



**CAPITAL BUDGET 2020**

**CAPITAL FORECAST FOR 2021 TO 2029**

**CAPITAL PROJECT INFORMATION SHEETS**

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CAPITAL FORECAST FOR 2021 TO 2029  
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.

**2020 GENERAL  
CAPITAL BUDGET SUMMARY AND  
CAPITAL FORECAST FOR 2021 TO 2029**

**2020 General Capital Budget and Capital Forecast for 2021 to 2029 by Business Unit**

<b>Project Number/Description</b>	<b>Project Classification</b>	<b>LTD Approved Budget</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>Total</b>	
<b>Community Services</b>														
3508PR - Parks and Playgrounds - New Neighbourhood Parks	R	G	-	-	200,000	-	-	200,000	-	-	200,000	-	-	<b>600,000</b>
3509PZ - Official Plan 5 Year Review and Study Update	R	SI	250,000	100,000	-	-	-	-	-	250,000	-	-	-	<b>600,000</b>
3702PR - Waterfront Building Rehab and Development		G	-	-	-	-	2,000,000	-	-	-	-	-	-	<b>2,000,000</b>
3711RF - City of North Bay Community and Recreation Centre	R	G	1,910,000	4,090,000	12,000,000	12,000,000	-	-	-	-	-	-	-	<b>30,000,000</b>
3718PR - West Link Trail Development	RF	SI	850,000	330,000	-	-	-	-	-	-	-	-	-	<b>1,180,000</b>
3720RF - Pete Palangio Parking Lot Rehab		AIM	110,000	540,000	-	-	-	-	-	-	-	-	-	<b>650,000</b>
3823FD - Fire Master Plan		SI	-	-	-	50,000	-	-	-	-	-	-	-	<b>50,000</b>
3930PR - Active Transportation Projects		SI	430,000	157,500	-	-	-	-	-	-	-	-	-	<b>587,500</b>
3938PR - Olmsted Beach - Boat Launch Replacement		AIM	-	-	-	50,000	550,000	-	-	-	-	-	-	<b>600,000</b>
3941RF - Memorial Gardens - HVAC Upgrades		AIM	30,000	150,000	-	-	-	-	-	-	-	-	-	<b>180,000</b>
3942RF - Omischl Sports Complex - Synthetic Turf Replacement		AIM	-	-	-	600,000	-	-	600,000	-	-	-	-	<b>1,200,000</b>
3943RF - Omischl Sports Complex - Shade Structures Development		AIM	-	100,000	-	-	100,000	-	-	-	-	-	-	<b>200,000</b>
3944RF - Lennox Field and Graham Fields Lighting Upgrades		AIM	-	375,000	-	-	-	-	-	-	-	-	-	<b>375,000</b>
3945RF - Amelia Field Renovation & Lighting Upgrades		AIM	-	25,000	375,000	-	-	-	-	-	-	-	-	<b>400,000</b>
3946RF - Johnson Field Renovation & Lighting Upgrades		AIM	-	-	25,000	375,000	-	-	-	-	-	-	-	<b>400,000</b>
3947PR - Bourke Park Building Replacement		AIM	100,000	-	300,000	-	-	-	-	-	-	-	-	<b>400,000</b>
4012PR - Olmsted Playground Replacement		AIM	-	130,000	-	-	-	-	-	-	-	-	-	<b>130,000</b>
4013FD - Fire Station 1 - Roof Replacement		AIM	-	-	-	124,200	-	-	-	-	-	-	-	<b>124,200</b>

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<b>Community Services</b>														
4014FD - Fire Portable Radio Replacements	AIM	-	191,475	-	-	-	-	-	-	-	-	-	<b>191,475</b>	
6496RF - Pete Palangio Rehab Program 2020 On-going	AIM	-	250,000	250,000	250,000	250,000	150,000	150,000	250,000	250,000	250,000	250,000	<b>2,300,000</b>	
6498PR - Parks Building Rehab Program 2020 On-going	AIM	-	100,000	-	350,000	350,000	250,000	250,000	250,000	250,000	250,000	250,000	<b>2,300,000</b>	
6499RF - Recreation Facilities Rehab and Development 2020 On-going	AIM	-	200,000	250,000	325,000	750,000	750,000	750,000	750,000	750,000	750,000	750,000	<b>6,025,000</b>	
6500RF - Omischl Sports Complex Rehab Program 2020 On-going	AIM	-	56,000	58,000	60,000	62,000	64,000	66,000	68,000	70,000	72,000	75,000	<b>651,000</b>	
6501PR - Parks and Playground Rehab Program 2020 On-going	AIM	-	146,000	284,000	293,000	302,000	311,000	320,000	329,000	338,000	347,000	360,000	<b>3,030,000</b>	
6502PR - Waterfront Rehab Program 2020 On-going	AIM	-	121,000	125,000	129,000	133,000	137,000	141,000	145,000	149,000	153,000	160,000	<b>1,393,000</b>	
6503PR - Central City Rehab Program 2020 On-going	AIM	-	78,000	80,000	82,000	84,000	86,000	88,000	90,000	92,000	94,000	96,000	<b>870,000</b>	
6505PR - Trail and Supporting Hard Surfaces Rehab 2020 On-going	AIM	-	335,000	242,000	249,000	256,000	264,000	272,000	290,000	298,000	306,000	315,000	<b>2,827,000</b>	
6506PR - Parks Equipment Replacement Program 2020 On-going	AIM	-	45,000	47,000	49,000	51,000	53,000	55,000	57,000	59,000	61,000	63,000	<b>540,000</b>	
6521RF - Memorial Gardens Rehab 2020 On-going	AIM	-	200,000	300,000	300,000	300,000	225,000	250,000	275,000	300,000	300,000	300,000	<b>2,750,000</b>	
6522FD - Fire Facilities Management Program 2020 On-going	AIM	-	89,250	-	89,250	-	94,500	-	99,750	-	105,000	-	<b>477,750</b>	
6531FD - Fire Equipment Replacement 2020 On-going	AIM	-	104,100	73,500	63,000	84,000	63,000	84,000	63,000	47,250	66,150	84,000	<b>732,000</b>	
6532FD - Fire Bunker Gear Replacement Program 2020 On-going	AIM	-	-	165,495	67,016	-	-	-	243,225	-	-	-	<b>475,736</b>	
<b>Total Community Services</b>		<b>3,680,000</b>	<b>7,913,325</b>	<b>14,774,995</b>	<b>15,505,466</b>	<b>5,272,000</b>	<b>2,647,500</b>	<b>3,026,000</b>	<b>3,159,975</b>	<b>2,803,250</b>	<b>2,754,150</b>	<b>2,703,000</b>	<b>64,239,661</b>	
<b>Corporate Services</b>														
3912GG - Integrated Software Solution	R	AIM	-	-	84,000	3,000,000	-	-	-	-	-	-	<b>3,084,000</b>	
6528GG - System Technology Program 2020 On-going		AIM	-	620,300	620,300	620,300	720,300	720,300	720,300	720,300	720,300	720,300	606,358	<b>6,789,058</b>
<b>Total Corporate Services</b>			<b>-</b>	<b>620,300</b>	<b>704,300</b>	<b>3,620,300</b>	<b>720,300</b>	<b>720,300</b>	<b>720,300</b>	<b>720,300</b>	<b>720,300</b>	<b>720,300</b>	<b>606,358</b>	<b>9,873,058</b>

**2020 General Capital Budget and Capital Forecast for 2021 to 2029 by Business Unit**

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<b>General Government</b>													
3216GG - Capital Financing	SI	3,371,573	465,212	481,761	487,579	485,239	504,846	523,079	270,733	277,046	283,971	289,751	<b>7,440,790</b>
<b>Total General Government</b>		<b>3,371,573</b>	<b>465,212</b>	<b>481,761</b>	<b>487,579</b>	<b>485,239</b>	<b>504,846</b>	<b>523,079</b>	<b>270,733</b>	<b>277,046</b>	<b>283,971</b>	<b>289,751</b>	<b>7,440,790</b>
<b>Infrastructure &amp; Operations</b>													
3212RD - Francis St. Sewer Upsizing	G	-	-	90,000	-	-	1,800,000	-	-	-	-	-	<b>1,890,000</b>
3212ST - Francis St. Sewer Upsizing	G	-	-	50,000	-	-	1,000,000	-	-	-	-	-	<b>1,050,000</b>
3302ST - Trunk Sewer Rehab - Pinewood Fingers Creek	AIM	-	-	200,000	-	-	-	-	2,500,000	-	-	-	<b>2,700,000</b>
3405PK - Parking Property Acquisition Program	R	SI	-	-	300,000	-	-	300,000	-	-	300,000	-	<b>900,000</b>
3500RD - Lakeshore Dr. Area - Trunk Watermain and Sewer - Phase 1 - Judge to Gertrude	R	AIM	620,000	-	-	-	-	4,900,000	-	-	-	-	<b>5,520,000</b>
3500ST - Lakeshore Dr. Area - Trunk Watermain and Sewer - Phase 1 - Judge to Gertrude	R	AIM	140,000	-	-	-	-	1,000,000	-	-	-	-	<b>1,140,000</b>
3506ST - Stormwater Management - Overland Flow Control Study	AIM	-	-	100,000	-	-	-	-	-	-	-	-	<b>100,000</b>
3518PR - King's Landing Commercialization of Waterfront	F	SI	3,386,250	-	1,000,000	-	4,000,000	4,000,000	4,000,000	-	-	-	<b>16,386,250</b>
3613ST - Local Drainage Rehab	AIM	53,041	-	150,000	-	-	-	-	-	-	-	-	<b>203,041</b>
3618RD - Wallace Pumping Station Replacement	AIM	300,000	350,000	-	-	-	-	-	-	-	-	-	<b>650,000</b>
3619RD - Cassells St. - Phase 1 & 2	R	AIM	6,325,000	1,760,000	-	-	-	-	-	-	-	-	<b>8,085,000</b>
3619ST - Cassells St. - Phase 1 & 2	AIM	1,900,000	165,000	-	-	-	-	-	-	-	-	-	<b>2,065,000</b>
3700RD - Seymour St. - Station to Wallace - Widening and Signals	G	-	-	-	-	-	130,000	-	2,500,000	-	-	-	<b>2,630,000</b>
3700ST - Seymour St. - Station to Wallace - Widening and Signals	G	-	-	-	-	-	50,000	-	1,000,000	-	-	-	<b>1,050,000</b>
3701RD - Norman/Chapais Connection Watermain	SI	-	-	-	-	-	-	-	70,000	-	1,300,000	-	<b>1,370,000</b>
3701ST - Norman/Chapais Connection Watermain	SI	-	-	-	-	-	-	-	30,000	-	500,000	-	<b>530,000</b>

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<b>Infrastructure &amp; Operations</b>													
3715RD - Pinewood Park & Lakeshore Drive Intersection Reconstruction	RF	G	100,000	500,000	3,900,000	-	-	-	-	-	-	-	4,500,000
3718RD - West Link Trail Development & Memorial Drive Intersection Improvement		SI	-	820,000	-	-	-	-	-	-	-	-	820,000
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	-	4,700,000	-	-	5,050,000
3802ST - Lakeshore Dr. - Trunk Watermain and Sewer - Phase 2 - Gertrude to Marshall		AIM	-	-	-	-	-	80,000	-	1,000,000	-	-	1,080,000
3804RD - Public Works Backup Generator Replacement	R	AIM	125,000	250,000	-	-	-	-	-	-	-	-	375,000
3805GD - Leachate Management - Future Cells	R	G	250,000	2,000,000	-	-	250,000	-	2,200,000	-	-	250,000	4,950,000
3809RD - Hammond St. Bridge Replacement		AIM	30,000	-	600,000	-	-	-	-	-	-	-	630,000
3810RD - Main St. - Gormanville to Memorial		G	-	-	-	120,000	-	2,300,000	-	-	-	-	2,420,000
3810ST - Main St. - Gormanville to Memorial		G	-	-	-	40,000	-	800,000	-	-	-	-	840,000
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
3814RD - Lees Road Reconstruction		AIM	-	200,000	-	2,300,000	1,500,000	-	-	-	-	-	4,000,000
3815RD - Trout Lake Road Retaining Wall Rehab		AIM	-	-	-	50,000	-	-	-	1,000,000	-	-	1,050,000
3815ST - Trout Lake Road Retaining Wall Rehab		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



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<b>Infrastructure &amp; Operations</b>													
3831ST - Stormwater Outfall Repair and Rehabilitation	AIM	-	-	250,000	50,000	200,000	-	-	-	-	-	-	<b>500,000</b>
3900RD - Cedar Heights Rd. - Highway 11 to Larocque Urban Upgrade and Watermain	SI	-	-	-	-	-	-	-	180,000	-	3,300,000	-	<b>3,480,000</b>
3900ST - Cedar Heights Rd. - Highway 11 to Larocque Urban Upgrade and Watermain	SI	-	-	-	-	-	-	-	70,000	-	1,200,000	-	<b>1,270,000</b>
3908ST - Trunk Sewer Rehab - Eastview Tributary System	AIM	-	-	-	-	-	100,000	-	1,000,000	-	-	-	<b>1,100,000</b>
3909RD - Worthington, Wyld, Sherbrooke, Second 4" Watermain Replacement	AIM	-	-	-	-	-	90,000	-	1,700,000	-	-	-	<b>1,790,000</b>
3909ST - Worthington, Wyld, Sherbrooke, Second 4" Watermain Replacement	AIM	-	-	-	-	-	40,000	-	700,000	-	-	-	<b>740,000</b>
3910ST - Chippewa Creek and Airport Heights Stormwater Retention	G	-	-	-	50,000	-	2,500,000	-	-	-	-	-	<b>2,550,000</b>
3911RD - Four Mile Lake Rd. Extension to Highway 11	F	G	-	-	-	-	390,000	-	-	7,400,000	-	-	<b>7,790,000</b>
3913RD - Ivanhoe Drive Reconstruction - Sage to Rita	AIM	-	70,000	1,400,000	-	-	-	-	-	-	-	-	<b>1,470,000</b>
3913ST - Ivanhoe Drive Reconstruction - Sage to Rita	AIM	-	30,000	500,000	-	-	-	-	-	-	-	-	<b>530,000</b>
3914RD - Carriage Crescent Reconstruction	AIM	60,000	1,100,000	-	-	-	-	-	-	-	-	-	<b>1,160,000</b>
3914ST - Carriage Crescent Reconstruction	AIM	30,000	500,000	-	-	-	-	-	-	-	-	-	<b>530,000</b>
3915RD - Lamorie Street Bridge Environmental Assessment	AIM	95,000	200,000	-	-	-	-	-	-	-	-	-	<b>295,000</b>
3916RD - Oak Street East Pedestrian Bridge Replacement	AIM	-	200,000	-	-	-	-	-	-	-	-	-	<b>200,000</b>
3917RD - Third Avenue - Cassells to Front	AIM	30,000	-	500,000	-	-	-	-	-	-	-	-	<b>530,000</b>
3917ST - Third Avenue - Cassells to Front	AIM	20,000	-	300,000	-	-	-	-	-	-	-	-	<b>320,000</b>
3918RD - Algonquin/Jane/Front Intersection Addition of Left Turn Lane	AIM	40,000	700,000	-	-	-	-	-	-	-	-	-	<b>740,000</b>
3919RD - Metcalfe St - Laurier to End	AIM	-	-	30,000	600,000	-	-	-	-	-	-	-	<b>630,000</b>

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<b>Infrastructure &amp; Operations</b>													
3919ST - Metcalfe St - Laurier to End	AIM	-	-	20,000	400,000	-	-	-	-	-	-	-	<b>420,000</b>
3920RD - O'Brien Street - Ski Club to Airport & Ski Club Signals	AIM	50,000	-	1,000,000	-	-	-	-	-	-	-	-	<b>1,050,000</b>
3920ST - O'Brien Street - Ski Club to Airport & Ski Club Signals	AIM	20,000	-	300,000	-	-	-	-	-	-	-	-	<b>320,000</b>
3926GD - Merrick Landfill Lifecycle Extension Environmental Assessment	R	AIM	-	500,000	-	-	-	-	-	-	500,000	7,500,000	<b>8,500,000</b>
3931RD - Ellendale Second Feed & Second Reservoir	SI	30,000	-	250,000	-	-	-	-	420,000	-	-	-	<b>700,000</b>
3932RD - Lakeshore Dr. - Jessups Creek to Premier Road	AIM	-	110,000	-	1,000,000	1,000,000	-	-	-	-	-	-	<b>2,110,000</b>
3932ST - Lakeshore Dr. - Jessups Creek to Premier Road	AIM	-	30,000	-	300,000	300,000	-	-	-	-	-	-	<b>630,000</b>
3934RD - Main St. Paving Stone Replacement	F	AIM	-	150,000	-	3,500,000	4,500,000	-	-	-	-	-	<b>8,150,000</b>
3934ST - Main St. Paving Stone Replacement	AIM	-	50,000	-	400,000	400,000	-	-	-	-	-	-	<b>850,000</b>
3939RF - Aquatic Centre Roof Replacement	R	AIM	284,500	317,100	-	-	-	-	-	-	-	-	<b>601,600</b>
4004PK - Parking Garage Repairs	AIM	-	300,000	-	-	-	-	-	-	-	-	-	<b>300,000</b>
4005RD - Pinewood Park Drive Continuous Left Turn Lane (Lakeshore Drive to Decaire Road)	G	-	-	-	-	100,000	-	-	900,000	-	-	-	<b>1,000,000</b>
4006RD - Trout Lake Road (Mountainview Drive to Lees Road)	F	AIM	-	-	3,900,000	-	-	-	-	-	-	-	<b>3,900,000</b>
4007RD - Road Safety Strategy/Master Plan	AIM	-	25,000	-	-	-	-	-	-	-	-	-	<b>25,000</b>
4009RD - Cooks Mills Road Rehab	AIM	-	350,000	-	-	-	-	-	-	-	-	-	<b>350,000</b>
4010RD - Anita Avenue Rehab Phase 1	AIM	-	250,000	-	-	-	-	-	-	-	-	-	<b>250,000</b>
4011RD - Carmichael Drive Box Culvert Replacement	AIM	-	203,000	-	-	-	-	-	-	-	-	-	<b>203,000</b>
4015TR - Transit Terminal Improvements	F	AIM	-	375,000	-	-	-	-	-	-	-	-	<b>375,000</b>

**2020 General Capital Budget and Capital Forecast for 2021 to 2029 by Business Unit**

<b>Project Number/Description</b>	<b>Project Classification</b>	<b>LTD Approved Budget</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>Total</b>
<b>Infrastructure &amp; Operations</b>													
4016TR - Transit Terminal Rehabilitation	F	AIM	-	86,250	-	86,250	86,250	-	-	-	-	-	258,750
4017TR - Transit Dynamic Dispatching Technology	F	SI	-	262,500	-	-	-	-	-	-	-	-	262,500
4018TR - Transit Fleet Garage and Bus Barn Upgrades: Health and Safety	F	AIM	-	145,331	24,610	249,205	103,500	87,170	23,805	-	-	-	633,621
4019TR - Specialized Transit (Para) AVL	F	SI	-	52,500	78,750	-	-	-	-	-	-	-	131,250
4020TR - New Bus Shelters and Digital Signage	F	SI	-	63,000	-	220,500	-	157,500	-	-	-	-	441,000
4021TR - Construction of Sidewalks for Transit Routes	F	SI	-	1,769,000	1,599,628	1,362,037	1,769,001	2,048,936	1,329,103	-	-	-	9,877,705
4022TR - Transit Fleet Garage and Bus Barn Upgrades: Central Vacuum System and Doors	F	AIM	-	58,269	62,500	-	-	-	-	-	-	-	120,769
4023GG - City Hall Customer Service Centre & Lobby Renovations		AIM	-	700,000	-	-	-	-	-	-	-	-	700,000
4025RD - Booth Road & Lakeshore Drive Intersection Reconstruction		G	-	-	150,000	1,500,000	-	-	-	-	-	-	1,650,000
4026RD - Pinewood Park Dr. Left Turn Lane and Sanitary Sewer Extension (Decaire Rd to Casino Site)	F	G	-	685,000	-	-	-	-	-	-	-	-	685,000
4027TR - Bicycle Racks and Related Storage Areas for Transit Riders	F	AIM	-	-	84,000	52,500	-	-	-	-	-	-	136,500
4028TR - Transit - Trackless Snow Plow	RF	AIM	-	159,600	-	-	-	-	-	-	-	-	159,600
4032RD - O'Brien St. Reconstruction - Cassells to Ski Club		AIM	-	-	-	230,000	-	2,200,000	-	-	-	2,200,000	4,630,000
4032ST - O'Brien St. Reconstruction - Cassells to Ski Club		AIM	-	-	-	90,000	-	850,000	-	-	-	850,000	1,790,000
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
4101GG - City Hall Accessibility Upgrades		AIM	-	-	-	1,000,000	-	-	-	-	-	-	1,000,000
4201PK - Downtown Parking Facilities		SI	-	-	-	-	-	-	-	-	-	5,250,000	5,250,000

**2020 General Capital Budget and Capital Forecast for 2021 to 2029 by Business Unit**

<b>Project Number/Description</b>	<b>Project Classification</b>	<b>LTD Approved Budget</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>Total</b>	
<b>Infrastructure &amp; Operations</b>														
4300RD - Airport Industrial Park Expansion	F	G	-	-	-	-	-	-	290,000	-	5,800,000	-	<b>6,090,000</b>	
4401RD - Sage Rd. Reconstruction to Collector Standard		G	-	-	-	-	-	175,000	-	3,500,000	-	-	<b>3,675,000</b>	
4401ST - Sage Rd. Reconstruction to Collector Standard		G	-	-	-	-	-	65,000	-	1,300,000	-	-	<b>1,365,000</b>	
4500RD - Franklin & John Trunk Watermain		SI	-	-	-	-	-	-	205,000	-	4,100,000	-	<b>4,305,000</b>	
4500ST - Franklin & John Trunk Watermain		SI	-	-	-	-	-	-	75,000	-	1,500,000	-	<b>1,575,000</b>	
6484RD - City Share of Development Costs 2020 On-going		G	-	303,000	312,000	144,000	331,000	341,000	351,000	362,000	373,000	384,000	395,000	<b>3,296,000</b>
6485RD - Asphalt Resurfacing 2020 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	<b>36,000,000</b>
6486RD - Asphalt Sheeting 2020 On-going		AIM	-	134,000	138,000	142,000	146,000	146,000	146,000	146,000	146,000	150,000	150,000	<b>1,444,000</b>
6488RD - Pedestrian Safety Program 2020 On-going		AIM	-	84,000	88,000	92,000	96,000	96,000	96,000	146,000	146,000	150,000	155,000	<b>1,149,000</b>
6489RD - Road Culvert Replace/Rehab 2020 On-going		AIM	-	-	209,000	215,000	221,000	221,000	221,000	221,000	221,000	228,000	230,000	<b>1,987,000</b>
6490RD - Rural Road Rehab 2020 On-going		AIM	-	71,000	691,000	712,000	733,000	733,000	733,000	733,000	733,000	755,000	755,000	<b>6,649,000</b>
6491SL - Traffic Control Signal Upgrade 2020 On-going		AIM	-	203,000	209,000	215,000	221,000	221,000	221,000	221,000	221,000	228,000	230,000	<b>2,190,000</b>
6492RD - Sidewalk Replacement Program 2020 On-going		AIM	-	103,000	109,000	115,000	121,000	121,000	121,000	221,000	221,000	228,000	230,000	<b>1,590,000</b>
6493RD - Bridge Rehab 2020 On-going		AIM	-	218,000	225,000	232,000	239,000	246,000	253,000	261,000	269,000	277,000	290,000	<b>2,510,000</b>
6494RD - Downtown Roads Maintenance 2020 On-going		AIM	-	100,000	103,000	106,000	109,000	112,000	115,000	118,000	122,000	126,000	130,000	<b>1,141,000</b>
6495PK - Parking Equipment Program 2020 On-going		AIM	-	-	-	125,000	-	-	125,000	-	-	125,000	-	<b>375,000</b>
6497MR - King's Landing and Marina Rehab Program 2020 On-going		AIM	-	100,000	100,000	150,000	200,000	150,000	150,000	100,000	100,000	100,000	100,000	<b>1,250,000</b>
6504PR - City Hall Grounds Rehab Program 2020 On-going		AIM	-	-	228,000	162,000	-	170,000	-	178,000	-	186,000	96,000	<b>1,020,000</b>

