchase and installation of on-board video cameras and an automatic vehicle location system on specialized transit fleet vehicles. Budget includes funding through the Investing in Canada Infrastructure Program.

Scenario Description	Scenario Comments

Forecast	Project Detailed 2021																																											
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Budget Year	Total Expense	Total Revenue	Difference																																									
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GL Account	Description	Total Amount																																										
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Total Revenue:		78,750																																										

Related Projects	Operating Impacts

Year Identified	Start Date	Useful Life	Manager	Completion Date
2020	Jan 1, 2021	TBD	Drew Poeta	Dec 31, 2021

Number:	4020TR	Scenario:	Main
Title:	New Bus Shelters and Digital Signage	Project Stage:	Committee of Council Review
Asset Type:	Strategic Investment (General)	Strategic Plans:	Infrastructure / Sustainability, Maintenance
Division:	Capital - Infrastructure & Operations	Project Type:	
Budget Year:	2021	Active:	Yes

Description	Comments
This project is for the rehabilitation of existing shelters, purchase of new shelters, and the addition of digital signage.	This project will provide for the rehabilitation of 8 existing shelters, the purchase and installation of 12 solar powered shelters and pads, and add approximately 20 digital signage at transfer locations and other stops that experience high passenger frequency. Budget includes funding through the Investing in Canada Infrastructure Program.

Scenario Description	Scenario Comments

Forecast	Project Detailed 2021																				
<table border="1"> <thead> <tr> <th>Budget Year</th> <th>Total Expense</th> <th>Total Revenue</th> <th>Difference</th> </tr> </thead> <tbody> <tr> <td>2022</td> <td>219,240</td> <td>219,240</td> <td>0</td> </tr> <tr> <td>2024</td> <td>158,761</td> <td>158,761</td> <td>0</td> </tr> <tr> <td></td> <td>378,001</td> <td>378,001</td> <td>0</td> </tr> <tr> <td colspan="2">LTD Amount: 63,000</td> <td colspan="2">Total Project Cost: 441,001</td> </tr> </tbody> </table>	Budget Year	Total Expense	Total Revenue	Difference	2022	219,240	219,240	0	2024	158,761	158,761	0		378,001	378,001	0	LTD Amount: 63,000		Total Project Cost: 441,001		
Budget Year	Total Expense	Total Revenue	Difference																		
2022	219,240	219,240	0																		
2024	158,761	158,761	0																		
	378,001	378,001	0																		
LTD Amount: 63,000		Total Project Cost: 441,001																			

Related Projects	Operating Impacts

Year Identified	Start Date	Useful Life	Manager	Completion Date
2020	Jan 1, 2021	TBD	Drew Poeta	Dec 31, 2024

Number:	4021TR	Scenario:	Main
Title:	Construction of Sidewalks for Transit Routes	Project Stage:	Committee of Council Review
Asset Type:	Strategic Investment (General)	Strategic Plans:	Growth / Economic Development,...
Division:	Capital - Infrastructure & Operations	Project Type:	
Budget Year:	2021	Active:	Yes

Description	Comments
This project is for the construction of new sidewalks to transit stops.	This project will construct new sidewalks to comply with the Municipal Right-of-Way for direct routing of pedestrians to transit stops (approximately 4.2km). This includes connecting existing sidewalks to permit a continuous pedestrian path to established transit stops. Budget includes funding through the Investing in Canada Infrastructure Program.

Scenario Description	Scenario Comments

Forecast	Project Detailed 2021																																																																							
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Related Projects	Operating Impacts			
Year Identified	Start Date	Useful Life	Manager	Completion Date
2020	Jan 1, 2020	TBD	Gerry McCrank	Dec 31, 2025

Number:	4022TR	Scenario:	Main
Title:	Transit Fleet Garage and Bus Barn Upgrades: Central Vacuum System and Doors	Project Stage:	Committee of Council Review
Asset Type:	Asset Improvement and Maintenance (General)	Strategic Plans:	Infrastructure / Sustainability, Maintenance
Division:	Capital - Infrastructure & Operations	Project Type:	
Budget Year:	2021	Active:	Yes

Description	Comments
This project is for upgrades to the doors and central vacuum system in the Fleet Garage and Bus Barn.	<p>This program will replace the large garage doors in both the vehicle maintenance facility and bus storage facility. The new doors will be insulated to assist in the reduction of operating costs of maintaining temperatures.</p> <p>This program will also provide for the purchase and installation of an industrial central vacuum system which will increase the cleaning capacity for the 21 bus fleet.</p> <p>Budget includes funding through the Investing in Canada Infrastructure Program.</p>

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Year Identified	Start Date	Useful Life	Manager	Completion Date
2020	Jan 1, 2021	TBD	Drew Poeta	Dec 31, 2021

Number:	4025RD	Scenario:	Main
Title:	Booth Road & Lakeshore Drive Intersection Reconstruction	Project Stage:	Committee of Council Review
Asset Type:	Growth (General)	Strategic Plans:	Growth / Economic Development,...
Division:	Capital - Infrastructure & Operations	Project Type:	
Budget Year:	2021	Active:	Yes

Description	Comments
<p>The project involves the engineering and construction services to upgrade the intersection at Booth Road and Lakeshore Drive. The impact of additional traffic anticipated to be generated from the new City of North Bay Community and Recreation Centre located at the Steve Omischl Sports Field Complex will require upgrades to the intersection.</p> <p>Engineering services will include survey, design, contract drawings, specifications, tendering, construction inspection, contract administration, and project management. The project has been included in the preparation of a Municipal Class Environmental Assessment for the Lakeshore Drive and Pinewood Park corridors under Project 3715RD Pinewood Park & Lakeshore Drive Intersection Reconstruction.</p>	<p>The Steve Omischl Sports Field Complex was selected as the site for the new City of North Bay Community and Recreation Centre. The main entrance to the site is located at the Booth Road and Lakeshore Drive intersection and will see an increased traffic load once the City of North Bay Community and Recreation Centre is complete. Potential options for upgrading the intersection could include a signalized intersection with additional lanes or a roundabout.</p> <p>Related projects include 3711RF & 3715RD</p>

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Related Projects	Operating Impacts

Year Identified	Start Date	Useful Life	Manager	Completion Date
2020	Jan 1, 2021	25 Years	Adam Lacombe	Dec 31, 2022

Number:	4027TR	Scenario:	Main
Title:	Bicycle Racks and Related Storage Areas for Transit Riders	Project Stage:	Committee of Council Review
Asset Type:	Asset Improvement and Maintenance (General)	Strategic Plans:	Equipment Replacement
Division:	Capital - Infrastructure & Operations	Project Type:	
Budget Year:	2021	Active:	Yes

Description	Comments
This project will provide for the purchase and installation of bicycle and related storage racks for transit buses.	This program will provide for the purchase and installation of 21 bicycle racks on transit buses as well as 30 secure bicycle/ personal storage areas throughout the City. Budget includes funding through the Investing in Canada Infrastructure Program.

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Related Projects	Operating Impacts

Year Identified	Start Date	Useful Life	Manager	Completion Date
2020	Jan 1, 2021	TBD	Drew Poeta	Dec 31, 2022

Number:	4029SS	Scenario:	Main
Title:	Wastewater Treatment Plant - Raw Sewage Pumping Station	Project Stage:	Committee of Council Review
Asset Type:	Asset Improvement and Maintenance (Water and Wastewater)	Strategic Plans:	Infrastructure / Sustainability
Division:	Capital - Sewer	Project Type:	
Budget Year:	2021	Active:	Yes

Description	Comments
This project provides for the replacement of the 2 raw sewage pumps at the Wastewater Treatment Plant along with a new in line grinder (Muffin Monster) for the raw sewage.	<p>The facility is dependent on the sewage pumping station to provide the required head pressure so that waste flows continuously through the various treatment processes.</p> <p>There are 4 raw sewage pumps at the North Bay Wastewater Treatment Plant that were all recommended for replacement in a condition assessment completed in 2011. Two of these pumps were replaced in 2016/2017. This project provides for the replacement of the 2 other raw sewage pumps along with a new in line grinder (Muffin Monster).</p>

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Year Identified	Start Date	Useful Life	Manager	Completion Date
2013	Jan 1, 2021	20 Years	Karin Pratte	Dec 31, 2021

Number:	4030SS	Scenario:	Main
Title:	Sanitary Sewer Relining	Project Stage:	Committee of Council Review
Asset Type:	Asset Improvement and Maintenance (Water and Wastewater)	Strategic Plans:	Infrastructure / Sustainability, Master Plans
Division:	Capital - Sewer	Project Type:	
Budget Year:	2021	Active:	Yes

Description	Comments
This project will involve the installation of a structural liner that will reinforce the existing sanitary sewers.	This project will involve an assessment of sanitary sewers in the City that have a history of breaks and the installation of a lining to mitigate ground water infiltration into the sanitary sewer system.

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Related Projects	Operating Impacts

Year Identified	Start Date	Useful Life	Manager	Completion Date
2020	Jan 1, 2024	TBD	Domenic Schiavone	Dec 31, 2029

Number:	4031WS	Scenario:	Main
Title:	Public Works Building Rehab	Project Stage:	Committee of Council Review
Asset Type:	Asset Improvement and Maintenance (Water and Wastewater)	Strategic Plans:	Maintenance
Division:	Capital - Water	Project Type:	
Budget Year:	2021	Active:	Yes

Description	Comments
This project is to address rehabilitation costs to the public works buildings at the Franklin site in order to meet operational needs.	In 2024, condition assessments of all public works buildings at the Franklin site are to be initiated and completed. Based on the condition assessments performed, addressing immediate requirements, planning- including engineering and potential architectural designing- would be initiated in 2026. Through this planning process, it is anticipated that in order to meet operational needs, either significant upgrades to current facilities or the re-configuration or addition of facilities will be required to be initiated in 2029.

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Year Identified	Start Date	Useful Life	Manager	Completion Date
2020	Jan 1, 2024	TBD	Domenic Schiavone	Dec 31, 2029

Number:	4032RD	Scenario:	Main
Title:	O'Brien St. Reconstruction - Cassells to Ski Club	Project Stage:	Committee of Council Review
Asset Type:	Asset Improvement and Maintenance (General)	Strategic Plans:	Infrastructure / Sustainability
Division:	Capital - Infrastructure & Operations	Project Type:	
Budget Year:	2021	Active:	Yes

Description	Comments
<p>The project involves the engineering and construction services for reconstruction of above-ground and underground infrastructure and to upgrade O'Brien Street to a proper collector standard from Cassells Street to Ski Club Road.</p> <p>Engineering services will include an Environmental Assessment (EA), preliminary and detailed design, agency approvals, contract drawings, specifications, tendering and construction technical assistance. Road works include the road base aggregates, asphalt, curb, gutter, grass boulevard and concrete sidewalk. Underground works will include the installation of storm sewers and repair/rehabilitation/replacement of sanitary sewers and watermains.</p>	<p>O'Brien Street was originally constructed as a semi-urban collector (i.e. ditches were constructed for drainage). The City Capital Works Program has targeted upgrading of the City's arterial roads as a primary objective. As most of the arterial routes have been addressed, the collector and bus routes are the secondary priority to be addressed.</p> <p>O'Brien Street is a primary collector route between Cassells Street and Airport Road. Over the years some ditches have filled in, resulting in poor surface drainage and improper road base drainage. Drainage improvement will result in a pavement structure with a longer life.</p> <p>The work will be constructed in several phases. Related Project includes 4032ST/SS/WS and 3920RD/ST/SS/WS.</p>

Scenario Description	Scenario Comments

Forecast	Project Detailed 2021																				
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Related Projects	Operating Impacts

Year Identified	Start Date	Useful Life	Manager	Completion Date
2012	Jan 1, 2026	25 Years	Adam Lacombe	Dec 31, 2031

Number:	4032SS	Scenario:	Main
Title:	O'Brien St. Reconstruction - Cassells to Ski Club	Project Stage:	Committee of Council Review
Asset Type:	Asset Improvement and Maintenance (Water and Wastewater)	Strategic Plans:	Infrastructure / Sustainability
Division:	Capital - Sewer	Project Type:	
Budget Year:	2021	Active:	Yes

Description	Comments
<p>The project involves the engineering and construction services for reconstruction of above-ground and underground infrastructure and to upgrade O'Brien Street to a proper collector standard from Cassells Street to Ski Club Road.</p> <p>Engineering services will include an Environmental Assessment (EA), preliminary and detailed design, agency approvals, contract drawings, specifications, tendering and construction technical assistance. Road works include the road base aggregates, asphalt, curb, gutter, grass boulevard and concrete sidewalk. Underground works will include the installation of storm sewers and repair/rehabilitation/replacement of sanitary sewers and watermains.</p>	<p>O'Brien Street was originally constructed as a semi-urban collector (i.e. ditches were constructed for drainage). The City Capital Works Program has targeted upgrading of the City's arterial roads as a primary objective. As most of the arterial routes have been addressed, the collector and bus routes are the secondary priority to be addressed.</p> <p>O'Brien Street is a primary collector route between Cassells Street and Airport Road. Over the years some ditches have filled in, resulting in poor surface drainage and improper road base drainage. Drainage improvement will result in a pavement structure with a longer life.</p> <p>The work will be constructed in several phases. Related Project includes 4032RD/ST/WS and 3920RD/ST/SS/WS.</p>

Scenario Description	Scenario Comments

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Related Projects	Operating Impacts

Year Identified	Start Date	Useful Life	Manager	Completion Date
2012	Jan 1, 2026	75 Years	Adam Lacombe	Dec 31, 2031

Number:	4032ST	Scenario:	Main
Title:	O'Brien St. Reconstruction - Cassells to Ski Club	Project Stage:	Committee of Council Review
Asset Type:	Asset Improvement and Maintenance (General)	Strategic Plans:	Infrastructure / Sustainability
Division:	Capital - Infrastructure & Operations	Project Type:	
Budget Year:	2021	Active:	Yes

Description	Comments
<p>The project involves the engineering and construction services for reconstruction of above-ground and underground infrastructure and to upgrade O'Brien Street to a proper collector standard from Cassells Street to Ski Club Road.</p> <p>Engineering services will include an Environmental Assessment (EA), preliminary and detailed design, agency approvals, contract drawings, specifications, tendering and construction technical assistance. Road works include the road base aggregates, asphalt, curb, gutter, grass boulevard and concrete sidewalk. Underground works will include the installation of storm sewers and repair/rehabilitation/replacement of sanitary sewers and watermains.</p>	<p>O'Brien Street was originally constructed as a semi-urban collector (i.e. ditches were constructed for drainage). The City Capital Works Program has targeted upgrading of the City's arterial roads as a primary objective. As most of the arterial routes have been addressed, the collector and bus routes are the secondary priority to be addressed.</p> <p>O'Brien Street is a primary collector route between Cassells Street and Airport Road. Over the years some ditches have filled in, resulting in poor surface drainage and improper road base drainage. Drainage improvement will result in a pavement structure with a longer life.</p> <p>The work will be constructed in several phases. Related Project includes 4032RD/SS/WS and 3920RD/ST/SS/WS.</p>

Scenario Description	Scenario Comments

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Related Projects	Operating Impacts

Year Identified	Start Date	Useful Life	Manager	Completion Date
2012	Jan 1, 2026	75 Years	Adam Lacombe	Dec 31, 2031

Number:	4032WS	Scenario:	Main
Title:	O'Brien St. Reconstruction - Cassells to Ski Club	Project Stage:	Committee of Council Review
Asset Type:	Asset Improvement and Maintenance (Water and Wastewater)	Strategic Plans:	Infrastructure / Sustainability
Division:	Capital - Water	Project Type:	
Budget Year:	2021	Active:	Yes

Description	Comments
<p>The project involves the engineering and construction services for reconstruction of above-ground and underground infrastructure and to upgrade O'Brien Street to a proper collector standard from Cassells Street to Ski Club Road.</p> <p>Engineering services will include an Environmental Assessment (EA), preliminary and detailed design, agency approvals, contract drawings, specifications, tendering and construction technical assistance. Road works include the road base aggregates, asphalt, curb, gutter, grass boulevard and concrete sidewalk. Underground works will include the installation of storm sewers and repair/rehabilitation/replacement of sanitary sewers and watermains.</p>	<p>O'Brien Street was originally constructed as a semi-urban collector (i.e. ditches were constructed for drainage). The City Capital Works Program has targeted upgrading of the City's arterial roads as a primary objective. As most of the arterial routes have been addressed, the collector and bus routes are the secondary priority to be addressed.</p> <p>O'Brien Street is a primary collector route between Cassells Street and Airport Road. Over the years some ditches have filled in, resulting in poor surface drainage and improper road base drainage. Drainage improvement will result in a pavement structure with a longer life.</p> <p>The work will be constructed in several phases. Related Project includes 4032RD/ST/SS and 3920RD/ST/SS/WS.</p>

Scenario Description	Scenario Comments

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Related Projects	Operating Impacts

Year Identified	Start Date	Useful Life	Manager	Completion Date
2012	Jan 1, 2026	75 Years	Adam Lacombe	Dec 31, 2031

Number:	4033RD	Scenario:	Main
Title:	Roadside Guardrails and Retaining Walls - Inspection and Upgrade	Project Stage:	Committee of Council Review
Asset Type:	Asset Improvement and Maintenance (General)	Strategic Plans:	Infrastructure / Sustainability, Maintenance
Division:	Capital - Infrastructure & Operations	Project Type:	
Budget Year:	2021	Active:	Yes

Description	Comments
<p>The project involves the engineering and construction services to maintain and rehabilitate retaining wall and guide rail systems across the City.</p> <p>Engineering services will include survey, design, contract drawings, specifications, tendering, construction inspection, contract administration, and project management.</p>	<p>The priority of this project relates to the need to maintain or improve the City's roadside safety infrastructure. An initial inspection of the City's guiderails was completed in 2015 that identified priority repairs and enhancements. The retaining walls inspection is to be completed at a later date. Repair and rehabilitation works will be carried out on an on-going basis.</p>

Scenario Description	Scenario Comments

Forecast	Project Detailed 2021																																															
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Related Projects	Operating Impacts

Year Identified	Start Date	Useful Life	Manager	Completion Date
2018	Jan 1, 2021	25 Years	Adam Lacombe	Dec 31, 2026

Number:	4034RD	Scenario:	Main
Title:	Road Condition Inspection	Project Stage:	Committee of Council Review
Asset Type:	Asset Improvement and Maintenance (General)	Strategic Plans:	Maintenance
Division:	Capital - Infrastructure & Operations	Project Type:	
Budget Year:	2021	Active:	Yes

Description	Comments
The project involves the engineering services for the condition inspection of the City's roadway network. Condition inspections were previously undertaken on a four year cycle (2007, 2011, and 2015).	The information gathered is used in the City's Pavement Management System software to model and analyze the needs and most cost-effective treatments to maintain, rehabilitate, or replace the pavement structure of the City's road network. In accordance with the City's Asset Management Plan, the condition of the City's road network will be monitored and analyzed on an on-going basis to determine and confirm prioritization with respect to the condition assessment and needs of the overall road and infrastructure network. In order to ensure the most cost-effective resurfacing program, regular updates of the road network condition data are required to ensure accurate and defensible needs assessments and work prioritization.

Scenario Description	Scenario Comments

Forecast	Project Detailed 2021																				
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Related Projects	Operating Impacts

Year Identified	Start Date	Useful Life	Manager	Completion Date
2015	Jan 1, 2025	NA	Adam Lacombe	Dec 31, 2029

Number:	4036ST	Scenario:	Main
Title:	Local Drainage Rehab	Project Stage:	Committee of Council Review
Asset Type:	Asset Improvement and Maintenance (General)	Strategic Plans:	Infrastructure / Sustainability, Maintenance
Division:	Capital - Infrastructure & Operations	Project Type:	
Budget Year:	2021	Active:	Yes

Description	Comments
The project involves the engineering and construction services for localized drainage issues requiring an engineered solution.	Some localized drainage issues cannot be resolved through regular maintenance and operational activities and require an engineered solution.

Scenario Description	Scenario Comments

Forecast	Project Detailed 2021																																								
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Related Projects	Operating Impacts

Year Identified	Start Date	Useful Life	Manager	Completion Date
2020	Jan 1, 2021	TBD	Adam Lacombe	Dec 31, 2021

Number:	4037SS	Scenario:	Main
Title:	Sage Area Trunk Sewer Improvements	Project Stage:	Committee of Council Review
Asset Type:	Asset Improvement and Maintenance (Water and Wastewater)	Strategic Plans:	Infrastructure / Sustainability
Division:	Capital - Sewer	Project Type:	
Budget Year:	2021	Active:	Yes

Description	Comments
The project involves the engineering and construction services for upsizing of a portion of the Sage trunk sanitary sewer system. Engineering services will include preliminary design, detailed design, agency approvals, contract drawings, specifications, tendering, and construction technical assistance.	<p>The undersized section runs from the intersection of K&K Drive and Wallace, through an easement on the old Arclin Canada property, under the ONR train tracks and through an easement between two residential properties on Perut Place.</p> <p>Given the constraints of working in easements on private properties, including very close proximity to two residential houses, different alternatives will be generated to solve the capacity issues. The alternatives could include a new sewer on a new alignment or the use of trenchless technologies to upsize the existing pipe.</p> <p>The 2008 Infrastructure Background Study that was prepared in support of the Official Plan update identified that this section of the Sage Road Trunk is currently undersized and during peak flows the pipe capacity will be exceeded. Any additional development served by the Sage Trunk will only make the capacity issues worse. The engineering study will look at different alternatives to address the capacity issues.</p>

Scenario Description	Scenario Comments

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Related Projects	Operating Impacts

Year Identified	Start Date	Useful Life	Manager	Completion Date
2008	Jan 1, 2024	75 Years	Adam Lacombe	Dec 31, 2027

Number:	4101GG	Scenario:	Main
Title:	City Hall Accessibility Upgrades	Project Stage:	Committee of Council Review
Asset Type:	Asset Improvement and Maintenance (General)	Strategic Plans:	Infrastructure / Sustainability, Maintenance
Division:	Capital - Infrastructure & Operations	Project Type:	
Budget Year:	2021	Active:	Yes

Description		Comments	
To meet standards under the Accessibility for Ontarians with Disabilities 2005, it's anticipated that the City will need to undertake significant renovations to City Hall and other municipal buildings under the (yet to be released) Built Environment Standard. The purpose of the Act is to improve opportunities for people with disabilities by removing barriers. The standards under the Act are being implemented in phases and will lead to full accessibility in Ontario by 2025.		Condition Assessments on City buildings will be initiated once standards are released to identify priority projects. Anticipated that there will be Funding opportunities related to this standard which will be pursued as they present themselves.	

Scenario Description		Scenario Comments	

Forecast		Project Detailed 2021	
Budget Year	Total Expense	Total Revenue	Difference
2022	100,000	100,000	0
2023	900,000	900,000	0
	1,000,000	1,000,000	0
LTD Amount: 0	Total Project Cost: 1,000,000		

Related Projects		Operating Impacts	

Year Identified	Start Date	Useful Life	Manager	Completion Date
2011	Jan 1, 2022	15 Years	David Jackowski	Dec 31, 2023

Number:	4102WS	Scenario:	Main
Title:	Ellendale Pumping Station Second Feed to Airport	Project Stage:	Committee of Council Review
Asset Type:	Strategic Investment (Water and Wastewater)	Strategic Plans:	Growth / Economic Development,...
Division:	Capital - Water	Project Type:	
Budget Year:	2021	Active:	Yes

Description	Comments
<p>The project involves the engineering and construction services for a new trunk watermain that will provide a duplicate feed from the Ellendale Booster Pumping Station to the Airport Hill distribution system.</p> <p>Engineering services will include survey, design, contract drawings, specifications, tendering, construction inspection, contract administration, and project management.</p>	<p>The Ellendale site is comprised of two facilities. The reservoir provides a water storage facility for water supplied directly from the Water Treatment Plant. Water from the reservoir supplies Zone 1 as well as the Ellendale Booster Pumping Station (BPS). The BPS provides water to the Airport Hill area. Both the feed to the reservoir, as well as the discharge pipe from the BPS is a single feed. There is a great risk that a single point failure on either of these feeds would lead to significant disruptions in the water distribution system.</p> <p>This project will look at different alignments to provide a second feed to the Airport Hill area, including Ellendale Drive to Airport Road. Projects 3931RD/WS both address the single feed to the Ellendale Reservoir.</p>

Scenario Description	Scenario Comments

Forecast	Project Detailed 2021																								
<table border="1"> <thead> <tr> <th>Budget Year</th> <th>Total Expense</th> <th>Total Revenue</th> <th>Difference</th> </tr> </thead> <tbody> <tr> <td>2024</td> <td>200,000</td> <td>200,000</td> <td>0</td> </tr> <tr> <td>2027</td> <td>1,500,000</td> <td>1,500,000</td> <td>0</td> </tr> <tr> <td>2028</td> <td>1,000,000</td> <td>1,000,000</td> <td>0</td> </tr> <tr> <td></td> <td>2,700,000</td> <td>2,700,000</td> <td>0</td> </tr> <tr> <td>LTD Amount: 0</td> <td colspan="3">Total Project Cost: 2,700,000</td> </tr> </tbody> </table>	Budget Year	Total Expense	Total Revenue	Difference	2024	200,000	200,000	0	2027	1,500,000	1,500,000	0	2028	1,000,000	1,000,000	0		2,700,000	2,700,000	0	LTD Amount: 0	Total Project Cost: 2,700,000			
Budget Year	Total Expense	Total Revenue	Difference																						
2024	200,000	200,000	0																						
2027	1,500,000	1,500,000	0																						
2028	1,000,000	1,000,000	0																						
	2,700,000	2,700,000	0																						
LTD Amount: 0	Total Project Cost: 2,700,000																								

Related Projects	Operating Impacts

Year Identified	Start Date	Useful Life	Manager	Completion Date
2016	Jan 1, 2024	75 Years	Adam Lacombe	Dec 31, 2028

Number:	4103SS	Scenario:	Main
Title:	Wastewater Treatment Plant Expansion	Project Stage:	Committee of Council Review
Asset Type:	Asset Improvement and Maintenance (Water and Wastewater)	Strategic Plans:	Infrastructure / Sustainability
Division:	Capital - Sewer	Project Type:	
Budget Year:	2021	Active:	Yes

Description		Comments	
The project provides for engineering and construction of the expansion and upgrades to the wastewater treatment facility to handle the increasing wastewater volume.		This project provides funds for purchase of additional lands along with design and engineering for the expansion of the wastewater plant in order to handle increasing wastewater volumes.	

Scenario Description		Scenario Comments	

Forecast		Project Detailed 2021	
Budget Year	Total Expense	Total Revenue	Difference
2022	3,500,000	3,500,000	0
2025	7,000,000	7,000,000	0
2028	250,000	250,000	0
2029	9,350,000	9,350,000	0
	20,100,000	20,100,000	0
LTD Amount: 0		Total Project Cost: 20,100,000	

Related Projects		Operating Impacts	

Year Identified	Start Date	Useful Life	Manager	Completion Date
2016	Jan 1, 2022	TBD	Karin Pratte	Dec 31, 2029

Number:	4104PZ	Scenario:	Main
Title:	Infrastructure Background Study Update and Special Area Charge Study	Project Stage:	Committee of Council Review
Asset Type:	Strategic Investment (General)	Strategic Plans:	Master Plans
Division:	Capital - Community Services	Project Type:	
Budget Year:	2021	Active:	Yes

Description	Comments
It is a joint project between Infrastructure and Operation and Community Growth and Development.	The purpose of this project is to update the Infrastructure Background Study completed by Stantec Consulting in January 2008 and complete a special area charge study for the community to determine the offsetting property charge to pay for front ending infrastructure installation.

Scenario Description	Scenario Comments

Forecast	Project Detailed 2021																																								
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Related Projects	Operating Impacts

Year Identified	Start Date	Useful Life	Manager	Completion Date
2021	Jan 1, 2021	TBD	Beverley Hillier	Dec 31, 2021

Number:	4105RD	Scenario:	Main
Title:	Pearson St. and Bank St. Culverts Replacement	Project Stage:	Committee of Council Review
Asset Type:	Asset Improvement and Maintenance (General)	Strategic Plans:	Infrastructure / Sustainability
Division:	Capital - Infrastructure & Operations	Project Type:	
Budget Year:	2021	Active:	Yes

Description	Comments
The existing culverts on Pearson St. and Bank St. are at the end of their useful life and need to be replaced. Engineering services will include survey, design, contract drawings, specifications, tendering, construction inspection, contract administration, and project management.	The existing culverts are made of corrugated steel and will be replaced with plastic or concrete culverts.

Scenario Description	Scenario Comments

Forecast	Project Detailed 2021																																											
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Related Projects	Operating Impacts

Year Identified	Start Date	Useful Life	Manager	Completion Date
2021	Jan 1, 2021	75 Years	Reid Porter	Dec 31, 2021

Number:	4106RD	Scenario:	Main
Title:	Queen St. Culvert Replacement	Project Stage:	Committee of Council Review
Asset Type:	Asset Improvement and Maintenance (General)	Strategic Plans:	Infrastructure / Sustainability
Division:	Capital - Infrastructure & Operations	Project Type:	
Budget Year:	2021	Active:	Yes

Description	Comments
The existing culvert is at the end of its useful life and needs to be replaced. Engineering services will include survey, design, contract drawings, specifications, tendering, construction inspection, contract administration, and project management.	The existing culvert is made of corrugated steel and will be replaced with a plastic or concrete culvert.

Scenario Description	Scenario Comments

Forecast	Project Detailed 2021																
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2024	600,000	600,000	0														
	600,000	600,000	0														
LTD Amount: 0	Total Project Cost: 600,000																

Related Projects	Operating Impacts

Year Identified	Start Date	Useful Life	Manager	Completion Date
2021	Jan 1, 2024	75 Years	Reid Porter	Dec 31, 2024

Number:	4107RD	Scenario:	Main
Title:	Tower Dr. Hump Removal	Project Stage:	Committee of Council Review
Asset Type:	Asset Improvement and Maintenance (General)	Strategic Plans:	Infrastructure / Sustainability, Maintenance
Division:	Capital - Infrastructure & Operations	Project Type:	
Budget Year:	2021	Active:	Yes

Description	Comments
<p>The project involves the engineering and construction to reduce the vertical crest on Tower Drive to the east of the intersection with Welkin Grove.</p> <p>Engineering services will include survey, design, contract drawings, specifications, tendering, construction inspection, contract administration, and project management.</p>	<p>The road profile on Tower Drive to the east of Welkin Grove requires improved sightlines and will be lowered in accordance with current design standards.</p>

Scenario Description	Scenario Comments

Forecast	Project Detailed 2021																
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Budget Year	Total Expense	Total Revenue	Difference														
2024	500,000	500,000	0														
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Related Projects	Operating Impacts

Year Identified	Start Date	Useful Life	Manager	Completion Date
2021	Jan 1, 2024	25 Years	Reid Porter	Dec 31, 2024

Number:	4108WS	Scenario:	Main
Title:	Unidirectional Flushing Update	Project Stage:	Committee of Council Review
Asset Type:	Asset Improvement and Maintenance (Water and Wastewater)	Strategic Plans:	Master Plans
Division:	Capital - Water	Project Type:	
Budget Year:	2021	Active:	Yes

Description	Comments
This project is for upgrading the unidirectional flushing plan utilized by staff annually which is outdated and non-representative of many areas of the City's water distribution system.	Annually the City completes unidirectional flushing of our water distribution system. The flushing helps remove debris and extends the lifecycle of our water system and is done in a specific sequence which is outlined in a plan. The existing plan was developed in 2004 and much of the water distribution system has changed since that time making the existing plan and sequence outdated. The funds from this project will be used to hire a consultant to develop a new plan which will incorporate the multiple upgrades to the distribution system.

Scenario Description	Scenario Comments

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Related Projects	Operating Impacts

Year Identified	Start Date	Useful Life	Manager	Completion Date
2021	Jan 1, 2021	TBD	Domenic Schiavone	Dec 31, 2021

Number:	4109RD	Scenario:	Main
Title:	Trout Lake Rd. & Laurentian Ave. Intersection Reconstruction	Project Stage:	Committee of Council Review
Asset Type:	Asset Improvement and Maintenance (General)	Strategic Plans:	Growth / Economic Development,...
Division:	Capital - Infrastructure & Operations	Project Type:	
Budget Year:	2021	Active:	Yes

Description	Comments
The project involves the engineering and construction to align the side street approaches. Engineering services will include survey, design, contract drawings, specifications, tendering, construction inspection, contract administration, and project management.	Trout Lake Road is an arterial road with Laurentian Ave. as a side street. The two Laurentian Ave. approaches are offset from each other by approximately 30 metres, creating a non-standard intersection and traffic signal configuration. alignment of the side street approaches will improve driver expectation, safety, traffic signal operations. Land acquisition of an existing property on the north side of Trout Lake Road will be required.

Scenario Description	Scenario Comments

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2024	3,500,000	3,500,000	0														
	3,500,000	3,500,000	0														
LTD Amount: 0	Total Project Cost: 3,500,000																

Related Projects	Operating Impacts

Year Identified	Start Date	Useful Life	Manager	Completion Date
2021	Jan 1, 2024	25 Years	Reid Porter	Dec 31, 2024

Number:	4110SS	Scenario:	Main
Title:	WWTP Ferric Room Upgrades	Project Stage:	Committee of Council Review
Asset Type:	Asset Improvement and Maintenance (Water and Wastewater)	Strategic Plans:	Infrastructure / Sustainability, Maintenance
Division:	Capital - Sewer	Project Type:	
Budget Year:	2021	Active:	Yes

Description	Comments
This project provides for upgrades to the Ferric Chemical room at the Wastewater Treatment Plant which includes chemical pumps, piping, concrete repairs, chemical coatings on the floors.	The Wastewater Treatment Plant requires dosing of Ferric Sulphate as part of the treatment process of sewage. The chemical room that houses the ferric sulphate has deteriorated concrete and piping and requires upgrades.

Scenario Description	Scenario Comments

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Related Projects	Operating Impacts

Year Identified	Start Date	Useful Life	Manager	Completion Date
2021	Jan 1, 2021	TBD	Karin Pratte	Dec 31, 2021

Number:	4111WS	Scenario:	Main
Title:	WTP Solar Tank Replacement	Project Stage:	Committee of Council Review
Asset Type:	Asset Improvement and Maintenance (Water and Wastewater)	Strategic Plans:	Infrastructure / Sustainability,...
Division:	Capital - Water	Project Type:	
Budget Year:	2021	Active:	Yes

Description	Comments
This projects provides for the replacement of the buffer tank for the solar system at the Water Treatment Plant.	The solar system at the water plant provides hot water for the water treatment process and domestic uses. The buffer tank for the solar system at the Water Treatment Plant has corroded, is leaking, is out of service and requires replacement.

Scenario Description	Scenario Comments

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Related Projects	Operating Impacts

Year Identified	Start Date	Useful Life	Manager	Completion Date
2021	Jan 1, 2021	TBD	Karin Pratte	Dec 31, 2021

Number:	4112SS	Scenario:	Main
Title:	WWTP – Gas Compressor Replacement	Project Stage:	Committee of Council Review
Asset Type:	Asset Improvement and Maintenance (Water and Wastewater)	Strategic Plans:	Infrastructure / Sustainability,...
Division:	Capital - Sewer	Project Type:	
Budget Year:	2021	Active:	Yes

Description	Comments
This projects provides for the replacement of the gas compressor at the Wastewater Treatment Plant.	The Wastewater Treatment Pant has a digester gas system which feeds the boilers and heats the facility. The digester gas system includes gas compressors. The compressors are past their life expectancy and require replacement.

Scenario Description	Scenario Comments

Forecast	Project Detailed 2021																																								
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Related Projects	Operating Impacts

Year Identified	Start Date	Useful Life	Manager	Completion Date
2021	Jan 1, 2021	TBD	Karin Pratte	Dec 31, 2021

Number:	4113WS	Scenario:	Main
Title:	WTP - Brick Repairs	Project Stage:	Committee of Council Review
Asset Type:	Asset Improvement and Maintenance (Water and Wastewater)	Strategic Plans:	Infrastructure / Sustainability, Maintenance
Division:	Capital - Water	Project Type:	
Budget Year:	2021	Active:	Yes

Description	Comments
This projects provides for brick replacement at Stairway #2 at the Water Treatment Plant.	The Water Treatment Plant has bricks which are loose on the outdoor of the largest stairwell (Stairwell #2) and require replacement.

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Year Identified	Start Date	Useful Life	Manager	Completion Date
2021	Jan 1, 2021	TBD	Karin Pratte	Dec 31, 2021

Number:	4114GD	Scenario:	Main
Title:	Merrick Landfill – Storm Water Management Pond	Project Stage:	Committee of Council Review
Asset Type:	Growth (General)	Strategic Plans:	Infrastructure / Sustainability, Environmental
Division:	Capital - Infrastructure & Operations	Project Type:	
Budget Year:	2021	Active:	Yes

Description	Comments
This project provides for the installation of the storm water management pond at the Merrick Landfill Site.	This project provides for a new storm water management pond which is a requirement for the on-site storm water management plant now that Cell 8 of the landfill is accepting refuse.

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Related Projects	Operating Impacts

Year Identified	Start Date	Useful Life	Manager	Completion Date
2021	Jan 1, 2021	TBD	Karin Pratte	Dec 31, 2021

Number:	4115PK	Scenario:	Main
Title:	Innovation Hub	Project Stage:	Committee of Council Review
Asset Type:	Growth (General)	Strategic Plans:	Growth / Economic Development
Division:	Capital - Infrastructure & Operations	Project Type:	
Budget Year:	2021	Active:	Yes

Description	Comments
This project provides for the engineering design to support the Innovation Hub on Wyld Street. It will include the design of the new road, water, sewer, storm water management and the existing parking lot.	The Innovation Hub concept is supported through the Downtown Waterfront Master Plan. Related projects include 4115RD/ST/SS/WS and 4122PR.

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2021	Jan 1, 2021	TBD	Beverley Hillier	Dec 31, 2023

Number:	4115RD	Scenario:	Main
Title:	Innovation Hub	Project Stage:	Committee of Council Review
Asset Type:	Growth (General)	Strategic Plans:	Growth / Economic Development
Division:	Capital - Infrastructure & Operations	Project Type:	
Budget Year:	2021	Active:	Yes

Description	Comments
This project provides for the engineering design to support the Innovation Hub on Wyld Street. It will include the design of the new road, water, sewer, storm water management and the existing parking lot.	The Innovation Hub concept is supported through the Downtown Waterfront Master Plan. Related projects include 4115PK/ST/SS/WS and 4122PR.

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Related Projects	Operating Impacts

Year Identified	Start Date	Useful Life	Manager	Completion Date
2021	Jan 1, 2021	TBD	Beverley Hillier	Dec 31, 2023

Number:	4115SS	Scenario:	4115
Title:	Innovation Hub	Project Stage:	Committee of Council Review
Asset Type:	Growth (Water and Wastewater)	Strategic Plans:	Growth / Economic Development
Division:	Capital - Sewer	Project Type:	
Budget Year:	2021	Active:	Yes

Description	Comments
This project provides for the engineering design to support the Innovation Hub on Wyld Street. It will include the design of the new road, water, sewer, storm water management and the existing parking lot.	The Innovation Hub concept is supported through the Downtown Waterfront Master Plan. Related projects include 4115PK/RD/ST/WS and 4122PR.

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2021	Jan 1, 2021	TBD	Beverley Hillier	Dec 31, 2023

Number:	4115ST	Scenario:	Main
Title:	Innovation Hub	Project Stage:	Committee of Council Review
Asset Type:	Growth (General)	Strategic Plans:	Growth / Economic Development
Division:	Capital - Infrastructure & Operations	Project Type:	
Budget Year:	2021	Active:	Yes

Description	Comments
This project provides for the engineering design to support the Innovation Hub on Wyld Street. It will include the design of the new road, water, sewer, storm water management and the existing parking lot.	The Innovation Hub concept is supported through the Downtown Waterfront Master Plan. Related projects include 4115PK/RD/SS/WS and 4122PR.

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Year Identified	Start Date	Useful Life	Manager	Completion Date
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Number:	4115WS	Scenario:	Main
Title:	Innovation Hub	Project Stage:	Committee of Council Review
Asset Type:	Growth (Water and Wastewater)	Strategic Plans:	Growth / Economic Development
Division:	Capital - Water	Project Type:	
Budget Year:	2021	Active:	Yes

Description	Comments
This project provides for the engineering design to support the Innovation Hub on Wyld Street. It will include the design of the new road, water, sewer, storm water management and the existing parking lot.	The Innovation Hub concept is supported through the Downtown Waterfront Master Plan. Related projects include 4115PK/RD/ST/SS and 4122PR.

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GL Account	Description	Total Amount																																											
Expense																																													
3117	DESIGN FEES	19,600																																											
7010	ADMINISTRATON & OVERHEAD	400																																											
Total Expense:		20,000																																											
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0461	TSF FRM REV FUND-PAYGO	20,000																																											
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Related Projects	Operating Impacts

Year Identified	Start Date	Useful Life	Manager	Completion Date
2021	Jan 1, 2021	TBD	Beverley Hillier	Dec 31, 2023

Number:	4116WS	Scenario:	Main
Title:	Judge St. Watermain Upsizing	Project Stage:	Committee of Council Review
Asset Type:	Growth (Water and Wastewater)	Strategic Plans:	Growth / Economic Development,...
Division:	Capital - Water	Project Type:	
Budget Year:	2021	Active:	Yes

Description	Comments
This project will replace the existing watermain on Judge Ave. that is beyond its life cycle and, through upsizing, provide a second water feed to West Ferris.	West Ferris is fed through a single large diameter watermain that in recent years has sustained multiple breaks. When a break occurs all of the West Ferris area is at risk of losing water supply because there is not a large enough second feed to supply water for a sustained period. This project will replace a small diameter watermain on Judge Ave. with a large diameter watermain and provide a second feed to West Ferris.

Scenario Description	Scenario Comments

Forecast	Project Detailed 2021																																								
<table border="1"> <thead> <tr> <th>Budget Year</th> <th>Total Expense</th> <th>Total Revenue</th> <th>Difference</th> </tr> </thead> <tbody> <tr> <td>2021</td> <td>797,000</td> <td>797,000</td> <td>0</td> </tr> <tr> <td></td> <td>797,000</td> <td>797,000</td> <td>0</td> </tr> <tr> <td>LTD Amount: 0</td> <td colspan="3">Total Project Cost: 797,000</td> </tr> </tbody> </table>	Budget Year	Total Expense	Total Revenue	Difference	2021	797,000	797,000	0		797,000	797,000	0	LTD Amount: 0	Total Project Cost: 797,000			<table border="1"> <thead> <tr> <th>GL Account</th> <th>Description</th> <th>Total Amount</th> </tr> </thead> <tbody> <tr> <td colspan="3">Expense</td> </tr> <tr> <td>3425</td> <td>CONSTRUCTION CONTRACT</td> <td>781,060</td> </tr> <tr> <td>7010</td> <td>ADMINISTRATON & OVERHEAD</td> <td>15,940</td> </tr> <tr> <td></td> <td>Total Expense:</td> <td>797,000</td> </tr> <tr> <td colspan="3">Revenue</td> </tr> <tr> <td>0461</td> <td>TSF FRM REV FUND-PAYGO</td> <td>797,000</td> </tr> <tr> <td></td> <td>Total Revenue:</td> <td>797,000</td> </tr> </tbody> </table>	GL Account	Description	Total Amount	Expense			3425	CONSTRUCTION CONTRACT	781,060	7010	ADMINISTRATON & OVERHEAD	15,940		Total Expense:	797,000	Revenue			0461	TSF FRM REV FUND-PAYGO	797,000		Total Revenue:	797,000
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Related Projects	Operating Impacts

Year Identified	Start Date	Useful Life	Manager	Completion Date
2021	Jan 1, 2021	TBD	Domenic Schiavone	Dec 31, 2021

Number:	4117RD	Scenario:	Main
Title:	West Peninsula Rd. and Viceroy Rd. Rehab	Project Stage:	Committee of Council Review
Asset Type:	Asset Improvement and Maintenance (General)	Strategic Plans:	Infrastructure / Sustainability, Maintenance
Division:	Capital - Infrastructure & Operations	Project Type:	
Budget Year:	2021	Active:	Yes

Description	Comments
This project is for the base repair and re-surfacing of both West Peninsula and Viceroy Roads.	West Peninsula Road and Viceroy Road are rural residential roadways that connect to Peninsula Road. Both roadways are experiencing multiple failures to the road surface, road base, and culverts that require on going repair and maintenance by staff. The funds from this project will be used to complete road base repairs, culvert replacement, ditching, and paving of West Peninsula (2.4km) and Viceroy (1.7km).

Scenario Description	Scenario Comments

Forecast	Project Detailed 2021																																											
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Related Projects	Operating Impacts

Year Identified	Start Date	Useful Life	Manager	Completion Date
2021	Jan 1, 2021	TBD	Domenic Schiavone	Dec 31, 2021

Number:	4118SS	Scenario:	Main
Title:	King's Landing Pumping Station Replacement	Project Stage:	Committee of Council Review
Asset Type:	Asset Improvement and Maintenance (Water and Wastewater)	Strategic Plans:	Infrastructure / Sustainability
Division:	Capital - Sewer	Project Type:	
Budget Year:	2021	Active:	Yes

Description	Comments
<p>The existing sanitary pumping station is located at the corner of Memorial Drive and the King's Landing access road. The pumping station is nearing the end of its useful life and requires replacement.</p> <p>Engineering services will include survey, design, contract drawings, specifications, tendering, construction inspection, contract administration, and project management.</p>	In addition to existing facilities draining to the pumping station, it would serve City Lands on the old Kenroc site.

Scenario Description	Scenario Comments

Forecast	Project Detailed 2021																																												
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Related Projects	Operating Impacts

Year Identified	Start Date	Useful Life	Manager	Completion Date
2021	Jan 1, 2021	50 Years	Adam Lacombe	Jan 1, 2023

Number:	4119RF	Scenario:	Main
Title:	Arenas - Memorial Gardens East and West Concourse Roof Replacement	Project Stage:	Committee of Council Review
Asset Type:	Asset Improvement and Maintenance (General)	Strategic Plans:	Infrastructure / Sustainability, Maintenance
Division:	Capital - Community Services	Project Type:	
Budget Year:	2021	Active:	Yes

Description		Comments	
This project provides for the replacement of the roof over the west concourse and the east concourse/change rooms. Approximately 20,000sqft, the scope includes full replacement of the roof system less decking (membrane, insulation, coverboard and removal of existing).		The roof identified in this project will be reaching the end of its expected service life in 2029. In 2028, a detailed assessment will be conducted to confirm the proper scope of work followed by a detailed design for the replacement. In 2029, construction work will be tendered and completed.	