**2020 General Capital Budget and Capital Forecast for 2021 to 2029 by Business Unit**

<b>Project Number/Description</b>	<b>Project Classification</b>	<b>LTD Approved Budget</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>Total</b>
<b>Infrastructure &amp; Operations</b>													
6507RF - Aquatic Centre Rehab Program 2020 On-going	AIM	-	82,900	100,000	150,000	105,000	110,000	115,000	120,000	125,000	130,000	135,000	<b>1,172,900</b>
6508PK - Parking Lot Maintenance and Improvement Program 2020 On-going	AIM	-	50,000	50,000	50,000	50,000	50,000	50,000	50,000	55,000	55,000	60,000	<b>520,000</b>
6509TR - Transit Buildings Capital Program 2020 On-going	AIM	-	20,738	26,250	26,250	26,250	26,250	26,250	26,250	26,250	27,500	27,500	<b>259,488</b>
6510GG - City Hall Building Rehab 2020 On-going	AIM	-	300,000	300,000	300,000	300,000	140,000	145,000	150,000	155,000	300,000	300,000	<b>2,390,000</b>
6520RD - Design Work Next Year's Projects 2020 On-going	AIM	-	147,000	151,000	156,000	161,000	166,000	171,000	176,000	181,000	186,000	190,000	<b>1,685,000</b>
6520ST - Design Work Next Year's Projects 2020 On-going	AIM	-	16,000	17,000	17,000	18,000	18,000	19,000	19,000	20,000	20,000	20,000	<b>184,000</b>
6524RD - Asset Management 2020 On-going	AIM	-	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	<b>500,000</b>
6525ST - Storm Sewer Flushing and Outfall Maintenance 2020 On-going	AIM	-	77,000	79,000	81,000	83,000	85,000	88,000	91,000	94,000	97,000	100,000	<b>875,000</b>
6533ST - Ditch Enclosure 2020 On-going	AIM	-	200,000	200,000	200,000	200,000	200,000	200,000	300,000	300,000	309,000	310,000	<b>2,419,000</b>
6538RD - Public Works Building Maintenance 2020 On-going	AIM	-	50,000	30,000	50,000	50,000	50,000	50,000	50,000	50,000	52,000	55,000	<b>487,000</b>
6539RD - Equipment Replacement 2020 On-going	AIM	-	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	<b>100,000</b>
6542ST - Infrastructure Modelling 2020 On-going	AIM	-	-	100,000	-	-	-	10,000	-	-	-	10,000	<b>120,000</b>
6543SL - Street Light Replacement 2020 On-going	AIM	-	5,000	5,000	5,000	5,000	5,000	5,000	10,000	10,000	10,000	15,000	<b>75,000</b>
6545RD - Engineering Data and Equipment 2020 On-going	SI	-	20,000	20,000	20,000	20,000	20,000	20,000	20,000	20,000	20,000	20,000	<b>200,000</b>
<b>Total Infrastructure &amp; Operations</b>		<b>14,088,791</b>	<b>21,281,188</b>	<b>25,489,738</b>	<b>27,565,742</b>	<b>21,554,001</b>	<b>25,930,856</b>	<b>21,364,158</b>	<b>20,119,250</b>	<b>26,948,250</b>	<b>26,503,500</b>	<b>23,863,500</b>	<b>254,708,974</b>

**2020 General Capital Budget and Capital Forecast for 2021 to 2029 by Business Unit**

<b>Project Number/Description</b>	<b>Project Classification</b>	<b>LTD Approved Budget</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>Total</b>
<b>Service Partners</b>													
6483AA - Casselholme Redevelopment	SI	-	125,000	400,000	900,000	1,200,000	1,200,000	1,200,000	1,200,000	1,200,000	1,200,000	1,200,000	<b>9,825,000</b>
6511OC - Capitol Centre 2020 On-going	AIM	-	184,230	156,285	207,000	207,000	207,000	207,000	207,000	207,000	207,000	207,000	<b>1,996,515</b>
6512PD - North Bay Police Services 2020 On-going	R AIM	-	1,098,135	1,060,875	1,029,825	839,385	874,575	900,450	865,260	900,450	822,825	787,635	<b>9,179,415</b>
6513LB - North Bay Public Library 2020 On-going	AIM	-	500,000	500,000	500,000	500,000	500,000	500,000	500,000	500,000	500,000	500,000	<b>5,000,000</b>
6529AT - North Bay Jack Garland Airport 2020 On-going	AIM	-	468,214	569,250	569,250	569,250	569,250	5,175,000	569,250	569,250	569,250	569,250	<b>10,197,214</b>
6541CA - North Bay Mattawa Conservation Authority 2020 On-going	AIM	-	879,297	927,143	959,298	953,419	965,528	997,751	998,900	1,008,376	1,016,270	1,025,863	<b>9,731,845</b>
<b>Total Service Partners</b>		<b>-</b>	<b>3,254,876</b>	<b>3,613,553</b>	<b>4,165,373</b>	<b>4,269,054</b>	<b>4,316,353</b>	<b>8,980,201</b>	<b>4,340,410</b>	<b>4,385,076</b>	<b>4,315,345</b>	<b>4,289,748</b>	<b>45,929,989</b>
<b>Total General Capital Budget</b>		<b>21,140,364</b>	<b>33,534,901</b>	<b>45,064,347</b>	<b>51,344,460</b>	<b>32,300,594</b>	<b>34,119,855</b>	<b>34,613,738</b>	<b>28,610,668</b>	<b>35,133,922</b>	<b>34,577,266</b>	<b>31,752,357</b>	<b>382,192,472</b>
<b>Reserve Funding (R)</b>													
3405PK - Parking Property Acquisition Program		-	-	(300,000)	-	-	(300,000)	-	-	(300,000)	-	-	<b>(900,000)</b>
3500RD - Lakeshore Dr. Area - Trunk Watermain and Sewer - Phase 1 - Judge to Gertrude		(130,000)	-	-	-	-	-	-	-	-	-	-	<b>(130,000)</b>
3500ST - Lakeshore Dr. Area - Trunk Watermain and Sewer - Phase 1 - Judge to Gertrude		(70,000)	-	-	-	-	-	-	-	-	-	-	<b>(70,000)</b>
3508PR - Parks and Playgrounds - New Neighbourhood Parks		-	-	(200,000)	-	-	(70,600)	-	-	-	-	-	<b>(270,600)</b>
3509PZ - Official Plan 5 Year Review and Study Update		(56,250)	(46,170)	-	-	-	-	-	-	-	-	-	<b>(102,420)</b>
3619RD - Cassells St. - Phase 1 & 2		-	(317,600)	-	-	-	-	-	-	-	-	-	<b>(317,600)</b>
3711RF - City of North Bay Community and Recreation Centre		(1,410,000)	(1,590,000)	-	-	-	-	-	-	-	-	-	<b>(3,000,000)</b>
3715RD - Pinewood Park & Lakeshore Drive Intersection Reconstruction		-	-	(200,000)	-	-	-	-	-	-	-	-	<b>(200,000)</b>
3718PR - West Link Trail Development		(384,500)	-	-	-	-	-	-	-	-	-	-	<b>(384,500)</b>
3804RD - Public Works Backup Generator Replacement		-	(16,600)	-	-	-	-	-	-	-	-	-	<b>(16,600)</b>

**2020 General Capital Budget and Capital Forecast for 2021 to 2029 by Business Unit**

<b>Project Number/Description</b>	<b>Project Classification</b>	<b>LTD Approved Budget</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>Total</b>
<b>Reserve Funding (R)</b>													
3805GD - Leachate Management - Future Cells		(250,000)	(120,000)	-	-	(100,000)	-	(755,000)	-	-	-	(140,000)	(1,365,000)
3830GD - Merrick Landfill Gas (LFG) Collection Infrastructure		-	-	(150,000)	(600,000)	-	-	(150,000)	(650,000)	-	-	-	(1,550,000)
3912GG - Integrated Software Solution		-	-	-	(469,914)	-	-	-	-	-	-	-	(469,914)
3926GD - Merrick Landfill Lifecycle Extension Environmental Assessment		-	-	(500,000)	-	-	-	-	-	-	(500,000)	-	(1,000,000)
3939RF - Aquatic Centre Roof Replacement		-	(190,000)	-	-	-	-	-	-	-	-	-	(190,000)
4028TR - Transit - Trackless Snow Plow		-	(42,565)	-	-	-	-	-	-	-	-	-	(42,565)
6512PD - North Bay Police Services 2020 On-going		-	-	-	(150,000)	-	-	-	-	-	-	-	(150,000)
Prior Year Unallocated Capital Levy		-	(912,722)	-	-	-	-	-	-	-	-	-	(912,722)
<b>Total Reserve Funding</b>		<b>(2,300,750)</b>	<b>(3,235,657)</b>	<b>(1,350,000)</b>	<b>(1,219,914)</b>	<b>(100,000)</b>	<b>(370,600)</b>	<b>(905,000)</b>	<b>(650,000)</b>	<b>(300,000)</b>	<b>(500,000)</b>	<b>(140,000)</b>	<b>(11,071,921)</b>
<b>Grants and Other Funding Sources (F)</b>													
3518PR - King's Landing Commercialization of Waterfront		(2,274,736)	-	-	-	(2,576,480)	(2,576,480)	(2,576,480)	-	-	-	-	(10,004,176)
3715RD - Pinewood Park & Lakeshore Drive Intersection Reconstruction				(1,050,000)	-	-	-	-	-	-	-	-	(1,050,000)
3718PR - West Link Trail Development		(325,000)	-	-	-	-	-	-	-	-	-	-	(325,000)
3801RD - McKeown Ave. Widening - Gormanville to Cartier		-	(216,137)	-	(4,106,607)	-	-	-	-	-	-	-	(4,322,744)
3911RD - Four Mile Lake Rd. Extension to Highway 11		-	-	-	-	-	-	-	-	(4,766,500)	-	-	(4,766,500)
3930PR - Active Transportation Projects		(344,000)	(126,000)	-	-	-	-	-	-	-	-	-	(470,000)
3934RD - Main St. Paving Stone Replacement		-	-	-	(2,254,420)	(2,898,540)	-	-	-	-	-	-	(5,152,960)
4006RD - Trout Lake Road (Moutainview Drive to Lees Road)		-	-	(3,000,000)	-	-	-	-	-	-	-	-	(3,000,000)
4015TR - Transit Terminal Improvements		-	(274,988)	-	-	-	-	-	-	-	-	-	(274,988)

2020 General Capital Budget and Capital Forecast for 2021 to 2029 by Business Unit

Project Number/Description	Project Classification	LTD Approved Budget	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	Total
<b>Grants and Other Funding Sources (F)</b>													
4016TR - Transit Terminal Rehabilitation		-	(71,872)	-	(71,872)	(71,872)	-	-	-	-	-	-	(215,616)
4017TR - Transit Dynamic Dispatching Technology		-	(192,241)	-	-	-	-	-	-	-	-	-	(192,241)
4018TR - Transit Fleet Garage and Bus Barn Upgrades: Health and Safety		-	(106,572)	(18,047)	(182,742)	(75,897)	(63,922)	(17,456)	-	-	-	-	(464,636)
4019TR - Specialized Transit (Para) AVL		-	(38,498)	(57,747)	-	-	-	-	-	-	-	-	(96,245)
4020TR - New Bus Shelters and Digital Signage		-	(46,734)	-	(163,567)	-	(116,834)	-	-	-	-	-	(327,135)
4021TR - Construction of Sidewalks for Transit Routes		-	(1,268,656)	(1,116,764)	(959,903)	(1,248,656)	(1,453,589)	(1,038,046)	-	-	-	-	(7,085,614)
4022TR - Transit Fleet Garage and Bus Barn Upgrades: Central Vacuum System and Doors		-	(48,556)	(52,081)	-	-	-	-	-	-	-	-	(100,637)
4026RD - Pinewood Park Dr. Continuous Left Turn Lane and Sanitary Sewer Extension (Decaire Rd to Casino Site)		-	(500,000)	-	-	-	-	-	-	-	-	-	(500,000)
4027TR - Bicycle Racks and Related Storage Areas		-	-	(61,597)	(38,498)	-	-	-	-	-	-	-	(100,095)
4028TR - Transit - Trackless Snow Plow		-	(117,035)	-	-	-	-	-	-	-	-	-	(117,035)
4300RD - Airport Industrial Park Expansion		-	-	-	-	-	-	-	-	-	(3,735,900)	-	(3,735,900)
Federal Gas Tax - 2019 allocation remaining (not required for Airport Runway)		-	-	-	(1,200,000)	-	-	-	-	-	-	-	(1,200,000)
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)
<b>Total Grants and Other Funding Sources</b>			<b>(2,943,736)</b>	<b>(5,639,870)</b>	<b>(7,988,817)</b>	<b>(11,610,190)</b>	<b>(9,504,026)</b>	<b>(6,843,406)</b>	<b>(6,264,563)</b>	<b>(2,632,581)</b>	<b>(7,399,081)</b>	<b>(6,368,481)</b>	<b>(69,827,332)</b>
<b>Net General Capital Budget</b>			<b>15,895,878</b>	<b>24,659,374</b>	<b>35,725,530</b>	<b>38,514,356</b>	<b>22,696,568</b>	<b>26,905,849</b>	<b>27,444,175</b>	<b>25,328,087</b>	<b>27,434,841</b>	<b>27,708,785</b>	<b>301,293,219</b>
<b>Capital Funding Policy Limit</b>													
Capital Levy in Operating Budget			(11,632,743)	(12,318,026)	(12,608,946)	(12,349,728)	(13,330,097)	(14,241,774)	(15,161,070)	(15,792,437)	(16,484,859)	(17,062,940)	(140,982,621)
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)	(85,000,000)
Special Debt for Community Centre			-	(11,082,300)	(13,500,000)	-	-	-	-	-	-	-	(24,582,300)
Federal Gas Tax Top-up for Community Centre			(2,500,000)	(917,700)	-	-	-	-	-	-	-	-	(3,417,700)
Federal Gas Tax			(3,127,848)	(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)	(33,553,280)
<b>Target Policy for Net Expenditures</b>			<b>(25,760,591)</b>	<b>(36,088,049)</b>	<b>(37,878,969)</b>	<b>(24,261,926)</b>	<b>(25,242,295)</b>	<b>(26,153,972)</b>	<b>(27,073,268)</b>	<b>(27,704,635)</b>	<b>(28,397,057)</b>	<b>(28,975,138)</b>	<b>(287,535,901)</b>
Less Memorial Gardens Remaining Ten Year Commitment			1,100,000	400,000	300,000	-	-	-	-	-	-	-	1,800,000
<b>Adjusted Target Policy</b>			<b>(24,660,591)</b>	<b>(35,688,049)</b>	<b>(37,578,969)</b>	<b>(24,261,926)</b>	<b>(25,242,295)</b>	<b>(26,153,972)</b>	<b>(27,073,268)</b>	<b>(27,704,635)</b>	<b>(28,397,057)</b>	<b>(28,975,138)</b>	<b>(285,735,901)</b>
<b>(\$ Available) \$Funding Needed</b>			<b>(1,217)</b>	<b>37,481</b>	<b>935,387</b>	<b>(1,565,358)</b>	<b>1,663,554</b>	<b>1,290,203</b>	<b>(1,745,181)</b>	<b>(269,794)</b>	<b>(688,272)</b>	<b>4,638</b>	<b>(338,560)</b>



**2020 WATER AND WASTEWATER  
CAPITAL BUDGET SUMMARY AND  
CAPITAL FORECAST FOR 2021 TO 2029**

**2020 Water and Wastewater Capital Budget and Capital Forecast for 2021 to 2029 by Business Unit**

<b>Project Number/Description</b>	<b>Project Classification</b>	<b>LTD Approved Budget</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>Total</b>
<b>Wastewater</b>													
3212SS - Francis St. Sewer Upsizing	G	-	10,000	60,000	-	-	1,100,000	-	-	-	-	-	1,170,000
3500SS - Lakeshore Dr. Area - Trunk Watermain and Sewer - Phase 1 - Judge to Gertrude	AIM	320,000	-	-	-	-	-	2,500,000	-	-	-	-	2,820,000
3514SS - Sage Area Trunk Sewer Improvements	AIM	25,000	-	-	-	500,000	-	-	3,000,000	-	-	-	3,525,000
3618SS - Wallace Pumping Station Replacement	AIM	1,400,000	1,450,000	-	-	-	-	-	-	-	-	-	2,850,000
3700SS - Seymour St. - Station to Wallace - Widening and Signals	G	-	-	-	-	-	40,000	-	800,000	-	-	-	840,000
3719SS - Digester Replacement	AIM	200,000	900,000	800,000	1,300,000	-	-	-	-	-	-	-	3,200,000
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	-	-	-	-	-	-	190,000	-	2,500,000	-	-	2,690,000
3810SS - Main St. - Gormanville to Memorial	G	-	-	-	180,000	-	3,500,000	-	-	-	-	-	3,680,000
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	-	-	-	-	-	-	3,000,000
3826SS - Pumping Station Replacement	AIM	-	-	-	2,500,000	5,000,000	-	5,000,000	-	-	-	3,500,000	16,000,000
3829SS - Wastewater Treatment Plant - Structural Repair	R	AIM	532,068	400,000	60,000	490,000	950,000	500,000	-	-	-	-	2,932,068
3900SS - Cedar Heights Rd. - Highway 11 to Larocque Urban Upgrade and Watermain	SI	-	-	-	-	-	-	-	80,000	-	1,500,000	-	1,580,000
3909SS - Worthington, Wylde, Sherbrooke, Second 4" Watermain Replacement	AIM	-	-	-	-	-	40,000	-	700,000	-	-	-	740,000
3913SS - Ivanhoe Drive Reconstruction - Sage to Rita	AIM	-	30,000	600,000	-	-	-	-	-	-	-	-	630,000
3914SS - Carriage Crescent Reconstruction	AIM	30,000	500,000	-	-	-	-	-	-	-	-	-	530,000
3917SS - Third Avenue - Cassells to Front	AIM	20,000	-	300,000	-	-	-	-	-	-	-	-	320,000

**2020 Water and Wastewater Capital Budget and Capital Forecast for 2021 to 2029 by Business Unit**

Project Number/Description	Project Classification	LTD Approved Budget	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	Total
<b>Wastewater</b>													
3919SS - Metcalfe St - Laurier to End	AIM	-	-	20,000	400,000	-	-	-	-	-	-	-	420,000
3920SS - O'Brien Street - Ski Club to Airport & Ski Club Signals	AIM	20,000	-	300,000	-	-	-	-	-	-	-	-	320,000
3922SS - Wastewater Treatment Plant - Chain and Flygt	R AIM	-	200,000	-	-	-	-	-	-	-	-	-	200,000
3923SS - Wastewater Treatment Plant - Aeration Diffusers	AIM	-	-	250,000	-	-	-	-	-	-	-	-	250,000
3928SS - Wastewater Treatment Plant - Roof Rehab	R 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	-	350,000	350,000	-	-	-	-	-	-	740,000
3935SS - Marshall 500 mm Forcemain Condition Assessment and Rehab	AIM	-	-	-	500,000	-	-	-	-	-	-	-	500,000
4008SS - Lavase Sanitary Sewer Phase 2 (Glen Rouge to Michener)	AIM	-	600,000	-	-	-	-	-	-	-	-	-	600,000
4024SS - Booth Lift Station & Forcemain Condition Assessment	AIM	-	35,000	-	-	-	-	-	-	-	-	-	35,000
4026SS - Pinewood Park Dr. Left Turn Lane and Sanitary Sewer Extension (Decaire Rd to Casino Site)	F G	-	135,000	-	-	-	-	-	-	-	-	-	135,000
4029SS - Wastewater Treatment Plant - Raw Sewage Pumping Station	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	-	-	-	90,000	-	850,000	-	-	-	-	850,000	1,790,000
4103SS - Wastewater Treatment Plant Expansion	AIM	-	-	-	-	-	-	-	-	-	250,000	9,350,000	9,600,000
4202SS - Infiltration Reduction/Flow Monitoring Program - Phase 3	SI	-	-	200,000	-	-	-	-	-	-	-	-	200,000
4300SS - Airport Industrial Park Expansion	G	-	-	-	-	-	-	-	155,000	-	3,100,000	-	3,255,000
4402SS - Chippewa Trunk Sewer Major Rehabilitation & Replacement	AIM	-	-	-	-	-	200,000	-	-	2,500,000	-	-	2,700,000
6514SS - Sewage Lift Stations 2020 On-going	AIM	-	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	52,000	55,000	507,000

**2020 Water and Wastewater Capital Budget and Capital Forecast for 2021 to 2029 by Business Unit**

Project Number/Description	Project Classification	LTD Approved Budget	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	Total
<b>Wastewater</b>													
6520SS - Design Work Next Year's Projects 2020 On-going	AIM	-	31,000	32,000	33,000	34,000	35,000	36,000	37,000	38,000	39,000	40,000	355,000
6526SS - Wastewater Treatment Plant Rehab 2020 On-going	AIM	-	-	250,000	-	200,000	-	150,000	-	150,000	-	150,000	900,000
6535SS - Wastewater Treatment Plant - Electrical Upgrades 2020 On-going	AIM	-	200,000	250,000	200,000	250,000	250,000	250,000	250,000	250,000	258,000	260,000	2,418,000
6536SS - Sewage Lift Stations PLC and Radio Upgrades 2020 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
6537SS - Wastewater Treatment Plant Exterior Rehab 2020 on-going	AIM	-	200,000	300,000	150,000	300,000	-	300,000	-	450,000	-	300,000	2,000,000
6540SS - Sewer Rehab and Restoration 2020 On-going	AIM	-	250,000	250,000	250,000	250,000	250,000	250,000	250,000	250,000	258,000	260,000	2,518,000
6542SS - Infrastructure Modelling 2020 On-going	AIM	-	-	-	-	-	-	10,000	-	-	-	10,000	20,000
6544SS - Digester and Grit Removal 2020 On-going	AIM	-	-	-	-	109,000	-	-	109,000	-	-	109,000	327,000
6545SS - Engineering Data and Equipment 2020 On-going	SI	-	5,000	20,000	5,000	5,000	5,000	20,000	5,000	5,000	5,000	20,000	95,000
<b>Total Wastewater</b>		<b>3,027,068</b>	<b>5,391,000</b>	<b>7,442,000</b>	<b>7,703,000</b>	<b>11,078,000</b>	<b>7,500,000</b>	<b>8,786,000</b>	<b>5,916,000</b>	<b>6,223,000</b>	<b>5,742,000</b>	<b>15,059,000</b>	<b>83,867,068</b>
<b>Water</b>													
3212WS - Francis St. Sewer Upsizing	G	-	-	50,000	-	-	1,000,000	-	-	-	-	-	1,050,000
3500WS - Lakeshore Dr. Area - Trunk Watermain and Sewer - Phase 1 - Judge to Gertrude	AIM	320,000	-	-	-	-	-	2,500,000	-	-	-	-	2,820,000
3620WS - CFB Reservoir Replacement	R	AIM	200,000	4,000,000	-	-	-	-	-	-	-	-	4,200,000
3700WS - Seymour St. - Station to Wallace - Widening and Signals	G	-	-	-	-	-	170,000	-	3,200,000	-	-	-	3,370,000
3701WS - Norman/Chapais Connection Watermain	SI	-	-	-	-	-	-	-	40,000	-	800,000	-	840,000
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	-	-	-	-	-	-	190,000	-	2,500,000	-	-	2,690,000
3804WS - Public Works Backup Generator Replacement	AIM	125,000	250,000	-	-	-	-	-	-	-	-	-	375,000

**2020 Water and Wastewater Capital Budget and Capital Forecast for 2021 to 2029 by Business Unit**

<b>Project Number/Description</b>	<b>Project Classification</b>	<b>LTD Approved Budget</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>Total</b>
<b>Water</b>													
3807WS - Ellendale Generator Replacement	AIM	500,000	200,000	500,000	-	-	-	-	-	-	-	-	1,200,000
3810WS - Main St. - Gormanville to Memorial	G	-	-	-	40,000	-	800,000	-	-	-	-	-	840,000
3828WS - West Ferris Trunk Watermain Relining	AIM	2,760,260	460,000	-	-	-	-	-	-	-	-	-	3,220,260
3900WS - Cedar Heights Rd. - Highway 11 to Larocque Urban Upgrade and Watermain	SI	-	-	-	-	-	-	-	160,000	-	3,000,000	-	3,160,000
3905WS - Cedar Heights Rd. - Larocque BPS	G	-	-	-	-	-	50,000	-	-	4,000,000	-	-	4,050,000
3909WS - Worthington, Wyld, Sherbrooke, Second 4" Watermain Replacement	AIM	-	-	-	-	-	40,000	-	700,000	-	-	-	740,000
3912WS - Integrated Software Solution	AIM	-	-	16,000	2,000,000	-	-	-	-	-	-	-	2,016,000
3913WS - Ivanhoe Drive Reconstruction - Sage to Rita	AIM	-	30,000	600,000	-	-	-	-	-	-	-	-	630,000
3914WS - Carriage Crescent Reconstruction	AIM	30,000	500,000	-	-	-	-	-	-	-	-	-	530,000
3917WS - Third Avenue - Cassells to Front	AIM	20,000	-	300,000	-	-	-	-	-	-	-	-	320,000
3919WS - Metcalfe St - Laurier to End	AIM	-	-	20,000	400,000	-	-	-	-	-	-	-	420,000
3920WS - O'Brien Street - Ski Club to Airport & Ski Club Signals	AIM	20,000	-	300,000	-	-	-	-	-	-	-	-	320,000
3931WS - Ellendale Second Feed & Second Reservoir	F	SI	50,000	-	450,000	-	-	750,000	-	10,000,000	-	-	11,250,000
3932WS - Lakeshore Dr. - Jessups Creek to Premier Road	AIM	-	30,000	-	300,000	300,000	-	-	-	-	-	-	630,000
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
4008WS - Lavase Sanitary Sewer Phase 2 (Glen Rouge to Michener)	AIM	-	500,000	-	-	-	-	-	-	-	-	-	500,000
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	-	-	-	90,000	-	850,000	-	-	-	-	850,000	1,790,000