Scenario Description		Scenario Comments	

Forecast		Project Detailed 2021	
Budget Year	Total Expense	Total Revenue	Difference
2028	25,500	25,500	0
2029	510,000	510,000	0
	535,500	535,500	0
LTD Amount: 0	Total Project Cost: 535,500		

Related Projects		Operating Impacts	

Year Identified	Start Date	Useful Life	Manager	Completion Date
2021	Jan 1, 2028	20 years	David Jackowski	Dec 31, 2029

Number:	4120PZ	Scenario:	Main
Title:	Electronic Building Permit Application Submission Program	Project Stage:	Committee of Council Review
Asset Type:	Growth (General)	Strategic Plans:	Technology
Division:	Capital - Community Services	Project Type:	
Budget Year:	2021	Active:	Yes

Description	Comments
This project provides for the purchase and licensing of an electronic building permit application submission program.	Building services has experienced an increased desire for sustained online building permit application submission as a result of the COVID-19 pandemic. The current process in place is not sustainable and results in more staff time associated with printing, scanning and copying digital files received. A properly designed program should also result in efficiencies for staff and the development industry (online inspection requests, electronic inspections notes, etc.). In addition, physical storage within City Hall is becoming a larger challenge due to the large size and number of paper copies of drawings that are received as part of the building permit application process. Project would include: - hardware purchase & upgrade for building staff - 1st year licensing fees

Scenario Description	Scenario Comments

Forecast	Project Detailed 2021																
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Budget Year	Total Expense	Total Revenue	Difference														
2022	150,000	150,000	0														
	150,000	150,000	0														
LTD Amount: 0	Total Project Cost: 150,000																

Related Projects	Operating Impacts

Year Identified	Start Date	Useful Life	Manager	Completion Date
2021	Jan 1, 2022		Beverley Hillier	Dec 31, 2022

Number:	4121RD	Scenario:	Main
Title:	Lamorie St. Bridge Rehab	Project Stage:	Committee of Council Review
Asset Type:	Asset Improvement and Maintenance (General)	Strategic Plans:	Infrastructure / Sustainability, Maintenance
Division:	Capital - Infrastructure & Operations	Project Type:	
Budget Year:	2021	Active:	Yes

Description	Comments
This project consists of rehabilitation to the Lamorie St. bridge to extend its useful life. Engineering services will include survey, design, contract drawings, specifications, tendering, construction inspection, contract administration, and project management.	The Lamorie St. bridge is one of the City's largest bridge structures. A condition assessment was undertaken in 2019/2020 and provided rehabilitation recommendations for the near-term and future.

Scenario Description	Scenario Comments

Forecast	Project Detailed 2021																																												
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Related Projects	Operating Impacts

Year Identified	Start Date	Useful Life	Manager	Completion Date
2021	Jan 1, 2021	15 Years	Reid Porter	Dec 31, 2023

Number:	4122PR	Scenario:	Main
Title:	Omischl Park Feasibility - Volleyball Courts Relocation	Project Stage:	Committee of Council Review
Asset Type:	Strategic Investment (General)	Strategic Plans:	Growth / Economic Development, Master Plans
Division:	Capital - Community Services	Project Type:	
Budget Year:	2021	Active:	Yes

Description	Comments
This project provides for studies to determine the feasibility of relocating the volleyball courts and/or the sport field construction at Omischl Park.	Engineering review to determine feasibility of topography and soil conditions for development of volleyball courts and/or sport field construction. The relocation of the volleyball courts will facilitate the development of the Innovation Hub as envisioned in the Downtown Waterfront Master Plan. Related projects include 4115PK/RD/ST/SS/WS.

Scenario Description	Scenario Comments

Forecast	Project Detailed 2021																																								
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Related Projects	Operating Impacts

Year Identified	Start Date	Useful Life	Manager	Completion Date
2021	Jan 1, 2021	N/A	Beverley Hillier	Dec 31, 2022

Number:	4123PR	Scenario:	Main
Title:	Active Transportation Projects	Project Stage:	Committee of Council Review
Asset Type:	Strategic Investment (General)	Strategic Plans:	Growth / Economic Development,...
Division:	Capital - Community Services	Project Type:	
Budget Year:	2021	Active:	Yes

Description	Comments
This project provides for the continuation of the Street Sharrows initiative to include Laurier Avenue, Jane Street, Ski Club Road and Gertrude Street.	In the fall of 2020 Street Sharrows were placed on Front Street, Ferguson Street and Marshall Avenue East. In 2021, Laurier Avenue, Jane Street, Ski Club Road and Gertrude Street are scheduled to be done.

Scenario Description	Scenario Comments

Forecast	Project Detailed 2021																																								
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Related Projects	Operating Impacts

Year Identified	Start Date	Useful Life	Manager	Completion Date
2021	Jan 1, 2021	TBD	Paula McCloskey	Dec 31, 2021

Number:	4124RD	Scenario:	Main
Title:	Francis St. Sewer Upsizing (Surrey to Greenhill)	Project Stage:	Committee of Council Review
Asset Type:	Growth (General)	Strategic Plans:	Growth / Economic Development,...
Division:	Capital - Infrastructure & Operations	Project Type:	
Budget Year:	2021	Active:	Yes

Description	Comments
<p>The project consists of upsizing the existing sanitary sewer on Francis Street and restoration of the roadway.</p> <p>Engineering services will include flow monitoring, condition inspection, preliminary design, detailed design, agency approvals, contract drawings, specifications, tendering and construction.</p>	<p>Due to future development of Airport Hill and the Aerospace Business Park, it has been identified that the existing sanitary sewer on Francis Street from Surrey Drive to Greenhill Avenue and on Greenhill Avenue from Francis Street to Tower Drive is undersized. Upsizing of the sanitary sewer is therefore required. Storm sewers, curbs and gutters will be contemplated in the future to bring this roadway up to an urban residential standard. The watermain condition will also be evaluated to determine if it needs to be replaced.</p> <p>Related projects include: 4124ST/SS/WS</p>

Scenario Description	Scenario Comments

Forecast	Project Detailed 2021																				
<table border="1"> <thead> <tr> <th>Budget Year</th> <th>Total Expense</th> <th>Total Revenue</th> <th>Difference</th> </tr> </thead> <tbody> <tr> <td>2026</td> <td>110,000</td> <td>110,000</td> <td>0</td> </tr> <tr> <td>2029</td> <td>2,100,000</td> <td>2,100,000</td> <td>0</td> </tr> <tr> <td></td> <td>2,210,000</td> <td>2,210,000</td> <td>0</td> </tr> <tr> <td colspan="2">LTD Amount: 0</td> <td colspan="2">Total Project Cost: 2,210,000</td> </tr> </tbody> </table>	Budget Year	Total Expense	Total Revenue	Difference	2026	110,000	110,000	0	2029	2,100,000	2,100,000	0		2,210,000	2,210,000	0	LTD Amount: 0		Total Project Cost: 2,210,000		
Budget Year	Total Expense	Total Revenue	Difference																		
2026	110,000	110,000	0																		
2029	2,100,000	2,100,000	0																		
	2,210,000	2,210,000	0																		
LTD Amount: 0		Total Project Cost: 2,210,000																			

Related Projects	Operating Impacts

Year Identified	Start Date	Useful Life	Manager	Completion Date
2012	Jan 1, 2026	25 Years	Gerry McCrank	Dec 31, 2029

Number:	4124SS	Scenario:	Main
Title:	Francis St. Sewer Upsizing (Surrey to Greenhill)	Project Stage:	Committee of Council Review
Asset Type:	Growth (Water and Wastewater)	Strategic Plans:	Growth / Economic Development,...
Division:	Capital - Sewer	Project Type:	
Budget Year:	2021	Active:	Yes

Description	Comments
<p>The project consists of upsizing the existing sanitary sewer on Francis Street and restoration of the roadway.</p> <p>Engineering services will include flow monitoring, condition inspection, preliminary design, detailed design, agency approvals, contract drawings, specifications, tendering and construction.</p>	<p>Due to future development of Airport Hill and the Aerospace Business Park, it has been identified that the existing sanitary sewer on Francis Street from Surrey Drive to Greenhill Avenue and on Greenhill Avenue from Francis Street to Tower Drive is undersized. Upsizing of the sanitary sewer is therefore required. Storm sewers, curbs and gutters will be contemplated in the future to bring this roadway up to an urban residential standard. The watermain condition will also be evaluated to determine if it needs to be replaced.</p> <p>Related projects include: 4124RD/ST/WS</p>

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Budget Year	Total Expense	Total Revenue	Difference														
2026	80,000	80,000	0														
2029	1,500,000	1,500,000	0														
	1,580,000	1,580,000	0														

Related Projects	Operating Impacts

Year Identified	Start Date	Useful Life	Manager	Completion Date
2012	Jan 1, 2026	75 Years	Gerry McCrank	Dec 31, 2029

Number:	4124ST	Scenario:	Main
Title:	Francis St. Sewer Upsizing (Surrey to Greenhill)	Project Stage:	Committee of Council Review
Asset Type:	Growth (General)	Strategic Plans:	Growth / Economic Development,...
Division:	Capital - Infrastructure & Operations	Project Type:	
Budget Year:	2021	Active:	Yes

Description	Comments
<p>The project consists of upsizing the existing sanitary sewer on Francis Street and restoration of the roadway.</p> <p>Engineering services will include flow monitoring, condition inspection, preliminary design, detailed design, agency approvals, contract drawings, specifications, tendering and construction.</p>	<p>Due to future development of Airport Hill and the Aerospace Business Park, it has been identified that the existing sanitary sewer on Francis Street from Surrey Drive to Greenhill Avenue and on Greenhill Avenue from Francis Street to Tower Drive is undersized. Upsizing of the sanitary sewer is therefore required. Storm sewers, curbs and gutters will be contemplated in the future to bring this roadway up to an urban residential standard. The watermain condition will also be evaluated to determine if it needs to be replaced.</p> <p>Related projects include: 4124RD/SS/WS.</p>

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Budget Year	Total Expense	Total Revenue	Difference														
2026	70,000	70,000	0														
2029	1,300,000	1,300,000	0														
	1,370,000	1,370,000	0														

Related Projects	Operating Impacts

Year Identified	Start Date	Useful Life	Manager	Completion Date
2012	Jan 1, 2026	75 Years	Gerry McCrank	Dec 31, 2029

Number:	4124WS	Scenario:	Main
Title:	Francis St. Sewer Upsizing (Surrey to Greenhill)	Project Stage:	Committee of Council Review
Asset Type:	Growth (Water and Wastewater)	Strategic Plans:	Growth / Economic Development,...
Division:	Capital - Water	Project Type:	
Budget Year:	2021	Active:	Yes

Description	Comments
<p>The project consists of upsizing the existing sanitary sewer on Francis Street and restoration of the roadway.</p> <p>Engineering services will include flow monitoring, condition inspection, preliminary design, detailed design, agency approvals, contract drawings, specifications, tendering and construction.</p>	<p>Due to future development of Airport Hill and the Aerospace Business Park, it has been identified that the existing sanitary sewer on Francis Street from Surrey Drive to Greenhill Avenue and on Greenhill Avenue from Francis Street to Tower Drive is undersized. Upsizing of the sanitary sewer is therefore required. Storm sewers, curbs and gutters will be contemplated in the future to bring this roadway up to an urban residential standard. The watermain condition will also be evaluated to determine if it needs to be replaced.</p> <p>Related projects include: 4124RD/ST/SS</p>

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Budget Year	Total Expense	Total Revenue	Difference														
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Related Projects	Operating Impacts

Year Identified	Start Date	Useful Life	Manager	Completion Date
2012	Jan 1, 2026	75 Years	Gerry McCrank	Dec 31, 2029

Number:	4125RD	Scenario:	Main
Title:	Lakeshore Dr. Area - Trunk Watermain and Sewer - Phase 1 - Judge to Gertrude	Project Stage:	Committee of Council Review
Asset Type:	Asset Improvement and Maintenance (General)	Strategic Plans:	Growth / Economic Development,...
Division:	Capital - Infrastructure & Operations	Project Type:	
Budget Year:	2021	Active:	Yes

Description	Comments
<p>The project involves the engineering and construction services for upgrading the existing 100 mm distribution watermain, adding a new 400 mm transmission watermain, and adding a new 500 mm forcemain to twin the existing Marshall sanitary pumping station forcemain. An Environmental Assessment will also be conducted to look at upgrading the road to a five lane configuration.</p>	<p>Watermain service along the entire Lakeshore Drive corridor is severely undersized and a new trunk watermain is required to provide adequate water supply. This work was first identified in 1977 and was targeted for construction at the time of reconstruction needs of the road surface to maximize the value of the road asset.</p> <p>In 2003, efforts for the watermain construction commenced; however, the project was postponed due to funding constraints. Since then, the road surface has been rehabilitated through the resurfacing program to extend the life of the existing pavement.</p> <p>The need was more recently confirmed again in the 2008 Infrastructure Background Study that was prepared in support of the Official Plan update. Installation of a trunk watermain from Judge Avenue to Sunset Boulevard will be carried out over three phases - Phase 1 will include Judge Avenue to Gertrude Street, Phase 2 will include Gertrude Street to Marshall Avenue and Phase 3 will include Marshall Avenue to Sunset Blvd. The watermain portion of Phase 3 is currently being constructed in stages by the Public Works Department.</p> <p>The Marshall sanitary pumping station currently has no outlet in proximity to the station to relieve flow in the event of an emergency at the pumping station or a downstream break on the forcemain. During these emergency situations, sewage flows may back up into upstream buildings. A new forcemain to twin the existing forcemain will provide redundancy in the system to mitigate the risks of these emergency situations.</p> <p>Related projects include 4125ST/SS/WS, Phase 2 - 3802RD/ST/SS/WS</p>

Scenario Description	Scenario Comments

Forecast	Project Detailed 2021																								
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Budget Year	Total Expense	Total Revenue	Difference																						
2023	620,000	620,000	0																						
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Related Projects	Operating Impacts

Year Identified	Start Date	Useful Life	Manager	Completion Date
2011	Jan 1, 2023	25 Years	Gerry McCrank	Dec 31, 2028

Number:	4125SS	Scenario:	Main
Title:	Lakeshore Dr. Area - Trunk Watermain and Sewer - Phase 1 - Judge to Gertrude	Project Stage:	Committee of Council Review
Asset Type:	Asset Improvement and Maintenance (Water and Wastewater)	Strategic Plans:	Growth / Economic Development,...
Division:	Capital - Sewer	Project Type:	
Budget Year:	2021	Active:	Yes

Description	Comments
<p>The project involves the engineering and construction services for upgrading the existing 100 mm distribution watermain, adding a new 400 mm transmission watermain, and adding a new 500 mm forcemain to twin the existing Marshall sanitary pumping station forcemain. An Environmental Assessment will also be conducted to look at upgrading the road to a five lane configuration.</p>	<p>Watermain service along the entire Lakeshore Drive corridor is severely undersized and a new trunk watermain is required to provide adequate water supply. This work was first identified in 1977 and was targeted for construction at the time of reconstruction needs of the road surface to maximize the value of the road asset.</p> <p>In 2003, efforts for the watermain construction commenced; however, the project was postponed due to funding constraints. Since then, the road surface has been rehabilitated through the resurfacing program to extend the life of the existing pavement.</p> <p>The need was more recently confirmed again in the 2008 Infrastructure Background Study that was prepared in support of the Official Plan update. Installation of a trunk watermain from Judge Avenue to Sunset Boulevard will be carried out over three phases - Phase 1 will include Judge Avenue to Gertrude Street, Phase 2 will include Gertrude Street to Marshall Avenue and Phase 3 will include Marshall Avenue to Sunset Blvd. The watermain portion of Phase 3 is currently being constructed in stages by the Public Works Department.</p> <p>The Marshall sanitary pumping station currently has no outlet in proximity to the station to relieve flow in the event of an emergency at the pumping station or a downstream break on the forcemain. During these emergency situations, sewage flows may back up into upstream buildings. A new forcemain to twin the existing forcemain will provide redundancy in the system to mitigate the risks of these emergency situations.</p> <p>Related projects include 4125RD/ST/WS, Phase 2 - 3802RD/ST/SS/WS</p>

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Related Projects	Operating Impacts

Year Identified	Start Date	Useful Life	Manager	Completion Date
2011	Jan 1, 2023	75 Years	Gerry McCrank	Dec 31, 2028

Number:	4125ST	Scenario:	Main
Title:	Lakeshore Dr. Area - Trunk Watermain and Sewer - Phase 1 - Judge to Gertrude	Project Stage:	Committee of Council Review
Asset Type:	Asset Improvement and Maintenance (General)	Strategic Plans:	Growth / Economic Development,...
Division:	Capital - Infrastructure & Operations	Project Type:	
Budget Year:	2021	Active:	Yes

Description	Comments
<p>The project involves the engineering and construction services for upgrading the existing 100 mm distribution watermain, adding a new 400 mm transmission watermain, and adding a new 500 mm forcemain to twin the existing Marshall sanitary pumping station forcemain. An Environmental Assessment will also be conducted to look at upgrading the road to a five lane configuration.</p>	<p>Watermain service along the entire Lakeshore Drive corridor is severely undersized and a new trunk watermain is required to provide adequate water supply. This work was first identified in 1977 and was targeted for construction at the time of reconstruction needs of the road surface to maximize the value of the road asset.</p> <p>In 2003, efforts for the watermain construction commenced; however, the project was postponed due to funding constraints. Since then, the road surface has been rehabilitated through the resurfacing program to extend the life of the existing pavement.</p> <p>The need was more recently confirmed again in the 2008 Infrastructure Background Study that was prepared in support of the Official Plan update. Installation of a trunk watermain from Judge Avenue to Sunset Boulevard will be carried out over three phases - Phase 1 will include Judge Avenue to Gertrude Street, Phase 2 will include Gertrude Street to Marshall Avenue and Phase 3 will include Marshall Avenue to Sunset Blvd. The watermain portion of Phase 3 is currently being constructed in stages by the Public Works Department.</p> <p>The Marshall sanitary pumping station currently has no outlet in proximity to the station to relieve flow in the event of an emergency at the pumping station or a downstream break on the forcemain. During these emergency situations, sewage flows may back up into upstream buildings. A new forcemain to twin the existing forcemain will provide redundancy in the system to mitigate the risks of these emergency situations.</p> <p>Related projects include 4125RD/SS/WS, Phase 2 - 3802RD/ST/SS/WS</p>

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LTD Amount: 0		Total Project Cost: 1,640,000																							

Related Projects	Operating Impacts

Year Identified	Start Date	Useful Life	Manager	Completion Date
2011	Jan 1, 2023	75 Years	Gerry McCrank	Dec 31, 2028

Number:	4125WS	Scenario:	Main
Title:	Lakeshore Dr. Area - Trunk Watermain and Sewer - Phase 1 - Judge to Gertrude	Project Stage:	Committee of Council Review
Asset Type:	Asset Improvement and Maintenance (Water and Wastewater)	Strategic Plans:	Growth / Economic Development,...
Division:	Capital - Water	Project Type:	
Budget Year:	2021	Active:	Yes

Description	Comments
<p>The project involves the engineering and construction services for upgrading the existing 100 mm distribution watermain, adding a new 400 mm transmission watermain, and adding a new 500 mm forcemain to twin the existing Marshall sanitary pumping station forcemain. An Environmental Assessment will also be conducted to look at upgrading the road to a five lane configuration.</p>	<p>Watermain service along the entire Lakeshore Drive corridor is severely undersized and a new trunk watermain is required to provide adequate water supply. This work was first identified in 1977 and was targeted for construction at the time of reconstruction needs of the road surface to maximize the value of the road asset.</p> <p>In 2003, efforts for the watermain construction commenced; however, the project was postponed due to funding constraints. Since then, the road surface has been rehabilitated through the resurfacing program to extend the life of the existing pavement.</p> <p>The need was more recently confirmed again in the 2008 Infrastructure Background Study that was prepared in support of the Official Plan update. Installation of a trunk watermain from Judge Avenue to Sunset Boulevard will be carried out over three phases - Phase 1 will include Judge Avenue to Gertrude Street, Phase 2 will include Gertrude Street to Marshall Avenue and Phase 3 will include Marshall Avenue to Sunset Blvd. The watermain portion of Phase 3 is currently being constructed in stages by the Public Works Department.</p> <p>The Marshall sanitary pumping station currently has no outlet in proximity to the station to relieve flow in the event of an emergency at the pumping station or a downstream break on the forcemain. During these emergency situations, sewage flows may back up into upstream buildings. A new forcemain to twin the existing forcemain will provide redundancy in the system to mitigate the risks of these emergency situations.</p> <p>Related projects include 4125RD/ST/SS, Phase 2 - 3802RD/ST/SS/WS</p>

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LTD Amount: 0		Total Project Cost: 3,320,000																							

Related Projects	Operating Impacts

Year Identified	Start Date	Useful Life	Manager	Completion Date
2011	Jan 1, 2023	75 Years	Gerry McCrank	Dec 31, 2028

Number:	4201PK	Scenario:	Main
Title:	Downtown Parking Facilities	Project Stage:	Committee of Council Review
Asset Type:	Strategic Investment (General)	Strategic Plans:	Growth / Economic Development,...
Division:	Capital - Infrastructure & Operations	Project Type:	
Budget Year:	2021	Active:	Yes

Description	Comments
This project is to provide funds for the construction of a parking structure to meet the needs for parking spaces in the downtown.	<p>The downtown development potential is limited if steps are not taken to provide additional parking spaces. Project specifics on location and types of parking facilities have not been developed. Budget assumes 150 parking spaces in the new structure.</p> <p>This project is related to 3405PK as potential locations may be acquired for construction.</p> <p>Detailed needs would be supported by the Parking Strategy Study that would include Occupancy and Inventory levels.</p> <p>Related projects include 3405PK.</p>

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2029	5,250,000	5,250,000	0																		
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LTD Amount: 0		Total Project Cost: 5,750,000																			

Related Projects	Operating Impacts

Year Identified	Start Date	Useful Life	Manager	Completion Date
2015	Jan 1, 2028	TBD	Bruce Robertson	Dec 31, 2029

Number:	4202SS	Scenario:	Main
Title:	Infiltration Reduction/Flow Monitoring Program - Phase 3	Project Stage:	Committee of Council Review
Asset Type:	Strategic Investment (Water and Wastewater)	Strategic Plans:	Infrastructure / Sustainability
Division:	Capital - Sewer	Project Type:	
Budget Year:	2021	Active:	Yes

Description	Comments
<p>The project consists of trenchless rehabilitation of the City's sanitary sewer network intended to reduce the amount of ground water getting into the sanitary sewer system. The success of the initiative will be measured through a reduction of sewage flows at critical points in the network and at the City's Wastewater Treatment Plant.</p> <p>Engineering services will include investigations, flow monitoring, and condition inspections.</p>	<p>The reduction of "clean" groundwater in the sanitary sewer network is essential to maintaining normal flow volumes of sewage processed at the City's Wastewater Treatment Plant. The City's Wastewater Treatment Plant regularly operates near a maximum capacity after rainfalls due to the infiltration of clean groundwater through leaking sanitary sewer joints/cracks/holes and older manholes, as well as from illegal household sump pump connections from private property.</p> <p>The reduction of ground water from the sanitary sewage system is essential to reduce the environmental impact from bypassing operations. The reduction of ground water flows will reclaim the sewage plant capacity to intake additional flows from proposed development areas. The works will be undertaken over several years.</p> <p>Related projects include 6562RD/SS.</p> <p>Two stages of the project have been completed previously. The first stage focused on identifying leaking sewers and rehabilitating the pipes by grout filling the leaks. These leaking points also posed a sinkhole risk where material surrounding the pipe had migrated through the leak to the inside of the pipe leaving a void around the pipe. The grouting technique also fills these voids outside of the pipe and mitigates the risk of a sinkhole. The second stage focused on identifying illegal connections through the process of fog testing, whereby the sewer is filled with a fog type gas that migrates up service connections. If the fog does not outlet from house/building vent stack, it could be potentially exiting through an illegal connection to the inside of the house. The next stage will continue with techniques to identify illegal connections.</p>

Scenario Description	Scenario Comments

Forecast				Project Detailed 2021		
Budget Year	Total Expense	Total Revenue	Difference	GL Account	Description	Total Amount
2021	200,000	200,000	0	3425	CONSTRUCTION CONTRACT	196,000
	200,000	200,000	0	7010	ADMINISTRATON & OVERHEAD	4,000
					Total Expense:	200,000
					Revenue	
				0461	TSF FRM REV FUND-PAYGO	200,000
					Total Revenue:	200,000
LTD Amount: 0				Total Project Cost: 200,000		

Related Projects	Operating Impacts

Year Identified	Start Date	Useful Life	Manager	Completion Date
2013	Jan 1, 2021	10 to 20 Years	Adam Lacombe	Dec 31, 2022

Number:	4300RD	Scenario:	Main
Title:	Airport Industrial Park Expansion	Project Stage:	Committee of Council Review
Asset Type:	Growth (General)	Strategic Plans:	Growth / Economic Development
Division:	Capital - Infrastructure & Operations	Project Type:	
Budget Year:	2021	Active:	Yes

Description		Comments	
<p>The project involves the engineering and construction services to provide water and sanitary sewer services to the last phase of the Airport Industrial Park as well as servicing for Highway 11 North corridor.</p> <p>Engineering services will include survey, design, agency approvals, contract drawings, specifications, tendering, construction inspection, contract administration, and project management.</p>		<p>The first phase of the Airport Industrial Business Park included servicing to 120 acres of land. This project would be the second phase to extend services to additional lands at the northeast or northwest portion of the airport property. The timing of the project will be contingent on the buildout rate of Phase 1.</p> <p>Related projects include 4300SS/ST/WS.</p>	
Scenario Description		Scenario Comments	
Forecast		Project Detailed 2021	
Budget Year	Total Expense	Total Revenue	Difference
2026	590,000	590,000	0
2028	11,200,000	11,200,000	0
	11,790,000	11,790,000	0
LTD Amount: 0	Total Project Cost: 11,790,000		
Related Projects		Operating Impacts	
Year Identified	Start Date	Useful Life	Manager
2014	Jan 1, 2026	25 Years	Adam Lacombe
			Completion Date
			Dec 31, 2028

Number:	4300SS	Scenario:	Main
Title:	Airport Industrial Park Expansion	Project Stage:	Committee of Council Review
Asset Type:	Growth (Water and Wastewater)	Strategic Plans:	Growth / Economic Development
Division:	Capital - Sewer	Project Type:	
Budget Year:	2021	Active:	Yes

Description		Comments	
<p>The project involves the engineering and construction services to provide water and sanitary sewer services to the last phase of the Airport Industrial Park as well as servicing for Highway 11 North corridor.</p> <p>Engineering services will include survey, design, agency approvals, contract drawings, specifications, tendering, construction inspection, contract administration, and project management.</p>		<p>The first phase of the Airport Industrial Business Park included servicing to 120 acres of land. This project would be the second phase to extend services to additional lands at the northeast or northwest portion of the airport property. The timing of the project will be contingent on the buildout rate of Phase 1.</p> <p>Related projects include 4300RD/ST/WS.</p>	
Scenario Description		Scenario Comments	
Forecast		Project Detailed 2021	
Budget Year	Total Expense	Total Revenue	Difference
2026	150,000	150,000	0
2028	2,900,000	2,900,000	0
	3,050,000	3,050,000	0
LTD Amount: 0	Total Project Cost: 3,050,000		
Related Projects		Operating Impacts	
Year Identified	Start Date	Useful Life	Manager
2014	Jan 1, 2026	75 Years	Adam Lacombe
			Completion Date
			Dec 31, 2028

Number:	4300ST	Scenario:	Main
Title:	Airport Industrial Park Expansion	Project Stage:	Committee of Council Review
Asset Type:	Growth (General)	Strategic Plans:	Growth / Economic Development
Division:	Capital - Infrastructure & Operations	Project Type:	
Budget Year:	2021	Active:	Yes

Description		Comments	
<p>The project involves the engineering and construction services to provide water and sanitary sewer services to the last phase of the Airport Industrial Park as well as servicing for Highway 11 North corridor.</p> <p>Engineering services will include survey, design, agency approvals, contract drawings, specifications, tendering, construction inspection, contract administration, and project management.</p>		<p>The first phase of the Airport Industrial Business Park included servicing to 120 acres of land. This project would be the second phase to extend services to additional lands at the northeast or northwest portion of the airport property. The timing of the project will be contingent on the buildout rate of Phase 1.</p> <p>Related projects include 4300RD/SS/WS.</p>	
Scenario Description		Scenario Comments	
Forecast		Project Detailed 2021	
Budget Year	Total Expense	Total Revenue	Difference
2026	50,000	50,000	0
2028	800,000	800,000	0
	850,000	850,000	0
LTD Amount: 0		Total Project Cost: 850,000	
Related Projects		Operating Impacts	
Year Identified	Start Date	Useful Life	Manager
2021	Jan 1, 2026	75 Years	Adam Lacombe
			Completion Date
			Dec 31, 2028

Number:	4300WS	Scenario:	Main
Title:	Airport Industrial Park Expansion	Project Stage:	Committee of Council Review
Asset Type:	Growth (Water and Wastewater)	Strategic Plans:	Growth / Economic Development
Division:	Capital - Water	Project Type:	
Budget Year:	2021	Active:	Yes

Description		Comments	
<p>The project involves the engineering and construction services to provide water and sanitary sewer services to the last phase of the Airport Industrial Park as well as servicing for Highway 11 North corridor.</p> <p>Engineering services will include survey, design, agency approvals, contract drawings, specifications, tendering, construction inspection, contract administration, and project management.</p>		<p>The first phase of the Airport Industrial Business Park included servicing to 120 acres of land. This project would be the second phase to extend services to additional lands at the northeast or northwest portion of the airport property. The timing of the project will be contingent on the buildout rate of Phase 1.</p> <p>Related projects include 4300RD/SS/ST.</p>	
Scenario Description		Scenario Comments	
Forecast		Project Detailed 2021	
Budget Year	Total Expense	Total Revenue	Difference
2026	260,000	260,000	0
2028	4,800,000	4,800,000	0
	5,060,000	5,060,000	0
LTD Amount: 0	Total Project Cost: 5,060,000		
Related Projects		Operating Impacts	
Year Identified	Start Date	Useful Life	Manager
2014	Jan 1, 2026	75 Years	Adam Lacombe
			Completion Date
			Dec 31, 2028

Number:	4401RD	Scenario:	Main
Title:	Sage Rd. Reconstruction to Collector Standard	Project Stage:	Committee of Council Review
Asset Type:	Growth (General)	Strategic Plans:	Infrastructure / Sustainability
Division:	Capital - Infrastructure & Operations	Project Type:	
Budget Year:	2021	Active:	Yes

Description		Comments	
<p>The program involves the engineering and construction services for reconstruction of above-ground and underground infrastructure and to upgrade Sage Road to a proper collector standard.</p> <p>Engineering services will include an Environmental Assessment (EA), preliminary and detailed design, agency approvals, contract drawings, specifications, tendering and construction technical assistance.</p>		<p>Sage Road was originally constructed as a semi-urban collector (included ditches). The City Capital Works Program has targeted upgrading of the City's arterial roads as a primary objective. As most of the arterial routes have been addressed, the collector and bus routes are the secondary priority to be addressed.</p> <p>Sage Road is a primary collector route for the Birchaven area, and the upgrades will improve the roadway drainage (which will result in a pavement structure with a longer service life), and will also provide improved pedestrian facilities and safety (currently only a portion of the roadway has a separated sidewalk, while the balance has a paved shoulder sidewalk).</p> <p>The work will be constructed in one phase.</p> <p>Related projects include 4401SS/ST/WS.</p>	
Scenario Description		Scenario Comments	
Forecast		Project Detailed 2021	
Budget Year	Total Expense	Total Revenue	Difference
2028	250,000	250,000	0
	250,000	250,000	0
LTD Amount: 0		Total Project Cost: 250,000	
Related Projects		Operating Impacts	
Year Identified	Start Date	Useful Life	Manager
2014	Jan 1, 2028	25 Years	Adam Lacombe
			Completion Date
			Dec 31, 2029

Number:	4401SS	Scenario:	Main
Title:	Sage Rd. Reconstruction to Collector Standard	Project Stage:	Committee of Council Review
Asset Type:	Growth (Water and Wastewater)	Strategic Plans:	Infrastructure / Sustainability
Division:	Capital - Sewer	Project Type:	
Budget Year:	2021	Active:	Yes

Description	Comments
<p>The program involves the engineering and construction services for reconstruction of above-ground and underground infrastructure and to upgrade Sage Road to a proper collector standard.</p> <p>Engineering services will include an Environmental Assessment (EA), preliminary and detailed design, agency approvals, contract drawings, specifications, tendering and construction technical assistance.</p>	<p>Sage Road was originally constructed as a semi-urban collector (included ditches). The City Capital Works Program has targeted upgrading of the City's arterial roads as a primary objective. As most of the arterial routes have been addressed, the collector and bus routes are the secondary priority to be addressed.</p> <p>Sage Road is a primary collector route for the Birchaven area, and the upgrades will improve the roadway drainage (which will result in a pavement structure with a longer service life), and will also provide improved pedestrian facilities and safety (currently only a portion of the roadway has a separated sidewalk, while the balance has a paved shoulder sidewalk).</p> <p>The work will be constructed in one phase.</p> <p>Related projects include 4401RD/ST/WS.</p>

Scenario Description	Scenario Comments

Forecast	Project Detailed 2021																
<table border="1"> <thead> <tr> <th>Budget Year</th> <th>Total Expense</th> <th>Total Revenue</th> <th>Difference</th> </tr> </thead> <tbody> <tr> <td>2028</td> <td>20,000</td> <td>20,000</td> <td>0</td> </tr> <tr> <td></td> <td>20,000</td> <td>20,000</td> <td>0</td> </tr> <tr> <td>LTD Amount: 0</td> <td colspan="3">Total Project Cost: 20,000</td> </tr> </tbody> </table>	Budget Year	Total Expense	Total Revenue	Difference	2028	20,000	20,000	0		20,000	20,000	0	LTD Amount: 0	Total Project Cost: 20,000			
Budget Year	Total Expense	Total Revenue	Difference														
2028	20,000	20,000	0														
	20,000	20,000	0														
LTD Amount: 0	Total Project Cost: 20,000																

Related Projects	Operating Impacts

Year Identified	Start Date	Useful Life	Manager	Completion Date
2021	Jan 1, 2028	75 Years	Adam Lacombe	Dec 31, 2029

Number:	4401ST	Scenario:	Main
Title:	Sage Rd. Reconstruction to Collector Standard	Project Stage:	Committee of Council Review
Asset Type:	Growth (General)	Strategic Plans:	Infrastructure / Sustainability
Division:	Capital - Infrastructure & Operations	Project Type:	
Budget Year:	2021	Active:	Yes

Description		Comments	
<p>The program involves the engineering and construction services for reconstruction of above-ground and underground infrastructure and to upgrade Sage Road to a proper collector standard.</p> <p>Engineering services will include an Environmental Assessment (EA), preliminary and detailed design, agency approvals, contract drawings, specifications, tendering and construction technical assistance.</p>		<p>Sage Road was originally constructed as a semi-urban collector (included ditches). The City Capital Works Program has targeted upgrading of the City's arterial roads as a primary objective. As most of the arterial routes have been addressed, the collector and bus routes are the secondary priority to be addressed.</p> <p>Sage Road is a primary collector route for the Birchaven area, and the upgrades will improve the roadway drainage (which will result in a pavement structure with a longer service life), and will also provide improved pedestrian facilities and safety (currently only a portion of the roadway has a separated sidewalk, while the balance has a paved shoulder sidewalk).</p> <p>The work will be constructed in one phase.</p> <p>Related projects include 4401RD/SS/WS.</p>	
Scenario Description		Scenario Comments	
Forecast		Project Detailed 2021	
Budget Year	Total Expense	Total Revenue	Difference
2028	90,000	90,000	0
	90,000	90,000	0
LTD Amount: 0		Total Project Cost: 90,000	
Related Projects		Operating Impacts	
Year Identified	Start Date	Useful Life	Manager
2014	Jan 1, 2028	75 Years	Adam Lacombe
			Completion Date
			Dec 31, 2029

Number:	4401WS	Scenario:	Main
Title:	Sage Rd. Reconstruction to Collector Standard	Project Stage:	Committee of Council Review
Asset Type:	Growth (Water and Wastewater)	Strategic Plans:	Infrastructure / Sustainability
Division:	Capital - Water	Project Type:	
Budget Year:	2021	Active:	Yes

Description	Comments
<p>The program involves the engineering and construction services for reconstruction of above-ground and underground infrastructure and to upgrade Sage Road to a proper collector standard.</p> <p>Engineering services will include an Environmental Assessment (EA), preliminary and detailed design, agency approvals, contract drawings, specifications, tendering and construction technical assistance.</p>	<p>Sage Road was originally constructed as a semi-urban collector (included ditches). The City Capital Works Program has targeted upgrading of the City's arterial roads as a primary objective. As most of the arterial routes have been addressed, the collector and bus routes are the secondary priority to be addressed.</p> <p>Sage Road is a primary collector route for the Birchaven area, and the upgrades will improve the roadway drainage (which will result in a pavement structure with a longer service life), and will also provide improved pedestrian facilities and safety (currently only a portion of the roadway has a separated sidewalk, while the balance has a paved shoulder sidewalk).</p> <p>The work will be constructed in one phase.</p> <p>Related projects include 4401RD/ST/SS.</p>

Scenario Description	Scenario Comments

Forecast	Project Detailed 2021																
<table border="1"> <thead> <tr> <th>Budget Year</th> <th>Total Expense</th> <th>Total Revenue</th> <th>Difference</th> </tr> </thead> <tbody> <tr> <td>2028</td> <td>60,000</td> <td>60,000</td> <td>0</td> </tr> <tr> <td></td> <td>60,000</td> <td>60,000</td> <td>0</td> </tr> <tr> <td>LTD Amount: 0</td> <td colspan="3">Total Project Cost: 60,000</td> </tr> </tbody> </table>	Budget Year	Total Expense	Total Revenue	Difference	2028	60,000	60,000	0		60,000	60,000	0	LTD Amount: 0	Total Project Cost: 60,000			
Budget Year	Total Expense	Total Revenue	Difference														
2028	60,000	60,000	0														
	60,000	60,000	0														
LTD Amount: 0	Total Project Cost: 60,000																

Related Projects	Operating Impacts

Year Identified	Start Date	Useful Life	Manager	Completion Date
2014	Jan 1, 2028	75 Years	Adam Lacombe	Dec 31, 2029

Number:	4402SS	Scenario:	Main
Title:	Chippewa Trunk Sewer Major Rehabilitation & Replacement	Project Stage:	Committee of Council Review
Asset Type:	Asset Improvement and Maintenance (Water and Wastewater)	Strategic Plans:	Infrastructure / Sustainability
Division:	Capital - Sewer	Project Type:	
Budget Year:	2021	Active:	Yes

Description	Comments
<p>The project involves the engineering and construction services for the upgrading, rehabilitation, and/or reconstruction of Chippewa Trunk Sewer. Engineering services will include preliminary and detailed design, agency approvals, contract drawings, specifications, tendering, and construction technical assistance.</p> <p>A detailed condition assessment will be included to identify the needs, as well as an analysis to determine if there are any potential capacity deficiencies that may require up-sizing. The final works will include a combination of rehabilitation and replacement.</p>	<p>The trunk sewer was originally constructed in the 1970's and will be due for major maintenance and rehabilitation work. The Chippewa Trunk Sewer is the main trunk sewer and one of the most critical components of the City sanitary sewer system.</p> <p>A number of other trunk sewers flow in the Chippewa system, including the Canadore, Oak Street, Oak Street relief, and Sage trunk sewer. Failure of the Chippewa Trunk Sewer could impact a significant portion of the network. The works will likely be undertaken in multiple phases.</p>

Scenario Description	Scenario Comments

Forecast	Project Detailed 2021																								
<table border="1"> <thead> <tr> <th>Budget Year</th> <th>Total Expense</th> <th>Total Revenue</th> <th>Difference</th> </tr> </thead> <tbody> <tr> <td>2024</td> <td>200,000</td> <td>200,000</td> <td>0</td> </tr> <tr> <td>2026</td> <td>1,000,000</td> <td>1,000,000</td> <td>0</td> </tr> <tr> <td>2027</td> <td>2,500,000</td> <td>2,500,000</td> <td>0</td> </tr> <tr> <td></td> <td>3,700,000</td> <td>3,700,000</td> <td>0</td> </tr> <tr> <td>LTD Amount: 0</td> <td colspan="3">Total Project Cost: 3,700,000</td> </tr> </tbody> </table>	Budget Year	Total Expense	Total Revenue	Difference	2024	200,000	200,000	0	2026	1,000,000	1,000,000	0	2027	2,500,000	2,500,000	0		3,700,000	3,700,000	0	LTD Amount: 0	Total Project Cost: 3,700,000			
Budget Year	Total Expense	Total Revenue	Difference																						
2024	200,000	200,000	0																						
2026	1,000,000	1,000,000	0																						
2027	2,500,000	2,500,000	0																						
	3,700,000	3,700,000	0																						
LTD Amount: 0	Total Project Cost: 3,700,000																								

Related Projects	Operating Impacts

Year Identified	Start Date	Useful Life	Manager	Completion Date
2015	Jan 1, 2024	25 Years	Adam Lacombe	Dec 31, 2028

Number:	4500RD	Scenario:	Main
Title:	Franklin & John Trunk Watermain	Project Stage:	Committee of Council Review
Asset Type:	Strategic Investment (General)	Strategic Plans:	Infrastructure / Sustainability
Division:	Capital - Infrastructure & Operations	Project Type:	
Budget Year:	2021	Active:	Yes

Description	Comments
<p>The project includes the engineering and construction services for the installation of a new 400 mm trunk watermain along Franklin Street and John Street.</p> <p>Engineering services will include survey, design, agency approvals, contract drawings, specifications, tendering, construction inspection, contract administration, and project management.</p>	<p>The need was identified in the 2008 Infrastructure Background Study that was prepared in support of the Official Plan update. Installation of a new trunk watermain along Sage Road, Seymour Street, Franklin Street, and John Street will provide better distribution of flows and reinforcement of the Zone 1 distribution system. A major portion of the Seymour component is included in projects 3700RD/ST/SS/WS. Also, a portion on Sage Road (Rita Road to Shallot Crescent) was previously completed internally by Public Works resources.</p> <p>Related projects include 4500ST/SS/WS and 3700RD/ST/SS/WS.</p>

Scenario Description	Scenario Comments

Forecast	Project Detailed 2021																				
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Budget Year	Total Expense	Total Revenue	Difference																		
2026	290,000	290,000	0																		
2028	5,400,000	5,400,000	0																		
	5,690,000	5,690,000	0																		
LTD Amount: 0		Total Project Cost: 5,690,000																			

Related Projects	Operating Impacts

Year Identified	Start Date	Useful Life	Manager	Completion Date
2016	Jan 1, 2026	25 Years	Adam Lacombe	Dec 31, 2029

Number:	4500SS	Scenario:	Main
Title:	Franklin & John Trunk Watermain	Project Stage:	Committee of Council Review
Asset Type:	Strategic Investment (Water and Wastewater)	Strategic Plans:	Infrastructure / Sustainability
Division:	Capital - Sewer	Project Type:	
Budget Year:	2021	Active:	Yes

Description	Comments
<p>The project includes the engineering and construction services for the installation of a new 400 mm trunk watermain along Franklin Street and John Street.</p> <p>Engineering services will include survey, design, agency approvals, contract drawings, specifications, tendering, construction inspection, contract administration, and project management.</p>	<p>The need was identified in the 2008 Infrastructure Background Study that was prepared in support of the Official Plan update. Installation of a new trunk watermain along Sage Road, Seymour Street, Franklin Street, and John Street will provide better distribution of flows and reinforcement of the Zone 1 distribution system. A major portion of the Seymour component is included in projects 3700RD/ST/SS/WS. Also, a portion on Sage Road (Rita Road to Shallot Crescent) was previously completed internally by Public Works resources.</p> <p>Related projects include 4500RD/ST/WS and 3700RD/ST/SS/WS.</p>

Scenario Description	Scenario Comments

Forecast	Project Detailed 2021																				
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Budget Year	Total Expense	Total Revenue	Difference																		
2026	110,000	110,000	0																		
2028	2,100,000	2,100,000	0																		
	2,210,000	2,210,000	0																		
LTD Amount: 0		Total Project Cost: 2,210,000																			

Related Projects	Operating Impacts

Year Identified	Start Date	Useful Life	Manager	Completion Date
2021	Jan 1, 2026	75 Years	Adam Lacombe	Dec 31, 2029

Number:	4500ST	Scenario:	Main
Title:	Franklin & John Trunk Watermain	Project Stage:	Committee of Council Review
Asset Type:	Strategic Investment (General)	Strategic Plans:	Infrastructure / Sustainability
Division:	Capital - Infrastructure & Operations	Project Type:	
Budget Year:	2021	Active:	Yes

Description	Comments
<p>The project includes the engineering and construction services for the installation of a new 400 mm trunk watermain along Franklin Street and John Street.</p> <p>Engineering services will include survey, design, agency approvals, contract drawings, specifications, tendering, construction inspection, contract administration, and project management.</p>	<p>The need was identified in the 2008 Infrastructure Background Study that was prepared in support of the Official Plan update. Installation of a new trunk watermain along Sage Road, Seymour Street, Franklin Street, and John Street will provide better distribution of flows and reinforcement of the Zone 1 distribution system. A major portion of the Seymour component is included in projects 3700RD/ST/SS/WS. Also, a portion on Sage Road (Rita Road to Shallot Crescent) was previously completed internally by Public Works resources.</p> <p>Related projects include 4500RD/SS/WS and 3700RD/ST/SS/WS.</p>

Scenario Description	Scenario Comments

Forecast	Project Detailed 2021																				
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Budget Year	Total Expense	Total Revenue	Difference																		
2026	110,000	110,000	0																		
2028	2,000,000	2,000,000	0																		
	2,110,000	2,110,000	0																		
LTD Amount: 0		Total Project Cost: 2,110,000																			

Related Projects	Operating Impacts

Year Identified	Start Date	Useful Life	Manager	Completion Date
2016	Jan 1, 2026	75 Years	Adam Lacombe	Dec 31, 2029

Number:	4500WS	Scenario:	Main
Title:	Franklin & John Trunk Watermain	Project Stage:	Committee of Council Review
Asset Type:	Strategic Investment (Water and Wastewater)	Strategic Plans:	Infrastructure / Sustainability
Division:	Capital - Water	Project Type:	
Budget Year:	2021	Active:	Yes

Description	Comments
<p>The project includes the engineering and construction services for the installation of a new 400 mm trunk watermain along Franklin Street and John Street.</p> <p>Engineering services will include survey, design, agency approvals, contract drawings, specifications, tendering, construction inspection, contract administration, and project management.</p>	<p>The need was identified in the 2008 Infrastructure Background Study that was prepared in support of the Official Plan update. Installation of a new trunk watermain along Sage Road, Seymour Street, Franklin Street, and John Street will provide better distribution of flows and reinforcement of the Zone 1 distribution system. A major portion of the Seymour component is included in projects 3700RD/ST/SS/WS. Also, a portion on Sage Road (Rita Road to Shallot Crescent) was previously completed internally by Public Works resources.</p> <p>Related projects include 4500RD/ST/SS and 3700RD/ST/SS/WS.</p>

Scenario Description	Scenario Comments

Forecast	Project Detailed 2021																				
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Budget Year	Total Expense	Total Revenue	Difference																		
2026	150,000	150,000	0																		
2028	2,800,000	2,800,000	0																		
	2,950,000	2,950,000	0																		
LTD Amount: 0		Total Project Cost: 2,950,000																			

Related Projects	Operating Impacts

Year Identified	Start Date	Useful Life	Manager	Completion Date
2016	Jan 1, 2026	75 Years	Adam Lacombe	Dec 31, 2029

Number:	6483AA	Scenario:	Main
Title:	Cassellholme Redevelopment	Project Stage:	Committee of Council Review
Asset Type:	Strategic Investment (General)	Strategic Plans:	Infrastructure / Sustainability
Division:	Capital - Service Partners	Project Type:	
Budget Year:	2021	Active:	Yes

Description	Comments
This project provides support for the redevelopment of Cassellholme East Nipissing District Home for the Aged and the proposal for the Board of Management to borrow the funds necessary to complete the project.	Cassellholme will be financing the redevelopment using a combination of capital subsidy payments by the Ministry of Health and Long-Term Care and annual levy to the participating municipalities. This project represents the City of North Bay's estimated share of the redevelopment and is subject to change based on the start date, Ministry's approvals and final financing agreements.