**2020 Water and Wastewater Capital Budget and Capital Forecast for 2021 to 2029 by Business Unit**

<b>Project Number/Description</b>	<b>Project Classification</b>	<b>LTD Approved Budget</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>Total</b>
<b>Water</b>													
4102WS - Ellendale Pumping Station Second Feed to Airport	SI	-	-	-	-	-	200,000	-	-	1,500,000	1,000,000	-	<b>2,700,000</b>
4300WS - Airport Industrial Park Expansion	G	-	-	-	-	-	-	-	170,000	-	3,400,000	-	<b>3,570,000</b>
4401WS - Sage Rd. Reconstruction to Collector Standard	G	-	-	-	-	-	-	45,000	-	900,000	-	-	<b>945,000</b>
4500WS - Franklin & John Trunk Watermain	SI	-	-	-	-	-	-	-	110,000	-	2,200,000	-	<b>2,310,000</b>
6484WS - City Share of Development Costs 2020 On-going	G	-	-	284,000	293,000	302,000	311,000	320,000	330,000	340,000	350,000	360,000	<b>2,890,000</b>
6487WS - Watermain Rehab and Restoration 2020 On-going	AIM	-	207,000	797,000	807,000	818,000	818,000	818,000	818,000	818,000	843,000	845,000	<b>7,589,000</b>
6515WS - Hydrant and Valve Rehab 2020 On-going	AIM	-	-	209,000	215,000	221,000	221,000	221,000	221,000	221,000	228,000	230,000	<b>1,987,000</b>
6517WS - Water Infrastructure Audit 2020 On-going	AIM	-	67,000	69,000	69,000	73,000	73,000	73,000	73,000	73,000	75,000	75,000	<b>720,000</b>
6518WS - Water Plant Maintenance 2020 On-going	AIM	-	-	300,000	-	300,000	-	300,000	300,000	300,000	309,000	310,000	<b>2,119,000</b>
6519WS - Watermain Replace/Ream/Reline 2020 On-going	AIM	-	203,000	209,000	215,000	221,000	221,000	221,000	221,000	221,000	228,000	230,000	<b>2,190,000</b>
6520WS - Design Work Next Year's Projects 2020 On-going	AIM	-	113,000	116,000	119,000	122,000	125,000	128,000	132,000	136,000	140,000	140,000	<b>1,271,000</b>
6523WS - Flush Watermains 2020 On-going	AIM	-	200,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000	206,000	210,000	<b>2,016,000</b>
6524WS - Asset Management 2020 On-going	AIM	-	75,000	75,000	75,000	75,000	75,000	75,000	75,000	75,000	75,000	75,000	<b>750,000</b>
6528WS - System Technology Program 2020 On-going	AIM	-	121,000	125,000	129,000	133,000	133,000	133,000	133,000	133,000	137,000	137,000	<b>1,314,000</b>
6538WS - Public Works Building Maintenance 2020 On-going	AIM	-	25,000	25,000	25,000	25,000	25,000	25,000	25,000	25,000	26,000	26,000	<b>252,000</b>
6539WS - Equipment Replacement 2020 On-going	AIM	-	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	<b>150,000</b>
<b>Total Water</b>		<b>4,025,260</b>	<b>7,071,000</b>	<b>4,860,000</b>	<b>6,117,000</b>	<b>2,805,000</b>	<b>7,797,000</b>	<b>6,884,000</b>	<b>17,123,000</b>	<b>11,457,000</b>	<b>13,032,000</b>	<b>4,503,000</b>	<b>85,674,260</b>
<b>Total Water and Wastewater Capital Budget</b>		<b>7,052,328</b>	<b>12,462,000</b>	<b>12,302,000</b>	<b>13,820,000</b>	<b>13,883,000</b>	<b>15,297,000</b>	<b>15,670,000</b>	<b>23,039,000</b>	<b>17,680,000</b>	<b>18,774,000</b>	<b>19,562,000</b>	<b>169,541,328</b>

2020 Water and Wastewater Capital Budget and Capital Forecast for 2021 to 2029 by Business Unit

Project Number/Description	Project Classification	LTD Approved Budget	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	Total
<b>Reserve Funding (R)</b>													
3620WS - CFB Reservoir Replacement		-	(398,820)	-	-	-	-	-	-	-	-	-	(398,820)
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					(150,000)	(116,000)	-	-	-	-	-	-	(266,000)
3922SS - Wastewater Treatment Plant - Chain and Flygt		-	(48,266)	-	-	-	-	-	-	-	-	-	(48,266)
3928SS - Wastewater Treatment Plant - Roof Rehab		-	(60,335)	-	-	-	-	-	-	-	-	-	(60,335)
4003WS - Membrane Module Replacement		-	-	-	-	-	(580,000)	-	-	-	-	-	(580,000)
<b>Total Reserve Funding</b>		-	<b>(544,921)</b>	-	<b>(725,000)</b>	<b>(116,000)</b>	<b>(580,000)</b>	-	-	-	-	-	<b>(1,965,921)</b>
<b>Grants and Other Funding Sources (F)</b>													
3931WS - Ellendale Second Feed & Second Reservoir		-	-	-	-	-	-	-	(6,441,200)	-	-	-	(6,441,200)
4026SS - Pinewood Park Dr. Continuous Left Turn Lane and Sanitary Sewer Extension (Decaire Rd to Casino Site)		-	(60,000)	-	-	-	-	-	-	-	-	-	(60,000)
<b>Total Grants and Other Funding Sources</b>		-	<b>(60,000)</b>	-	-	-	-	-	<b>(6,441,200)</b>	-	-	-	<b>(6,501,200)</b>
<b>Net Water and Wastewater Capital Budget Capital Funding Policy Limit</b>		<b>7,052,328</b>	<b>11,857,079</b>	<b>12,302,000</b>	<b>13,095,000</b>	<b>13,767,000</b>	<b>14,717,000</b>	<b>15,670,000</b>	<b>16,597,800</b>	<b>17,680,000</b>	<b>18,774,000</b>	<b>19,562,000</b>	<b>161,074,207</b>
Capital Levy In Water and Wastewater Budget			(8,864,428)	(9,345,027)	(10,124,430)	(10,803,623)	(11,715,599)	(12,566,680)	(13,653,182)	(14,671,858)	(15,755,418)	(16,610,259)	(124,110,505)
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)
<b>Target Policy for Net Expenditures (\$ Available) \$Funding Needed</b>			<b>(11,864,428)</b>	<b>(12,345,027)</b>	<b>(13,124,430)</b>	<b>(13,803,623)</b>	<b>(14,715,599)</b>	<b>(15,566,680)</b>	<b>(16,653,182)</b>	<b>(17,671,858)</b>	<b>(18,755,418)</b>	<b>(19,610,259)</b>	<b>(154,110,505)</b>
			<b>(7,349)</b>	<b>(43,027)</b>	<b>(29,430)</b>	<b>(36,623)</b>	<b>1,401</b>	<b>103,320</b>	<b>(55,382)</b>	<b>8,142</b>	<b>18,582</b>	<b>(48,259)</b>	<b>(88,626)</b>

**CAPITAL PROJECT INFORMATION SHEETS  
BY PROJECT NUMBER**



<b>Number:</b>	3212RD	<b>Scenario:</b>	Main
<b>Title:</b>	Francis St. Sewer Upsizing	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Growth (General)	<b>Strategic Plans:</b>	Growth / Economic Development,...
<b>Division:</b>	Capital - Infrastructure & Operations	<b>Project Type:</b>	
<b>Budget Year:</b>	2020	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
The project consists of upsizing the existing sanitary sewer on Francis Street and restoration of the roadway.	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.  Related projects include: 3212ST/SS/WS

<b>Scenario Description</b>	<b>Scenario Comments</b>

<b>Forecast</b>	<b>Project Detailed 2020</b>																
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<b>Related Projects</b>	<b>Operating Impacts</b>

Year Identified	Start Date	Useful Life	Manager	Completion Date
2012	Jan 1, 2020	25 Years	Gerry McCrank	Dec 31, 2024

<b>Number:</b>	3212SS	<b>Scenario:</b>	Main
<b>Title:</b>	Francis St. Sewer Upsizing	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Growth (Water and Wastewater)	<b>Strategic Plans:</b>	Growth / Economic Development,...
<b>Division:</b>	Capital - Sewer	<b>Project Type:</b>	
<b>Budget Year:</b>	2020	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
The project consists of upsizing the existing sanitary sewer on Francis Street and restoration of the roadway.	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.  Related projects include: 3212RD/ST/WS

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<b>Related Projects</b>	<b>Operating Impacts</b>

Year Identified	Start Date	Useful Life	Manager	Completion Date
2012	Jan 1, 2020	75 Years	Gerry McCrank	Dec 31, 2024

<b>Number:</b>	3212ST	<b>Scenario:</b>	Main
<b>Title:</b>	Francis St. Sewer Upsizing	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Growth (General)	<b>Strategic Plans:</b>	Growth / Economic Development,...
<b>Division:</b>	Capital - Infrastructure & Operations	<b>Project Type:</b>	
<b>Budget Year:</b>	2020	<b>Active:</b>	Yes

<b>Description</b>		<b>Comments</b>	
The project consists of upsizing the existing sanitary sewer on Francis Street and restoration of the roadway.		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.	
		Related projects include: 3212RD/SS/WS	

<b>Scenario Description</b>		<b>Scenario Comments</b>	

<b>Forecast</b>		<b>Project Detailed 2020</b>	
<b>Budget Year</b>	<b>Total Expense</b>	<b>Total Revenue</b>	<b>Difference</b>
2021	50,000	50,000	0
2024	1,000,000	1,000,000	0
	<b>1,050,000</b>	<b>1,050,000</b>	<b>0</b>
<b>LTD Amount:</b> 0		<b>Total Project Cost:</b> 1,050,000	

<b>Related Projects</b>		<b>Operating Impacts</b>	

<b>Year Identified</b>	<b>Start Date</b>	<b>Useful Life</b>	<b>Manager</b>	<b>Completion Date</b>
2012	Jan 1, 2020	75 Years	Gerry McCrank	Dec 31, 2024

<b>Number:</b>	3212WS	<b>Scenario:</b>	Main
<b>Title:</b>	Francis St. Sewer Upsizing	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Growth (Water and Wastewater)	<b>Strategic Plans:</b>	Growth / Economic Development,...
<b>Division:</b>	Capital - Water	<b>Project Type:</b>	
<b>Budget Year:</b>	2020	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
The project consists of upsizing the existing sanitary sewer on Francis Street and restoration of the roadway.	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.  Related projects include: 3212RD/ST/SS

<b>Scenario Description</b>	<b>Scenario Comments</b>

<b>Forecast</b>	<b>Project Detailed 2020</b>																				
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<b>Related Projects</b>	<b>Operating Impacts</b>

Year Identified	Start Date	Useful Life	Manager	Completion Date
2012	Jan 1, 2020	75 Years	Gerry McCrank	Dec 31, 2024

<b>Number:</b>	3216GG	<b>Scenario:</b>	Main
<b>Title:</b>	Capital Financing	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Strategic Investment (General)	<b>Strategic Plans:</b>	Master Plans
<b>Division:</b>	Capital - General Government	<b>Project Type:</b>	
<b>Budget Year:</b>	2020	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
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.	

<b>Scenario Description</b>	<b>Scenario Comments</b>

<b>Forecast</b>	<b>Project Detailed 2020</b>																																																																									
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<b>Related Projects</b>	<b>Operating Impacts</b>			
<b>Year Identified</b>	<b>Start Date</b>	<b>Useful Life</b>	<b>Manager</b>	<b>Completion Date</b>
2012	Jan 1, 2012	N/A	Margaret Karpenko	Dec 31, 2029

<b>Number:</b>	3302ST	<b>Scenario:</b>	Main
<b>Title:</b>	Trunk Sewer Rehab - Pinewood Fingers Creek	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (General)	<b>Strategic Plans:</b>	Infrastructure / Sustainability
<b>Division:</b>	Capital - Infrastructure & Operations	<b>Project Type:</b>	
<b>Budget Year:</b>	2020	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
<p>The project provides for engineering and construction services for major culvert improvements at various locations along the Pinewood Fingers Creek. Culvert upgrades anticipated include 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 technical assistance.</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>

<b>Scenario Description</b>	<b>Scenario Comments</b>

<b>Forecast</b>	<b>Project Detailed 2020</b>																				
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<b>Related Projects</b>	<b>Operating Impacts</b>

Year Identified	Start Date	Useful Life	Manager	Completion Date
2011	Jan 1, 2021	75 Years	Adam Lacombe	Dec 31, 2026

<b>Number:</b>	3405PK	<b>Scenario:</b>	Main
<b>Title:</b>	Parking Property Acquisition Program	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Strategic Investment (General)	<b>Strategic Plans:</b>	Growth / Economic Development
<b>Division:</b>	Capital - Infrastructure & Operations	<b>Project Type:</b>	
<b>Budget Year:</b>	2020	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
The project is to provide funds for the purchase of lands for future parking uses.	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.  Project is funded by the Property Development Reserve (99535R) which was established to fund the purchase of property and the development of the City.

<b>Scenario Description</b>	<b>Scenario Comments</b>

<b>Forecast</b>	<b>Project Detailed 2020</b>																								
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<b>Related Projects</b>	<b>Operating Impacts</b>

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

<b>Number:</b>	3500RD	<b>Scenario:</b>	Main
<b>Title:</b>	Lakeshore Dr. Area - Trunk Watermain and Sewer - Phase 1 - Judge to Gertrude	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (General)	<b>Strategic Plans:</b>	Growth / Economic Development,...
<b>Division:</b>	Capital - Infrastructure & Operations	<b>Project Type:</b>	
<b>Budget Year:</b>	2020	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
<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 3500ST/SS/WS, Phase 2 - 3802RD/ST/SS/WS</p>

<b>Scenario Description</b>	<b>Scenario Comments</b>

<b>Forecast</b>	<b>Project Detailed 2020</b>																
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<b>Related Projects</b>	<b>Operating Impacts</b>

Year Identified	Start Date	Useful Life	Manager	Completion Date
2011	Jan 1, 2017	25 Years	Gerry McCrank	Dec 31, 2025



<b>Number:</b>	3500SS	<b>Scenario:</b>	Main
<b>Title:</b>	Lakeshore Dr. Area - Trunk Watermain and Sewer - Phase 1 - Judge to Gertrude	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (Water and Wastewater)	<b>Strategic Plans:</b>	Growth / Economic Development,...
<b>Division:</b>	Capital - Sewer	<b>Project Type:</b>	
<b>Budget Year:</b>	2020	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
<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 3500RD/ST/WS, Phase 2 - 3802RD/ST/SS/WS</p>

<b>Scenario Description</b>	<b>Scenario Comments</b>

<b>Forecast</b>	<b>Project Detailed 2020</b>																
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<b>Related Projects</b>	<b>Operating Impacts</b>

Year Identified	Start Date	Useful Life	Manager	Completion Date
2011	Jan 1, 2017	75 Years	Gerry McCrank	Dec 31, 2025

<b>Number:</b>	3500ST	<b>Scenario:</b>	Main
<b>Title:</b>	Lakeshore Dr. Area - Trunk Watermain and Sewer - Phase 1 - Judge to Gertrude	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (General)	<b>Strategic Plans:</b>	Growth / Economic Development
<b>Division:</b>	Capital - Infrastructure & Operations	<b>Project Type:</b>	
<b>Budget Year:</b>	2020	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
<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 3500RD/SS/WS, Phase 2 - 3802RD/ST/SS/WS</p>

<b>Scenario Description</b>	<b>Scenario Comments</b>

<b>Forecast</b>	<b>Project Detailed 2020</b>																
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<b>Related Projects</b>	<b>Operating Impacts</b>

Year Identified	Start Date	Useful Life	Manager	Completion Date
2011	Jan 1, 2017	75 Years	Gerry McCrank	Dec 31, 2025

<b>Number:</b>	3500WS	<b>Scenario:</b>	Main
<b>Title:</b>	Lakeshore Dr. Area - Trunk Watermain and Sewer - Phase 1 - Judge to Gertrude	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (Water and Wastewater)	<b>Strategic Plans:</b>	Growth / Economic Development,...
<b>Division:</b>	Capital - Water	<b>Project Type:</b>	
<b>Budget Year:</b>	2020	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
<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 3500RD/ST/SS, Phase 2 - 3802RD/ST/SS/WS</p>

<b>Scenario Description</b>	<b>Scenario Comments</b>

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<b>LTD Amount:</b> 320,000		<b>Total Project Cost:</b> 2,820,000															

<b>Related Projects</b>	<b>Operating Impacts</b>

Year Identified	Start Date	Useful Life	Manager	Completion Date
2011	Jan 1, 2017	75 Years	Gerry McCrank	Dec 31, 2025

<b>Number:</b>	3506ST	<b>Scenario:</b>	Main
<b>Title:</b>	Stormwater Management - Overland Flow Control Study	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (General)	<b>Strategic Plans:</b>	Infrastructure / Sustainability, Master Plans
<b>Division:</b>	Capital - Infrastructure & Operations	<b>Project Type:</b>	
<b>Budget Year:</b>	2020	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
<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) leading to the identification of repair and rehabilitation candidates.</p> <p>Engineering services will include mapping of drainage areas, analysis of the major and minor (storm sewer) systems and identification of repairs and rehabilitation 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>

<b>Scenario Description</b>	<b>Scenario Comments</b>

<b>Forecast</b>	<b>Project Detailed 2020</b>																
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Budget Year	Total Expense	Total Revenue	Difference														
2021	100,000	100,000	0														
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<b>LTD Amount:</b> 0	<b>Total Project Cost:</b> 100,000																

<b>Related Projects</b>	<b>Operating Impacts</b>			
<b>Year Identified</b>	<b>Start Date</b>	<b>Useful Life</b>	<b>Manager</b>	<b>Completion Date</b>
2011	Jan 1, 2021	N/A	Adam Lacombe	Dec 31, 2022

<b>Number:</b>	3508PR	<b>Scenario:</b>	Main
<b>Title:</b>	Parks and Playgrounds - New Neighbourhood Parks	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Growth (General)	<b>Strategic Plans:</b>	Growth / Economic Development
<b>Division:</b>	Capital - Community Services	<b>Project Type:</b>	
<b>Budget Year:</b>	2020	<b>Active:</b>	Yes

<b>Description</b>		<b>Comments</b>	
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 La Vase 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.	
<b>Scenario Description</b>		<b>Scenario Comments</b>	
		The following details support the Capital Forecast for 2021 to 2029: 2021 includes the development of a park in the Trillium Woods subdivision. 2024 includes the development of a park in the Sugar Bush subdivision. 2027 includes the development of a park in the Cedar Heights subdivision.	
<b>Forecast</b>		<b>Project Detailed 2020</b>	
<b>Budget Year</b>	<b>Total Expense</b>	<b>Total Revenue</b>	<b>Difference</b>
2021	200,000	200,000	0
2024	200,000	200,000	0
2027	200,000	200,000	0
	<b>600,000</b>	<b>600,000</b>	<b>0</b>
<b>LTD Amount:</b> 0		<b>Total Project Cost:</b> 600,000	
<b>Related Projects</b>		<b>Operating Impacts</b>	
<b>Year Identified</b>	<b>Start Date</b>	<b>Useful Life</b>	<b>Manager</b>
2011	Jan 1, 2021	TBD	David Schroeder
			<b>Completion Date</b>
			Dec 31, 2027

<b>Number:</b>	3509PZ	<b>Scenario:</b>	Main
<b>Title:</b>	Official Plan 5 Year Review and Study Update	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Strategic Investment (General)	<b>Strategic Plans:</b>	Master Plans
<b>Division:</b>	Capital - Community Services	<b>Project Type:</b>	
<b>Budget Year:</b>	2020	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
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.

<b>Scenario Description</b>	<b>Scenario Comments</b>

<b>Forecast</b>	<b>Project Detailed 2020</b>																																															
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<b>Related Projects</b>	<b>Operating Impacts</b>

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

<b>Number:</b>	3514SS	<b>Scenario:</b>	Main
<b>Title:</b>	Sage Area Trunk Sewer Improvements	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (Water and Wastewater)	<b>Strategic Plans:</b>	Infrastructure / Sustainability
<b>Division:</b>	Capital - Sewer	<b>Project Type:</b>	
<b>Budget Year:</b>	2020	<b>Active:</b>	Yes

<b>Description</b>				<b>Comments</b>			
<p>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>				<p>The undersized section runs from the intersection of K&amp;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>			
<b>Scenario Description</b>				<b>Scenario Comments</b>			
<b>Forecast</b>				<b>Project Detailed 2020</b>			
<b>Budget Year</b>	<b>Total Expense</b>	<b>Total Revenue</b>	<b>Difference</b>				
2023	500,000	500,000	0				
2026	3,000,000	3,000,000	0				
	<b>3,500,000</b>	<b>3,500,000</b>	<b>0</b>				
<b>LTD Amount:</b> 25,000		<b>Total Project Cost:</b> 3,525,000					
<b>Related Projects</b>				<b>Operating Impacts</b>			
<b>Year Identified</b>	<b>Start Date</b>	<b>Useful Life</b>	<b>Manager</b>			<b>Completion Date</b>	
2008	Jan 2, 2019	75 Years	Adam Lacombe			Dec 31, 2026	

<b>Number:</b>	3518PR	<b>Scenario:</b>	Main
<b>Title:</b>	King's Landing Commercialization of Waterfront	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Strategic Investment (General)	<b>Strategic Plans:</b>	Growth / Economic Development
<b>Division:</b>	Capital - Infrastructure & Operations	<b>Project Type:</b>	
<b>Budget Year:</b>	2020	<b>Active:</b>	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"> <li>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.</li> <li>2. Directed Staff to complete the Schedule C, Class EA Report and table it for the 30 day review period.</li> </ol> <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>Construction would be scheduled 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 2020																												
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Related Projects	Operating Impacts										
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Year Identified	Start Date	Useful Life	Manager	Completion Date							
2014	Jan 1, 2015	TBD	Gerry McCrank	Dec 31, 2025							



<b>Number:</b>	3613ST	<b>Scenario:</b>	Main
<b>Title:</b>	Local Drainage Rehab	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (General)	<b>Strategic Plans:</b>	Infrastructure / Sustainability, Maintenance
<b>Division:</b>	Capital - Infrastructure & Operations	<b>Project Type:</b>	
<b>Budget Year:</b>	2020	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
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.

<b>Scenario Description</b>	<b>Scenario Comments</b>

<b>Forecast</b>	<b>Project Detailed 2020</b>																
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<b>Related Projects</b>	<b>Operating Impacts</b>

Year Identified	Start Date	Useful Life	Manager	Completion Date
2016	Jan 1, 2016	TBD	Adam Lacombe	Dec 31, 2021

<b>Number:</b>	3618RD	<b>Scenario:</b>	Main
<b>Title:</b>	Wallace Pumping Station Replacement	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (General)	<b>Strategic Plans:</b>	Infrastructure / Sustainability
<b>Division:</b>	Capital - Infrastructure & Operations	<b>Project Type:</b>	
<b>Budget Year:</b>	2020	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
The program will allow for the replacement of the Wallace lift station as well as all of the equipment within.	The station is at the end of its useful life. Road restoration for forcemain relocation and gravity sewer installation.  Related project includes 3618SS.

<b>Scenario Description</b>	<b>Scenario Comments</b>

<b>Forecast</b>	<b>Project Detailed 2020</b>																																											
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<b>Related Projects</b>	<b>Operating Impacts</b>

Year Identified	Start Date	Useful Life	Manager	Completion Date
2016	Jan 1, 2018	25 Years	Gerry McCrank	Dec 31, 2020

<b>Number:</b>	3618SS	<b>Scenario:</b>	Main
<b>Title:</b>	Wallace Pumping Station Replacement	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (Water and Wastewater)	<b>Strategic Plans:</b>	Infrastructure / Sustainability
<b>Division:</b>	Capital - Sewer	<b>Project Type:</b>	
<b>Budget Year:</b>	2020	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
The program will allow for the replacement of the Wallace lift station as well as all of the equipment within.	The station is at the end of its useful life. Related project includes 3618RD.

<b>Scenario Description</b>	<b>Scenario Comments</b>

<b>Forecast</b>	<b>Project Detailed 2020</b>																																								
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<b>Related Projects</b>	<b>Operating Impacts</b>

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

<b>Number:</b>	3619RD	<b>Scenario:</b>	Main
<b>Title:</b>	Cassells St. - Phase 1 & 2	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (General)	<b>Strategic Plans:</b>	Infrastructure / Sustainability
<b>Division:</b>	Capital - Infrastructure & Operations	<b>Project Type:</b>	
<b>Budget Year:</b>	2020	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
The project involves the engineering and construction services for the complete reconstruction of Cassells Street from King Street to Highway 11/17. Works include replacement of the storm sewer, sanitary sewers, water mains, Chippewa Creek bridge, and reconstruction of the road to a four lane configuration.	The City's Capital Program has targeted upgrading the City's arterial roads as a primary objective and this portion of Cassells is one of the remaining arterials in need of upgrades. The traffic capacity has been reached requiring a wider roadway and the underground infrastructure is at the end of its useful life. The works were tendered in the fall of 2018 and construction commenced in the summer of 2019. Construction is anticipated to be completed in 2020.  The 2020 budget represents a pre-commitment approved by council in Report to Council number CORP 2019-70.  Related project includes 3619ST/SS/WS.

<b>Scenario Description</b>	<b>Scenario Comments</b>

<b>Forecast</b>	<b>Project Detailed 2020</b>																																											
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<b>Related Projects</b>	<b>Operating Impacts</b>

Year Identified	Start Date	Useful Life	Manager	Completion Date
2016	Jan 1, 2016	25 Years	Gerry McCrank	Nov 30, 2020

<b>Number:</b>	3619ST	<b>Scenario:</b>	Main
<b>Title:</b>	Cassells St. - Phase 1 & 2	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (General)	<b>Strategic Plans:</b>	Infrastructure / Sustainability
<b>Division:</b>	Capital - Infrastructure & Operations	<b>Project Type:</b>	
<b>Budget Year:</b>	2020	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
The project involves the engineering and construction services for the complete reconstruction of Cassells Street from King Street to Highway 11/17. Works include replacement of the storm sewer, sanitary sewers, watermain, Chippewa Creek bridge, and reconstruction of the road to a four lane configuration.	The City's Capital Program has targeted upgrading the City's arterial roads as a primary objective and this portion of Cassells is one of the remaining arterials in need of upgrades. The traffic capacity has been reached requiring a wider roadway and the underground infrastructure is at the end of its useful life. The works were tendered in the fall of 2018 and construction commenced in the summer of 2019. Construction is anticipated to be completed in 2020.  The 2020 budget represents a pre-commitment approved by council in Report to Council number Corp 2019-70.  Related project includes 3619RD/SS/WS.