Scenario Description	Scenario Comments

Forecast	Project Detailed 2021																																																																									
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Related Projects	Operating Impacts			
Year Identified	Start Date	Useful Life	Manager	Completion Date
2019	Jan 1, 2021	NA	Margaret Karpenko	

Number:	6546RF	Scenario:	Main
Title:	Aquatic Centre Rehab Program 2021 On-going	Project Stage:	Committee of Council Review
Asset Type:	Asset Improvement and Maintenance (General)	Strategic Plans:	Infrastructure / Sustainability, Maintenance
Division:	Capital - Infrastructure & Operations	Project Type:	
Budget Year:	2021	Active:	Yes

Description	Comments
The program provides for the rehabilitation and enhancements of North Bay's Aquatic Centre as per the Lifecycle Plan.	In 2021, the budget includes general rehabilitation to the Aquatic Centre including changeroom renewal and a structural integrity report.

Scenario Description	Scenario Comments
	The following details support the Capital Forecast for 2022 to 2030: 2022 Replacement of pool decking 2023 General changeroom rehabilitation and HVAC units 1,2,3 rehabs 2024 Replacement of the sand filters, actuators, pumps and general rehabilitation 2025 Boiler replacement, pool regROUT and general rehabilitation 2026 Heat exchanger, pump replacements and general rehabilitation 2027 HRV and general rehabilitation 2028 Lobby painting and general rehabilitation 2029 Actuator replacement and general rehab 2030 General rehabilitation

Forecast	Project Detailed 2021																																																																												
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Related Projects	Operating Impacts			
Year Identified	Start Date	Useful Life	Manager	Completion Date
2021	Jan 1, 2021	10 to 30 Years	David Jackowski	Dec 31, 2021

Number:	6547RD	Scenario:	Main
Title:	Asphalt Resurfacing 2021 On-going	Project Stage:	Committee of Council Review
Asset Type:	Asset Improvement and Maintenance (General)	Strategic Plans:	Infrastructure / Sustainability
Division:	Capital - Infrastructure & Operations	Project Type:	
Budget Year:	2021	Active:	Yes

Description	Comments
<p>The program involves the construction services for the annual resurfacing program.</p> <p>Engineering services will include survey, design, contract drawings, specifications, tendering, construction inspection, contract administration, and project management.</p> <p>The project is an on-going annual program to maintain and/or restore the riding surface of the urban city streets. The project utilizes a variety of techniques for maintenance of the roadway and protection of the asset. Works may involve asphalt grinding, pulverization, recycling, crack sealing, base stabilization, drainage improvements, curb restoration and boulevard restoration in addition to cold-in-place or hot-mix asphalt paving.</p>	<p>The maintenance of the road surface is of primary importance to the community. The annual program extends the life of our roads, reduces annual maintenance costs and provides a continued level of service.</p> <p>In accordance with the City's Asset Management Plan, the condition of the City's roads will be monitored and analyzed on an on-going basis to determine and confirm prioritization with respect to the needs of the overall road and infrastructure network, and which works represent the best value. To assist with the prioritization, the City's Pavement Management Software and the results of the Pavement Quality Inspection performed in 2015 will be utilized.</p> <p>The project is partially funded using the Federal Gas Tax.</p>

Scenario Description	Scenario Comments

Forecast	Project Detailed 2021																																																																																		
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Related Projects	Operating Impacts

Year Identified	Start Date	Useful Life	Manager	Completion Date
2021	Jan 1, 2021	10 Years	Reid Porter	Dec 31, 2021

Number:	6548RD	Scenario:	Main
Title:	Asphalt Sheeting 2021 On-going	Project Stage:	Committee of Council Review
Asset Type:	Asset Improvement and Maintenance (General)	Strategic Plans:	Infrastructure / Sustainability, Maintenance
Division:	Capital - Infrastructure & Operations	Project Type:	
Budget Year:	2021	Active:	Yes

Description	Comments
The sheeting program is an on-going program designed to address localized serious deficiencies in asphalt paving that arise suddenly and pose serious risk to drivers and can lead to more serious issues.	The sudden onsets of these deficiencies are not identified in the resurfacing budget but do warrant immediate repair to limit liability and prevent further damage.

Scenario Description	Scenario Comments

Forecast	Project Detailed 2021																																																																												
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Related Projects	Operating Impacts			
Year Identified	Start Date	Useful Life	Manager	Completion Date
2021	Jan 1, 2021	10 Years	Domenic Schiavone	Dec 31, 2021

Number:	6549RD	Scenario:	Main
Title:	Asset Management 2021 On-going	Project Stage:	Committee of Council Review
Asset Type:	Asset Improvement and Maintenance (General)	Strategic Plans:	Infrastructure / Sustainability, Master Plans
Division:	Capital - Infrastructure & Operations	Project Type:	
Budget Year:	2021	Active:	Yes

Description	Comments
The project provides for the implementation of Asset Management initiatives for the City's infrastructure. Work includes maintenance, management, development, and analysis of asset data.	The funding will be used for studies and report development to facilitate decision making and asset management reporting. The funding may also be used for data gathering and condition assessments, as required. Related projects include 6549WS.

Scenario Description	Scenario Comments

Forecast	Project Detailed 2021																																																																												
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Related Projects	Operating Impacts			
Year Identified	Start Date	Useful Life	Manager	Completion Date
2021	Jan 1, 2021	TBD	Kevin Vescio	Dec 31, 2021

Number:	6549WS	Scenario:	Main
Title:	Asset Management 2021 On-going	Project Stage:	Committee of Council Review
Asset Type:	Asset Improvement and Maintenance (Water and Wastewater)	Strategic Plans:	Infrastructure / Sustainability, Master Plans
Division:	Capital - Water	Project Type:	
Budget Year:	2021	Active:	Yes

Description	Comments
The project provides for the implementation of Asset Management initiatives for the City's infrastructure. Work includes maintenance, management, development, and analysis of asset data.	The funding will be used for studies and report development to facilitate decision making and asset management reporting. The funding may also be used for data gathering and condition assessments, as required. Related projects include 6549RD.

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Year Identified	Start Date	Useful Life	Manager	Completion Date
2021	Jan 1, 2021	TBD	Kevin Vescio	Dec 31, 2021

Number:	6550RD	Scenario:	Main
Title:	Bridge Rehab 2021 On-going	Project Stage:	Committee of Council Review
Asset Type:	Asset Improvement and Maintenance (General)	Strategic Plans:	Infrastructure / Sustainability, Maintenance
Division:	Capital - Infrastructure & Operations	Project Type:	
Budget Year:	2021	Active:	Yes

Description	Comments
The program provides for bridge related rehabilitation repairs for minor deficiencies in the City's bridges, pedestrian bridges and major culverts to capture additional life expectancy and maintain service to the public. There are currently more than 100 structures being maintained through this funding.	These works are considered a critical priority in order to provide safety to the public which can include the rehabilitation of certain components of the bridge or its surroundings to extend its service life; such as, concrete patch repairs, guide rail repairs, asphalt and sidewalk repairs, etc. This project also involves the annual bridge inspection program. Municipalities are regulated to inspect every bridge structure once every two years. The City contracts out these services to an engineering firm that will do the inspections and provide a report of the findings and recommendations for work, as well as identifying any critical issues warranting immediate attention.

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Related Projects	Operating Impacts			
Year Identified	Start Date	Useful Life	Manager	Completion Date
2021	Jan 1, 2021	TBD	Reid Porter	Dec 31, 2021

Number:	6551OC	Scenario:	Main
Title:	Capitol Centre 2021 On-going	Project Stage:	Committee of Council Review
Asset Type:	Asset Improvement and Maintenance (General)	Strategic Plans:	Maintenance
Division:	Capital - Service Partners	Project Type:	
Budget Year:	2021	Active:	Yes

Description	Comments
The project provides for an on-going program of repairs and maintenance to the Capitol Centre.	The 2021 program includes temperature control, lighting upgrades, audio upgrades, office upgrades, a basement feasibility study, marketing upgrades, tech equipment upgrades, security upgrades, and building storage.

Scenario Description	Scenario Comments
	The following details support the Capital Forecast for 2022 to 2030: 2022 Fire and safety supply upgrades, rental space upgrades, internal marquees, building painting, front window casing replacement, signage, exterior canopies, gallery lighting upgrades 2023 to 2030 Structural, mechanical and electrical work

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Year Identified	Start Date	Useful Life	Manager	Completion Date
2021	Jan 1, 2021	N/A	Margaret Karpenko	Dec 31, 2021

Number:	6552PR	Scenario:	Main
Title:	Central City Rehab Program 2021 On-going	Project Stage:	Committee of Council Review
Asset Type:	Asset Improvement and Maintenance (General)	Strategic Plans:	Maintenance
Division:	Capital - Community Services	Project Type:	
Budget Year:	2021	Active:	Yes

Description	Comments
The program provides for the rehabilitation of the following central city park locations: downtown sidewalk repair, the Civic Plaza, Community Waterfront Park, Ferguson Block parkette, Memorial Park Cenotaph, Algonquin Regiment Cenotaph, Algonquin median planters / fountain parkette, Oak Street planters and parking lot planters.	In 2021 the ongoing program includes Algonquin Cenotaph rehabilitation, tree planting , sidewalk repairs, furnishings and general rehabilitation.

Scenario Description	Scenario Comments
	The following details support the Capital Forecast for 2022 to 2030: 2022 Memorial Park rehab // sidewalk repairs // furnishings // general rehab 2023 Parking lot planter rehab // sidewalk repairs // furnishings // general rehab 2024 Parking lot planter rehab // sidewalk repairs // furnishings // general rehab 2025 to 2030 Park rehab // sidewalk repairs // furnishings // general rehabilitation

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Related Projects	Operating Impacts			
Year Identified	Start Date	Useful Life	Manager	Completion Date
2021	Jan 1, 2021	TBD	David Schroeder	Dec 31, 2021

Number:	6553GG	Scenario:	Main
Title:	City Hall Building Rehab 2021 On-going	Project Stage:	Committee of Council Review
Asset Type:	Asset Improvement and Maintenance (General)	Strategic Plans:	Infrastructure / Sustainability, Maintenance
Division:	Capital - Infrastructure & Operations	Project Type:	
Budget Year:	2021	Active:	Yes

Description	Comments
The project provides for on-going maintenance, repairs and improvements to City Hall; includes but not limited to, window maintenance and repairs, flooring replacement, roof safety guards and ladder system installation identified as a safety concern, and washroom upgrades. Changing priorities could impact the schedule. This does not include upgrades for accessibility purposes.	This project does not include any major reconfiguration. 2021 includes for the renewal of the main incoming electrical equipment for City Hall, a structural integrity report, flooring replacement and general rehabilitation.

Scenario Description	Scenario Comments
	The following details support the Capital Forecast for 2022 to 2030: 2022 Copper roof // DHW supply system // plumbing riser // general rehabilitation 2023 HRV replacement // windows // general rehabilitation 2024 Boiler renewal // 2nd floor WRs // general rehabilitation 2025 Upgrade baseboard controls // heat exchanger penthouse // pod BAS // general rehabilitation 2026 Eco flush toilets // wayfinding // flooring // general rehabilitation 2027 Flooring rehabilitation // emergency lighting // general rehabilitation 2028 Window replacement // pump replacement // general rehabilitation 2029 BAS upgrade // windows // general rehab 2030 Chiller replacement // general rehab

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Related Projects	Operating Impacts			
Year Identified	Start Date	Useful Life	Manager	Completion Date
2021	Jan 1, 2021	TBD	David Jackowski	Dec 31, 2021

Number:	6554PR	Scenario:	Main
Title:	City Hall Grounds Rehab Program 2021 On-going	Project Stage:	Committee of Council Review
Asset Type:	Asset Improvement and Maintenance (General)	Strategic Plans:	Maintenance
Division:	Capital - Infrastructure & Operations	Project Type:	
Budget Year:	2021	Active:	Yes

Description	Comments
The program provides for the rehabilitation of the City Hall grounds. The program includes: retaining walls, hard surfaces (sidewalks, stairs, parking lots), landscaping (turf, trees, shrubs, irrigation), furnishings (benches, picnic tables, waste receptacles, and bike racks) and lighting.	In 2021 the program includes design of the reconstruction/reconfiguration of the City Hall Wyld/McIntyre area; retaining wall, hard surface and public gathering areas.

Scenario Description	Scenario Comments
	The following details support the Capital Forecast for 2022 to 2030: 2022 Reconstruction of Wyld/McIntyre grounds 2024 to 2030 Hard surface rehabilitation // landscaping // furnishings // general rehab

Forecast	Project Detailed 2021																																																												
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Related Projects	Operating Impacts

Year Identified	Start Date	Useful Life	Manager	Completion Date
2021	Jan 1, 2021	TBD	David Jackowski	Dec 31, 2021

Number:	6555RD	Scenario:	Main
Title:	City Share of Development Costs 2021 On-going	Project Stage:	Committee of Council Review
Asset Type:	Growth (General)	Strategic Plans:	Growth / Economic Development
Division:	Capital - Infrastructure & Operations	Project Type:	
Budget Year:	2021	Active:	Yes

Description	Comments
<p>This project provides a funding source to enable the City to respond to development requests. The City contributes towards items such as infrastructure upsizing and extensions, as well as off-site road network improvements.</p>	<p>These works are considered a priority and are vital to the City's support of development and growth.</p> <p>The budgeted amounts represent an allowance for unknown and unforeseen costs for roadway and underground infrastructure works related to new development. This could include the City requiring a new subdivision road to be a Collector standard, or a sewer to be upsized to a trunk sewer diameter. Current practice is that the developer would only be responsible to cover the costs to meet the minimum standard and the City would cover the additional cost to upgrade to a higher standard.</p> <p>These projects generally provide for future growth.</p> <p>Related project includes 6555WS.</p>

Scenario Description	Scenario Comments

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Related Projects	Operating Impacts

Year Identified	Start Date	Useful Life	Manager	Completion Date
2021	Jan 1, 2021	TBD	Adam Lacombe	Dec 31, 2021

Number:	6555WS	Scenario:	Main
Title:	City Share of Development Costs 2021 On-going	Project Stage:	Committee of Council Review
Asset Type:	Growth (Water and Wastewater)	Strategic Plans:	Growth / Economic Development
Division:	Capital - Water	Project Type:	
Budget Year:	2021	Active:	Yes

Description	Comments
<p>This project provides a funding source to enable the City to respond to development requests. The City contributes towards items such as infrastructure upsizing and extensions, as well as off-site road network improvements.</p>	<p>These works are considered a priority and are vital to the City's support of development and growth.</p> <p>The budgeted amounts represent an allowance for unknown and unforeseen costs for roadway and underground infrastructure works related to new development. This could include the City requiring a new subdivision road to be a Collector standard, or a sewer to be upsized to a trunk sewer diameter. Current practice is that the developer would only be responsible to cover the costs to meet the minimum standard and the City would cover the additional cost to upgrade to a higher standard.</p> <p>These projects generally provide for future growth.</p> <p>Related project includes 6555RD.</p>

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Related Projects	Operating Impacts

Year Identified	Start Date	Useful Life	Manager	Completion Date
2021	Jan 1, 2021	25 Years	Adam Lacombe	Dec 31, 2021

Number:	6557RD	Scenario:	Main
Title:	Design Work Next Year's Projects 2021 On-going	Project Stage:	Committee of Council Review
Asset Type:	Asset Improvement and Maintenance (General)	Strategic Plans:	Infrastructure / Sustainability
Division:	Capital - Infrastructure & Operations	Project Type:	
Budget Year:	2021	Active:	Yes

Description	Comments
The project provides for preliminary and detailed design engineering work required to enable design and construction of projects planned for the following year.	These works could include pre-engineering activities such as geotechnical investigations and surveying or can include designs for small projects. Related projects include 6557ST/SS/WS.

Scenario Description	Scenario Comments

Forecast	Project Detailed 2021																																																																												
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Related Projects	Operating Impacts			
Year Identified	Start Date	Useful Life	Manager	Completion Date
2021	Jan 1, 2021	N/A	Adam Lacombe	Dec 31, 2021

Number:	6557SS	Scenario:	Main
Title:	Design Work Next Year's Projects 2021 On-going	Project Stage:	Committee of Council Review
Asset Type:	Asset Improvement and Maintenance (Water and Wastewater)	Strategic Plans:	Infrastructure / Sustainability
Division:	Capital - Sewer	Project Type:	
Budget Year:	2021	Active:	Yes

Description	Comments
The project provides for preliminary and detailed design engineering work required to enable design and construction of projects planned for the following year.	These works could include pre-engineering activities such as geotechnical investigations and surveying or can include designs for small projects. Related projects include 6557RD/ST/WS.

Scenario Description	Scenario Comments

Forecast	Project Detailed 2021																																																																												
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Related Projects	Operating Impacts			
Year Identified	Start Date	Useful Life	Manager	Completion Date
2021	Jan 1, 2021	N/A	Adam Lacombe	Dec 31, 2021

Number:	6557ST	Scenario:	Main
Title:	Design Work Next Year's Projects 2021 On-going	Project Stage:	Committee of Council Review
Asset Type:	Asset Improvement and Maintenance (General)	Strategic Plans:	Infrastructure / Sustainability
Division:	Capital - Infrastructure & Operations	Project Type:	
Budget Year:	2021	Active:	Yes

Description	Comments
The project provides for preliminary and detailed design engineering work required to enable design and construction of projects planned for the following year.	These works could include pre-engineering activities such as geotechnical investigations and surveying or can include designs for small projects. Related projects include 6557RD/SS/WS.

Scenario Description	Scenario Comments

Forecast	Project Detailed 2021																																																																												
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Related Projects	Operating Impacts			
Year Identified	Start Date	Useful Life	Manager	Completion Date
2021	Jan 1, 2021	N/A	Adam Lacombe	Dec 31, 2021

Number:	6557WS	Scenario:	Main
Title:	Design Work Next Year's Projects 2021 On-going	Project Stage:	Committee of Council Review
Asset Type:	Asset Improvement and Maintenance (Water and Wastewater)	Strategic Plans:	Infrastructure / Sustainability
Division:	Capital - Water	Project Type:	
Budget Year:	2021	Active:	Yes

Description	Comments
The project provides for preliminary and detailed design engineering work required to enable design and construction of projects planned for the following year.	These works could include pre-engineering activities such as geotechnical investigations and surveying or can include designs for small projects. Related projects include 6557RD/ST/SS.

Scenario Description	Scenario Comments

Forecast	Project Detailed 2021		
Budget Year	Total Expense	Total Revenue	Difference
2021	116,000	116,000	0
2022	119,000	119,000	0
2023	122,000	122,000	0
2024	125,000	125,000	0
2025	128,000	128,000	0
2026	132,000	132,000	0
2027	136,000	136,000	0
2028	140,000	140,000	0
2029	140,000	140,000	0
2030	140,000	140,000	0
	1,298,000	1,298,000	0
LTD Amount: 0	Total Project Cost: 1,298,000		
	GL Account	Description	Total Amount
	Expense		
	3117	DESIGN FEES	113,680
	7010	ADMINISTRATON & OVERHEAD	2,320
		Total Expense:	116,000
	Revenue		
	0461	TSF FRM REV FUND-PAYGO	116,000
		Total Revenue:	116,000

Related Projects	Operating Impacts			
Year Identified	Start Date	Useful Life	Manager	Completion Date
2021	Jan 1, 2021	N/A	Adam Lacombe	Dec 31, 2021

Number:	6558SS	Scenario:	Main
Title:	Digester and Grit Removal 2021 On-going	Project Stage:	Committee of Council Review
Asset Type:	Asset Improvement and Maintenance (Water and Wastewater)	Strategic Plans:	Infrastructure / Sustainability, Maintenance
Division:	Capital - Sewer	Project Type:	
Budget Year:	2021	Active:	Yes

Description		Comments	
The project provides for the necessary periodic scheduled maintenance on the digesters and primary clarifiers at the Wastewater Treatment Plant to ensure this equipment is operating in the most optimal fashion.		With the construction of the grit removal facility at the head end of the plant, it is anticipated that digester cleaning requirement for the four digesters will be reduced in future years. The budget reflects these changes.	

Scenario Description		Scenario Comments	

Forecast		Project Detailed 2021	
Budget Year	Total Expense	Total Revenue	Difference
2023	109,000	109,000	0
2026	109,000	109,000	0
2029	109,000	109,000	0
	327,000	327,000	0
LTD Amount: 0		Total Project Cost: 327,000	

Related Projects		Operating Impacts	

Year Identified	Start Date	Useful Life	Manager	Completion Date
2021	Jan 1, 2021	N/A	Karin Pratte	Dec 31, 2021

Number:	6559ST	Scenario:	Main
Title:	Ditch Enclosure 2021 On-going	Project Stage:	Committee of Council Review
Asset Type:	Asset Improvement and Maintenance (General)	Strategic Plans:	Infrastructure / Sustainability
Division:	Capital - Infrastructure & Operations	Project Type:	
Budget Year:	2021	Active:	Yes

Description	Comments
The project will eliminate open ditches in problem areas. Ditch lines would be replaced by a storm sewer system to convey storm water and run-off.	The 2021 program will include elimination of ditches on Glenwood Rd. in the area of the new Pinewood School and create space for the installation of sidewalks. Related project 6583RD.

Scenario Description	Scenario Comments

Forecast	Project Detailed 2021																																																																												
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Related Projects	Operating Impacts			
Year Identified	Start Date	Useful Life	Manager	Completion Date
2021	Jan 1, 2021	25-50 Years	Domenic Schiavone	Dec 31, 2021

Number:	6560RD	Scenario:	Main
Title:	Downtown Roads Maintenance 2021 On-going	Project Stage:	Committee of Council Review
Asset Type:	Asset Improvement and Maintenance (General)	Strategic Plans:	Maintenance
Division:	Capital - Infrastructure & Operations	Project Type:	
Budget Year:	2021	Active:	Yes

Description	Comments
The project provides for an on-going program of downtown roads maintenance and upgrades.	The 2021 program will include the continuing upgrades to roads, line painting, traffic signals, and sidewalks in the downtown core.

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Related Projects	Operating Impacts

Year Identified	Start Date	Useful Life	Manager	Completion Date
2021	Jan 1, 2021	25 Years	Domenic Schiavone	Dec 31, 2021

Number:	6562RD	Scenario:	Main
Title:	Engineering Data and Equipment 2021 On-going	Project Stage:	Committee of Council Review
Asset Type:	Strategic Investment (General)	Strategic Plans:	Equipment Replacement
Division:	Capital - Infrastructure & Operations	Project Type:	
Budget Year:	2021	Active:	Yes

Description	Comments
The project provides for the collection and processing of engineering related data and the purchase and replacement of equipment in support of the data collection.	<p>Engineering data can include such things as traffic data and sewer flow monitoring data.</p> <p>Traffic counting equipment was purchased to eliminate the need to have staff on site for a full day to undertake an intersection traffic count. This frees up staff resources for other tasks. The traffic data is collected using a special video camera and the data file is processed by the equipment supplier using automated software at a lower cost than the cost of staff to do the same work.</p> <p>Sewer flow monitoring supports design for sanitary pumping station upgrades and replacements. It also supports a flow monitoring program to identify areas and sources of infiltration and inflow (sump pumps) in order to focus in on the most critical areas. A reduction in infiltration/inflow will reduce the demands on the Wastewater Treatment Plant.</p> <p>Related projects include 4202SS and 6562SS.</p>

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Related Projects	Operating Impacts

Year Identified	Start Date	Useful Life	Manager	Completion Date
2021	Jan 1, 2021	TBD	Adam Lacombe	Dec 31, 2021

Number:	6562SS	Scenario:	Main
Title:	Engineering Data and Equipment 2021 On-going	Project Stage:	Committee of Council Review
Asset Type:	Strategic Investment (Water and Wastewater)	Strategic Plans:	Equipment Replacement
Division:	Capital - Sewer	Project Type:	
Budget Year:	2021	Active:	Yes

Description	Comments
The project provides for the collection and processing of engineering related data and the purchase and replacement of equipment in support of the data collection.	<p>Engineering data can include such things as traffic data and sewer flow monitoring data.</p> <p>Traffic counting equipment was purchased to eliminate the need to have staff on site for a full day to undertake an intersection traffic count. This frees up staff resources for other tasks. The traffic data is collected using a special video camera and the data file is processed by the equipment supplier using automated software at a lower cost than the cost of staff to do the same work.</p> <p>Sewer flow monitoring supports design for sanitary pumping station upgrades and replacements. It also supports a flow monitoring program to identify areas and sources of infiltration and inflow (sump pumps) in order to focus in on the most critical areas. A reduction in infiltration/inflow will reduce the demands on the Wastewater Treatment Plant.</p> <p>Related projects include 4202SS and 6562RD.</p>

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Related Projects	Operating Impacts

Year Identified	Start Date	Useful Life	Manager	Completion Date
2021	Jan 1, 2021	TBD	Adam Lacombe	Dec 31, 2021

Number:	6563RD	Scenario:	Main
Title:	Equipment Replacement 2021 On-going	Project Stage:	Committee of Council Review
Asset Type:	Asset Improvement and Maintenance (General)	Strategic Plans:	Equipment Replacement
Division:	Capital - Infrastructure & Operations	Project Type:	
Budget Year:	2021	Active:	Yes

Description	Comments
This project will be used to purchase tools and equipment required for the roads department.	The funds will be used to replace items such as arboards, concrete saws, chain saws, etc. These purchases will not form part of the fleet and equipment replacement program. Related project includes 6563WS.

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Related Projects	Operating Impacts			
Year Identified	Start Date	Useful Life	Manager	Completion Date
2021	Jan 1, 2021	TBD	Domenic Schiavone	Dec 31, 2021

Number:	6563WS	Scenario:	Main
Title:	Equipment Replacement 2021 On-going	Project Stage:	Committee of Council Review
Asset Type:	Asset Improvement and Maintenance (Water and Wastewater)	Strategic Plans:	Equipment Replacement
Division:	Capital - Water	Project Type:	
Budget Year:	2021	Active:	Yes

Description	Comments
This project will be used to purchase tools and equipment required for the water and wastewater department.	The funds will be used to replace items such as pumps, concrete saws, chain saws, etc. These purchases will not form part of the fleet and equipment replacement program. Related project includes 6563RD.

Scenario Description	Scenario Comments

Forecast	Project Detailed 2021																																																																												
<table border="1"> <thead> <tr> <th>Budget Year</th> <th>Total Expense</th> <th>Total Revenue</th> <th>Difference</th> </tr> </thead> <tbody> <tr><td>2021</td><td>15,000</td><td>15,000</td><td>0</td></tr> <tr><td>2022</td><td>15,000</td><td>15,000</td><td>0</td></tr> <tr><td>2023</td><td>15,000</td><td>15,000</td><td>0</td></tr> <tr><td>2024</td><td>15,000</td><td>15,000</td><td>0</td></tr> <tr><td>2025</td><td>15,000</td><td>15,000</td><td>0</td></tr> <tr><td>2026</td><td>15,000</td><td>15,000</td><td>0</td></tr> <tr><td>2027</td><td>15,000</td><td>15,000</td><td>0</td></tr> <tr><td>2028</td><td>15,000</td><td>15,000</td><td>0</td></tr> <tr><td>2029</td><td>15,000</td><td>15,000</td><td>0</td></tr> <tr><td>2030</td><td>15,000</td><td>15,000</td><td>0</td></tr> <tr> <td></td> <td>150,000</td> <td>150,000</td> <td>0</td> </tr> <tr> <td>LTD Amount: 0</td> <td colspan="3">Total Project Cost: 150,000</td> </tr> </tbody> </table>	Budget Year	Total Expense	Total Revenue	Difference	2021	15,000	15,000	0	2022	15,000	15,000	0	2023	15,000	15,000	0	2024	15,000	15,000	0	2025	15,000	15,000	0	2026	15,000	15,000	0	2027	15,000	15,000	0	2028	15,000	15,000	0	2029	15,000	15,000	0	2030	15,000	15,000	0		150,000	150,000	0	LTD Amount: 0	Total Project Cost: 150,000			<table border="1"> <thead> <tr> <th>GL Account</th> <th>Description</th> <th>Total Amount</th> </tr> </thead> <tbody> <tr> <td colspan="3">Expense</td> </tr> <tr> <td>5010</td> <td>MACHINERY & EQUIPMENT</td> <td>14,700</td> </tr> <tr> <td>7010</td> <td>ADMINISTRATON & OVERHEAD</td> <td>300</td> </tr> <tr> <td></td> <td>Total Expense:</td> <td>15,000</td> </tr> <tr> <td colspan="3">Revenue</td> </tr> <tr> <td>0461</td> <td>TSF FRM REV FUND-PAYGO</td> <td>15,000</td> </tr> <tr> <td></td> <td>Total Revenue:</td> <td>15,000</td> </tr> </tbody> </table>	GL Account	Description	Total Amount	Expense			5010	MACHINERY & EQUIPMENT	14,700	7010	ADMINISTRATON & OVERHEAD	300		Total Expense:	15,000	Revenue			0461	TSF FRM REV FUND-PAYGO	15,000		Total Revenue:	15,000
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Related Projects	Operating Impacts			
Year Identified	Start Date	Useful Life	Manager	Completion Date
2021	Jan 1, 2021	TBD	Domenic Schiavone	Dec 31, 2021

Number:	6564FD	Scenario:	Main
Title:	Fire Bunker Gear Replacement Program 2021 On-going	Project Stage:	Committee of Council Review
Asset Type:	Asset Improvement and Maintenance (General)	Strategic Plans:	Equipment Replacement
Division:	Capital - Community Services	Project Type:	
Budget Year:	2021	Active:	Yes

Description	Comments
The program provides funds to replace firefighters' bunker gear (firefighting ensemble). In order to meet our requirements under the Occupational Health and Safety Act we are required to replace Bunker Gear every 10 years as stipulated in NFPA Standard 1851.	For the period of 2021 and 2026, the program is based on the anticipated costs for required replacements.

Scenario Description	Scenario Comments

Forecast	Project Detailed 2021																																												
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Related Projects	Operating Impacts

Year Identified	Start Date	Useful Life	Manager	Completion Date
2021	Jan 1, 2021	10 Years	Greg Saunders	Dec 31, 2021

Number:	6565FD	Scenario:	Main
Title:	Fire Equipment Replacement 2021 On-going	Project Stage:	Committee of Council Review
Asset Type:	Asset Improvement and Maintenance (General)	Strategic Plans:	Infrastructure / Sustainability, Maintenance,...
Division:	Capital - Community Services	Project Type:	
Budget Year:	2021	Active:	Yes

Description	Comments
The program provides for the Fire Department's equipment replacements. This budget also provides for new or replacement equipment for new fleet purchases.	Replacement of aging equipment and analysis of needed equipment for enhanced and efficient service delivery. Equipment recommendations are researched by NBFES equipment committee. Equipment purchases will include equipment for new Tanker.

Scenario Description	Scenario Comments
	The Capital Forecasts from 2021 to 2030 will be used to address major equipment costs associated with ongoing operations. The funds will be used to repair/replace equipment necessary for North Bay Fire to enhance our ability to deliver an effective response to emergency incidents.

Forecast	Project Detailed 2021																																																																												
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Related Projects	Operating Impacts			
Year Identified	Start Date	Useful Life	Manager	Completion Date
2021	Jan 1, 2021	5 to 25 Years	Greg Saunders	Dec 31, 2021

Number:	6566FD	Scenario:	Main
Title:	Fire Facilities Management Program 2021 On-going	Project Stage:	Committee of Council Review
Asset Type:	Asset Improvement and Maintenance (General)	Strategic Plans:	Infrastructure / Sustainability, Maintenance
Division:	Capital - Community Services	Project Type:	
Budget Year:	2021	Active:	Yes

Description		Comments	
The program provides funds for the maintenance and repairs on the four fire stations in the City.		The program includes interior rehabilitation of fire stations and energy efficiency upgrades. Program will include overhead door replacement, main door, energy efficient upgrades (lighting) and replace windows.	

Scenario Description		Scenario Comments	
		The Capital Forecasts from 2021 to 2030 will be used to address major capital costs associated with aging infrastructure. The funds will also be used to repair/replace major building items as well as improve the station's energy efficiencies. Plans for building repairs or energy efficiency upgrades are developed a year in advance of the budget based on information derived from station maintenance reports.	

Forecast		Project Detailed 2021	
Budget Year	Total Expense	Total Revenue	Difference
2022	89,250	89,250	0
2024	94,500	94,500	0
2026	99,750	99,750	0
2028	105,000	105,000	0
2030	105,000	105,000	0
	493,500	493,500	0
LTD Amount: 0		Total Project Cost: 493,500	

Related Projects		Operating Impacts	

Year Identified	Start Date	Useful Life	Manager	Completion Date
2021	Jan 1, 2021	10 to 20 Years	Jason Whiteley	Dec 31, 2021

Number:	6567WS	Scenario:	Main
Title:	Flush Watermains 2021 On-going	Project Stage:	Committee of Council Review
Asset Type:	Asset Improvement and Maintenance (Water and Wastewater)	Strategic Plans:	Infrastructure / Sustainability, Maintenance
Division:	Capital - Water	Project Type:	
Budget Year:	2021	Active:	Yes

Description		Comments	
The program provides for the on-going annual directional and dead end flushing of the City's watermains. The project is essential in order to extend the watermains' lifecycle and it allows the City to remain compliant with the Ministry of Environment Regulations. Funds are also used for infrastructure upgrades and when system deficiencies are noted.		The on-going program is designed to clean existing watermains thereby extending the lifecycle and identifying problem infrastructure that can then be repaired in non-emergency situations. The program is recommended as a best practice by the Ministry of Environment and Climate Change.	

Scenario Description		Scenario Comments	

Forecast				Project Detailed 2021		
Budget Year	Total Expense	Total Revenue	Difference	GL Account	Description	Total Amount
2021	100,000	100,000	0	Expense		
2022	200,000	200,000	0	3425	CONSTRUCTION CONTRACT	98,000
2023	200,000	200,000	0	7010	ADMINISTRATON & OVERHEAD	2,000
2024	200,000	200,000	0	Total Expense:		100,000
2025	200,000	200,000	0	Revenue		
2026	200,000	200,000	0	0461	TSF FRM REV FUND-PAYGO	100,000
2027	200,000	200,000	0	Total Revenue:		100,000
2028	206,000	206,000	0			
2029	210,000	210,000	0			
2030	210,000	210,000	0			
	1,926,000	1,926,000	0			
LTD Amount: 0		Total Project Cost: 1,926,000				

Related Projects		Operating Impacts	

Year Identified	Start Date	Useful Life	Manager	Completion Date
2021	Jan 1, 2021	10 to 20 Years	Domenic Schiavone	Dec 31, 2021

Number:	6568WS	Scenario:	Main
Title:	Hydrant and Valve Rehab 2021 On-going	Project Stage:	Committee of Council Review
Asset Type:	Asset Improvement and Maintenance (Water and Wastewater)	Strategic Plans:	Infrastructure / Sustainability, Maintenance
Division:	Capital - Water	Project Type:	
Budget Year:	2021	Active:	Yes

Description	Comments
The project provides for the on-going inspection, maintenance, rehabilitation, and replacement of fire hydrants in the city. The work is a legal requirement under the Fire Code and Ministry of Environment Regulations.	This project allows for annual inspection of all hydrants within the city.

Scenario Description	Scenario Comments

Forecast	Project Detailed 2021																																																																												
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Related Projects	Operating Impacts			
Year Identified	Start Date	Useful Life	Manager	Completion Date
2021	Jan 1, 2021	5 to 15 Years	Domenic Schiavone	Dec 31, 2021

Number:	6569SS	Scenario:	Main
Title:	Infrastructure Modelling 2021 On-going	Project Stage:	Committee of Council Review
Asset Type:	Asset Improvement and Maintenance (Water and Wastewater)	Strategic Plans:	Master Plans
Division:	Capital - Sewer	Project Type:	
Budget Year:	2021	Active:	Yes

Description	Comments
The project involves the engineering services for preparation and maintenance of a model for the City's underground infrastructure (sewers and water mains).	<p>Infrastructure models can be used to analyze the capacity of the existing systems, analyze the impacts and feasibility of expanding the system, or help identify improvements and potential efficiencies.</p> <p>The models will assist with development review in identifying system capacities and issues for new development and redevelopment.</p> <p>The City has a base water distribution model that was established in the early 2000's. The model has been utilized numerous times for planning and analyzing changes to the distribution system.</p> <p>For the storm system, the model will also help with the identification of overland flow routes from major storms (i.e. when the sewer systems is full and stormwater flows over the surface). The model will also help with the preparation of Infill Development/Subwatershed Rehabilitation Plans, which may be necessary in some existing developed areas of the City to assist with planning of stormwater management on a regional basis rather than a site by site basis.</p> <p>Once established, all of the models will need to be maintained on a regular basis for changes in the systems.</p> <p>Related project includes 6569ST/WS.</p>

Scenario Description	Scenario Comments

Forecast	Project Detailed 2021																				
<table border="1"> <thead> <tr> <th>Budget Year</th> <th>Total Expense</th> <th>Total Revenue</th> <th>Difference</th> </tr> </thead> <tbody> <tr> <td>2025</td> <td>10,000</td> <td>10,000</td> <td>0</td> </tr> <tr> <td>2029</td> <td>10,000</td> <td>10,000</td> <td>0</td> </tr> <tr> <td></td> <td>20,000</td> <td>20,000</td> <td>0</td> </tr> <tr> <td colspan="2">LTD Amount: 0</td> <td colspan="2">Total Project Cost: 20,000</td> </tr> </tbody> </table>	Budget Year	Total Expense	Total Revenue	Difference	2025	10,000	10,000	0	2029	10,000	10,000	0		20,000	20,000	0	LTD Amount: 0		Total Project Cost: 20,000		
Budget Year	Total Expense	Total Revenue	Difference																		
2025	10,000	10,000	0																		
2029	10,000	10,000	0																		
	20,000	20,000	0																		
LTD Amount: 0		Total Project Cost: 20,000																			

Related Projects	Operating Impacts

Year Identified	Start Date	Useful Life	Manager	Completion Date
2021	Jan 1, 2021	N/A	Adam Lacombe	Dec 31, 2021

Number:	6569ST	Scenario:	Main
Title:	Infrastructure Modelling 2021 On-going	Project Stage:	Committee of Council Review
Asset Type:	Asset Improvement and Maintenance (General)	Strategic Plans:	Master Plans
Division:	Capital - Infrastructure & Operations	Project Type:	
Budget Year:	2021	Active:	Yes

Description	Comments
The project involves the engineering services for preparation and maintenance of a model for the City's underground infrastructure (sewers and water mains).	<p>Infrastructure models can be used to analyze the capacity of the existing systems, analyze the impacts and feasibility of expanding the system, or help identify improvements and potential efficiencies.</p> <p>The models will assist with development review in identifying system capacities and issues for new development and redevelopment.</p> <p>The City has a base water distribution model that was established in the early 2000's. The model has been utilized numerous times for planning and analyzing changes to the distribution system.</p> <p>For the storm system, the model will also help with the identification of overland flow routes from major storms (i.e. when the sewer systems is full and stormwater flows over the surface). The model will also help with the preparation of Infill Development/Subwatershed Rehabilitation Plans, which may be necessary in some existing developed areas of the City to assist with planning of stormwater management on a regional basis rather than a site by site basis.</p> <p>Once established, all of the models will need to be maintained on a regular basis for changes in the systems.</p> <p>Related project includes 6569SS/WS.</p>

Scenario Description	Scenario Comments

Forecast				Project Detailed 2021		
Budget Year	Total Expense	Total Revenue	Difference	GL Account	Description	Total Amount
2021	100,000	100,000	0	Expense		
2025	10,000	10,000	0	3117	DESIGN FEES	98,000
2029	10,000	10,000	0	7010	ADMINISTRATON & OVERHEAD	2,000
	120,000	120,000	0		Total Expense:	100,000
LTD Amount: 0		Total Project Cost: 120,000		Revenue		
				0461	TSF FRM REV FUND-PAYGO	100,000
					Total Revenue:	100,000

Related Projects			Operating Impacts	
Year Identified	Start Date	Useful Life	Manager	Completion Date
2021	Jan 1, 2021	N/A	Adam Lacombe	Dec 31, 2021

Number:	6569WS	Scenario:	Main
Title:	Infrastructure Modelling 2021 On-going	Project Stage:	Committee of Council Review
Asset Type:	Asset Improvement and Maintenance (Water and Wastewater)	Strategic Plans:	Master Plans
Division:	Capital - Water	Project Type:	
Budget Year:	2021	Active:	Yes

Description				Comments		
The project involves the engineering services for preparation and maintenance of a model for the City's underground infrastructure (sewers and water mains).				<p>Infrastructure models can be used to analyze the capacity of the existing systems, analyze the impacts and feasibility of expanding the system, or help identify improvements and potential efficiencies.</p> <p>The models will assist with development review in identifying system capacities and issues for new development and redevelopment.</p> <p>The City has a base water distribution model that was established in the early 2000's. The model has been utilized numerous times for planning and analyzing changes to the distribution system.</p> <p>For the storm system, the model will also help with the identification of overland flow routes from major storms (i.e. when the sewer systems is full and stormwater flows over the surface). The model will also help with the preparation of Infill Development/Subwatershed Rehabilitation Plans, which may be necessary in some existing developed areas of the City to assist with planning of stormwater management on a regional basis rather than a site by site basis.</p> <p>Once established, all of the models will need to be maintained on a regular basis for changes in the systems.</p> <p>Related projects include 6569ST/SS.</p>		
Scenario Description				Scenario Comments		
Forecast				Project Detailed 2021		
Budget Year	Total Expense	Total Revenue	Difference	GL Account	Description	Total Amount
2021	50,000	50,000	0	Expense		
2022	5,000	5,000	0	3117	DESIGN FEES	49,000
2023	5,000	5,000	0	7010	ADMINISTRATON & OVERHEAD	1,000
2024	5,000	5,000	0			
2025	5,000	5,000	0			
2026	5,000	5,000	0			
2027	5,000	5,000	0			
2028	5,000	5,000	0			
2029	5,000	5,000	0			
2030	5,000	5,000	0			
	95,000	95,000	0			
LTD Amount: 0				Total Project Cost: 95,000		
Related Projects				Operating Impacts		
Year Identified	Start Date	Useful Life		Manager		Completion Date
2021	Jan 1, 2021	N/A		Adam Lacombe		Dec 31, 2021

Number:	6570MR	Scenario:	Main
Title:	King's Landing and Marina Rehab Program 2021 On-going	Project Stage:	Committee of Council Review
Asset Type:	Asset Improvement and Maintenance (General)	Strategic Plans:	Infrastructure / Sustainability
Division:	Capital - Infrastructure & Operations	Project Type:	
Budget Year:	2021	Active:	Yes

Description	Comments
The program provides for the rehabilitation of King's Landing and the Marina's buildings and appurtenances.	In 2021, the project will fund additional floating kayak rental racks and entrance gate renewal. The budget forecasts currently exclude repair and maintenance costs related to King's Landing as required budget dollars are in project 3518PR.

Scenario Description	Scenario Comments
	The following details support the Capital Forecast for 2022 to 2030: 2022 North marina dredging // general rehab 2023 Gas dock sheet piling // general rehab 2024 Fuel tank replace // fuel dispenser replace 2025 General rehab 2026 Break wall dock 2027 Boat slip repairs 2028 Launch ramp repairs 2029 to 2030 General rehab

Forecast	Project Detailed 2021																																																																								
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Related Projects	Operating Impacts

Year Identified	Start Date	Useful Life	Manager	Completion Date
2021	Jan 1, 2021	TBD	David Jackowski	Dec 31, 2021

Number:	6572RF	Scenario:	Main
Title:	Memorial Gardens Rehab 2021 On-going	Project Stage:	Committee of Council Review
Asset Type:	Asset Improvement and Maintenance (General)	Strategic Plans:	Infrastructure / Sustainability, Maintenance
Division:	Capital - Community Services	Project Type:	
Budget Year:	2021	Active:	Yes

Description	Comments
The program provides for continued rehabilitation plant and property improvements for Memorial Gardens Arena per Industry Best Practices as well as operational and programming requirements.	In 2021, the program includes the replacement of the roof over the east washrooms, modernization of reception, structural integrity report and various building upgrades.