<b>Scenario Description</b>	<b>Scenario Comments</b>

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<b>Related Projects</b>	<b>Operating Impacts</b>

Year Identified	Start Date	Useful Life	Manager	Completion Date
2016	Jan 1, 2016	75 Years	Gerry McCrank	Nov 30, 2020

<b>Number:</b>	3620WS	<b>Scenario:</b>	Main
<b>Title:</b>	CFB Reservoir Replacement	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (Water and Wastewater)	<b>Strategic Plans:</b>	Infrastructure / Sustainability
<b>Division:</b>	Capital - Water	<b>Project Type:</b>	
<b>Budget Year:</b>	2020	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
This project provides for the engineering and construction services for the replacement of the CFB reservoir.	The CFB reservoir is critical to ensure the reliable supply of drinking water to Zone 3. The reservoir is in poor condition and due for replacement. The engineering design will look at various options and locations to replace the function of the reservoir.

<b>Scenario Description</b>	<b>Scenario Comments</b>

<b>Forecast</b>	<b>Project Detailed 2020</b>																																											
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<b>Related Projects</b>	<b>Operating Impacts</b>

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

<b>Number:</b>	3700RD	<b>Scenario:</b>	Main
<b>Title:</b>	Seymour St. - Station to Wallace - Widening and Signals	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Growth (General)	<b>Strategic Plans:</b>	Growth / Economic Development,...
<b>Division:</b>	Capital - Infrastructure & Operations	<b>Project Type:</b>	
<b>Budget Year:</b>	2020	<b>Active:</b>	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/ST/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, 2024	25 Years	Gerry McCrank	Dec 31, 2026

<b>Number:</b>	3700SS	<b>Scenario:</b>	Main
<b>Title:</b>	Seymour St. - Station to Wallace - Widening and Signals	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Growth (Water and Wastewater)	<b>Strategic Plans:</b>	Growth / Economic Development,...
<b>Division:</b>	Capital - Sewer	<b>Project Type:</b>	
<b>Budget Year:</b>	2020	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
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>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/ST/WS.</p>

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<b>Forecast</b>	<b>Project Detailed 2020</b>																				
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<b>Related Projects</b>	<b>Operating Impacts</b>

Year Identified	Start Date	Useful Life	Manager	Completion Date
2011	Jan 1, 2024	75 Years	Gerry McCrank	Dec 31, 2026



<b>Number:</b>	3700ST	<b>Scenario:</b>	Main
<b>Title:</b>	Seymour St. - Station to Wallace - Widening and Signals	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Growth (General)	<b>Strategic Plans:</b>	Growth / Economic Development,...
<b>Division:</b>	Capital - Infrastructure & Operations	<b>Project Type:</b>	
<b>Budget Year:</b>	2020	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
<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/ST/WS.</p>

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<b>Related Projects</b>	<b>Operating Impacts</b>

Year Identified	Start Date	Useful Life	Manager	Completion Date
2011	Jan 1, 2024	75 Years	Gerry McCrank	Dec 31, 2026

<b>Number:</b>	3700WS	<b>Scenario:</b>	Main
<b>Title:</b>	Seymour St. - Station to Wallace - Widening and Signals	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Growth (Water and Wastewater)	<b>Strategic Plans:</b>	Growth / Economic Development,...
<b>Division:</b>	Capital - Water	<b>Project Type:</b>	
<b>Budget Year:</b>	2020	<b>Active:</b>	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/ST/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, 2024	75 Years	Gerry McCrank	Dec 31, 2026

<b>Number:</b>	3701RD	<b>Scenario:</b>	Main
<b>Title:</b>	Norman/Chapais Connection Watermain	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Strategic Investment (General)	<b>Strategic Plans:</b>	Growth / Economic Development,...
<b>Division:</b>	Capital - Infrastructure & Operations	<b>Project Type:</b>	
<b>Budget Year:</b>	2020	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
<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>

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<b>Related Projects</b>	<b>Operating Impacts</b>

Year Identified	Start Date	Useful Life	Manager	Completion Date
2011	Jan 1, 2026	25 Years	Adam Lacombe	Dec 31, 2028

<b>Number:</b>	3701ST	<b>Scenario:</b>	Main
<b>Title:</b>	Norman/Chapais Connection Watermain	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Strategic Investment (General)	<b>Strategic Plans:</b>	Growth / Economic Development,...
<b>Division:</b>	Capital - Infrastructure & Operations	<b>Project Type:</b>	
<b>Budget Year:</b>	2020	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
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<b>Scenario Description</b>	<b>Scenario Comments</b>

<b>Forecast</b>	<b>Project Detailed 2020</b>																				
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<b>Related Projects</b>	<b>Operating Impacts</b>

Year Identified	Start Date	Useful Life	Manager	Completion Date
2011	Jan 1, 2026	75 Years	Adam Lacombe	Dec 31, 2028

<b>Number:</b>	3701WS	<b>Scenario:</b>	Main
<b>Title:</b>	Norman/Chapais Connection Watermain	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Strategic Investment (Water and Wastewater)	<b>Strategic Plans:</b>	Growth / Economic Development,...
<b>Division:</b>	Capital - Water	<b>Project Type:</b>	
<b>Budget Year:</b>	2020	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
<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>

<b>Scenario Description</b>	<b>Scenario Comments</b>

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<b>LTD Amount: 0</b>		<b>Total Project Cost: 840,000</b>																			

<b>Related Projects</b>	<b>Operating Impacts</b>

Year Identified	Start Date	Useful Life	Manager	Completion Date
2011	Jan 1, 2026	75 Years	Adam Lacombe	Dec 31, 2028

<b>Number:</b>	3702PR	<b>Scenario:</b>	Main
<b>Title:</b>	Waterfront Building Rehab and Development	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Growth (General)	<b>Strategic Plans:</b>	Growth / Economic Development, Maintenance
<b>Division:</b>	Capital - Community Services	<b>Project Type:</b>	
<b>Budget Year:</b>	2020	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
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 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>

<b>Scenario Description</b>	<b>Scenario Comments</b>

<b>Forecast</b>	<b>Project Detailed 2020</b>																
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<b>Related Projects</b>	<b>Operating Impacts</b>

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

<b>Number:</b>	3711RF	<b>Scenario:</b>	Main
<b>Title:</b>	City of North Bay Community and Recreation Centre	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Growth (General)	<b>Strategic Plans:</b>	Growth / Economic Development,...
<b>Division:</b>	Capital - Community Services	<b>Project Type:</b>	
<b>Budget Year:</b>	2020	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
The project provides for the design and construction of a new double ice pad facility.	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.  Related projects include 4025RD.

<b>Scenario Description</b>	<b>Scenario Comments</b>

<b>Forecast</b>	<b>Project Detailed 2020</b>																																																
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<b>Related Projects</b>	<b>Operating Impacts</b>

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

<b>Number:</b>	3715RD	<b>Scenario:</b>	Main
<b>Title:</b>	Pinewood Park & Lakeshore Drive Intersection Reconstruction	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Growth (General)	<b>Strategic Plans:</b>	Growth / Economic Development,...
<b>Division:</b>	Capital - Infrastructure & Operations	<b>Project Type:</b>	
<b>Budget Year:</b>	2020	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
<p>The project involves the engineering and construction services to reconstruct the intersection of Pinewood Park and Lakeshore Drive. 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, 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>

<b>Scenario Description</b>	<b>Scenario Comments</b>

<b>Forecast</b>	<b>Project Detailed 2020</b>																																															
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<b>Related Projects</b>	<b>Operating Impacts</b>

Year Identified	Start Date	Useful Life	Manager	Completion Date
2017	Jan 1, 2018	25 Years	Reid Porter	Dec 31, 2021



<b>Number:</b>	3718PR	<b>Scenario:</b>	Main
<b>Title:</b>	West Link Trail Development	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Strategic Investment (General)	<b>Strategic Plans:</b>	Growth / Economic Development, Master Plans
<b>Division:</b>	Capital - Community Services	<b>Project Type:</b>	
<b>Budget Year:</b>	2020	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
The program provides for the planning and development of the trail system including required road work to improve the system,	<p>This project provides funding for various trail initiatives and regional linkages as identified in the Trails Strategy and recommended to Council by the City's Trails Committee. The project will improve the West Link of the City's Active Transportation Network.</p> <p>In 2017, funding of \$325,000 was provided by the Ontario Municipal Cycling Infrastructure Program (OMCIP). City Staff have currently applied for an extension in order to complete this project in 2020.</p> <p>Related projects includes 3718RD.</p>

<b>Scenario Description</b>	<b>Scenario Comments</b>

<b>Forecast</b>	<b>Project Detailed 2020</b>																																											
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<b>Related Projects</b>	<b>Operating Impacts</b>

Year Identified	Start Date	Useful Life	Manager	Completion Date
2015	Jan 1, 2017	TBD	Adam Lacombe	Dec 31, 2020

<b>Number:</b>	3718RD	<b>Scenario:</b>	Main
<b>Title:</b>	West Link Trail Development & Memorial Drive Intersection Improvement	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Strategic Investment (General)	<b>Strategic Plans:</b>	Growth / Economic Development, Master Plans
<b>Division:</b>	Capital - Infrastructure & Operations	<b>Project Type:</b>	
<b>Budget Year:</b>	2020	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
The program provides for the planning and development of the trail system and related road work required to improve the system.	<p>This project provides funding for various trail initiatives and regional linkages as identified in the Trails Strategy and recommended to Council by the City's Trails Committee. The project will improve the West link of the City's Active Transportation Network.</p> <p>Modifications to the Main &amp; Memorial intersection and to Oak Street were first identified as part of the City's share towards improvements required for development of the property at Oak and Memorial that now contains the Homewood Suites Hotel and other portions of the site for future development. These improvements included reconfiguring the intersection to restrict left turns in and out of Oak at Memorial, which was identified through the Traffic Impact Study for the development. It was also recognized that a new sidewalk on Oak adjacent to the development would be desirable to connect to the existing systems on Oak southeast of Foran and on Memorial. Through the design process, it was identified that corrections to the lane alignments on the Memorial leg of the intersection would be desirable to better align the traffic with Murray Street. It was also identified that it would be beneficial to add a left turn lane on the Murray leg opposite of the left turn lane on the Memorial leg.</p> <p>Through the Environmental Assessment process, it was identified that the preferred route for the West Link recreational pathway was through the intersection. Part of the works through the intersection will include bike lanes and accommodations for bike left turns.</p> <p>Related project includes 3718PR.</p>

<b>Scenario Description</b>	<b>Scenario Comments</b>

<b>Forecast</b>	<b>Project Detailed 2020</b>																																											
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<b>Related Projects</b>	<b>Operating Impacts</b>

Year Identified	Start Date	Useful Life	Manager	Completion Date
2015	Jan 1, 2017		Adam Lacombe	Dec 31, 2019

<b>Number:</b>	3719SS	<b>Scenario:</b>	Main
<b>Title:</b>	Digester Replacement	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (Water and Wastewater)	<b>Strategic Plans:</b>	Infrastructure / Sustainability, Maintenance
<b>Division:</b>	Capital - Sewer	<b>Project Type:</b>	
<b>Budget Year:</b>	2020	<b>Active:</b>	Yes

<b>Description</b>		<b>Comments</b>	
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.	

<b>Scenario Description</b>		<b>Scenario Comments</b>	
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<b>Forecast</b>				<b>Project Detailed 2020</b>		
<b>Budget Year</b>	<b>Total Expense</b>	<b>Total Revenue</b>	<b>Difference</b>	<b>GL Account</b>	<b>Description</b>	<b>Total Amount</b>
2020	900,000	900,000	0	<b>Expense</b>		
2021	800,000	800,000	0	3425	CONSTRUCTION CONTRACT	869,565
2022	1,300,000	1,300,000	0	7010	ADMINISTRATON & OVERHEAD	30,435
	<b>3,000,000</b>	<b>3,000,000</b>	<b>0</b>		<b>Total Expense:</b>	<b>900,000</b>
<b>LTD Amount:</b> 200,000		<b>Total Project Cost:</b> 3,200,000		<b>Revenue</b>		
				0461	TSF FRM REV FUND-PAYGO	900,000
					<b>Total Revenue:</b>	<b>900,000</b>

<b>Related Projects</b>		<b>Operating Impacts</b>	
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<b>Year Identified</b>	<b>Start Date</b>	<b>Useful Life</b>	<b>Manager</b>	<b>Completion Date</b>
2017	Jan 1, 2018	50 Years	Karin Pratte	Dec 31, 2022

<b>Number:</b>	3720RF	<b>Scenario:</b>	Main
<b>Title:</b>	Pete Palangio Parking Lot Rehab	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (General)	<b>Strategic Plans:</b>	Infrastructure / Sustainability, Maintenance
<b>Division:</b>	Capital - Community Services	<b>Project Type:</b>	
<b>Budget Year:</b>	2020	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
The project is to provide lighting, drainage, grading and new asphalt for Pete Palangio arena parking lot.	The budget in 2020 includes costs associated with engineering and the rehabilitation of the entire parking lot including asphalt, lot drainage, lighting, general grading and correction of negative grading around the building perimeter.

<b>Scenario Description</b>	<b>Scenario Comments</b>

<b>Forecast</b>	<b>Project Detailed 2020</b>																																								
<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>2020</td> <td>540,000</td> <td>540,000</td> <td>0</td> </tr> <tr> <td></td> <td><b>540,000</b></td> <td><b>540,000</b></td> <td><b>0</b></td> </tr> <tr> <td colspan="2"><b>LTD Amount:</b> 110,000</td> <td colspan="2"><b>Total Project Cost:</b> 650,000</td> </tr> </tbody> </table>	Budget Year	Total Expense	Total Revenue	Difference	2020	540,000	540,000	0		<b>540,000</b>	<b>540,000</b>	<b>0</b>	<b>LTD Amount:</b> 110,000		<b>Total Project Cost:</b> 650,000		<table border="1"> <thead> <tr> <th>GL Account</th> <th>Description</th> <th>Total Amount</th> </tr> </thead> <tbody> <tr> <td colspan="3"><b>Expense</b></td> </tr> <tr> <td>3425</td> <td>CONSTRUCTION CONTRACT</td> <td>540,000</td> </tr> <tr> <td colspan="2"><b>Total Expense:</b></td> <td><b>540,000</b></td> </tr> <tr> <td colspan="3"><b>Revenue</b></td> </tr> <tr> <td>0470</td> <td>TSF FROM RESERVE FUND</td> <td>140,000</td> </tr> <tr> <td>5901</td> <td>DEBENTURE PROCEEDS</td> <td>400,000</td> </tr> <tr> <td colspan="2"><b>Total Revenue:</b></td> <td><b>540,000</b></td> </tr> </tbody> </table>	GL Account	Description	Total Amount	<b>Expense</b>			3425	CONSTRUCTION CONTRACT	540,000	<b>Total Expense:</b>		<b>540,000</b>	<b>Revenue</b>			0470	TSF FROM RESERVE FUND	140,000	5901	DEBENTURE PROCEEDS	400,000	<b>Total Revenue:</b>		<b>540,000</b>
Budget Year	Total Expense	Total Revenue	Difference																																						
2020	540,000	540,000	0																																						
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0470	TSF FROM RESERVE FUND	140,000																																							
5901	DEBENTURE PROCEEDS	400,000																																							
<b>Total Revenue:</b>		<b>540,000</b>																																							

<b>Related Projects</b>	<b>Operating Impacts</b>

Year Identified	Start Date	Useful Life	Manager	Completion Date
2017	Jan 1, 2019	10 Years	David Jackowski	Dec 31, 2020

<b>Number:</b>	3801RD	<b>Scenario:</b>	Main
<b>Title:</b>	McKeown Ave. Widening - Gormanville to Cartier	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Growth (General)	<b>Strategic Plans:</b>	Growth / Economic Development,...
<b>Division:</b>	Capital - Infrastructure & Operations	<b>Project Type:</b>	
<b>Budget Year:</b>	2020	<b>Active:</b>	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 evaluation and design, detailed design, agency approvals, contract drawings, specifications, tendering and construction technical assistance.</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. Several traffic studies have identified that the recent development on McKeown Avenue will require the widening to accommodate increased traffic.</p> <p>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>Budget includes funding through the Investing in Canada Infrastructure Program. City is awaiting Federal approval of the submitted application.</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 3801/ST/SS/WS.</p>			
Scenario Description			Scenario Comments			
Forecast			Project Detailed 2020			
<b>Budget Year</b>	<b>Total Expense</b>	<b>Total Revenue</b>	<b>Difference</b>	<b>GL Account</b>	<b>Description</b>	<b>Total Amount</b>
2020	300,000	300,000	0	<b>Expense</b>		
2022	5,500,000	5,500,000	0	1001	REGULAR SALARIES	21,000
	<b>5,800,000</b>	<b>5,800,000</b>	<b>0</b>	1101	OVERTIME FULLTIME	3,000
<b>LTD Amount: 0</b>		<b>Total Project Cost: 5,800,000</b>		1801	FRINGE BENEFITS-FULLTIME	6,300
				3099	MISC ADMIN EXPENSES	4,950
				3117	DESIGN FEES	165,000
				3130	CONSULTANT FEES	39,000
				4025	DEBENTURE ISSUE COSTS	1,500
				4401	CONTINGENCY	3,355
				5001	LAND	45,000
				7001	VEH & EQUIPMENT USAGE FEE	750
				7010	ADMINISTRATON & OVERHEAD	10,145
					<b>Total Expense:</b>	<b>300,000</b>
				<b>Revenue</b>		
				0461	TSF FRM REV FUND-PAYGO	83,863
				0543	INVESTING IN CANADA (ICIP) - PROVINCIAL	86,450
				0643	INVESTING IN CANADA (ICIP) - FEDERAL	129,687
					<b>Total Revenue:</b>	<b>300,000</b>
Related Projects			Operating Impacts			
Year Identified	Start Date	Useful Life	Manager		Completion Date	
2011	Jan 1, 2020	25 Years	Reid Porter		Dec 31, 2022	

<b>Number:</b>	3801SS	<b>Scenario:</b>	Main
<b>Title:</b>	McKeown Ave. Widening - Gormanville to Cartier	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Growth (Water and Wastewater)	<b>Strategic Plans:</b>	Growth / Economic Development,...
<b>Division:</b>	Capital - Sewer	<b>Project Type:</b>	
<b>Budget Year:</b>	2020	<b>Active:</b>	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 evaluation and design, detailed design, agency approvals, contract drawings, specifications, tendering and construction technical assistance.</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. Several traffic studies have identified that the recent development on McKeown Avenue will require the widening to accommodate increased traffic.</p> <p>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 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>		
Scenario Description				Scenario Comments		
Forecast				Project Detailed 2020		
Budget Year	Total Expense	Total Revenue	Difference	GL Account	Description	Total Amount
2020	75,000	75,000	0	<b>Expense</b>		
2022	1,175,000	1,175,000	0	1001	REGULAR SALARIES	5,250
	<b>1,250,000</b>	<b>1,250,000</b>	<b>0</b>	1101	OVERTIME FULLTIME	750
<b>LTD Amount: 0</b>		<b>Total Project Cost: 1,250,000</b>		1801	FRINGE BENEFITS-FULLTIME	1,575
				3099	MISC ADMIN EXPENSES	1,238
				3117	DESIGN FEES	41,250
				3130	CONSULTANT FEES	9,750
				4025	DEBENTURE ISSUE COSTS	375
				4401	CONTINGENCY	838
				5001	LAND	11,250
				7001	VEH & EQUIPMENT USAGE FEE	188
				7010	ADMINISTRATON & OVERHEAD	2,536
					<b>Total Expense:</b>	<b>75,000</b>
				<b>Revenue</b>		
				0284	DEVELOPMENT CHARGES	18,750
				0461	TSF FRM REV FUND-PAYGO	56,250
					<b>Total Revenue:</b>	<b>75,000</b>
Related Projects				Operating Impacts		
Year Identified	Start Date	Useful Life	Manager		Completion Date	
2011	Jan 1, 2020	75 Years	Reid Porter		Dec 31, 2022	



<b>Number:</b>	3801ST	<b>Scenario:</b>	Main
<b>Title:</b>	McKeown Ave. Widening - Gormanville to Cartier	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Growth (General)	<b>Strategic Plans:</b>	Growth / Economic Development,...
<b>Division:</b>	Capital - Infrastructure & Operations	<b>Project Type:</b>	
<b>Budget Year:</b>	2020	<b>Active:</b>	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 evaluation and design, detailed design, agency approvals, contract drawings, specifications, tendering and construction technical assistance.</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. Several traffic studies have identified that the recent development on McKeown Avenue will require the widening to accommodate increased traffic.</p> <p>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 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>		
Scenario Description				Scenario Comments		
Forecast				Project Detailed 2020		
Budget Year	Total Expense	Total Revenue	Difference	GL Account	Description	Total Amount
2020	50,000	50,000	0	<b>Expense</b>		
2022	725,000	725,000	0	1001	REGULAR SALARIES	3,500
	<b>775,000</b>	<b>775,000</b>	<b>0</b>	1101	OVERTIME FULLTIME	500
<b>LTD Amount: 0</b>		<b>Total Project Cost: 775,000</b>		1801	FRINGE BENEFITS-FULLTIME	1,050
				3099	MISC ADMIN EXPENSES	825
				3117	DESIGN FEES	27,500
				3130	CONSULTANT FEES	6,500
				4025	DEBENTURE ISSUE COSTS	250
				4401	CONTINGENCY	559
				5001	LAND	7,500
				7001	VEH & EQUIPMENT USAGE FEE	125
				7010	ADMINISTRATON & OVERHEAD	1,691
					<b>Total Expense:</b>	<b>50,000</b>
				<b>Revenue</b>		
				0461	TSF FRM REV FUND-PAYGO	50,000
					<b>Total Revenue:</b>	<b>50,000</b>
Related Projects				Operating Impacts		
Year Identified	Start Date	Useful Life	Manager		Completion Date	
2011	Jan 1, 2020	75 Years	Reid Porter		Dec 31, 2022	

<b>Number:</b>	3801WS	<b>Scenario:</b>	Main
<b>Title:</b>	McKeown Ave. Widening - Gormanville to Cartier	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Growth (Water and Wastewater)	<b>Strategic Plans:</b>	Growth / Economic Development,...
<b>Division:</b>	Capital - Water	<b>Project Type:</b>	
<b>Budget Year:</b>	2020	<b>Active:</b>	Yes

Description				Comments		
<p>The project involves the engineering design and construction services for the complete reconstruction of the above-ground infrastructure and storm sewer and to widen McKeown Avenue to four lanes between Gormanville Road and Cartier Street.</p> <p>Engineering services will include preliminary evaluation and design, detailed design, agency approvals, contract drawings, specifications, tendering and construction technical assistance.</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. Several traffic studies have identified that the recent development on McKeown Avenue will require the widening to accommodate increased traffic.</p> <p>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 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		
Forecast				Project Detailed 2020		
Budget Year	Total Expense	Total Revenue	Difference	GL Account	Description	Total Amount
2020	75,000	75,000	0	<b>Expense</b>		
2022	1,125,000	1,125,000	0	1001	REGULAR SALARIES	5,250
	<b>1,200,000</b>	<b>1,200,000</b>	<b>0</b>	1101	OVERTIME FULLTIME	750
<b>LTD Amount: 0</b>		<b>Total Project Cost: 1,200,000</b>		1801	FRINGE BENEFITS-FULLTIME	1,575
				3099	MISC ADMIN EXPENSES	1,238
				3117	DESIGN FEES	41,250
				3130	CONSULTANT FEES	9,750
				4025	DEBENTURE ISSUE COSTS	375
				4401	CONTINGENCY	838
				5001	LAND	11,250
				7001	VEH & EQUIPMENT USAGE FEE	188
				7010	ADMINISTRATON & OVERHEAD	2,536
					<b>Total Expense:</b>	<b>75,000</b>
				<b>Revenue</b>		
				0284	DEVELOPMENT CHARGES	18,750
				0461	TSF FRM REV FUND-PAYGO	56,250
					<b>Total Revenue:</b>	<b>75,000</b>
Related Projects				Operating Impacts		
Year Identified	Start Date	Useful Life	Manager		Completion Date	
2011	Jan 1, 2020	75 Years	Reid Porter		Dec 31, 2022	

<b>Number:</b>	3802RD	<b>Scenario:</b>	Main
<b>Title:</b>	Lakeshore Dr. - Trunk Watermain and Sewer - Phase 2 - Gertrude to Marshall	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (General)	<b>Strategic Plans:</b>	Growth / Economic Development,...
<b>Division:</b>	Capital - Infrastructure & Operations	<b>Project Type:</b>	
<b>Budget Year:</b>	2020	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
<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; 3500RD/ST/SS/WS for Phase 1; 3802ST/SS/WS for Phase 2</p>

<b>Scenario Description</b>	<b>Scenario Comments</b>

<b>Forecast</b>	<b>Project Detailed 2020</b>																				
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Budget Year	Total Expense	Total Revenue	Difference																		
2025	350,000	350,000	0																		
2027	4,700,000	4,700,000	0																		
	<b>5,050,000</b>	<b>5,050,000</b>	<b>0</b>																		
<b>LTD Amount: 0</b>		<b>Total Project Cost: 5,050,000</b>																			

<b>Related Projects</b>	<b>Operating Impacts</b>

Year Identified	Start Date	Useful Life	Manager	Completion Date
2011	Jan 1, 2025	25 Years	Adam Lacombe	Dec 31, 2027

<b>Number:</b>	3802SS	<b>Scenario:</b>	Main
<b>Title:</b>	Lakeshore Dr. - Trunk Watermain and Sewer - Phase 2 - Gertrude to Marshall	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (Water and Wastewater)	<b>Strategic Plans:</b>	Growth / Economic Development,...
<b>Division:</b>	Capital - Sewer	<b>Project Type:</b>	
<b>Budget Year:</b>	2020	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
<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; 3500RD/ST/SS/WS for Phase 1; 3802RD/ST/WS for Phase 2</p>

<b>Scenario Description</b>	<b>Scenario Comments</b>

<b>Forecast</b>	<b>Project Detailed 2020</b>																				
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Budget Year	Total Expense	Total Revenue	Difference																		
2025	190,000	190,000	0																		
2027	2,500,000	2,500,000	0																		
	<b>2,690,000</b>	<b>2,690,000</b>	<b>0</b>																		
<b>LTD Amount: 0</b>		<b>Total Project Cost: 2,690,000</b>																			

<b>Related Projects</b>	<b>Operating Impacts</b>

Year Identified	Start Date	Useful Life	Manager	Completion Date
2011	Jan 1, 2025	75 Years	Adam Lacombe	Dec 31, 2027

<b>Number:</b>	3802ST	<b>Scenario:</b>	Main
<b>Title:</b>	Lakeshore Dr. - Trunk Watermain and Sewer - Phase 2 - Gertrude to Marshall	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (General)	<b>Strategic Plans:</b>	Growth / Economic Development
<b>Division:</b>	Capital - Infrastructure & Operations	<b>Project Type:</b>	
<b>Budget Year:</b>	2020	<b>Active:</b>	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; 3500RD/ST/SS/WS for Phase 1; 3802RD/SS/WS for Phase 2</p>

Scenario Description	Scenario Comments

Forecast	Project Detailed 2020																				
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Budget Year	Total Expense	Total Revenue	Difference																		
2025	80,000	80,000	0																		
2027	1,000,000	1,000,000	0																		
	<b>1,080,000</b>	<b>1,080,000</b>	<b>0</b>																		
<b>LTD Amount: 0</b>		<b>Total Project Cost: 1,080,000</b>																			

Related Projects	Operating Impacts

Year Identified	Start Date	Useful Life	Manager	Completion Date
2011	Jan 1, 2025	75 Years	Adam Lacombe	Dec 31, 2027

<b>Number:</b>	3802WS	<b>Scenario:</b>	Main
<b>Title:</b>	Lakeshore Dr. - Trunk Watermain and Sewer - Phase 2 - Gertrude to Marshall	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (Water and Wastewater)	<b>Strategic Plans:</b>	Growth / Economic Development,...
<b>Division:</b>	Capital - Water	<b>Project Type:</b>	
<b>Budget Year:</b>	2020	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
<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; 3500RD/ST/SS/WS for Phase 1; 3802RD/ST/SS for Phase 2</p>

<b>Scenario Description</b>	<b>Scenario Comments</b>

<b>Forecast</b>	<b>Project Detailed 2020</b>																				
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<b>Related Projects</b>	<b>Operating Impacts</b>

Year Identified	Start Date	Useful Life	Manager	Completion Date
2011	Jan 1, 2025	75 Years	Adam Lacombe	Dec 31, 2027



<b>Number:</b>	3804RD	<b>Scenario:</b>	Main
<b>Title:</b>	Public Works Backup Generator Replacement	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (General)	<b>Strategic Plans:</b>	Equipment Replacement
<b>Division:</b>	Capital - Infrastructure & Operations	<b>Project Type:</b>	
<b>Budget Year:</b>	2020	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
The project will allow for a replacement generator which is essential to power the Public Works facility in the event of a power failure or disaster situation.	The current back-up generator at Public Works is beyond its useful lifecycle and experiencing multiple failures. The fuel pumps at Public Works are also powered by this generator system and are essential to City staff as well as Police, Fire, Ambulance, and North Bay Hydro who also fuel at this location.  Related project includes 3804WS.