Scenario Description	Scenario Comments
	The following details support the Capital Forecast for 2022 to 2030: 2022 Plexiglas // storage addition // ice plant quinquennial maintenance 2023 Condenser // chiller replacement 2024 Lighting // public washroom upgrades 2025 Main lobby floor refinishing 2026 BAS upgrades // plexiglas // general rehabilitation 2027 Compressors and motors 2028 HVAC unit renewals // general rehabilitation 2029 General rehabilitation 2030 General rehabilitation

Forecast	Project Detailed 2021																																																																												
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Related Projects	Operating Impacts			
Year Identified	Start Date	Useful Life	Manager	Completion Date
2021	Jan 1, 2021	20 Years	David Jackowski	Dec 31, 2021

Number:	6573AT	Scenario:	Main
Title:	North Bay Jack Garland Airport 2021 On-going	Project Stage:	Committee of Council Review
Asset Type:	Asset Improvement and Maintenance (General)	Strategic Plans:	Infrastructure / Sustainability
Division:	Capital - Service Partners	Project Type:	
Budget Year:	2021	Active:	Yes

Description	Comments
The project is designed to provide for on-going repairs and maintenance at the Jack Garland Airport. The airport prepares a Capital Plan which indicates the total estimated costs and the amount of funding that is required by the City.	This budget represents only the portion that is funded by the City. The 2021 Airport Plan includes rehabilitation to Aprons surfaces and replacement of IT Systems (hardware & software).

Scenario Description	Scenario Comments
	The following details support the Capital Forecast for 2022 to 2030: 2022 Cement repairs to Apron 1 // Apron 2 rehab // administration building entrance and parking repairs 2023 Boilers and controls ATB replacement // excavator and brush head // administration building roof replacement 2024 Vehicle and equipment replacements // runway approach light replacement // accessibility lift at administration building 2025 Runway drainage replacement // runway resurfacing 2026 Garage door replacement // window replacement at the administration building 2027 Lights replacements // Foxtrot and Golf rehabilitation 2028 Administration building air handling and air conditioning units // vehicle and equipment replacement 2029 Purchase farm tractor and bush hog // replace light vehicle 53-2019 // repair terminal roof 2030 Replace holder tractor // replace light vehicle 53-0019 // replace paint machine // replace air fan // emergency repairs

Forecast	Project Detailed 2021																																																																												
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Related Projects	Operating Impacts			
Year Identified	Start Date	Useful Life	Manager	Completion Date
2021	Jan 1, 2021	25 Years	John Severino	Dec 31, 2021

Number:	6574CA	Scenario:	Main
Title:	North Bay Mattawa Conservation Authority 2021 On-going	Project Stage:	Committee of Council Review
Asset Type:	Asset Improvement and Maintenance (General)	Strategic Plans:	Maintenance
Division:	Capital - Service Partners	Project Type:	
Budget Year:	2021	Active:	Yes

Description	Comments
The project provides for an on-going program of capital works undertaken by the North Bay Mattawa Conservation Authority (CA).	<p>CA Lands /Trails - Activities in support of public access and use of CA owned properties including such things as trails, boardwalks, bridges, picnic tables, buildings, washrooms, signage, parking lots and roads. This also includes costs for the upkeep of the ski hill fixed assets.</p> <p>Watershed and Erosion Control Infrastructure - Activities to support major maintenance and capital improvements or repair to water and erosion control structures.</p> <p>Central Services - Capital or major maintenance in support of workshops, buildings, large vehicles and other types of structures or equipment required as part of the overall CA program.</p> <p>Integrated Watershed Management - Planning, technical studies and monitoring activities to determine types of hazard or natural heritage lands that the CA is responsible for managing or regulating including floodplain mapping, and watershed planning projects.</p> <p>Section 28 Regulations - Expenses related to the implementation of the Section 28 regulations of the CA.</p>

Scenario Description	Scenario Comments

Forecast				Project Detailed 2021		
Budget Year	Total Expense	Total Revenue	Difference	GL Account	Description	Total Amount
2021	992,362	992,362	0			
2022	1,012,167	1,012,167	0	6067	CONSERVATION AUTHORITY	972,904
2023	1,008,951	1,008,951	0	7010	ADMINISTRATON & OVERHEAD	19,458
2024	1,021,129	1,021,129	0			
2025	1,034,411	1,034,411	0			
2026	1,046,249	1,046,249	0			
2027	1,059,047	1,059,047	0			
2028	1,066,372	1,066,372	0			
2029	1,076,079	1,076,079	0			
2030	1,086,574	1,086,574	0			
	10,403,341	10,403,341	0			
LTD Amount: 0		Total Project Cost: 10,403,341				

Related Projects	Operating Impacts

Year Identified	Start Date	Useful Life	Manager	Completion Date
2021	Jan 1, 2021	N/A	Margaret Karpenko	Dec 31, 2021

Number:	6575PD	Scenario:	Main
Title:	North Bay Police Services 2021 On-going	Project Stage:	Committee of Council Review
Asset Type:	Asset Improvement and Maintenance (General)	Strategic Plans:	Infrastructure / Sustainability, Technology,...
Division:	Capital - Service Partners	Project Type:	
Budget Year:	2021	Active:	Yes

Description	Comments
The project provides for an on-going program of vehicle replacement and other capital programs.	The 2021 program includes vehicle replacements and upfitting, 911 phone upgrades, body worn video/ in-vehicle video, building repairs and maintenance, recording system replacement, taser X7 Axon, and other technology upgrades per strategic plan.

Scenario Description	Scenario Comments
	The following details support the Capital Forecast for 2022 to 2030: 2022 Building repairs, body worn video/in-vehicle video, vehicle replacements and upfitting, 911 and technology upgrades, 9mm pistol transition 2023 Vehicle replacements and upfitting, radio system replacement, and technology replacements 2023 to 2030 Vehicle replacements and upfitting, CEW replacements, radio system replacement and technology upgrades

Forecast	Project Detailed 2021																																																																																											
<table border="1"> <thead> <tr> <th>Budget Year</th> <th>Total Expense</th> <th>Total Revenue</th> <th>Difference</th> </tr> </thead> <tbody> <tr><td>2021</td><td>2,126,700</td><td>2,126,700</td><td>0</td></tr> <tr><td>2022</td><td>2,050,200</td><td>2,050,200</td><td>0</td></tr> <tr><td>2023</td><td>827,220</td><td>827,220</td><td>0</td></tr> <tr><td>2024</td><td>861,900</td><td>861,900</td><td>0</td></tr> <tr><td>2025</td><td>887,400</td><td>887,400</td><td>0</td></tr> <tr><td>2026</td><td>852,720</td><td>852,720</td><td>0</td></tr> <tr><td>2027</td><td>887,400</td><td>887,400</td><td>0</td></tr> <tr><td>2028</td><td>810,900</td><td>810,900</td><td>0</td></tr> <tr><td>2029</td><td>776,220</td><td>776,220</td><td>0</td></tr> <tr><td>2030</td><td>776,220</td><td>776,220</td><td>0</td></tr> <tr> <td>LTD Amount: 0</td> <td>10,856,880</td> <td>10,856,880</td> <td>0</td> </tr> <tr> <td colspan="4">Total Project Cost: 10,856,880</td> </tr> </tbody> </table>	Budget Year	Total Expense	Total Revenue	Difference	2021	2,126,700	2,126,700	0	2022	2,050,200	2,050,200	0	2023	827,220	827,220	0	2024	861,900	861,900	0	2025	887,400	887,400	0	2026	852,720	852,720	0	2027	887,400	887,400	0	2028	810,900	810,900	0	2029	776,220	776,220	0	2030	776,220	776,220	0	LTD Amount: 0	10,856,880	10,856,880	0	Total Project Cost: 10,856,880				<table border="1"> <thead> <tr> <th>GL Account</th> <th>Description</th> <th>Total Amount</th> </tr> </thead> <tbody> <tr> <td colspan="3">Expense</td> </tr> <tr> <td>3305</td> <td>BUILDING MAINTENANCE</td> <td>1,150,000</td> </tr> <tr> <td>5010</td> <td>MACHINERY & EQUIPMENT</td> <td>300,000</td> </tr> <tr> <td>5025</td> <td>VEHICLES</td> <td>300,000</td> </tr> <tr> <td>5030</td> <td>COMPUTER H/WARE & S/WARE</td> <td>235,000</td> </tr> <tr> <td>5039</td> <td>TELEPHONY</td> <td>100,000</td> </tr> <tr> <td>7010</td> <td>ADMINISTRATON & OVERHEAD</td> <td>41,700</td> </tr> <tr> <td colspan="2">Total Expense:</td> <td>2,126,700</td> </tr> <tr> <td colspan="3">Revenue</td> </tr> <tr> <td>0284</td> <td>DEVELOPMENT CHARGES</td> <td>150,000</td> </tr> <tr> <td>0461</td> <td>TSF FRM REV FUND-PAYGO</td> <td>1,976,700</td> </tr> <tr> <td colspan="2">Total Revenue:</td> <td>2,126,700</td> </tr> </tbody> </table>	GL Account	Description	Total Amount	Expense			3305	BUILDING MAINTENANCE	1,150,000	5010	MACHINERY & EQUIPMENT	300,000	5025	VEHICLES	300,000	5030	COMPUTER H/WARE & S/WARE	235,000	5039	TELEPHONY	100,000	7010	ADMINISTRATON & OVERHEAD	41,700	Total Expense:		2,126,700	Revenue			0284	DEVELOPMENT CHARGES	150,000	0461	TSF FRM REV FUND-PAYGO	1,976,700	Total Revenue:		2,126,700
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Related Projects	Operating Impacts

Year Identified	Start Date	Useful Life	Manager	Completion Date
2021	Jan 1, 2021	TBD	Gerald Lalande	Dec 31, 2021

Number:	6576LB	Scenario:	Main
Title:	North Bay Public Library 2021 On-going	Project Stage:	Committee of Council Review
Asset Type:	Asset Improvement and Maintenance (General)	Strategic Plans:	Maintenance, Technology
Division:	Capital - Service Partners	Project Type:	
Budget Year:	2021	Active:	Yes

Description	Comments
The project provides for an on-going program of repairs, maintenance and other capital needs at the North Bay Public Library.	The 2021 program includes the rehabilitation of the front library entrance walkway and steps, renovation of mezzanine teen/ program space, new security camera installations, and renovation of auditorium and boardroom public spaces.

Scenario Description	Scenario Comments
	The following details support the Capital Forecast for 2022 to 2030: 2022 Replacement of website, replacement of analogue library exterior information panel with multimedia digital panel, and replacement and enhancement of infrastructure, general maintenance, software/hardware replacement 2023 and 2024 Installation of new elevator, staircase and renovation of audio-visual department, upgrades to code re: AODA, building and electrical, general maintenance and painting 2025 to 2030 Review, replacement and enhancement of infrastructure, general maintenance and software/hardware replacements

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Related Projects	Operating Impacts

Year Identified	Start Date	Useful Life	Manager	Completion Date
2021	Jan 1, 2021	TBD	Ravil Veli	Dec 31, 2021

Number:	6577RF	Scenario:	Main
Title:	Omischl Sports Complex Rehab Program 2021 On-going	Project Stage:	Committee of Council Review
Asset Type:	Asset Improvement and Maintenance (General)	Strategic Plans:	Infrastructure / Sustainability, Maintenance
Division:	Capital - Community Services	Project Type:	
Budget Year:	2021	Active:	Yes

Description	Comments
The program provides for the rehabilitation of the Omischl Sports Field Complex to maintain safe playing areas for the public per operational and programming needs.	In 2021 this ongoing project will fund fencing, landscaping, irrigation and general rehabilitation.

Scenario Description	Scenario Comments
	The following details support the Capital Forecast for 2022 to 2030: 2022 Turf, infield, fencing, landscaping, irrigation rehab // general rehabilitation 2023 Turf, infield, fencing, landscaping, irrigation rehab // general rehabilitation 2024 Turf, infield, fencing, landscaping, irrigation rehab // general rehabilitation 2025 to 2030 Turf, infield, fencing, landscaping, irrigation rehab // general rehabilitation

Forecast	Project Detailed 2021																																																																												
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Related Projects	Operating Impacts			
Year Identified	Start Date	Useful Life	Manager	Completion Date
2021	Jan 1, 2021	20 Years	David Schroeder	Dec 31, 2021

Number:	6578PK	Scenario:	Main
Title:	Parking Equipment Program 2021 On-going	Project Stage:	Committee of Council Review
Asset Type:	Asset Improvement and Maintenance (General)	Strategic Plans:	Equipment Replacement
Division:	Capital - Infrastructure & Operations	Project Type:	
Budget Year:	2021	Active:	Yes

Description		Comments	
The project provides for the purchase of parking equipment such as parking meters, Pay and Display machines and maintenance equipment to support parking operations.		In 2022, the program includes the continuation of the pay and display replacement program and the installation of additional pay and displays in areas with identified need.	

Scenario Description		Scenario Comments	
		The following details support the Capital Forecast for 2022 to 2030: 2022 Pay and display replacement and the installation of additional pay and display equipment 2025 Pay and display replacement and parking maintenance equipment 2028 Pay and display replacement and parking maintenance equipment	

Forecast		Project Detailed 2021	
Budget Year	Total Expense	Total Revenue	Difference
2022	125,000	125,000	0
2025	125,000	125,000	0
2028	125,000	125,000	0
	375,000	375,000	0
LTD Amount: 0		Total Project Cost: 375,000	

Related Projects		Operating Impacts	

Year Identified	Start Date	Useful Life	Manager	Completion Date
2021	Jan 1, 2021	5 to 15 Years	David Jackowski	Dec 31, 2021

Number:	6579PK	Scenario:	Main
Title:	Parking Lot Maintenance and Improvement Program 2021 On-going	Project Stage:	Committee of Council Review
Asset Type:	Asset Improvement and Maintenance (General)	Strategic Plans:	Infrastructure / Sustainability, Maintenance
Division:	Capital - Infrastructure & Operations	Project Type:	
Budget Year:	2021	Active:	Yes

Description	Comments
The project is to provide for the on-going improvements and maintenance of parking lots and facilities including lighting, asphalt replacement, drainage, etc.	The program includes on-going maintenance of all surface lots and the parking garage. Improvements to surface lots include items such as the rehabilitation and maintenance of asphalt surfaces, guardrails, lighting and storm water systems. Improvements to the parking garage include items such as asphalt and waterproofing membrane surface maintenance, concrete structural maintenance, water drainage systems, lighting, stairwell maintenance and painting.

Scenario Description	Scenario Comments

Forecast	Project Detailed 2021																																																																												
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Related Projects	Operating Impacts			
Year Identified	Start Date	Useful Life	Manager	Completion Date
2021	Jan 1, 2021	TBD	Bruce Robertson	Dec 31, 2021

Number:	6580PR	Scenario:	Main
Title:	Parks and Playground Rehab Program 2021 On-going	Project Stage:	Committee of Council Review
Asset Type:	Asset Improvement and Maintenance (General)	Strategic Plans:	Infrastructure / Sustainability, Maintenance
Division:	Capital - Community Services	Project Type:	
Budget Year:	2021	Active:	Yes

Description	Comments
The program provides for the rehabilitation of the City's parks and playgrounds to meet current standards and programming requirements, and provides for the management and preservation of the natural environment (i.e. tree planting).	In 2021 the ongoing rehab program includes a playground replacement, park rehabilitation, tree planting and general rehabilitation.

Scenario Description	Scenario Comments
	The following details support the Capital Forecast for 2022 to 2030: 2022 Park rehab // tree planting // general rehab // Veronica playground replacement 2023 Park rehab // tree planting // general rehab // Feronia playground replacement 2024 Park rehab // tree planting // general rehab // Circle Lake playground replacement 2025 Park rehab // tree planting // general rehab // Belleview playground replacement 2026 Park rehab // tree planting // general rehab // Superior playground replacement 2027 Park rehab // tree planting // general rehab // West Ferris playground replacement 2028 Park rehab // tree planting // general rehab // Kinnette & Greenhill playground replacement 2029 Park rehab // tree planting // general rehab // Pump House playground rehab 2030 Park rehab // tree planting // general rehab

Forecast	Project Detailed 2021																																																																															
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Year Identified	Start Date	Useful Life	Manager	Completion Date
2021	Jan 1, 2021	TBD	David Schroeder	Dec 31, 2021

Number:	6582PR	Scenario:	Main
Title:	Parks Equipment Replacement Program 2021 On-going	Project Stage:	Committee of Council Review
Asset Type:	Asset Improvement and Maintenance (General)	Strategic Plans:	Equipment Replacement
Division:	Capital - Community Services	Project Type:	
Budget Year:	2021	Active:	Yes

Description	Comments
The program provides for the Parks Department equipment replacement that do not form part of the Fleet Management System.	The program ensures that reliable equipment is available to assist the Department's maintenance and programming demands. In 2021 this ongoing program includes the purchase of a leveller tractor attachment and other small equipment.

Scenario Description	Scenario Comments
	The following details support the Capital Forecast for 2022 to 2030: 2022 Rototiller for tractor // small equipment 2023 Sweeper for tractor // small equipment 2024 to 2030 Equipment purchases based on parks equipment replacement schedule with input from Fleet Management

Forecast	Project Detailed 2021																																																																												
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Year Identified	Start Date	Useful Life	Manager	Completion Date
2021	Jan 1, 2021	TBD	David Schroeder	Dec 31, 2021

Number:	6583RD	Scenario:	Main
Title:	Pedestrian Safety Program 2021 On-going	Project Stage:	Committee of Council Review
Asset Type:	Asset Improvement and Maintenance (General)	Strategic Plans:	Growth / Economic Development,...
Division:	Capital - Infrastructure & Operations	Project Type:	
Budget Year:	2021	Active:	Yes

Description	Comments
The project provides for an on-going capital program for the replacement of deteriorated sidewalks and the addition of new sidewalks and other safety facilities, such as pedestrian activated signals and count down pedestrian heads.	<p>The project will assist the City to maintain compliance with the Accessibility Act and maintain compliance with the Minimum Maintenance Standards of Ontario.</p> <p>Funds from this project are utilized to complete the annual sidewalk inspection and installation of new sidewalks to enhance pedestrian safety in areas where none previously existed.</p> <p>The 2021 program will include the installation of new sidewalks on Glenwood Ave. to enhance public safety around the recently constructed Pinewood School.</p> <p>Related Project 6559ST.</p>

Scenario Description	Scenario Comments

Forecast	Project Detailed 2021																																																																												
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Related Projects	Operating Impacts			
Year Identified	Start Date	Useful Life	Manager	Completion Date
2021	Jan 1, 2021	50 Years	Domenic Schiavone	Dec 31, 2021

Number:	6584RF	Scenario:	Main
Title:	Pete Palangio Rehab Program 2021 On-going	Project Stage:	Committee of Council Review
Asset Type:	Asset Improvement and Maintenance (General)	Strategic Plans:	Infrastructure / Sustainability, Maintenance
Division:	Capital - Community Services	Project Type:	
Budget Year:	2021	Active:	Yes

Description	Comments
The program provides for continued plant and property improvements for the Pete Palangio Arena (PP) as per Industry Accepted Practices and Processes as well as operational and programming requirements.	In 2021, the project will include a renewal of the refrigeration plant equipment and a structural integrity report.

Scenario Description	Scenario Comments
	The following details support the Capital Forecast for 2022 to 2030: 2021 Ice plant chiller and super heater // structural integrity report 2022 Electrical system rejuvenation // exterior renos 2023 Board replacement // subfloor system renewal 2024 Base building renovations (office areas) // lift replacement 2025 Score clocks // sound systems 2026 Structural integrity report // accessibility improvements 2027 HVAC asset renewals 2028 Base building updates (conference room, lunch room) // change room renewal 2029 Base building renovations 2030 Condenser replacement

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Related Projects	Operating Impacts			
Year Identified	Start Date	Useful Life	Manager	Completion Date
2021	Jan 1, 2021	TBD	David Jackowski	Dec 31, 2021

Number:	6585RD	Scenario:	Main
Title:	Public Works Building Maintenance 2021 On-going	Project Stage:	Committee of Council Review
Asset Type:	Asset Improvement and Maintenance (General)	Strategic Plans:	Maintenance
Division:	Capital - Infrastructure & Operations	Project Type:	
Budget Year:	2021	Active:	Yes

Description	Comments
This project is to address emergency repairs and replacements to the public works facilities.	Related project includes 6585WS.

Scenario Description	Scenario Comments

Forecast	Project Detailed 2021																																																																												
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Related Projects	Operating Impacts			
Year Identified	Start Date	Useful Life	Manager	Completion Date
2021	Jan 1, 2021	TBD	Domenic Schiavone	Dec 31, 2021

Number:	6585WS	Scenario:	Main
Title:	Public Works Building Maintenance 2021 On-going	Project Stage:	Committee of Council Review
Asset Type:	Asset Improvement and Maintenance (Water and Wastewater)	Strategic Plans:	Maintenance
Division:	Capital - Water	Project Type:	
Budget Year:	2021	Active:	Yes

Description	Comments
This project is to address emergency repairs and replacements to the public works facilities.	In 2021, the project will address general repairs required to the public works facilities. Related project includes 6585RD.

Scenario Description	Scenario Comments

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Related Projects	Operating Impacts			
Year Identified	Start Date	Useful Life	Manager	Completion Date
2021	Jan 1, 2021	TBD	Domenic Schiavone	Dec 31, 2021

Number:	6586RF	Scenario:	Main
Title:	Recreation Facilities Rehab and Development 2021 On-going	Project Stage:	Committee of Council Review
Asset Type:	Asset Improvement and Maintenance (General)	Strategic Plans:	Infrastructure / Sustainability, Maintenance
Division:	Capital - Community Services	Project Type:	
Budget Year:	2021	Active:	Yes

Description	Comments
The program provides for the rehabilitation of the outdoor sport facilities to maintain safe playing areas for the public and for the development of recreation facilities based on programming needs and future recreation trends.	Future years recreation facilities development capital projects will be determined using the City's Official Plan and the pending Parks Master Plan. In 2021 this program includes turf, infield, irrigation, fencing and general rehabilitation.

Scenario Description	Scenario Comments
	The following details support the Capital Forecast for 2022 to 2030: 2022 General rehab // design for next years field reno and lighting upgrade 2023 General rehab // field reno and lighting upgrade // 2024 lighting design 2024 General rehab // field reno and lighting upgrade // 2025 lighting design 2025 to 2030 Field lighting replacements // field renos // turf rehab program // infield renovation program // fencing // general rehab

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Related Projects	Operating Impacts

Year Identified	Start Date	Useful Life	Manager	Completion Date
2021	Jan 1, 2021	TBD	David Schroeder	Dec 31, 2021

Number:	6587RD	Scenario:	Main
Title:	Road Culvert Replace/Rehab 2021 On-going	Project Stage:	Committee of Council Review
Asset Type:	Asset Improvement and Maintenance (General)	Strategic Plans:	Infrastructure / Sustainability, Maintenance
Division:	Capital - Infrastructure & Operations	Project Type:	
Budget Year:	2021	Active:	Yes

Description	Comments
The project is on-going and designed to provide for replacement and rehabilitation of culverts located along rural roadways where no other drainage system is in place. It is essential for maintaining and extending the life cycle of our rural roadways. The project also works in conjunction with the Rural Road Rehabilitation program.	The 2021 program will complete the wooden box culvert replacements on Carmichael Dr.