<b>Scenario Description</b>	<b>Scenario Comments</b>

<b>Forecast</b>	<b>Project Detailed 2020</b>																																														
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<b>Related Projects</b>	<b>Operating Impacts</b>

Year Identified	Start Date	Useful Life	Manager	Completion Date
2016	Jan 1, 2018	25 Years	Domenic Schiavone	Dec 31, 2020

<b>Number:</b>	3804WS	<b>Scenario:</b>	Main
<b>Title:</b>	Public Works Backup Generator Replacement	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (Water and Wastewater)	<b>Strategic Plans:</b>	Equipment Replacement
<b>Division:</b>	Capital - Water	<b>Project Type:</b>	
<b>Budget Year:</b>	2020	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
The project will allow for a replacement generator which is essential to power the Public Works facility in the event of a power failure or disaster situation.	The current back-up generator at Public Works is beyond its useful lifecycle and experiencing multiple failures. The fuel pumps at Public Works are also powered by this generator system and are essential to City staff as well as Police, Fire, Ambulance, and North Bay Hydro who also fuel at this location.  Related project includes 3804RD.

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<b>Related Projects</b>	<b>Operating Impacts</b>

Year Identified	Start Date	Useful Life	Manager	Completion Date
2016	Jan 1, 2018	25 Years	Domenic Schiavone	Dec 31, 2020

<b>Number:</b>	3805GD	<b>Scenario:</b>	Main
<b>Title:</b>	Leachate Management - Future Cells	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Growth (General)	<b>Strategic Plans:</b>	Infrastructure / Sustainability, Environmental,...
<b>Division:</b>	Capital - Infrastructure & Operations	<b>Project Type:</b>	
<b>Budget Year:</b>	2020	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
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.	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.  Project is partially funded by the Merrick Landfill Reserve.  Related projects include 3830GD.

<b>Scenario Description</b>	<b>Scenario Comments</b>

<b>Forecast</b>	<b>Project Detailed 2020</b>																																																										
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<b>Related Projects</b>	<b>Operating Impacts</b>

Year Identified	Start Date	Useful Life	Manager	Completion Date
2013	Jan 1, 2019	25 Years	Karin Pratte	Dec 31, 2029

<b>Number:</b>	3807WS	<b>Scenario:</b>	Main
<b>Title:</b>	Ellendale Generator Replacement	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (Water and Wastewater)	<b>Strategic Plans:</b>	Infrastructure / Sustainability, Maintenance
<b>Division:</b>	Capital - Water	<b>Project Type:</b>	
<b>Budget Year:</b>	2020	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
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.

<b>Scenario Description</b>	<b>Scenario Comments</b>

<b>Forecast</b>	<b>Project Detailed 2020</b>																																												
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<b>Related Projects</b>	<b>Operating Impacts</b>

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

<b>Number:</b>	3809RD	<b>Scenario:</b>	Main
<b>Title:</b>	Hammond St. Bridge Replacement	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (General)	<b>Strategic Plans:</b>	Infrastructure / Sustainability
<b>Division:</b>	Capital - Infrastructure & Operations	<b>Project Type:</b>	
<b>Budget Year:</b>	2020	<b>Active:</b>	Yes

<b>Description</b>		<b>Comments</b>	
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.	
<b>Scenario Description</b>		<b>Scenario Comments</b>	
<b>Forecast</b>		<b>Project Detailed 2020</b>	
<b>Budget Year</b>	<b>Total Expense</b>	<b>Total Revenue</b>	<b>Difference</b>
2021	600,000	600,000	0
	<b>600,000</b>	<b>600,000</b>	<b>0</b>
<b>LTD Amount:</b> 30,000		<b>Total Project Cost:</b> 630,000	
<b>Related Projects</b>		<b>Operating Impacts</b>	
<b>Year Identified</b>	<b>Start Date</b>	<b>Useful Life</b>	<b>Manager</b>
2010	Jan 1, 2019	75 Years	Reid Porter
			<b>Completion Date</b>
			Dec 31, 2021

<b>Number:</b>	3810RD	<b>Scenario:</b>	Main
<b>Title:</b>	Main St. - Gormanville to Memorial	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Growth (General)	<b>Strategic Plans:</b>	Growth / Economic Development,...
<b>Division:</b>	Capital - Infrastructure & Operations	<b>Project Type:</b>	
<b>Budget Year:</b>	2020	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
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.

<b>Scenario Description</b>	<b>Scenario Comments</b>

<b>Forecast</b>	<b>Project Detailed 2020</b>																				
<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>120,000</td> <td>120,000</td> <td>0</td> </tr> <tr> <td>2024</td> <td>2,300,000</td> <td>2,300,000</td> <td>0</td> </tr> <tr> <td></td> <td><b>2,420,000</b></td> <td><b>2,420,000</b></td> <td><b>0</b></td> </tr> <tr> <td colspan="2"><b>LTD Amount: 0</b></td> <td colspan="2"><b>Total Project Cost: 2,420,000</b></td> </tr> </tbody> </table>	Budget Year	Total Expense	Total Revenue	Difference	2022	120,000	120,000	0	2024	2,300,000	2,300,000	0		<b>2,420,000</b>	<b>2,420,000</b>	<b>0</b>	<b>LTD Amount: 0</b>		<b>Total Project Cost: 2,420,000</b>		
Budget Year	Total Expense	Total Revenue	Difference																		
2022	120,000	120,000	0																		
2024	2,300,000	2,300,000	0																		
	<b>2,420,000</b>	<b>2,420,000</b>	<b>0</b>																		
<b>LTD Amount: 0</b>		<b>Total Project Cost: 2,420,000</b>																			

<b>Related Projects</b>	<b>Operating Impacts</b>

Year Identified	Start Date	Useful Life	Manager	Completion Date
2009	Jan 1, 2022	25 Years	Adam Lacombe	Dec 31, 2025

<b>Number:</b>	3810SS	<b>Scenario:</b>	Main
<b>Title:</b>	Main St. - Gormanville to Memorial	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Growth (Water and Wastewater)	<b>Strategic Plans:</b>	Growth / Economic Development,...
<b>Division:</b>	Capital - Sewer	<b>Project Type:</b>	
<b>Budget Year:</b>	2020	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
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/WS.

<b>Scenario Description</b>	<b>Scenario Comments</b>

<b>Forecast</b>	<b>Project Detailed 2020</b>																				
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Budget Year	Total Expense	Total Revenue	Difference																		
2022	180,000	180,000	0																		
2024	3,500,000	3,500,000	0																		
	<b>3,680,000</b>	<b>3,680,000</b>	<b>0</b>																		
<b>LTD Amount: 0</b>		<b>Total Project Cost: 3,680,000</b>																			

<b>Related Projects</b>	<b>Operating Impacts</b>

Year Identified	Start Date	Useful Life	Manager	Completion Date
2009	Jan 1, 2022	75 Years	Adam Lacombe	Dec 31, 2025

<b>Number:</b>	3810ST	<b>Scenario:</b>	Main
<b>Title:</b>	Main St. - Gormanville to Memorial	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Growth (General)	<b>Strategic Plans:</b>	Growth / Economic Development,...
<b>Division:</b>	Capital - Infrastructure & Operations	<b>Project Type:</b>	
<b>Budget Year:</b>	2020	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
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.

<b>Scenario Description</b>	<b>Scenario Comments</b>

<b>Forecast</b>	<b>Project Detailed 2020</b>																				
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Budget Year	Total Expense	Total Revenue	Difference																		
2022	40,000	40,000	0																		
2024	800,000	800,000	0																		
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<b>LTD Amount: 0</b>		<b>Total Project Cost: 840,000</b>																			

<b>Related Projects</b>	<b>Operating Impacts</b>

Year Identified	Start Date	Useful Life	Manager	Completion Date
2009	Jan 1, 2022	75 Years	Adam Lacombe	Dec 31, 2025



<b>Number:</b>	3810WS	<b>Scenario:</b>	Main
<b>Title:</b>	Main St. - Gormanville to Memorial	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Growth (Water and Wastewater)	<b>Strategic Plans:</b>	Growth / Economic Development,...
<b>Division:</b>	Capital - Water	<b>Project Type:</b>	
<b>Budget Year:</b>	2020	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
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.

<b>Scenario Description</b>	<b>Scenario Comments</b>

<b>Forecast</b>	<b>Project Detailed 2020</b>																				
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Budget Year	Total Expense	Total Revenue	Difference																		
2022	40,000	40,000	0																		
2024	800,000	800,000	0																		
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<b>LTD Amount: 0</b>		<b>Total Project Cost: 840,000</b>																			

<b>Related Projects</b>	<b>Operating Impacts</b>

Year Identified	Start Date	Useful Life	Manager	Completion Date
2009	Jan 1, 2022	75 Years	Adam Lacombe	Dec 31, 2025

<b>Number:</b>	3812RD	<b>Scenario:</b>	Main
<b>Title:</b>	Lakeshore Dr. (ONR Overpass)	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (General)	<b>Strategic Plans:</b>	Infrastructure / Sustainability
<b>Division:</b>	Capital - Infrastructure & Operations	<b>Project Type:</b>	
<b>Budget Year:</b>	2020	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
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.

<b>Scenario Description</b>	<b>Scenario Comments</b>
	The following details support the capital forecast: 2026 Perform a bridge inspection and assessment 2028 Repairs and rehab based on the assessment performed in 2026

<b>Forecast</b>	<b>Project Detailed 2020</b>																				
<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><b>275,000</b></td> <td><b>275,000</b></td> <td><b>0</b></td> </tr> <tr> <td colspan="2"><b>LTD Amount:</b> 0</td> <td colspan="2"><b>Total Project Cost:</b> 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		<b>275,000</b>	<b>275,000</b>	<b>0</b>	<b>LTD Amount:</b> 0		<b>Total Project Cost:</b> 275,000		
Budget Year	Total Expense	Total Revenue	Difference																		
2026	25,000	25,000	0																		
2028	250,000	250,000	0																		
	<b>275,000</b>	<b>275,000</b>	<b>0</b>																		
<b>LTD Amount:</b> 0		<b>Total Project Cost:</b> 275,000																			

<b>Related Projects</b>	<b>Operating Impacts</b>

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

<b>Number:</b>	3813RD	<b>Scenario:</b>	Main
<b>Title:</b>	Trout Lake Rd. (ONR Overpass)	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (General)	<b>Strategic Plans:</b>	Infrastructure / Sustainability
<b>Division:</b>	Capital - Infrastructure & Operations	<b>Project Type:</b>	
<b>Budget Year:</b>	2020	<b>Active:</b>	Yes

<b>Description</b>		<b>Comments</b>	
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.	

<b>Scenario Description</b>		<b>Scenario Comments</b>	
		The following details support the capital forecast: 2026 Perform a bridge inspection and assessment 2028 Repairs and rehab based on the assessment performed in 2026	

<b>Forecast</b>		<b>Project Detailed 2020</b>	
<b>Budget Year</b>	<b>Total Expense</b>	<b>Total Revenue</b>	<b>Difference</b>
2026	25,000	25,000	0
2028	250,000	250,000	0
	<b>275,000</b>	<b>275,000</b>	<b>0</b>
<b>LTD Amount:</b> 0		<b>Total Project Cost:</b> 275,000	

<b>Related Projects</b>		<b>Operating Impacts</b>	

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

<b>Number:</b>	3814RD	<b>Scenario:</b>	Main
<b>Title:</b>	Lees Road Reconstruction	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (General)	<b>Strategic Plans:</b>	Infrastructure / Sustainability
<b>Division:</b>	Capital - Infrastructure & Operations	<b>Project Type:</b>	
<b>Budget Year:</b>	2020	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
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 technical assistance.	The road structure is nearing the end of its useful life and will need to be reconstructed.

<b>Scenario Description</b>	<b>Scenario Comments</b>

<b>Forecast</b>	<b>Project Detailed 2020</b>																																																
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<b>Related Projects</b>	<b>Operating Impacts</b>

Year Identified	Start Date	Useful Life	Manager	Completion Date
2018	Jan 1, 2020	25 Years	Reid Porter	Dec 31, 2023

<b>Number:</b>	3815RD	<b>Scenario:</b>	Main
<b>Title:</b>	Trout Lake Road Retaining Wall Rehab	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (General)	<b>Strategic Plans:</b>	Infrastructure / Sustainability
<b>Division:</b>	Capital - Infrastructure & Operations	<b>Project Type:</b>	
<b>Budget Year:</b>	2020	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
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.	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 significant rehabilitation to extend some life in the wall.  In addition, the retaining wall drainage system is not performing properly, especially during the spring melt, leading to water pooling on the adjacent roadway.  Related project includes 3815ST.

<b>Scenario Description</b>	<b>Scenario Comments</b>

<b>Forecast</b>	<b>Project Detailed 2020</b>																				
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Budget Year	Total Expense	Total Revenue	Difference																		
2022	50,000	50,000	0																		
2027	1,000,000	1,000,000	0																		
	<b>1,050,000</b>	<b>1,050,000</b>	<b>0</b>																		
<b>LTD Amount:</b> 0		<b>Total Project Cost:</b> 1,050,000																			

<b>Related Projects</b>	<b>Operating Impacts</b>

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

<b>Number:</b>	3815ST	<b>Scenario:</b>	Main
<b>Title:</b>	Trout Lake Road Retaining Wall Rehab	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (General)	<b>Strategic Plans:</b>	Infrastructure / Sustainability
<b>Division:</b>	Capital - Infrastructure & Operations	<b>Project Type:</b>	
<b>Budget Year:</b>	2020	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
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.	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 significant rehabilitation to extend some life in the wall.  In addition, the retaining wall drainage system is not performing properly, especially during the spring melt, leading to water pooling on the adjacent roadway.  Related project includes 3815RD.

<b>Scenario Description</b>	<b>Scenario Comments</b>

<b>Forecast</b>	<b>Project Detailed 2020</b>																				
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Budget Year	Total Expense	Total Revenue	Difference																		
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<b>LTD Amount: 0</b>		<b>Total Project Cost: 265,000</b>																			

<b>Related Projects</b>	<b>Operating Impacts</b>

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

<b>Number:</b>	3818RD	<b>Scenario:</b>	Main
<b>Title:</b>	Premier Pumping Station Replacement	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (General)	<b>Strategic Plans:</b>	Infrastructure / Sustainability
<b>Division:</b>	Capital - Infrastructure & Operations	<b>Project Type:</b>	
<b>Budget Year:</b>	2020	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
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 3818SS.

<b>Scenario Description</b>	<b>Scenario Comments</b>

<b>Forecast</b>	<b>Project Detailed 2020</b>																
<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>450,000</td> <td>450,000</td> <td>0</td> </tr> <tr> <td></td> <td><b>450,000</b></td> <td><b>450,000</b></td> <td><b>0</b></td> </tr> <tr> <td colspan="2"><b>LTD Amount:</b> 200,000</td> <td colspan="2"><b>Total Project Cost:</b> 650,000</td> </tr> </tbody> </table>	Budget Year	Total Expense	Total Revenue	Difference	2021	450,000	450,000	0		<b>450,000</b>	<b>450,000</b>	<b>0</b>	<b>LTD Amount:</b> 200,000		<b>Total Project Cost:</b> 650,000		
Budget Year	Total Expense	Total Revenue	Difference														
2021	450,000	450,000	0														
	<b>450,000</b>	<b>450,000</b>	<b>0</b>														
<b>LTD Amount:</b> 200,000		<b>Total Project Cost:</b> 650,000															

<b>Related Projects</b>	<b>Operating Impacts</b>

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

<b>Number:</b>	3818SS	<b>Scenario:</b>	Main
<b>Title:</b>	Premier Pumping Station Replacement	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (Water and Wastewater)	<b>Strategic Plans:</b>	Infrastructure / Sustainability
<b>Division:</b>	Capital - Sewer	<b>Project Type:</b>	
<b>Budget Year:</b>	2020	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
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.

<b>Scenario Description</b>	<b>Scenario Comments</b>

<b>Forecast</b>	<b>Project Detailed 2020</b>																
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Budget Year	Total Expense	Total Revenue	Difference														
2021	2,370,000	2,370,000	0														
	<b>2,370,000</b>	<b>2,370,000</b>	<b>0</b>														
<b>LTD Amount:</b> 480,000		<b>Total Project Cost:</b> 2,850,000															

<b>Related Projects</b>	<b>Operating Impacts</b>

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



<b>Number:</b>	3823FD	<b>Scenario:</b>	Main
<b>Title:</b>	Fire Master Plan	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Strategic Investment (General)	<b>Strategic Plans:</b>	Master Plans
<b>Division:</b>	Capital - Community Services	<b>Project Type:</b>	
<b>Budget Year:</b>	2020	<b>Active:</b>	Yes

<b>Description</b>		<b>Comments</b>	
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.	

<b>Scenario Description</b>		<b>Scenario Comments</b>	
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<b>Forecast</b>		<b>Project Detailed 2020</b>	
<b>Budget Year</b>	<b>Total Expense</b>	<b>Total Revenue</b>	<b>Difference</b>
2022	50,000	50,000	0
	<b>50,000</b>	<b>50,000</b>	<b>0</b>
<b>LTD Amount:</b> 0		<b>Total Project Cost:</b> 50,000	

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

<b>Number:</b>	3825SS	<b>Scenario:</b>	Main
<b>Title:</b>	Wastewater Treatment Plant - Intake Chamber Replacement	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (Water and Wastewater)	<b>Strategic Plans:</b>	Infrastructure / Sustainability, Maintenance
<b>Division:</b>	Capital - Sewer	<b>Project Type:</b>	
<b>Budget Year:</b>	2020	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
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.

<b>Scenario Description</b>	<b>Scenario Comments</b>

<b>Forecast</b>	<b>Project Detailed 2020</b>																				
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Budget Year	Total Expense	Total Revenue	Difference																		
2021	200,000	200,000	0																		
2023	2,800,000	2,800,000	0																		
	<b>3,000,000</b>	<b>3,000,000</b>	<b>0</b>																		
<b>LTD Amount: 0</b>		<b>Total Project Cost: 3,000,000</b>																			

<b>Related Projects</b>	<b>Operating Impacts</b>

Year Identified	Start Date	Useful Life	Manager	Completion Date
2018	Jan 1, 2021	80 Years	Karin Pratte	Dec 31, 2023

<b>Number:</b>	3826SS	<b>Scenario:</b>	Main
<b>Title:</b>	Pumping Station Replacement	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (Water and Wastewater)	<b>Strategic Plans:</b>	Infrastructure / Sustainability
<b>Division:</b>	Capital - Sewer	<b>Project Type:</b>	
<b>Budget Year:</b>	2020	<b>Active:</b>	Yes

<b>Description</b>		<b>Comments</b>	
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 technical assistance.		A condition assessment will be undertaken on all of the pumping stations and the most critical replacements will be prioritized.	

<b>Scenario Description</b>		<b>Scenario Comments</b>	

<b>Forecast</b>		<b>Project Detailed 2020</b>	
<b>Budget Year</b>	<b>Total Expense</b>	<b>Total Revenue</b>	<b>Difference</b>
2022	2,500,000	2,500,000	0
2023	5,000,000	5,000,000	0
2025	5,000,000	5,000,000	0
2029	3,500,000	3,500,000	0
	<b>16,000,000</b>	<b>16,000,000</b>	<b>0</b>
<b>LTD Amount:</b> 0		<b>Total Project Cost:</b> 16,000,000	

<b>Related Projects</b>		<b>Operating Impacts</b>	

<b>Year Identified</b>	<b>Start Date</b>	<b>Useful Life</b>	<b>Manager</b>	<b>Completion Date</b>
2018	Jan 1, 2022	50 Years	Adam Lacombe	Dec 31, 2029

<b>Number:</b>	3828WS	<b>Scenario:</b>	Main
<b>Title:</b>	West Ferris Trunk Watermain Relining	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (Water and Wastewater)	<b>Strategic Plans:</b>	Infrastructure / Sustainability, Master Plans
<b>Division:</b>	Capital - Water	<b>Project Type:</b>	
<b>Budget Year:</b>	2020	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
This project will involve the installation of a structural liner that will reinforce the existing trunk watermain.	This project will involve the 500mm trunk watermain that supplies the majority of the West Ferris Area and has a history of breaks.

<b>Scenario Description</b>	<b>Scenario Comments</b>

<b>Forecast</b>	<b>Project Detailed 2020</b>																																								
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<b>Related Projects</b>	<b>Operating Impacts</b>

Year Identified	Start Date	Useful Life	Manager	Completion Date
2018	Jan 1, 2018	75 Years	Gerry McCrank	Dec 31, 2020

<b>Number:</b>	3829SS	<b>Scenario:</b>	Main
<b>Title:</b>	Wastewater Treatment Plant - Structural Repair	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (Water and Wastewater)	<b>Strategic Plans:</b>	Infrastructure / Sustainability, Maintenance
<b>Division:</b>	Capital - Sewer	<b>Project Type:</b>	
<b>Budget Year:</b>	2020	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
<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>

<b>Scenario Description</b>	<b>Scenario Comments</b>

<b>Forecast</b>	<b>Project Detailed 2020</b>																																																								
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<b>Related Projects</b>	<b>Operating Impacts</b>			
<b>Year Identified</b>	<b>Start Date</b>	<b>Useful Life</b>	<b>Manager</b>	<b>Completion Date</b>
2013	Jan 1, 2018	25 Years	Karin Pratte	Dec 31, 2024

<b>Number:</b>	3830GD	<b>Scenario:</b>	Main
<b>Title:</b>	Merrick Landfill Gas (LFG) Collection Infrastructure	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Growth (General)	<b>Strategic Plans:</b>	Environmental
<b>Division:</b>	Capital - Infrastructure & Operations	<b>Project Type:</b>	
<b>Budget Year:</b>	2020	<b>Active:</b>	Yes

<b>Description</b>		<b>Comments</b>	
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. Approximately every 4-5 years. Funding from Merrick Reserves (99515R) will be utilized.	
		Related project includes 3805GD.	

<b>Scenario Description</b>		<b>Scenario Comments</b>	

<b>Forecast</b>				<b>Project Detailed 2020</b>	
<b>Budget Year</b>	<b>Total Expense</b>	<b>Total Revenue</b>	<b>Difference</b>		
2021	150,000	150,000	0		
2022	600,000	600,000	0		
2025	150,000	150,000	0		
2026	650,000	650,000	0		
2029	150,000	150,000	0		
	<b>1,700,000</b>	<b>1,700,000</b>	<b>0</b>		
<b>LTD Amount:</b> 0	<b>Total Project Cost:</b> 1,700,000				

<b>Related Projects</b>		<b>Operating Impacts</b>	

<b>Year Identified</b>	<b>Start Date</b>	<b>Useful Life</b>	<b>Manager</b>	<b>Completion Date</b>
2014	Jan 1, 2021	20 Years	Karin Pratte	Dec 31, 2029

<b>Number:</b>	3831ST	<b>Scenario:</b>	Main
<b>Title:</b>	Stormwater Outfall Repair and Rehabilitation	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (General)	<b>Strategic Plans:</b>	Infrastructure / Sustainability, Maintenance
<b>Division:</b>	Capital - Infrastructure & Operations	<b>Project Type:</b>	
<b>Budget Year:</b>	2020	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
<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 technical assistance.</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>

<b>Scenario Description</b>	<b>Scenario Comments</b>

<b>Forecast</b>	<b>Project Detailed 2020</b>																								
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Budget Year	Total Expense	Total Revenue	Difference																						
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<b>LTD Amount: 0</b>		<b>Total Project Cost: 500,000</b>																							

<b>Related Projects</b>	<b>Operating Impacts</b>

Year Identified	Start Date	Useful Life	Manager	Completion Date
2011	Jan 1, 2021	50 Years	Adam Lacombe	Dec 31, 2023

<b>Number:</b>	3900RD	<b>Scenario:</b>	Main
<b>Title:</b>	Cedar Heights Rd. - Highway 11 to Larocque Urban Upgrade and Watermain	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Strategic Investment (General)	<b>Strategic Plans:</b>	Growth / Economic Development,...
<b>Division:</b>	Capital - Infrastructure & Operations	<b>Project Type:</b>	
<b>Budget Year:</b>	2020	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
<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 from the current rural standard to an urban standard as well as installation of a new sanitary sewer.</p> <p>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>

<b>Scenario Description</b>	<b>Scenario Comments</b>

<b>Forecast</b>	<b>Project Detailed 2020</b>																				
<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>180,000</td> <td>180,000</td> <td>0</td> </tr> <tr> <td>2028</td> <td>3,300,000</td> <td>3,300,000</td> <td>0</td> </tr> <tr> <td></td> <td><b>3,480,000</b></td> <td><b>3,480,000</b></td> <td><b>0</b></td> </tr> <tr> <td colspan="2"><b>LTD Amount: 0</b></td> <td colspan="2"><b>Total Project Cost: 3,480,000</b></td> </tr> </tbody> </table>	Budget Year	Total Expense	Total Revenue	Difference	2026	180,000	180,000	0	2028	3,300,000	3,300,000	0		<b>3,480,000</b>	<b>3,480,000</b>	<b>0</b>	<b>LTD Amount: 0</b>		<b>Total Project Cost: 3,480,000</b>		
Budget Year	Total Expense	Total Revenue	Difference																		
2026	180,000	180,000	0																		
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<b>LTD Amount: 0</b>		<b>Total Project Cost: 3,480,000</b>																			

<b>Related Projects</b>	<b>Operating Impacts</b>

Year Identified	Start Date	Useful Life	Manager	Completion Date
2011	Jan 1, 2026	25 Years	Adam Lacombe	Dec 31, 2028



<b>Number:</b>	3900SS	<b>Scenario:</b>	Main
<b>Title:</b>	Cedar Heights Rd. - Highway 11 to Larocque Urban Upgrade and Watermain	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Strategic Investment (Water and Wastewater)	<b>Strategic Plans:</b>	Growth / Economic Development,...
<b>Division:</b>	Capital - Sewer	<b>Project Type:</b>	
<b>Budget Year:</b>	2020	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
<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 from the current rural standard to an urban standard as well as installation of a new sanitary sewer.</p> <p>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>

<b>Scenario Description</b>	<b>Scenario Comments</b>

<b>Forecast</b>	<b>Project Detailed 2020</b>																				
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Budget Year	Total Expense	Total Revenue	Difference																		
2026	80,000	80,000	0																		
2028	1,500,000	1,500,000	0																		
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<b>LTD Amount: 0</b>		<b>Total Project Cost: 1,580,000</b>																			

<b>Related Projects</b>	<b>Operating Impacts</b>

Year Identified	Start Date	Useful Life	Manager	Completion Date
2014	Jan 1, 2026	75 Years	Adam Lacombe	Dec 31, 2028

<b>Number:</b>	3900ST	<b>Scenario:</b>	Main
<b>Title:</b>	Cedar Heights Rd. - Highway 11 to Larocque Urban Upgrade and Watermain	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Strategic Investment (General)	<b>Strategic Plans:</b>	Growth / Economic Development,...
<b>Division:</b>	Capital - Infrastructure & Operations	<b>Project Type:</b>	
<b>Budget Year:</b>	2020	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
<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 from the current rural standard to an urban standard as well as installation of a new sanitary sewer.</p> <p>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>

<b>Scenario Description</b>	<b>Scenario Comments</b>

<b>Forecast</b>	<b>Project Detailed 2020</b>																				
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Budget Year	Total Expense	Total Revenue	Difference																		
2026	70,000	70,000	0																		
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<b>Related Projects</b>	<b>Operating Impacts</b>

Year Identified	Start Date	Useful Life	Manager	Completion Date
2011	Jan 1, 2026	75 Years	Adam Lacombe	Dec 31, 2028

<b>Number:</b>	3900WS	<b>Scenario:</b>	Main
<b>Title:</b>	Cedar Heights Rd. - Highway 11 to Larocque Urban Upgrade and Watermain	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Strategic Investment (Water and Wastewater)	<b>Strategic Plans:</b>	Growth / Economic Development,...
<b>Division:</b>	Capital - Water	<b>Project Type:</b>	
<b>Budget Year:</b>	2020	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
<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 from the current rural standard to an urban standard as well as installation of a new sanitary sewer.</p> <p>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>

<b>Scenario Description</b>	<b>Scenario Comments</b>

<b>Forecast</b>	<b>Project Detailed 2020</b>																				
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Budget Year	Total Expense	Total Revenue	Difference																		
2026	160,000	160,000	0																		
2028	3,000,000	3,000,000	0																		
	<b>3,160,000</b>	<b>3,160,000</b>	<b>0</b>																		
<b>LTD Amount: 0</b>		<b>Total Project Cost: 3,160,000</b>																			

<b>Related Projects</b>	<b>Operating Impacts</b>

Year Identified	Start Date	Useful Life	Manager	Completion Date
2014	Jan 1, 2026	75 Years	Adam Lacombe	Dec 31, 2028

<b>Number:</b>	3905WS	<b>Scenario:</b>	Main
<b>Title:</b>	Cedar Heights Rd. - Larocque BPS	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Growth (Water and Wastewater)	<b>Strategic Plans:</b>	Growth / Economic Development
<b>Division:</b>	Capital - Water	<b>Project Type:</b>	
<b>Budget Year:</b>	2020	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
<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 construction is substantially complete and included continuation of the sewer and water installation as well as a standpipe on Larocque Road.</p>

<b>Scenario Description</b>	<b>Scenario Comments</b>

<b>Forecast</b>	<b>Project Detailed 2020</b>																				
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Budget Year	Total Expense	Total Revenue	Difference																		
2024	50,000	50,000	0																		
2027	4,000,000	4,000,000	0																		
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<b>LTD Amount:</b> 0	<b>Total Project Cost:</b> 4,050,000																				

<b>Related Projects</b>	<b>Operating Impacts</b>

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

<b>Number:</b>	3908ST	<b>Scenario:</b>	Main
<b>Title:</b>	Trunk Sewer Rehab - Eastview Tributary System	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (General)	<b>Strategic Plans:</b>	Infrastructure / Sustainability
<b>Division:</b>	Capital - Infrastructure & Operations	<b>Project Type:</b>	
<b>Budget Year:</b>	2020	<b>Active:</b>	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 condition inspection, preliminary design, detailed design, agency approvals, contract drawings, specifications, tendering and construction technical assistance.</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 2020																				
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Budget Year	Total Expense	Total Revenue	Difference																		
2024	100,000	100,000	0																		
2026	1,000,000	1,000,000	0																		
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<b>LTD Amount:</b> 0		<b>Total Project Cost:</b> 1,100,000																			

Related Projects	Operating Impacts

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

<b>Number:</b>	3909RD	<b>Scenario:</b>	Main
<b>Title:</b>	Worthington, Wyld, Sherbrooke, Second 4" Watermain Replacement	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (General)	<b>Strategic Plans:</b>	Infrastructure / Sustainability
<b>Division:</b>	Capital - Infrastructure & Operations	<b>Project Type:</b>	
<b>Budget Year:</b>	2020	<b>Active:</b>	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 3601SS/STWS.</p>

Scenario Description	Scenario Comments

Forecast	Project Detailed 2020																				
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Budget Year	Total Expense	Total Revenue	Difference																		
2024	90,000	90,000	0																		
2026	1,700,000	1,700,000	0																		
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<b>LTD Amount: 0</b>		<b>Total Project Cost: 1,790,000</b>																			

Related Projects	Operating Impacts

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

<b>Number:</b>	3909SS	<b>Scenario:</b>	Main
<b>Title:</b>	Worthington, Wyld, Sherbrooke, Second 4" Watermain Replacement	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (Water and Wastewater)	<b>Strategic Plans:</b>	Infrastructure / Sustainability
<b>Division:</b>	Capital - Sewer	<b>Project Type:</b>	
<b>Budget Year:</b>	2020	<b>Active:</b>	Yes

<b>Description</b>		<b>Comments</b>	
<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 3601RD/ST/WS.</p>	
<b>Scenario Description</b>		<b>Scenario Comments</b>	
<b>Forecast</b>		<b>Project Detailed 2020</b>	
<b>Budget Year</b>	<b>Total Expense</b>	<b>Total Revenue</b>	<b>Difference</b>
2024	40,000	40,000	0
2026	700,000	700,000	0
	<b>740,000</b>	<b>740,000</b>	<b>0</b>
<b>LTD Amount:</b> 0		<b>Total Project Cost:</b> 740,000	
<b>Related Projects</b>		<b>Operating Impacts</b>	
<b>Year Identified</b>	<b>Start Date</b>	<b>Useful Life</b>	<b>Manager</b>
2011	Jan 1, 2024	75 Years	Adam Lacombe
			<b>Completion Date</b>
			Dec 31, 2026

<b>Number:</b>	3909ST	<b>Scenario:</b>	Main
<b>Title:</b>	Worthington, Wyld, Sherbrooke, Second 4" Watermain Replacement	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (General)	<b>Strategic Plans:</b>	Infrastructure / Sustainability
<b>Division:</b>	Capital - Infrastructure & Operations	<b>Project Type:</b>	
<b>Budget Year:</b>	2020	<b>Active:</b>	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 3601RD/SSWS.</p>

Scenario Description	Scenario Comments

Forecast	Project Detailed 2020																				
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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
2011	Jan 1, 2024	75 Years	Adam Lacombe	Dec 31, 2026



<b>Number:</b>	3909WS	<b>Scenario:</b>	Main
<b>Title:</b>	Worthington, Wyld, Sherbrooke, Second 4" Watermain Replacement	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (Water and Wastewater)	<b>Strategic Plans:</b>	Infrastructure / Sustainability
<b>Division:</b>	Capital - Water	<b>Project Type:</b>	
<b>Budget Year:</b>	2020	<b>Active:</b>	Yes

<b>Description</b>		<b>Comments</b>	
<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 3601RD/SS/ST.</p>	
<b>Scenario Description</b>		<b>Scenario Comments</b>	
<b>Forecast</b>		<b>Project Detailed 2020</b>	
<b>Budget Year</b>	<b>Total Expense</b>	<b>Total Revenue</b>	<b>Difference</b>
2024	40,000	40,000	0
2026	700,000	700,000	0
	<b>740,000</b>	<b>740,000</b>	<b>0</b>
<b>LTD Amount:</b> 0		<b>Total Project Cost:</b> 740,000	
<b>Related Projects</b>		<b>Operating Impacts</b>	
<b>Year Identified</b>	<b>Start Date</b>	<b>Useful Life</b>	<b>Manager</b>
2011	Jan 1, 2024	75 Years	Adam Lacombe
			<b>Completion Date</b>
			Dec 31, 2026

<b>Number:</b>	3910ST	<b>Scenario:</b>	Main
<b>Title:</b>	Chippewa Creek and Airport Heights Stormwater Retention	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Growth (General)	<b>Strategic Plans:</b>	Growth / Economic Development
<b>Division:</b>	Capital - Infrastructure & Operations	<b>Project Type:</b>	
<b>Budget Year:</b>	2020	<b>Active:</b>	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 Highlands 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 2020																				
<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>50,000</td> <td>50,000</td> <td>0</td> </tr> <tr> <td>2024</td> <td>2,500,000</td> <td>2,500,000</td> <td>0</td> </tr> <tr> <td></td> <td><b>2,550,000</b></td> <td><b>2,550,000</b></td> <td><b>0</b></td> </tr> <tr> <td colspan="2"><b>LTD Amount: 0</b></td> <td colspan="2"><b>Total Project Cost: 2,550,000</b></td> </tr> </tbody> </table>	Budget Year	Total Expense	Total Revenue	Difference	2022	50,000	50,000	0	2024	2,500,000	2,500,000	0		<b>2,550,000</b>	<b>2,550,000</b>	<b>0</b>	<b>LTD Amount: 0</b>		<b>Total Project Cost: 2,550,000</b>		
Budget Year	Total Expense	Total Revenue	Difference																		
2022	50,000	50,000	0																		
2024	2,500,000	2,500,000	0																		
	<b>2,550,000</b>	<b>2,550,000</b>	<b>0</b>																		
<b>LTD Amount: 0</b>		<b>Total Project Cost: 2,550,000</b>																			

Related Projects	Operating Impacts

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

<b>Number:</b>	3911RD	<b>Scenario:</b>	Main
<b>Title:</b>	Four Mile Lake Rd. Extension to Highway 11	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Growth (General)	<b>Strategic Plans:</b>	Growth / Economic Development
<b>Division:</b>	Capital - Infrastructure & Operations	<b>Project Type:</b>	
<b>Budget Year:</b>	2020	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
<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>

<b>Scenario Description</b>	<b>Scenario Comments</b>

<b>Forecast</b>	<b>Project Detailed 2020</b>																				
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Budget Year	Total Expense	Total Revenue	Difference																		
2024	390,000	390,000	0																		
2027	7,400,000	7,400,000	0																		
	<b>7,790,000</b>	<b>7,790,000</b>	<b>0</b>																		
<b>LTD Amount:</b> 0		<b>Total Project Cost:</b> 7,790,000																			

<b>Related Projects</b>	<b>Operating Impacts</b>

Year Identified	Start Date	Useful Life	Manager	Completion Date
2011	Jan 1, 2024	25 Years	Reid Porter	Dec 31, 2028

<b>Number:</b>	3912GG	<b>Scenario:</b>	Main
<b>Title:</b>	Integrated Software Solution	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (General)	<b>Strategic Plans:</b>	Technology
<b>Division:</b>	Capital - Corporate Services	<b>Project Type:</b>	
<b>Budget Year:</b>	2020	<b>Active:</b>	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/inventory, billing (water/tax), building, fleet, work orders, code enforcement, human resources, payroll, 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>Related project includes 3912WS.</p>

Scenario Description	Scenario Comments

Forecast	Project Detailed 2020																				
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Budget Year	Total Expense	Total Revenue	Difference																		
2021	84,000	84,000	0																		
2022	3,000,000	3,000,000	0																		
	<b>3,084,000</b>	<b>3,084,000</b>	<b>0</b>																		
<b>LTD Amount:</b> 0	<b>Total Project Cost:</b> 3,084,000																				

Related Projects	Operating Impacts

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

<b>Number:</b>	3912WS	<b>Scenario:</b>	Main
<b>Title:</b>	Integrated Software Solution	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (Water and Wastewater)	<b>Strategic Plans:</b>	Technology
<b>Division:</b>	Capital - Water	<b>Project Type:</b>	
<b>Budget Year:</b>	2020	<b>Active:</b>	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/inventory, billing (water/tax), building, fleet, work orders, code enforcement, human resources, payroll, 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>Related project includes 3912GG.</p>

Scenario Description	Scenario Comments

Forecast	Project Detailed 2020																				
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Budget Year	Total Expense	Total Revenue	Difference																		
2021	16,000	16,000	0																		
2022	2,000,000	2,000,000	0																		
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Related Projects	Operating Impacts

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

<b>Number:</b>	3913RD	<b>Scenario:</b>	Main
<b>Title:</b>	Ivanhoe Drive Reconstruction - Sage to Rita	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (General)	<b>Strategic Plans:</b>	Infrastructure / Sustainability, Maintenance
<b>Division:</b>	Capital - Infrastructure & Operations	<b>Project Type:</b>	
<b>Budget Year:</b>	2020	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
<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 technical assistance.</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>

<b>Scenario Description</b>	<b>Scenario Comments</b>

<b>Forecast</b>	<b>Project Detailed 2020</b>																																												
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Budget Year	Total Expense	Total Revenue	Difference																																										
2020	70,000	70,000	0																																										
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<b>Related Projects</b>	<b>Operating Impacts</b>			
<b>Year Identified</b>	<b>Start Date</b>	<b>Useful Life</b>	<b>Manager</b>	<b>Completion Date</b>
2019	Jan 1, 2020	25 Years	Reid Porter	Dec 31, 2021

<b>Number:</b>	3913SS	<b>Scenario:</b>	Main
<b>Title:</b>	Ivanhoe Drive Reconstruction - Sage to Rita	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (Water and Wastewater)	<b>Strategic Plans:</b>	Infrastructure / Sustainability, Maintenance
<b>Division:</b>	Capital - Sewer	<b>Project Type:</b>	
<b>Budget Year:</b>	2020	<b>Active:</b>	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 technical assistance.</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

Forecast				Project Detailed 2020		
Budget Year	Total Expense	Total Revenue	Difference	GL Account	Description	Total Amount
2020	30,000	30,000	0			
2021	600,000	600,000	0	3117	DESIGN FEES	28,986
	<b>630,000</b>	<b>630,000</b>	<b>0</b>	7010	ADMINISTRATON & OVERHEAD	1,014
					<b>Total Expense:</b>	<b>30,000</b>
<b>LTD Amount:</b> 0		<b>Total Project Cost:</b> 630,000				
					<b>Total Revenue:</b>	<b>30,000</b>

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

<b>Number:</b>	3913ST	<b>Scenario:</b>	Main
<b>Title:</b>	Ivanhoe Drive Reconstruction - Sage to Rita	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (General)	<b>Strategic Plans:</b>	Infrastructure / Sustainability, Maintenance
<b>Division:</b>	Capital - Infrastructure & Operations	<b>Project Type:</b>	
<b>Budget Year:</b>	2020	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
<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 technical assistance.</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>

<b>Scenario Description</b>	<b>Scenario Comments</b>

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



<b>Number:</b>	3913WS	<b>Scenario:</b>	Main
<b>Title:</b>	Ivanhoe Drive Reconstruction - Sage to Rita	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (Water and Wastewater)	<b>Strategic Plans:</b>	Infrastructure / Sustainability, Maintenance
<b>Division:</b>	Capital - Water	<b>Project Type:</b>	
<b>Budget Year:</b>	2020	<b>Active:</b>	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 technical assistance.</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 2020		
Budget Year	Total Expense	Total Revenue	Difference	GL Account	Description	Total Amount
2020	30,000	30,000	0			
2021	600,000	600,000	0			
	<b>630,000</b>	<b>630,000</b>	<b>0</b>			
<b>LTD Amount:</b> 0		<b>Total Project Cost:</b> 630,000				
				<b>Expense</b>		
				3117	DESIGN FEES	28,986
				7010	ADMINISTRATON & OVERHEAD	1,014
				<b>Total Expense:</b>		<b>30,000</b>
				<b>Revenue</b>		
				0461	TSF FRM REV FUND-PAYGO	30,000
				<b>Total Revenue:</b>		<b>30,000</b>

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

<b>Number:</b>	3914RD	<b>Scenario:</b>	Main
<b>Title:</b>	Carriage Crescent Reconstruction	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (General)	<b>Strategic Plans:</b>	Infrastructure / Sustainability, Maintenance
<b>Division:</b>	Capital - Infrastructure & Operations	<b>Project Type:</b>	
<b>Budget Year:</b>	2020	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
<p>The project involves the engineering and construction services for the complete reconstruction of the roadway on Carriage Crescent. 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 technical assistance.</p>	<p>The above-ground infrastructure on Carriage Crescent (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 3914ST/SS/WS</p>

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<b>Related Projects</b>	<b>Operating Impacts</b>

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

<b>Number:</b>	3914SS	<b>Scenario:</b>	Main
<b>Title:</b>	Carriage Crescent Reconstruction	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (Water and Wastewater)	<b>Strategic Plans:</b>	Infrastructure / Sustainability, Maintenance
<b>Division:</b>	Capital - Sewer	<b>Project Type:</b>	
<b>Budget Year:</b>	2020	<b>Active:</b>	Yes

Description	Comments
<p>The project involves the engineering and construction services for the complete reconstruction of the roadway on Carriage Crescent. 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 technical assistance.</p>	<p>The above-ground infrastructure on Carriage Crescent (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 3914RD/ST/WS</p>

Scenario Description	Scenario Comments

Forecast				Project Detailed 2020		
Budget Year	Total Expense	Total Revenue	Difference	GL Account	Description	Total Amount
2020	500,000	500,000	0	3425	CONSTRUCTION CONTRACT	483,092
	<b>500,000</b>	<b>500,000</b>	<b>0</b>	7010	ADMINISTRATON & OVERHEAD	16,908
					<b>Total Expense:</b>	<b>500,000</b>
<b>LTD Amount:</b> 30,000		<b>Total Project Cost:</b> 530,000				
				0461	TSF FRM REV FUND-PAYGO	500,000
					<b>Total Revenue:</b>	<b>500,000</b>

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

<b>Number:</b>	3914ST	<b>Scenario:</b>	Main
<b>Title:</b>	Carriage Crescent Reconstruction	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (General)	<b>Strategic Plans:</b>	Infrastructure / Sustainability, Maintenance
<b>Division:</b>	Capital - Infrastructure & Operations	<b>Project Type:</b>	
<b>Budget Year:</b>	2020	<b>Active:</b>	Yes

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<b>Related Projects</b>	<b>Operating Impacts</b>

<b>Year Identified</b>	<b>Start Date</b>	<b>Useful Life</b>	<b>Manager</b>	<b>Completion Date</b>
2019	Jan 1, 2019	75 Years	Reid Porter	Dec 31, 2020

<b>Number:</b>	3914WS	<b>Scenario:</b>	Main
<b>Title:</b>	Carriage Crescent Reconstruction	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (Water and Wastewater)	<b>Strategic Plans:</b>	Infrastructure / Sustainability, Maintenance
<b>Division:</b>	Capital - Water	<b>Project Type:</b>	
<b>Budget Year:</b>	2020	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
<p>The project involves the engineering and construction services for the complete reconstruction of the roadway on Carriage Crescent. 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 technical assistance.</p>	<p>The above-ground infrastructure on Carriage Crescent (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 3914RD/ST/SS</p>

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2019	Jan 1, 2019	75 Years	Reid Porter	Dec 31, 2020

<b>Number:</b>	3915RD	<b>Scenario:</b>	Main
<b>Title:</b>	Lamorie Street Bridge Environmental Assessment	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (General)	<b>Strategic Plans:</b>	Infrastructure / Sustainability, Maintenance
<b>Division:</b>	Capital - Infrastructure & Operations	<b>Project Type:</b>	
<b>Budget Year:</b>	2020	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
The project involves the engineering services for completion of an Environmental Assessment to evaluate the alternatives for the replacement or removal of the bridge.	The existing bridge spans over the Lavase River and an ONR rail line, and is nearing the end of its useful life. The environmental assessment will look at alternatives to replace or remove the bridge, as well as alternate routes, such as a new extension of Riverbend Road between Birchs Rd and Lakeshore Dr.  A condition assessment was completed in 2019.

<b>Scenario Description</b>	<b>Scenario Comments</b>

<b>Forecast</b>	<b>Project Detailed 2020</b>																																								
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<b>Related Projects</b>	<b>Operating Impacts</b>

Year Identified	Start Date	Useful Life	Manager	Completion Date
2019	Jan 1, 2020	N/A	Reid Porter	Dec 31, 2020

<b>Number:</b>	3916RD	<b>Scenario:</b>	Main
<b>Title:</b>	Oak Street East Pedestrian Bridge Replacement	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (General)	<b>Strategic Plans:</b>	Infrastructure / Sustainability, Maintenance
<b>Division:</b>	Capital - Infrastructure & Operations	<b>Project Type:</b>	
<b>Budget Year:</b>	2020	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
The project involves the engineering and construction services for the replacement of the pedestrian bridge over Chippewa Creek near the southeast end of Oak Street.	The existing pedestrian bridge was at one time a wider bridge with the capacity for vehicles passage over the bridge. Around 2008, the bridge was deemed to no longer be able to support vehicles, and was reduced to half its width and converted to a pedestrian bridge. It has been identified that the footings for the bridge have deteriorated and are at risk of washing out during high flow events. The bridge has been closed for several years as a precaution. The North Bay Mattawa Conservation Authority is currently conducting an Environmental Assessment along this portion of Chippewa Creek as part of work to widen and channelize the creek in order to mitigate an existing erosion hazard. The length of the pedestrian bridge will be dependent on the results of the Environmental Assessment and the design of the creek channelization. Therefore the bridge design will be carried out concurrently with the Conservation Authority's Environmental Assessment.