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Related Projects	Operating Impacts			
Year Identified	Start Date	Useful Life	Manager	Completion Date
2021	Jan 1, 2021	25 Years	Domenic Schiavone	Dec 31, 2021

Number:	6588RD	Scenario:	Main
Title:	Rural Road Rehab 2021 On-going	Project Stage:	Committee of Council Review
Asset Type:	Asset Improvement and Maintenance (General)	Strategic Plans:	Infrastructure / Sustainability, Maintenance
Division:	Capital - Infrastructure & Operations	Project Type:	
Budget Year:	2021	Active:	Yes

Description	Comments
The project provides for the on-going reconstruction, repair, and resurfacing of our rural roads. It also involves the crushing of stockpiled waste asphalt for use in the resurfacing process.	This project will be used for crack sealing of Riverbend Rd., Tower Dr., Four Mile Lake Rd. and Chadbourne Dr. which were all re-surfaced in the last 5 years. Crack sealing is required to ensure that minor deficiencies are corrected and ensure optimum lifecycle of the asphalt is achieved.

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Related Projects	Operating Impacts

Year Identified	Start Date	Useful Life	Manager	Completion Date
2021	Jan 1, 2021	25 Years	Domenic Schiavone	Dec 31, 2021

Number:	6589SS	Scenario:	Main
Title:	Sewage Lift Stations 2021 On-going	Project Stage:	Committee of Council Review
Asset Type:	Asset Improvement and Maintenance (Water and Wastewater)	Strategic Plans:	Infrastructure / Sustainability, Maintenance,...
Division:	Capital - Sewer	Project Type:	
Budget Year:	2021	Active:	Yes

Description	Comments
The project provides for an on-going program for emergency repairs and replacements at the sewage lift stations. Minor improvements to systems are also funded from this project.	The City owns and operates 19 sewage lift stations. Annually it is not uncommon to experience failures in pumps, generators or other critical appurtenances that are not budgeted for with operational dollars. This project is used to cover such emergency failures.

Scenario Description	Scenario Comments

Forecast	Project Detailed 2021																																																																												
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Related Projects	Operating Impacts			
Year Identified	Start Date	Useful Life	Manager	Completion Date
2021	Jan 1, 2021	10 to 15 Years	Domenic Schiavone	Dec 31, 2021

Number:	6590SS	Scenario:	Main
Title:	Sewage Lift Stations PLC and Radio Upgrades 2021 On-going	Project Stage:	Committee of Council Review
Asset Type:	Asset Improvement and Maintenance (Water and Wastewater)	Strategic Plans:	Infrastructure / Sustainability, Maintenance,...
Division:	Capital - Sewer	Project Type:	
Budget Year:	2021	Active:	Yes

Description	Comments
This project includes PLC and radio upgrades at the 18 sewage lift stations operated by the City.	All 19 existing lift stations at the City require upgrades to controls and radios. This program provides funding to replace a system each year.

Scenario Description	Scenario Comments

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Related Projects	Operating Impacts			
Year Identified	Start Date	Useful Life	Manager	Completion Date
2021	Jan 1, 2021	10 to 15 Years	Karin Pratte	Dec 31, 2021

Number:	6592SS	Scenario:	Main
Title:	Sewer Rehab and Restoration 2021 On-going	Project Stage:	Committee of Council Review
Asset Type:	Asset Improvement and Maintenance (Water and Wastewater)	Strategic Plans:	Infrastructure / Sustainability
Division:	Capital - Sewer	Project Type:	
Budget Year:	2021	Active:	Yes

Description	Comments
<p>This project provides for the rehabilitation and restoration of deficiencies in the sanitary sewer system.</p> <p>It will reduce infiltration and excessive loading of ground water into our sanitary sewer system. Work is completed by city staff and equipment.</p>	The 2021 program will include restoration work to support wastewater on-going projects.

Scenario Description	Scenario Comments

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Related Projects	Operating Impacts			
Year Identified	Start Date	Useful Life	Manager	Completion Date
2021	Jan 1, 2021	50 Years	Domenic Schiavone	Dec 31, 2021

Number:	6593RD	Scenario:	Main
Title:	Sidewalk Replacement Program 2021 On-going	Project Stage:	Committee of Council Review
Asset Type:	Asset Improvement and Maintenance (General)	Strategic Plans:	Infrastructure / Sustainability, Maintenance
Division:	Capital - Infrastructure & Operations	Project Type:	
Budget Year:	2021	Active:	Yes

Description	Comments
The project is on-going and provides for an annual survey of all the City's sidewalks to identify deficiencies as outlined under the Minimum Maintenance Standards of Ontario. Project funds are also used to conduct sidewalk replacement of sections identified in the annual survey and/or patch smaller sections.	A list of sidewalks will be identified once the sidewalk survey is completed in the spring of 2021.

Scenario Description	Scenario Comments

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Related Projects	Operating Impacts

Year Identified	Start Date	Useful Life	Manager	Completion Date
2021	Jan 1, 2021	25 Years	Domenic Schiavone	Dec 31, 2021

Number:	6594ST	Scenario:	Main
Title:	Storm Sewer Flushing and Outfall Maintenance 2021 On-going	Project Stage:	Committee of Council Review
Asset Type:	Asset Improvement and Maintenance (General)	Strategic Plans:	Infrastructure / Sustainability, Maintenance
Division:	Capital - Infrastructure & Operations	Project Type:	
Budget Year:	2021	Active:	Yes

Description	Comments
The project will allow for cleaning and scraping of large diameter storm sewer systems throughout the City as well as upgrading and maintaining the numerous storm sewer outfalls.	The 2021 program will be utilized to clean and pump out catch basins on storm sewers throughout the City to prevent sediment from accumulating in storm mains.

Scenario Description	Scenario Comments

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3425	CONSTRUCTION CONTRACT	77,420																																																																											
7010	ADMINISTRATON & OVERHEAD	1,580																																																																											
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0461	TSF FRM REV FUND-PAYGO	79,000																																																																											
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Related Projects	Operating Impacts			
Year Identified	Start Date	Useful Life	Manager	Completion Date
2021	Jan 1, 2021	25 Years	Domenic Schiavone	Dec 31, 2021

Number:	6595SL	Scenario:	Main
Title:	Street Light Replacement 2021 On-going	Project Stage:	Committee of Council Review
Asset Type:	Asset Improvement and Maintenance (General)	Strategic Plans:	Maintenance
Division:	Capital - Infrastructure & Operations	Project Type:	
Budget Year:	2021	Active:	Yes

Description	Comments
This project provides the replacement of streetlight poles, lights and hardware.	There are over 5,000 streetlights in the City. This project provides funds to purchase replacement lights and hardware as required.

Scenario Description	Scenario Comments

Forecast	Project Detailed 2021																																																																												
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Related Projects	Operating Impacts			
Year Identified	Start Date	Useful Life	Manager	Completion Date
2021	Jan 1, 2021	10 Years	Karin Pratte	Dec 31, 2021

Number:	6596GG	Scenario:	Main
Title:	System Technology Program 2021 On-going	Project Stage:	Committee of Council Review
Asset Type:	Asset Improvement and Maintenance (General)	Strategic Plans:	Technology
Division:	Capital - Corporate Services	Project Type:	
Budget Year:	2021	Active:	Yes

Description	Comments
The project is to provide the information and communication technology for the Corporation's Business Units at City Hall and 20 Remote Site Locations. This includes: computer hardware and software, mobile technology, telephony hardware and software, network infrastructure and security, Geographic Information Systems and network connectivity.	The project provides for implementation and replacements for the system technology utilization by the City based on cycles and annual requirements. In 2021, the program includes the replacement of workstations for \$173,000, information systems including network, data storage and server infrastructure upgrades and replacements for \$175,000, telephony and remote communications for \$30,000, wireless and remote access for \$10,000, printers for \$20,000, Sensitive data destruction for \$1,000, security upgrades and replacements of \$50,000, enhancements of SunGard/Questica/Financial Systems for \$10,000, software licensing for new users of \$50,000, GIS priorities for \$10,000 and department priorities including mobile technology and computer hardware/peripherals for \$30,000.

Scenario Description	Scenario Comments

Forecast	Project Detailed 2021																																																																												
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Related Projects	Operating Impacts			
Year Identified	Start Date	Useful Life	Manager	Completion Date
2021	Jan 1, 2021	4 Years	Stephan Graveline	Dec 31, 2021

Number:	6596WS	Scenario:	Main
Title:	System Technology Program 2021 On-going	Project Stage:	Committee of Council Review
Asset Type:	Asset Improvement and Maintenance (Water and Wastewater)	Strategic Plans:	Technology
Division:	Capital - Water	Project Type:	
Budget Year:	2021	Active:	Yes

Description	Comments
The annual on-going project is to provide funding for the information and communication technology for the Water and Wastewater department. This includes computer hardware and software, telephony hardware and software, network infrastructure and connectivity. In addition other special IS projects related specifically to water and wastewater activities are also funded from this project.	This project represents the technology requirements for the water-related activities. This includes the information and communication technology to support the Water Treatment Plant, Wastewater Treatment Plant and the water networks including the System Control and Data Acquisition (SCADA) for the entire system to meet local, provincial and federal regulations.

Scenario Description	Scenario Comments

Forecast	Project Detailed 2021																																																																												
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Related Projects	Operating Impacts			
Year Identified	Start Date	Useful Life	Manager	Completion Date
2021	Jan 1, 2021	4 Years	Stephan Graveline	Dec 31, 2021

Number:	6597SL	Scenario:	Main
Title:	Traffic Control Signal Upgrade 2021 On-going	Project Stage:	Committee of Council Review
Asset Type:	Asset Improvement and Maintenance (General)	Strategic Plans:	Infrastructure / Sustainability, Technology
Division:	Capital - Infrastructure & Operations	Project Type:	
Budget Year:	2021	Active:	Yes

Description	Comments
The project provides for an on-going program of traffic control signals upgrades throughout the City and is used in conjunction to assist the City in maintaining compliance with the Accessibility Act.	In 2021 the program will continue with traffic cabinet replacements, upgrade additional intersections to utilize detection cameras, upgrade signals to audible systems for accessibility standards and install networking software for a central control system.

Scenario Description	Scenario Comments

Forecast	Project Detailed 2021																																																																												
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Related Projects	Operating Impacts

Year Identified	Start Date	Useful Life	Manager	Completion Date
2021	Jan 1, 2021	25 Years	Domenic Schiavone	Dec 31, 2021

Number:	6598PR	Scenario:	Main
Title:	Trail and Supporting Hard Surfaces Rehab 2021 On-going	Project Stage:	Committee of Council Review
Asset Type:	Asset Improvement and Maintenance (General)	Strategic Plans:	Maintenance
Division:	Capital - Community Services	Project Type:	
Budget Year:	2021	Active:	Yes

Description	Comments
The program provides for the rehabilitation of the 20+ kilometers of multi-use and nature trails, pedestrian bridges, parks pathways, parking lots, service roads, outdoor rink surfaces and boat launches.	In 2021 the ongoing program includes Kate Paceway resurfacing, service road and pathway resurfacing, North Bay Arch restoration and general rehabilitation.

Scenario Description	Scenario Comments
	The following details support the Capital Forecast for 2022 to 2030: 2022 Kate Paceway rehab // hard surface rehab // guide rail replacement // Lee monument restoration // general rehab 2023 Kate Paceway rehab // hard surface rehab // guide rail replacement // outdoor rink rehab // general rehab 2024 Kate Paceway rehab // hard surface rehab // guide rail replacement // outdoor rink rehab // general rehab 2025 to 2030 Kate Paceway rehab // pathways // parking lots // service roads // general rehab

Forecast	Project Detailed 2021																																																																												
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Related Projects	Operating Impacts

Year Identified	Start Date	Useful Life	Manager	Completion Date
2021	Jan 1, 2021	TBD	David Schroeder	Dec 31, 2021

Number:	6599TR	Scenario:	Main
Title:	Transit Buildings Capital Program 2021 On-going	Project Stage:	Committee of Council Review
Asset Type:	Asset Improvement and Maintenance (General)	Strategic Plans:	Infrastructure / Sustainability, Maintenance
Division:	Capital - Infrastructure & Operations	Project Type:	
Budget Year:	2021	Active:	Yes

Description	Comments
This project is for the required annual upgrades and repairs to Transit Terminal, Bus Shelters/Canopies, Bus Barn and Bus Wash Facilities.	In 2021, the project includes repairs to the Transit Terminal, Bus Wash, Bus Barn and Bus Shelters/Canopies.

Scenario Description	Scenario Comments

Forecast	Project Detailed 2021																																																																												
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Related Projects	Operating Impacts			
Year Identified	Start Date	Useful Life	Manager	Completion Date
2021	Jan 1, 2021	TBD	Drew Poeta	Dec 31, 2021

Number:	6600SS	Scenario:	Main
Title:	Wastewater Treatment Plant - Electrical Upgrades 2021 On-going	Project Stage:	Committee of Council Review
Asset Type:	Asset Improvement and Maintenance (Water and Wastewater)	Strategic Plans:	Infrastructure / Sustainability, Maintenance
Division:	Capital - Sewer	Project Type:	
Budget Year:	2021	Active:	Yes

Description		Comments	
The project will provide electrical upgrades to the Wastewater Treatment Plant. Many electrical components have passed their useful life and represent a significant risk to the continuous operation of the facility. The funding provides for materials as well as a staff electrician to work on the projects.		The staff electrician is also working on other capital and operating projects within the water and wastewater system. Typical projects would include replacing and repairing conduits, MCC's, process controls, SCADA, lighting and various electrical components.	

Scenario Description		Scenario Comments	

Forecast				Project Detailed 2021		
Budget Year	Total Expense	Total Revenue	Difference	GL Account	Description	Total Amount
2021	250,000	250,000	0	Expense		
2022	200,000	200,000	0	3425	CONSTRUCTION CONTRACT	245,000
2023	250,000	250,000	0	7010	ADMINISTRATON & OVERHEAD	5,000
2024	250,000	250,000	0	Total Expense:		250,000
2025	250,000	250,000	0	Revenue		
2026	250,000	250,000	0	0461	TSF FRM REV FUND-PAYGO	250,000
2027	250,000	250,000	0	Total Revenue:		250,000
2028	258,000	258,000	0			
2029	260,000	260,000	0			
2030	260,000	260,000	0			
	2,478,000	2,478,000	0			
LTD Amount: 0		Total Project Cost: 2,478,000				

Related Projects			Operating Impacts		
Year Identified	Start Date	Useful Life	Manager		Completion Date
2021	Jan 1, 2021	15 Years	Karin Pratte		Dec 31, 2021

Number:	6601SS	Scenario:	Main
Title:	Wastewater Treatment Plant Exterior Rehab 2021 on-going	Project Stage:	Committee of Council Review
Asset Type:	Asset Improvement and Maintenance (Water and Wastewater)	Strategic Plans:	Infrastructure / Sustainability
Division:	Capital - Sewer	Project Type:	
Budget Year:	2021	Active:	Yes

Description	Comments
Replace fencing, roofs, brick veneer and to perform landscaping upgrades along the Kate Pace Way and the Wastewater Treatment Plant.	This program will rehabilitate and repair the 11 buildings at the Wastewater Treatment Facility. The 2021 program will provide for the completion of the fencing replacement along with brick replacement at the compressor building.

Scenario Description	Scenario Comments
	The following details support the capital forecast for 2022 to 2030: 2022 General building rehabilitation 2023 Brick veneer blower / RAS building 2025 to 2030 General building rehabilitation

Forecast	Project Detailed 2021																																																												
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Related Projects	Operating Impacts			
Year Identified	Start Date	Useful Life	Manager	Completion Date
2021	Jan 1, 2021	TBD	Karin Pratte	Dec 31, 2021

Number:	6602SS	Scenario:	Main
Title:	Wastewater Treatment Plant Rehab 2021 On-going	Project Stage:	Committee of Council Review
Asset Type:	Asset Improvement and Maintenance (Water and Wastewater)	Strategic Plans:	Maintenance
Division:	Capital - Sewer	Project Type:	
Budget Year:	2021	Active:	Yes

Description	Comments
The project provides for an on-going program for emergency repairs at the Wastewater Treatment Plant. Minor improvements to systems are also funded from this project.	This project provides funds to support emergency repairs at the Wastewater Treatment Facility.

Scenario Description	Scenario Comments
	The following details support the capital forecast for 2022 to 2030: 2023 Brick veneer at admin building 2025 to 2030 Various repairs and upgrades

Forecast	Project Detailed 2021																																																								
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Related Projects	Operating Impacts			
Year Identified	Start Date	Useful Life	Manager	Completion Date
2021	Jan 1, 2021	50 Years	Karin Pratte	Dec 31, 2021

Number:	6603WS	Scenario:	Main
Title:	Water Infrastructure Audit 2021 On-going	Project Stage:	Committee of Council Review
Asset Type:	Asset Improvement and Maintenance (Water and Wastewater)	Strategic Plans:	Infrastructure / Sustainability
Division:	Capital - Water	Project Type:	
Budget Year:	2021	Active:	Yes

Description	Comments
The project provides for an on-going inspection and mapping of the City's water distribution system.	This program allows staff to locate and map water shutoffs and valves. This process is essential to fully implement Hansen in Public Works.

Scenario Description	Scenario Comments

Forecast	Project Detailed 2021																																																																												
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GL Account	Description	Total Amount																																																																											
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7010	ADMINISTRATON & OVERHEAD	1,380																																																																											
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0461	TSF FRM REV FUND-PAYGO	69,000																																																																											
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Related Projects	Operating Impacts			
Year Identified	Start Date	Useful Life	Manager	Completion Date
2021	Jan 1, 2021	10 to 20 Years	Domenic Schiavone	Dec 31, 2021

Number:	6604WS	Scenario:	Main
Title:	Water Plant Maintenance 2021 On-going	Project Stage:	Committee of Council Review
Asset Type:	Asset Improvement and Maintenance (Water and Wastewater)	Strategic Plans:	Infrastructure / Sustainability, Maintenance
Division:	Capital - Water	Project Type:	
Budget Year:	2021	Active:	Yes

Description	Comments
The project is to provide for an annual recurring maintenance program to keep the Water Treatment Plant operating within established regulations.	The maintenance requirements on the water facilities have decreased due to the installation of new infrastructure therefore this budget has been reduced to bi-annually.

Scenario Description	Scenario Comments

Forecast	Project Detailed 2021																																																																				
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Related Projects	Operating Impacts

Year Identified	Start Date	Useful Life	Manager	Completion Date
2021	Jan 1, 2021	10 to 20 Years	Karin Pratte	Dec 31, 2021

Number:	6605PR	Scenario:	Main
Title:	Waterfront Rehab Program 2021 On-going	Project Stage:	Committee of Council Review
Asset Type:	Asset Improvement and Maintenance (General)	Strategic Plans:	Infrastructure / Sustainability, Maintenance
Division:	Capital - Community Services	Project Type:	
Budget Year:	2021	Active:	Yes

Description	Comments
The program provides for rehabilitation to the City's Waterfront Park. The program includes park lighting, benches, sidewalks, boardwalks, stairs, parking lots, fencing, irrigation, turf, trees, shrubs and furnishings.	In 2021 the ongoing program includes beach erosion control, shrub bed rehab, tree planting, interlock installation around the volleyball courts at Marathon Beach, furnishings and general rehabilitation.

Scenario Description	Scenario Comments
	The following details support the Capital Forecast for 2022 to 2030: 2022 Shrub bed rehab // tree planting // south sidewalk phase 4 // furnishings // general rehab 2023 Shrub bed rehab // hard surface rehab // furnishings // general rehab 2024 Shrub bed rehab // WF sidewalk reno // furnishings // general rehab 2025 to 2030 Park rehab // hard surface rehab // furnishings // general rehab

Forecast	Project Detailed 2021																																																																												
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Related Projects	Operating Impacts			
Year Identified	Start Date	Useful Life	Manager	Completion Date
2021	Jan 1, 2021	TBD	David Schroeder	Dec 31, 2021

Number:	6606WS	Scenario:	Main
Title:	Watermain Rehab and Restoration 2021 On-going	Project Stage:	Committee of Council Review
Asset Type:	Asset Improvement and Maintenance (Water and Wastewater)	Strategic Plans:	Infrastructure / Sustainability
Division:	Capital - Water	Project Type:	
Budget Year:	2021	Active:	Yes

Description	Comments
The project provides for an on-going looping of dead end watermains and provides a permanent solution for adverse water conditions such as dirty water and low chlorine residual. It will reduce wasting water through continuous flushing. Work is completed by City staff and equipment.	The 2021 program will include restoration work to support water on-going projects.

Scenario Description	Scenario Comments

Forecast	Project Detailed 2021																																												
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LTD Amount: 0		Total Project Cost: 6,623,000																																											

Related Projects	Operating Impacts

Year Identified	Start Date	Useful Life	Manager	Completion Date
2021	Jan 1, 2021	50 Years	Domenic Schiavone	Dec 31, 2021

Number:	6607WS	Scenario:	Main
Title:	Watermain Replace/Ream/Reline 2021 On-going	Project Stage:	Committee of Council Review
Asset Type:	Asset Improvement and Maintenance (Water and Wastewater)	Strategic Plans:	Infrastructure / Sustainability, Maintenance
Division:	Capital - Water	Project Type:	
Budget Year:	2021	Active:	Yes

Description	Comments
The 100 mm and 150 mm watermains are among the oldest pipes in the City's distribution system and have inadequate water supply for fire suppression and are often linked to dirty water because of excessive clogging. This on-going project provides for replacement of 100 mm watermains and replacement or re-lining of 150 mm watermains. This program is completed with City staff and equipment.	The 2021 program will include the continuing upgrades and maintenance to watermains in the City.

Scenario Description	Scenario Comments

Forecast	Project Detailed 2021																																																																												
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Related Projects	Operating Impacts			
Year Identified	Start Date	Useful Life	Manager	Completion Date
2021	Jan 1, 2021	15 to 30 Years	Domenic Schiavone	Dec 31, 2021

Number:	6608RD	Scenario:	Main
Title:	Interlocking Brick Sidewalk & Retaining Wall Replacement 2021 Ongoing	Project Stage:	Committee of Council Review
Asset Type:	Asset Improvement and Maintenance (General)	Strategic Plans:	Infrastructure / Sustainability
Division:	Capital - Infrastructure & Operations	Project Type:	
Budget Year:	2021	Active:	Yes

Description	Comments
This project is for the replacement of failing interlock brick sidewalks and retaining walls throughout the City.	The City has multiple kilometers of interlock brick sidewalk and retaining walls on various roadways including; Algonquin Ave., Fisher St., Oak St., Cassells, and McKeown. Much of this brick and retaining wall is experience pre-mature failure as a result of road salt. This ongoing project will provide funds to remove and replace the worst areas of brick with traditional concrete sidewalk which is more durable.

Scenario Description	Scenario Comments

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Related Projects	Operating Impacts			
Year Identified	Start Date	Useful Life	Manager	Completion Date
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