<b>Scenario Description</b>	<b>Scenario Comments</b>

<b>Forecast</b>	<b>Project Detailed 2020</b>																																											
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<b>Related Projects</b>	<b>Operating Impacts</b>

Year Identified	Start Date	Useful Life	Manager	Completion Date
2019	Jan 1, 2020	50 Years	Reid Porter	Dec 31, 2020

<b>Number:</b>	3917RD	<b>Scenario:</b>	Main
<b>Title:</b>	Third Avenue - Cassells to Front	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (General)	<b>Strategic Plans:</b>	
<b>Division:</b>	Capital - Infrastructure & Operations	<b>Project Type:</b>	
<b>Budget Year:</b>	2020	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
<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, tendering and construction technical assistance.</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>

<b>Scenario Description</b>	<b>Scenario Comments</b>

<b>Forecast</b>	<b>Project Detailed 2020</b>																
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<b>LTD Amount:</b> 30,000		<b>Total Project Cost:</b> 530,000															

<b>Related Projects</b>	<b>Operating Impacts</b>

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



<b>Number:</b>	3917SS	<b>Scenario:</b>	Main
<b>Title:</b>	Third Avenue - Cassells to Front	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (Water and Wastewater)	<b>Strategic Plans:</b>	Infrastructure / Sustainability, Maintenance
<b>Division:</b>	Capital - Sewer	<b>Project Type:</b>	
<b>Budget Year:</b>	2020	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
<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, tendering and construction technical assistance.</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>

<b>Scenario Description</b>	<b>Scenario Comments</b>

<b>Forecast</b>	<b>Project Detailed 2020</b>																
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Budget Year	Total Expense	Total Revenue	Difference														
2021	300,000	300,000	0														
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<b>Related Projects</b>	<b>Operating Impacts</b>

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

<b>Number:</b>	3917ST	<b>Scenario:</b>	Main
<b>Title:</b>	Third Avenue - Cassells to Front	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (General)	<b>Strategic Plans:</b>	Infrastructure / Sustainability, Maintenance
<b>Division:</b>	Capital - Infrastructure & Operations	<b>Project Type:</b>	
<b>Budget Year:</b>	2020	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
<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, tendering and construction technical assistance.</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>

<b>Scenario Description</b>	<b>Scenario Comments</b>

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<b>Related Projects</b>	<b>Operating Impacts</b>

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

<b>Number:</b>	3917WS	<b>Scenario:</b>	Main
<b>Title:</b>	Third Avenue - Cassells to Front	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (Water and Wastewater)	<b>Strategic Plans:</b>	Infrastructure / Sustainability, Maintenance
<b>Division:</b>	Capital - Water	<b>Project Type:</b>	
<b>Budget Year:</b>	2020	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
<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, tendering and construction technical assistance.</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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<b>Related Projects</b>	<b>Operating Impacts</b>

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

<b>Number:</b>	3918RD	<b>Scenario:</b>	Main
<b>Title:</b>	Algonquin/Jane/Front Intersection Addition of Left Turn Lane	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (General)	<b>Strategic Plans:</b>	Infrastructure / Sustainability, Maintenance
<b>Division:</b>	Capital - Infrastructure & Operations	<b>Project Type:</b>	
<b>Budget Year:</b>	2020	<b>Active:</b>	Yes

<b>Description</b>		<b>Comments</b>	
The project involves the engineering and construction services for the reconfiguration of the Algonquin/Jane/Front intersection to add dedicated left turn lanes on Algonquin.		The intersection has experienced higher than standard levels of accidents involving left turns. To mitigate this, dedicated left turns will be added to provide a phase during the signal timing where protected left turns can be made without any through traffic. The works will involve widening the intersection on Algonquin to accommodate the new left turn lanes as well as new median islands to facilitate additional traffic signal heads adjacent to the left turn lanes.	

<b>Scenario Description</b>		<b>Scenario Comments</b>	

<b>Forecast</b>		<b>Project Detailed 2020</b>																																											
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<b>Related Projects</b>		<b>Operating Impacts</b>	

<b>Year Identified</b>	<b>Start Date</b>	<b>Useful Life</b>	<b>Manager</b>	<b>Completion Date</b>
2019	Jan 1, 2019	25 Years	Adam Lacombe	Dec 31, 2020

<b>Number:</b>	3919RD	<b>Scenario:</b>	Main
<b>Title:</b>	Metcalfe St - Laurier to End	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (General)	<b>Strategic Plans:</b>	Infrastructure / Sustainability, Maintenance
<b>Division:</b>	Capital - Infrastructure & Operations	<b>Project Type:</b>	
<b>Budget Year:</b>	2020	<b>Active:</b>	Yes

<b>Description</b>		<b>Comments</b>	
<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, tendering and construction technical assistance.</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>	
<b>Scenario Description</b>		<b>Scenario Comments</b>	
<b>Forecast</b>		<b>Project Detailed 2020</b>	
<b>Budget Year</b>	<b>Total Expense</b>	<b>Total Revenue</b>	<b>Difference</b>
2021	30,000	30,000	0
2022	600,000	600,000	0
	<b>630,000</b>	<b>630,000</b>	<b>0</b>
<b>LTD Amount:</b> 0		<b>Total Project Cost:</b> 630,000	
<b>Related Projects</b>		<b>Operating Impacts</b>	
<b>Year Identified</b>	<b>Start Date</b>	<b>Useful Life</b>	<b>Manager</b>
2019	Jan 1, 2021	25 Years	Adam Lacombe
			<b>Completion Date</b>
			Dec 31, 2022

<b>Number:</b>	3919SS	<b>Scenario:</b>	Main
<b>Title:</b>	Metcalfe St - Laurier to End	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (Water and Wastewater)	<b>Strategic Plans:</b>	Infrastructure / Sustainability, Maintenance
<b>Division:</b>	Capital - Sewer	<b>Project Type:</b>	
<b>Budget Year:</b>	2020	<b>Active:</b>	Yes

<b>Description</b>		<b>Comments</b>	
<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, tendering and construction technical assistance.</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>	
<b>Scenario Description</b>		<b>Scenario Comments</b>	
<b>Forecast</b>		<b>Project Detailed 2020</b>	
<b>Budget Year</b>	<b>Total Expense</b>	<b>Total Revenue</b>	<b>Difference</b>
2021	20,000	20,000	0
2022	400,000	400,000	0
	<b>420,000</b>	<b>420,000</b>	<b>0</b>
<b>LTD Amount:</b> 0		<b>Total Project Cost:</b> 420,000	
<b>Related Projects</b>		<b>Operating Impacts</b>	
<b>Year Identified</b>	<b>Start Date</b>	<b>Useful Life</b>	<b>Manager</b>
2019	Jan 1, 2021	75 Years	Adam Lacombe
			<b>Completion Date</b>
			Dec 31, 2022

<b>Number:</b>	3919ST	<b>Scenario:</b>	Main
<b>Title:</b>	Metcalfe St - Laurier to End	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (General)	<b>Strategic Plans:</b>	Infrastructure / Sustainability, Maintenance
<b>Division:</b>	Capital - Infrastructure & Operations	<b>Project Type:</b>	
<b>Budget Year:</b>	2020	<b>Active:</b>	Yes

<b>Description</b>		<b>Comments</b>	
<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, tendering and construction technical assistance.</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>	
<b>Scenario Description</b>		<b>Scenario Comments</b>	
<b>Forecast</b>		<b>Project Detailed 2020</b>	
<b>Budget Year</b>	<b>Total Expense</b>	<b>Total Revenue</b>	<b>Difference</b>
2021	20,000	20,000	0
2022	400,000	400,000	0
	<b>420,000</b>	<b>420,000</b>	<b>0</b>
<b>LTD Amount:</b> 0	<b>Total Project Cost:</b> 420,000		
<b>Related Projects</b>		<b>Operating Impacts</b>	
<b>Year Identified</b>	<b>Start Date</b>	<b>Useful Life</b>	<b>Manager</b>
2019	Jan 1, 2021	75 Years	Adam Lacombe
			<b>Completion Date</b>
			Dec 31, 2022

<b>Number:</b>	3919WS	<b>Scenario:</b>	Main
<b>Title:</b>	Metcalfe St - Laurier to End	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (Water and Wastewater)	<b>Strategic Plans:</b>	Infrastructure / Sustainability, Maintenance
<b>Division:</b>	Capital - Water	<b>Project Type:</b>	
<b>Budget Year:</b>	2020	<b>Active:</b>	Yes

<b>Description</b>		<b>Comments</b>	
<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, tendering and construction technical assistance.</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>	
<b>Scenario Description</b>		<b>Scenario Comments</b>	
<b>Forecast</b>		<b>Project Detailed 2020</b>	
<b>Budget Year</b>	<b>Total Expense</b>	<b>Total Revenue</b>	<b>Difference</b>
2021	20,000	20,000	0
2022	400,000	400,000	0
	<b>420,000</b>	<b>420,000</b>	<b>0</b>
<b>LTD Amount:</b> 0		<b>Total Project Cost:</b> 420,000	
<b>Related Projects</b>		<b>Operating Impacts</b>	
<b>Year Identified</b>	<b>Start Date</b>	<b>Useful Life</b>	<b>Manager</b>
2019	Jan 1, 2021	75 Years	Adam Lacombe
			<b>Completion Date</b>
			Dec 31, 2022



<b>Number:</b>	3920RD	<b>Scenario:</b>	Main
<b>Title:</b>	O'Brien Street - Ski Club to Airport & Ski Club Signals	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (General)	<b>Strategic Plans:</b>	Infrastructure / Sustainability
<b>Division:</b>	Capital - Infrastructure & Operations	<b>Project Type:</b>	
<b>Budget Year:</b>	2020	<b>Active:</b>	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 technical assistance.</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 3606RD/ST/SS/WS</p>

Scenario Description	Scenario Comments

Forecast	Project Detailed 2020																
<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>1,000,000</td> <td>1,000,000</td> <td>0</td> </tr> <tr> <td></td> <td><b>1,000,000</b></td> <td><b>1,000,000</b></td> <td><b>0</b></td> </tr> <tr> <td colspan="2"><b>LTD Amount:</b> 50,000</td> <td colspan="2"><b>Total Project Cost:</b> 1,050,000</td> </tr> </tbody> </table>	Budget Year	Total Expense	Total Revenue	Difference	2021	1,000,000	1,000,000	0		<b>1,000,000</b>	<b>1,000,000</b>	<b>0</b>	<b>LTD Amount:</b> 50,000		<b>Total Project Cost:</b> 1,050,000		
Budget Year	Total Expense	Total Revenue	Difference														
2021	1,000,000	1,000,000	0														
	<b>1,000,000</b>	<b>1,000,000</b>	<b>0</b>														
<b>LTD Amount:</b> 50,000		<b>Total Project Cost:</b> 1,050,000															

Related Projects	Operating Impacts

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

<b>Number:</b>	3920SS	<b>Scenario:</b>	Main
<b>Title:</b>	O'Brien Street - Ski Club to Airport & Ski Club Signals	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (Water and Wastewater)	<b>Strategic Plans:</b>	Infrastructure / Sustainability
<b>Division:</b>	Capital - Sewer	<b>Project Type:</b>	
<b>Budget Year:</b>	2020	<b>Active:</b>	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 technical assistance.</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 3606RD/ST/SS/WS</p>

Scenario Description	Scenario Comments

Forecast	Project Detailed 2020																
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Budget Year	Total Expense	Total Revenue	Difference														
2021	300,000	300,000	0														
	<b>300,000</b>	<b>300,000</b>	<b>0</b>														
<b>LTD Amount:</b> 20,000		<b>Total Project Cost:</b> 320,000															

Related Projects	Operating Impacts

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

<b>Number:</b>	3920ST	<b>Scenario:</b>	Main
<b>Title:</b>	O'Brien Street - Ski Club to Airport & Ski Club Signals	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (General)	<b>Strategic Plans:</b>	Infrastructure / Sustainability
<b>Division:</b>	Capital - Infrastructure & Operations	<b>Project Type:</b>	
<b>Budget Year:</b>	2020	<b>Active:</b>	Yes

<b>Description</b>		<b>Comments</b>	
<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 technical assistance.</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 3606RD/ST/SS/WS</p>	
<b>Scenario Description</b>		<b>Scenario Comments</b>	
<b>Forecast</b>		<b>Project Detailed 2020</b>	
<b>Budget Year</b>	<b>Total Expense</b>	<b>Total Revenue</b>	<b>Difference</b>
2021	300,000	300,000	0
	<b>300,000</b>	<b>300,000</b>	<b>0</b>
<b>LTD Amount:</b> 20,000		<b>Total Project Cost:</b> 320,000	
<b>Related Projects</b>		<b>Operating Impacts</b>	
<b>Year Identified</b>	<b>Start Date</b>	<b>Useful Life</b>	<b>Manager</b>
2019	Jan 1, 2019	75 Years	Reid Porter
			<b>Completion Date</b>
			Dec 31, 2021

<b>Number:</b>	3920WS	<b>Scenario:</b>	Main
<b>Title:</b>	O'Brien Street - Ski Club to Airport & Ski Club Signals	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (Water and Wastewater)	<b>Strategic Plans:</b>	Infrastructure / Sustainability
<b>Division:</b>	Capital - Water	<b>Project Type:</b>	
<b>Budget Year:</b>	2020	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
<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 technical assistance.</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 3606RD/ST/SS/WS</p>

<b>Scenario Description</b>	<b>Scenario Comments</b>

<b>Forecast</b>	<b>Project Detailed 2020</b>																
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Budget Year	Total Expense	Total Revenue	Difference														
2021	300,000	300,000	0														
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<b>LTD Amount:</b> 20,000		<b>Total Project Cost:</b> 320,000															

<b>Related Projects</b>	<b>Operating Impacts</b>

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

<b>Number:</b>	3922SS	<b>Scenario:</b>	Main
<b>Title:</b>	Wastewater Treatment Plant - Chain and Flygt	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (Water and Wastewater)	<b>Strategic Plans:</b>	Maintenance
<b>Division:</b>	Capital - Sewer	<b>Project Type:</b>	
<b>Budget Year:</b>	2020	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
The Wastewater Treatment Plant primary and secondary clarifiers are operated with a chain and flygt system. The chains and flygts scrape scum off the top of the clarifiers and scrape sludge into a hopper to be transferred to the digesters. The chains and flygts get worn out over time and require replacement. These funds will provide for the replacement of worn out chains and flygts.	Funds will provide for the replacement parts of worn out chains and flygts for the primary and secondary clarifiers at the Wastewater Treatment Plant. The wastewater plant millwrights will complete the labour to replace the chains and flygts when they fail.

<b>Scenario Description</b>	<b>Scenario Comments</b>

<b>Forecast</b>	<b>Project Detailed 2020</b>																																											
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<b>Related Projects</b>	<b>Operating Impacts</b>

Year Identified	Start Date	Useful Life	Manager	Completion Date
2019	Jan 1, 2020	10 Years	Karin Pratte	Dec 31, 2020

<b>Number:</b>	3923SS	<b>Scenario:</b>	Main
<b>Title:</b>	Wastewater Treatment Plant - Aeration Diffusers	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (Water and Wastewater)	<b>Strategic Plans:</b>	Infrastructure / Sustainability, Maintenance
<b>Division:</b>	Capital - Sewer	<b>Project Type:</b>	
<b>Budget Year:</b>	2020	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
This project provides for the replacement of one full set of aeration tank diffusers.	There are 3 aeration tanks at the Wastewater Treatment Plant where oxygen is provided through diffusers to the microorganism that break down the waste. The diffusers require cleaning every 2-3 years and the cleaning process can take several weeks. This project will provide for the replacement of one full set of aeration tank diffusers which will allow for a clean set of diffusers to be ready for installation at all time which will ensure that aeration tanks are not off-line for an extended period of time.

<b>Scenario Description</b>	<b>Scenario Comments</b>

<b>Forecast</b>	<b>Project Detailed 2020</b>																
<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></td> <td><b>250,000</b></td> <td><b>250,000</b></td> <td><b>0</b></td> </tr> <tr> <td colspan="2"><b>LTD Amount: 0</b></td> <td colspan="2"><b>Total Project Cost: 250,000</b></td> </tr> </tbody> </table>	Budget Year	Total Expense	Total Revenue	Difference	2021	250,000	250,000	0		<b>250,000</b>	<b>250,000</b>	<b>0</b>	<b>LTD Amount: 0</b>		<b>Total Project Cost: 250,000</b>		
Budget Year	Total Expense	Total Revenue	Difference														
2021	250,000	250,000	0														
	<b>250,000</b>	<b>250,000</b>	<b>0</b>														
<b>LTD Amount: 0</b>		<b>Total Project Cost: 250,000</b>															

<b>Related Projects</b>	<b>Operating Impacts</b>

Year Identified	Start Date	Useful Life	Manager	Completion Date
2019	Jan 1, 2021	30 Years	Karin Pratte	Dec 31, 2021

<b>Number:</b>	3926GD	<b>Scenario:</b>	Main
<b>Title:</b>	Merrick Landfill Lifecycle Extension Environmental Assessment	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (General)	<b>Strategic Plans:</b>	Infrastructure / Sustainability, Maintenance,...
<b>Division:</b>	Capital - Infrastructure & Operations	<b>Project Type:</b>	
<b>Budget Year:</b>	2020	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
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.

<b>Scenario Description</b>	<b>Scenario Comments</b>

<b>Forecast</b>	<b>Project Detailed 2020</b>																								
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<b>LTD Amount:</b> 0		<b>Total Project Cost:</b> 8,500,000																							

<b>Related Projects</b>	<b>Operating Impacts</b>

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

<b>Number:</b>	3928SS	<b>Scenario:</b>	Main
<b>Title:</b>	Wastewater Treatment Plant - Roof Rehab	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (Water and Wastewater)	<b>Strategic Plans:</b>	Infrastructure / Sustainability, Maintenance
<b>Division:</b>	Capital - Sewer	<b>Project Type:</b>	
<b>Budget Year:</b>	2020	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
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. In 2020 the program includes repairs to the Centrifuge roof, the replacement of the screen building roof and the admin building roof.

<b>Scenario Description</b>	<b>Scenario Comments</b>

<b>Forecast</b>	<b>Project Detailed 2020</b>																																																											
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<b>Related Projects</b>	<b>Operating Impacts</b>

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



<b>Number:</b>	3930PR	<b>Scenario:</b>	Main
<b>Title:</b>	Active Transportation Projects	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Strategic Investment (General)	<b>Strategic Plans:</b>	Growth / Economic Development,...
<b>Division:</b>	Capital - Community Services	<b>Project Type:</b>	
<b>Budget Year:</b>	2020	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
This program provides funding for projects identified and prioritized in the City's Active Transportation Master Plan (ATMP) that meet the requirements of the Ontario Municipal Commuter Cycling Program.	The City has secured funding through the Ontario Municipal Commuter Cycling Program (OMCC) to complete active transportation projects as identified and prioritized in the City's ATMP that meet the OMCC requirements and can be completed by December 2020.

<b>Scenario Description</b>	<b>Scenario Comments</b>

<b>Forecast</b>	<b>Project Detailed 2020</b>																																								
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<b>Related Projects</b>	<b>Operating Impacts</b>

Year Identified	Start Date	Useful Life	Manager	Completion Date
2018	Jan 1, 2019	TBD	Paula McCloskey	Dec 31, 2020

<b>Number:</b>	3931RD	<b>Scenario:</b>	Main
<b>Title:</b>	Ellendale Second Feed & Second Reservoir	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Strategic Investment (General)	<b>Strategic Plans:</b>	Infrastructure / Sustainability
<b>Division:</b>	Capital - Infrastructure & Operations	<b>Project Type:</b>	
<b>Budget Year:</b>	2020	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
<p>The project involves the engineering design and construction services for a second trunk watermain feed to the Ellendale Reservoir and a second reservoir adjacent to the existing reservoir.</p> <p>Engineering services will include preliminary design, detailed design, agency approvals, contract drawings, specifications, tendering and construction technical assistance.</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.</p> <p>The existing Ellendale Reservoir provides storage for Zone 1 in the water distribution system. When there is a need to shut down the feed to the reservoir (such as for certain construction activities or emergency repair), there is only a short duration available for the work to get completed since the distribution system would only be supplied by the available storage in the reservoir. A second reservoir would provide additional storage and increase the duration available to get the work completed, thereby reducing the risk of running out of water.</p> <p>The second feed will be completed prior to the second reservoir, which will be completed in future years.</p> <p>Related Project includes 3931WS.</p>

<b>Scenario Description</b>	<b>Scenario Comments</b>

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<b>Related Projects</b>	<b>Operating Impacts</b>

Year Identified	Start Date	Useful Life	Manager	Completion Date
2011	Jan 1, 2019	75 Years	Gerry McCrank	Dec 31, 2027

<b>Number:</b>	3931WS	<b>Scenario:</b>	Main
<b>Title:</b>	Ellendale Second Feed & Second Reservoir	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Strategic Investment (Water and Wastewater)	<b>Strategic Plans:</b>	Infrastructure / Sustainability
<b>Division:</b>	Capital - Water	<b>Project Type:</b>	
<b>Budget Year:</b>	2020	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
<p>The project involves the engineering design and construction services for a second trunk watermain feed to the Ellendale Reservoir and a second reservoir adjacent to the existing reservoir.</p> <p>Engineering services will include preliminary design, detailed design, agency approvals, contract drawings, specifications, tendering and construction technical assistance.</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.</p> <p>The existing Ellendale Reservoir provides storage for Zone 1 in the water distribution system. When there is a need to shut down the feed to the reservoir (such as for certain construction activities or emergency repair), there is only a short duration available for the work to get completed since the distribution system would only be supplied by the available storage in the reservoir. A second reservoir would provide additional storage and increase the duration available to get the work completed, thereby reducing the risk of running out of water.</p> <p>The second feed will be completed prior to the second reservoir, which will be completed in future years.</p> <p>Related Project includes 3931RD.</p>

<b>Scenario Description</b>	<b>Scenario Comments</b>

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<b>Related Projects</b>	<b>Operating Impacts</b>

<b>Year Identified</b>	<b>Start Date</b>	<b>Useful Life</b>	<b>Manager</b>	<b>Completion Date</b>
2011	Jan 1, 2019	75 Years	Gerry McCrank	Dec 31, 2027

<b>Number:</b>	3932RD	<b>Scenario:</b>	Main
<b>Title:</b>	Lakeshore Dr. - Jessups Creek to Premier Road	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (General)	<b>Strategic Plans:</b>	Infrastructure / Sustainability
<b>Division:</b>	Capital - Infrastructure & Operations	<b>Project Type:</b>	
<b>Budget Year:</b>	2020	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
<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, tendering and construction technical assistance.</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>

<b>Scenario Description</b>	<b>Scenario Comments</b>

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<b>Related Projects</b>	<b>Operating Impacts</b>

<b>Year Identified</b>	<b>Start Date</b>	<b>Useful Life</b>	<b>Manager</b>	<b>Completion Date</b>
2016	Jan 1, 2020	25 Years	Gerry McCrank	Dec 31, 2023

<b>Number:</b>	3932SS	<b>Scenario:</b>	Main
<b>Title:</b>	Lakeshore Dr. - Jessups Creek to Premier Road	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (Water and Wastewater)	<b>Strategic Plans:</b>	Infrastructure / Sustainability
<b>Division:</b>	Capital - Sewer	<b>Project Type:</b>	
<b>Budget Year:</b>	2020	<b>Active:</b>	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, tendering and construction technical assistance.</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 2020		
Budget Year	Total Expense	Total Revenue	Difference	GL Account	Description	Total Amount
2020	40,000	40,000	0			
2022	350,000	350,000	0	3117	DESIGN FEES	38,647
2023	350,000	350,000	0	7010	ADMINISTRATON & OVERHEAD	1,353
	<b>740,000</b>	<b>740,000</b>	<b>0</b>		<b>Total Expense:</b>	<b>40,000</b>
<b>LTD Amount:</b> 0		<b>Total Project Cost:</b> 740,000			<b>Revenue</b>	
				0461	TSF FRM REV FUND-PAYGO	40,000
					<b>Total Revenue:</b>	<b>40,000</b>

Related Projects	Operating Impacts

Year Identified	Start Date	Useful Life	Manager	Completion Date
2016	Jan 1, 2020	75 Years	Gerry McCrank	Dec 31, 2023

<b>Number:</b>	3932ST	<b>Scenario:</b>	Main
<b>Title:</b>	Lakeshore Dr. - Jessups Creek to Premier Road	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (General)	<b>Strategic Plans:</b>	Infrastructure / Sustainability
<b>Division:</b>	Capital - Infrastructure & Operations	<b>Project Type:</b>	
<b>Budget Year:</b>	2020	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
<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, tendering and construction technical assistance.</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>

<b>Scenario Description</b>	<b>Scenario Comments</b>

<b>Forecast</b>	<b>Project Detailed 2020</b>																																																
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<b>Related Projects</b>	<b>Operating Impacts</b>

<b>Year Identified</b>	<b>Start Date</b>	<b>Useful Life</b>	<b>Manager</b>	<b>Completion Date</b>
2016	Jan 1, 2020	75 Years	Gerry McCrank	Dec 31, 2023

<b>Number:</b>	3932WS	<b>Scenario:</b>	Main
<b>Title:</b>	Lakeshore Dr. - Jessups Creek to Premier Road	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (Water and Wastewater)	<b>Strategic Plans:</b>	Infrastructure / Sustainability
<b>Division:</b>	Capital - Water	<b>Project Type:</b>	
<b>Budget Year:</b>	2020	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
<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, tendering and construction technical assistance.</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>

<b>Scenario Description</b>	<b>Scenario Comments</b>

<b>Forecast</b>	<b>Project Detailed 2020</b>																																																
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<b>Related Projects</b>	<b>Operating Impacts</b>

<b>Year Identified</b>	<b>Start Date</b>	<b>Useful Life</b>	<b>Manager</b>	<b>Completion Date</b>
2016	Jan 1, 2020	75 Years	Gerry McCrank	Dec 31, 2023

<b>Number:</b>	3934RD	<b>Scenario:</b>	Main
<b>Title:</b>	Main St. Paving Stone Replacement	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (General)	<b>Strategic Plans:</b>	Infrastructure / Sustainability
<b>Division:</b>	Capital - Infrastructure & Operations	<b>Project Type:</b>	
<b>Budget Year:</b>	2020	<b>Active:</b>	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 design, contract drawings, specifications, tendering, and construction technical assistance.</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>In 2020, the design process will include public and stakeholder consultation to assist City Staff with the evaluation of the alternatives.</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>The scope of the project will be scaled based on funding availability. Third party funding, included in this proposed budget, will be explored but has not yet been identified and approved.</p> <p>Related projects include: 3934ST</p>

Scenario Description	Scenario Comments

Forecast				Project Detailed 2020		
Budget Year	Total Expense	Total Revenue	Difference	GL Account	Description	Total Amount
2020	150,000	150,000	0	<b>Expense</b>		
2022	3,500,000	3,500,000	0	3117	DESIGN FEES	144,928
2023	4,500,000	4,500,000	0	7010	ADMINISTRATON & OVERHEAD	5,072
	<b>8,150,000</b>	<b>8,150,000</b>	<b>0</b>		<b>Total Expense:</b>	<b>150,000</b>
<b>LTD Amount:</b> 0		<b>Total Project Cost:</b> 8,150,000		<b>Revenue</b>		
				0461	TSF FRM REV FUND-PAYGO	150,000
					<b>Total Revenue:</b>	<b>150,000</b>

Related Projects	Operating Impacts

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



<b>Number:</b>	3934ST	<b>Scenario:</b>	Main
<b>Title:</b>	Main St. Paving Stone Replacement	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (General)	<b>Strategic Plans:</b>	Infrastructure / Sustainability
<b>Division:</b>	Capital - Infrastructure & Operations	<b>Project Type:</b>	
<b>Budget Year:</b>	2020	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
<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 design, contract drawings, specifications, tendering, and construction technical assistance.</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>In 2020, the design process will include public and stakeholder consultation to assist City Staff with the evaluation of the alternatives.</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>The scope of the project will be scaled based on funding availability. Third party funding, included in this proposed budget, will be explored but has not yet been identified and approved.</p> <p>Related projects include: 3934RD</p>

<b>Scenario Description</b>	<b>Scenario Comments</b>

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<b>Related Projects</b>	<b>Operating Impacts</b>

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

<b>Number:</b>	3935SS	<b>Scenario:</b>	Main
<b>Title:</b>	Marshall 500 mm Forcemain Condition Assessment and Rehab	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (Water and Wastewater)	<b>Strategic Plans:</b>	Infrastructure / Sustainability
<b>Division:</b>	Capital - Sewer	<b>Project Type:</b>	
<b>Budget Year:</b>	2020	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
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.

<b>Scenario Description</b>	<b>Scenario Comments</b>

<b>Forecast</b>	<b>Project Detailed 2020</b>																
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Budget Year	Total Expense	Total Revenue	Difference														
2022	500,000	500,000	0														
	<b>500,000</b>	<b>500,000</b>	<b>0</b>														
<b>LTD Amount: 0</b>		<b>Total Project Cost: 500,000</b>															

<b>Related Projects</b>	<b>Operating Impacts</b>

Year Identified	Start Date	Useful Life	Manager	Completion Date
2016	Jan 1, 2023	25 Years	Adam Lacombe	Dec 31, 2023

<b>Number:</b>	3936WS	<b>Scenario:</b>	Main
<b>Title:</b>	Watermain - Cathodic Protection Program	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (Water and Wastewater)	<b>Strategic Plans:</b>	Infrastructure / Sustainability
<b>Division:</b>	Capital - Water	<b>Project Type:</b>	
<b>Budget Year:</b>	2020	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
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.

<b>Scenario Description</b>	<b>Scenario Comments</b>

<b>Forecast</b>	<b>Project Detailed 2020</b>																
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Budget Year	Total Expense	Total Revenue	Difference														
2021	200,000	200,000	0														
	<b>200,000</b>	<b>200,000</b>	<b>0</b>														
<b>LTD Amount: 0</b>		<b>Total Project Cost: 200,000</b>															

<b>Related Projects</b>	<b>Operating Impacts</b>

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

<b>Number:</b>	3938PR	<b>Scenario:</b>	Main
<b>Title:</b>	Olmsted Beach - Boat Launch Replacement	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (General)	<b>Strategic Plans:</b>	Infrastructure / Sustainability, Maintenance
<b>Division:</b>	Capital - Community Services	<b>Project Type:</b>	
<b>Budget Year:</b>	2020	<b>Active:</b>	Yes

<b>Description</b>		<b>Comments</b>	
This project provides for the design and construction to replace the Olmsted Boat Launch.		<p>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.</p> <p>Not undertaking the redevelopment will result in the eventual closing of the access due to health and safety concerns to users.</p>	
<b>Scenario Description</b>		<b>Scenario Comments</b>	
		<p>The following details support the Capital Forecast for 2021 to 2029:</p> <p>2022 Olmsted boat launch design</p> <p>2023 Olmsted boat launch construction</p>	
<b>Forecast</b>		<b>Project Detailed 2020</b>	
<b>Budget Year</b>	<b>Total Expense</b>	<b>Total Revenue</b>	<b>Difference</b>
2022	50,000	50,000	0
2023	550,000	550,000	0
	<b>600,000</b>	<b>600,000</b>	<b>0</b>
<b>LTD Amount:</b> 0	<b>Total Project Cost:</b> 600,000		
<b>Related Projects</b>		<b>Operating Impacts</b>	
<b>Year Identified</b>	<b>Start Date</b>	<b>Useful Life</b>	<b>Manager</b>
2018	Jan 1, 2022	25 Years	David Schroeder
			<b>Completion Date</b>
			Dec 31, 2023

<b>Number:</b>	3939RF	<b>Scenario:</b>	Main
<b>Title:</b>	Aquatic Centre Roof Replacement	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (General)	<b>Strategic Plans:</b>	Infrastructure / Sustainability, Maintenance
<b>Division:</b>	Capital - Infrastructure & Operations	<b>Project Type:</b>	
<b>Budget Year:</b>	2020	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
This program will allow for the replacement of the portion of the Aquatic Centre Roof which is over the pool area, aquatic reception, and change room area. The roof was deemed to be in poor condition based on a roof inspection report but has not yet experienced a significant failure.	The roof is original to the aquatic centre construction and is near the ended of its expected service life.

<b>Scenario Description</b>	<b>Scenario Comments</b>

<b>Forecast</b>	<b>Project Detailed 2020</b>																																														
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<b>Related Projects</b>	<b>Operating Impacts</b>

Year Identified	Start Date	Useful Life	Manager	Completion Date
2019	Jan 1, 2019	15 Years	David Jackowski	Dec 31, 2020

<b>Number:</b>	3941RF	<b>Scenario:</b>	Main
<b>Title:</b>	Memorial Gardens - HVAC Upgrades	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (General)	<b>Strategic Plans:</b>	Maintenance
<b>Division:</b>	Capital - Community Services	<b>Project Type:</b>	
<b>Budget Year:</b>	2020	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
The current make-up air unit with heat recovery has been in service since 2000. This unit provides ventilation for the south end public gang style washrooms.	<p>The expected life span of this HVAC unit that services the washrooms at the south end of the facility has reached the end of its service life and the unit is no longer functioning as intended.</p> <p>This project includes for the design and modification of the ventilation system servicing this area to meet modern standards.</p> <p>Replacing the existing unit with a modern energy efficient equivalent will reduce the overall lifecycle costs, as well as reduce energy costs for the facility.</p>

<b>Scenario Description</b>	<b>Scenario Comments</b>

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<b>Related Projects</b>	<b>Operating Impacts</b>

Year Identified	Start Date	Useful Life	Manager	Completion Date
2019	Jan 1, 2019	20 Years	David Jackowski	Dec 31, 2020

<b>Number:</b>	3942RF	<b>Scenario:</b>	Main
<b>Title:</b>	Omischl Sports Complex - Synthetic Turf Replacement	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (General)	<b>Strategic Plans:</b>	Infrastructure / Sustainability, Maintenance
<b>Division:</b>	Capital - Community Services	<b>Project Type:</b>	
<b>Budget Year:</b>	2020	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
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.

<b>Scenario Description</b>	<b>Scenario Comments</b>
	The following details support the Capital Forecast for 2021 to 2029: 2022 Soccer field synthetic turf replacement 2025 Football field synthetic turf replacement

<b>Forecast</b>	<b>Project Detailed 2020</b>																				
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<b>Related Projects</b>	<b>Operating Impacts</b>

Year Identified	Start Date	Useful Life	Manager	Completion Date
2019	Jan 1, 2022	10 to 20 Years	David Schroeder	Dec 31, 2025

<b>Number:</b>	3943RF	<b>Scenario:</b>	Main
<b>Title:</b>	Omischl Sports Complex - Shade Structures Development	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (General)	<b>Strategic Plans:</b>	Growth / Economic Development,...
<b>Division:</b>	Capital - Community Services	<b>Project Type:</b>	
<b>Budget Year:</b>	2020	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
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.

<b>Scenario Description</b>	<b>Scenario Comments</b>
	The following details support the Capital Forecast for 2021 to 2029: 2023 Picnic shelter construction

<b>Forecast</b>	<b>Project Detailed 2020</b>																																															
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<b>Related Projects</b>	<b>Operating Impacts</b>

<b>Year Identified</b>	<b>Start Date</b>	<b>Useful Life</b>	<b>Manager</b>	<b>Completion Date</b>
2019	Jan 1, 2020	25 Years	David Schroeder	Dec 31, 2023



<b>Number:</b>	3944RF	<b>Scenario:</b>	Main
<b>Title:</b>	Lennox Field and Graham Fields Lighting Upgrades	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (General)	<b>Strategic Plans:</b>	Infrastructure / Sustainability
<b>Division:</b>	Capital - Community Services	<b>Project Type:</b>	
<b>Budget Year:</b>	2020	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
This project provides for the renovation of Lennox Field including upgrading the Lennox ball field and Graham soccer field lighting to LED fixtures.	The Lennox and Graham field lighting will be upgraded to LED fixtures that will improve efficiencies and reduce maintenance concerns with the current metal halide lighting.

<b>Scenario Description</b>	<b>Scenario Comments</b>

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Year Identified	Start Date	Useful Life	Manager	Completion Date
2019	Jan 1, 2020	25 Years	David Schroeder	Dec 31, 2020

<b>Number:</b>	3945RF	<b>Scenario:</b>	Main
<b>Title:</b>	Amelia Field Renovation & Lighting Upgrades	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (General)	<b>Strategic Plans:</b>	Infrastructure / Sustainability
<b>Division:</b>	Capital - Community Services	<b>Project Type:</b>	
<b>Budget Year:</b>	2020	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
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.

<b>Scenario Description</b>	<b>Scenario Comments</b>
	The following details support the Capital Forecast for 2021 to 2029: 2021 Amelia ball & soccer field renos // ball field lighting upgrade

<b>Forecast</b>	<b>Project Detailed 2020</b>																																												
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<b>Related Projects</b>	<b>Operating Impacts</b>

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

<b>Number:</b>	3946RF	<b>Scenario:</b>	Main
<b>Title:</b>	Johnson Field Renovation & Lighting Upgrades	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (General)	<b>Strategic Plans:</b>	Infrastructure / Sustainability
<b>Division:</b>	Capital - Community Services	<b>Project Type:</b>	
<b>Budget Year:</b>	2020	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
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.

<b>Scenario Description</b>	<b>Scenario Comments</b>
	The following details support the Capital Forecast for 2021 to 2029: 2022 Johnson ball field renos and lighting upgrades

<b>Forecast</b>	<b>Project Detailed 2020</b>																				
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<b>LTD Amount: 0</b>		<b>Total Project Cost: 400,000</b>																			

<b>Related Projects</b>	<b>Operating Impacts</b>

Year Identified	Start Date	Useful Life	Manager	Completion Date
2019	Jan 1, 2022	25 Years	David Schroeder	Dec 31, 2022

<b>Number:</b>	3947PR	<b>Scenario:</b>	Main
<b>Title:</b>	Bourke Park Building Replacement	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (General)	<b>Strategic Plans:</b>	Infrastructure / Sustainability
<b>Division:</b>	Capital - Community Services	<b>Project Type:</b>	
<b>Budget Year:</b>	2020	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
The main objective of this project is to replace the existing aged, obsolete and non-accessible parks building with a new, barrier free facility that will allow residents of all ages and abilities to better utilize and enjoy Bourke Park.	The Bourke Park Community Centre has an approximate building area of 9501 square feet. A new building is needed as the existing building would require extensive renovations to meet the functional requirements of the park. In addition a building condition assessment was undertaken in 2017 to assess the current condition of the City's park buildings. Bourke Park's building was found to be in need of extensive repairs and modifications in order to meet current code requirements. Additional modifications would be required for the existing Bourke Park Community Centre to meet accessibility standards.

<b>Scenario Description</b>	<b>Scenario Comments</b>

<b>Forecast</b>	<b>Project Detailed 2020</b>																
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<b>Related Projects</b>	<b>Operating Impacts</b>

Year Identified	Start Date	Useful Life	Manager	Completion Date
2018	Jan 1, 2019	50 Years	David Jackowski	Dec 31, 2021

<b>Number:</b>	4003WS	<b>Scenario:</b>	Main
<b>Title:</b>	Membrane Module Replacement	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (Water and Wastewater)	<b>Strategic Plans:</b>	Infrastructure / Sustainability
<b>Division:</b>	Capital - Water	<b>Project Type:</b>	
<b>Budget Year:</b>	2020	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
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.

<b>Scenario Description</b>	<b>Scenario Comments</b>

<b>Forecast</b>	<b>Project Detailed 2020</b>																				
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<b>Related Projects</b>	<b>Operating Impacts</b>

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

<b>Number:</b>	4004PK	<b>Scenario:</b>	Main
<b>Title:</b>	Parking Garage Repairs	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (General)	<b>Strategic Plans:</b>	Infrastructure / Sustainability, Maintenance
<b>Division:</b>	Capital - Infrastructure & Operations	<b>Project Type:</b>	
<b>Budget Year:</b>	2020	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
This project will provide for the repairs and upgrades identified in the 2018 Condition Survey Assessment of the Parking Garage.	A number of recommended repairs were identified in the 2018 Condition Survey Assessment of the Parking Garage. This project provides for concrete repairs, slab waterproofing repairs, expansion joint seal repairs, and drainage upgrades.

<b>Scenario Description</b>	<b>Scenario Comments</b>

<b>Forecast</b>	<b>Project Detailed 2020</b>																																								
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<b>Related Projects</b>	<b>Operating Impacts</b>

Year Identified	Start Date	Useful Life	Manager	Completion Date
2020	Jan 1, 2020		David Jackowski	Dec 31, 2020

<b>Number:</b>	4005RD	<b>Scenario:</b>	Main
<b>Title:</b>	Pinewood Park Drive Continuous Left Turn Lane (Lakeshore Drive to Decaire Road)	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Growth (General)	<b>Strategic Plans:</b>	
<b>Division:</b>	Capital - Infrastructure & Operations	<b>Project Type:</b>	
<b>Budget Year:</b>	2020	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
<p>The project involves the engineering and construction services to add a continuous left turn lane from Lakeshore Drive to Decaire Road. The addition of a lane will trigger an Environmental Assessment (EA). Engineering services will include preparation of a Municipal Class EA, 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 center left turn lane will be required, but different configurations will also be examined during the Environmental Assessment, such as widening to four lanes.</p>

<b>Scenario Description</b>	<b>Scenario Comments</b>

<b>Forecast</b>	<b>Project Detailed 2020</b>																				
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<b>Related Projects</b>	<b>Operating Impacts</b>

Year Identified	Start Date	Useful Life	Manager	Completion Date
2020	Jan 1, 2023		Adam Lacombe	Dec 31, 2026

<b>Number:</b>	4006RD	<b>Scenario:</b>	Main
<b>Title:</b>	Trout Lake Road (Mountainview Drive to Lees Road)	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (General)	<b>Strategic Plans:</b>	
<b>Division:</b>	Capital - Infrastructure & Operations	<b>Project Type:</b>	
<b>Budget Year:</b>	2020	<b>Active:</b>	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. Engineering services will include preliminary evaluation and design, detailed design, agency approvals, contract drawings, specifications, tendering and construction technical assistance.</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 &amp; 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 &amp; Assessment Summary Table.</p> <p>3- Bike Lanes The project will look at 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 included in the proposed capital budget which typically represents approximately 90% (to a maximum of \$3m) of the design and construction costs.</p>

Scenario Description	Scenario Comments

Forecast	Project Detailed 2020																
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Related Projects	Operating Impacts

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



<b>Number:</b>	4007RD	<b>Scenario:</b>	Main
<b>Title:</b>	Road Safety Strategy/Master Plan	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (General)	<b>Strategic Plans:</b>	
<b>Division:</b>	Capital - Infrastructure & Operations	<b>Project Type:</b>	
<b>Budget Year:</b>	2020	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
The project involves participation in the development of a Road Safety Strategy/Master Plan.	The North Bay Traffic Safety Committee contains members from many community organizations, including the North Bay City Police, Ontario Provincial Police, North Bay-Parry Sound District Health Unit, Ministry of Transportation, and City of North Bay. The goal of the committee is to improve road safety. In September 2018, the committee made a presentation for a Vision Zero Road Safety Strategy. Through a resolution, City Council endorsed the framework of the North Bay Vision Zero and the North Bay Vision Zero Committee. This study would further the committee goal and the endorsement by Council.

<b>Scenario Description</b>	<b>Scenario Comments</b>

<b>Forecast</b>	<b>Project Detailed 2020</b>																																								
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<b>Related Projects</b>	<b>Operating Impacts</b>

Year Identified	Start Date	Useful Life	Manager	Completion Date
2020	Jun 1, 2020	N/A	Adam Lacombe	Dec 31, 2020

<b>Number:</b>	4008SS	<b>Scenario:</b>	Main
<b>Title:</b>	Lavase Sanitary Sewer Phase 2 (Glen Rouge to Michener)	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (Water and Wastewater)	<b>Strategic Plans:</b>	Infrastructure / Sustainability
<b>Division:</b>	Capital - Sewer	<b>Project Type:</b>	
<b>Budget Year:</b>	2020	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
This project involves the replacement of the sanitary sewer main between Glen Rouge Rd. and Michener Dr. and is the second and last phase of the LaVase Sanitary Sewer replacement.	In 2019 City staff replaced the sanitary sewer main on LaVase Rd. from Hughes Rd. to Glen Rouge. The second and last phase of this project is to replace the sanitary sewer main from Glen Rouge Rd. to Michener Dr.  Currently the main is undersized and has had numerous back-ups and failures resulting in property damage. City staff must flush and clean this section of sanitary sewer main on a monthly basis to prevent further back-ups and property damage.  Related projects include 4008WS.

<b>Scenario Description</b>	<b>Scenario Comments</b>

<b>Forecast</b>	<b>Project Detailed 2020</b>																																								
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<b>Related Projects</b>	<b>Operating Impacts</b>

<b>Year Identified</b>	<b>Start Date</b>	<b>Useful Life</b>	<b>Manager</b>	<b>Completion Date</b>
2020	Jan 1, 2020	TBD	Domenic Schiavone	Dec 31, 2020

<b>Number:</b>	4008WS	<b>Scenario:</b>	Main
<b>Title:</b>	Lavase Sanitary Sewer Phase 2 (Glen Rouge to Michener)	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (Water and Wastewater)	<b>Strategic Plans:</b>	Infrastructure / Sustainability
<b>Division:</b>	Capital - Water	<b>Project Type:</b>	
<b>Budget Year:</b>	2020	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
This project involves the replacement of the sanitary sewer main between Glen Rouge Rd. and Michener Dr. and is the second and last phase of the LaVase Sanitary Sewer replacement.	In 2019 City staff replaced the sanitary sewer main on LaVase Rd. from Hughes Rd. to Glen Rouge. The second and last phase of this project is to replace the sanitary sewer main from Glen Rouge Rd. to Michener Dr.  Currently the main is undersized and has had numerous back-ups and failures resulting in property damage. City staff must flush and clean this section of sanitary sewer main on a monthly basis to prevent further back-ups and property damage.  Related projects include 4008SS.

<b>Scenario Description</b>	<b>Scenario Comments</b>

<b>Forecast</b>	<b>Project Detailed 2020</b>																																								
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<b>Related Projects</b>	<b>Operating Impacts</b>

<b>Year Identified</b>	<b>Start Date</b>	<b>Useful Life</b>	<b>Manager</b>	<b>Completion Date</b>
2020	Jan 1, 2020	TBD	Domenic Schiavone	Dec 31, 2020

<b>Number:</b>	4009RD	<b>Scenario:</b>	Main
<b>Title:</b>	Cooks Mills Road Rehab	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (General)	<b>Strategic Plans:</b>	Infrastructure / Sustainability, Maintenance
<b>Division:</b>	Capital - Infrastructure & Operations	<b>Project Type:</b>	
<b>Budget Year:</b>	2020	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
This project is for the base repair and re-surfacing of Cooks Mills Rd.	Cooks Mills Rd. is a rural roadway located off of Hwy 11N. The roadway services a number of residential properties. The surface of the roadway is experiencing multiple failures with missing sections of asphalt and numerous potholes requiring frequent repair. Funds from this project will be used to complete base repairs where required, culvert replacement, and re-surfacing using either cold in place asphalt or tar and chip technique.

<b>Scenario Description</b>	<b>Scenario Comments</b>

<b>Forecast</b>	<b>Project Detailed 2020</b>																																											
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<b>Related Projects</b>	<b>Operating Impacts</b>

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

<b>Number:</b>	4010RD	<b>Scenario:</b>	Main
<b>Title:</b>	Anita Avenue Rehab Phase 1	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (General)	<b>Strategic Plans:</b>	Infrastructure / Sustainability, Maintenance
<b>Division:</b>	Capital - Infrastructure & Operations	<b>Project Type:</b>	
<b>Budget Year:</b>	2020	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
This project involves the re-surfacing, culvert replacement, drainage improvements, and base repair of 1.5 to 2.0 km of Anita Ave.	Anita Ave. was originally constructed as a rural road for cottagers. Since assuming the roadway the City has completed resurfacing projects but not completed base repair to eliminate the many deficiencies in the road base. The area is now a thriving residential neighborhood and the roadway has numerous localized deficiencies in the 500 to 700 blocks. This project will allow for excavation and replacement of the road base, replacement of existing culverts, upgrading of drainage ditches and re-surfacing of asphalt of 1.5 to 2.0 km of roadway.

<b>Scenario Description</b>	<b>Scenario Comments</b>

<b>Forecast</b>	<b>Project Detailed 2020</b>																																											
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<b>Related Projects</b>	<b>Operating Impacts</b>

<b>Year Identified</b>	<b>Start Date</b>	<b>Useful Life</b>	<b>Manager</b>	<b>Completion Date</b>
2020	Jan 1, 2020	TBD	Domenic Schiavone	Dec 31, 2020

<b>Number:</b>	4011RD	<b>Scenario:</b>	Main
<b>Title:</b>	Carmichael Drive Box Culvert Replacement	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (General)	<b>Strategic Plans:</b>	Infrastructure / Sustainability, Maintenance
<b>Division:</b>	Capital - Infrastructure & Operations	<b>Project Type:</b>	
<b>Budget Year:</b>	2020	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
This project is for the replacement of 3 wooden box culverts on Carmichael Dr. between Little Down Lane and Airport Rd.	Carmichael Dr. originally had numerous wooden box culverts under the roadway and has experienced a number of failures over the last 4 years. Many of the failures have resulted in emergency replacement. In late 2018 Public Works inventoried the remaining wooden box culverts and have been replacing 2 to 3 structures annually. Following the planned work for 2020 there will be 2 wooden structures remaining that will be scheduled for replacement in 2021.

<b>Scenario Description</b>	<b>Scenario Comments</b>

<b>Forecast</b>	<b>Project Detailed 2020</b>																																											
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<b>Related Projects</b>	<b>Operating Impacts</b>

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

<b>Number:</b>	4012PR	<b>Scenario:</b>	Main
<b>Title:</b>	Olmsted Playground Replacement	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (General)	<b>Strategic Plans:</b>	Infrastructure / Sustainability, Maintenance
<b>Division:</b>	Capital - Community Services	<b>Project Type:</b>	
<b>Budget Year:</b>	2020	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
This project provides for the replacement of the Olmsted Beach playground. Previously the playground replacement program was included in the ongoing Parks and Playground Rehab Program.	The City's playground inspection and maintenance program is designed so that all playgrounds meet the CSA safety standards. Playgrounds have a service life of 15 to 20 years. Our maintenance program extends the service life of our playgrounds. After 17 years the playground at Olmstead Beach (Armstrong Park) has reached the end of its life cycle. It is scheduled to be removed Fall of 2019 and replaced in the Spring.

<b>Scenario Description</b>	<b>Scenario Comments</b>

<b>Forecast</b>	<b>Project Detailed 2020</b>																																														
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<b>Related Projects</b>	<b>Operating Impacts</b>

<b>Year Identified</b>	<b>Start Date</b>	<b>Useful Life</b>	<b>Manager</b>	<b>Completion Date</b>
2020	Jan 1, 2020		David Schroeder	Dec 31, 2020

<b>Number:</b>	4013FD	<b>Scenario:</b>	Main
<b>Title:</b>	Fire Station 1 - Roof Replacement	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (General)	<b>Strategic Plans:</b>	Infrastructure / Sustainability, Maintenance
<b>Division:</b>	Capital - Community Services	<b>Project Type:</b>	
<b>Budget Year:</b>	2020	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
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.

<b>Scenario Description</b>	<b>Scenario Comments</b>
	Project to commence and be completed in 2022.

<b>Forecast</b>	<b>Project Detailed 2020</b>																
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Budget Year	Total Expense	Total Revenue	Difference														
2022	124,200	124,200	0														
	<b>124,200</b>	<b>124,200</b>	<b>0</b>														
<b>LTD Amount:</b> 0	<b>Total Project Cost:</b> 124,200																

<b>Related Projects</b>	<b>Operating Impacts</b>

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



<b>Number:</b>	4014FD	<b>Scenario:</b>	Main
<b>Title:</b>	Fire Portable Radio Replacements	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (General)	<b>Strategic Plans:</b>	Infrastructure / Sustainability, Technology,...
<b>Division:</b>	Capital - Community Services	<b>Project Type:</b>	
<b>Budget Year:</b>	2020	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
This project provides for the replacement of 48 portable radios and a receiver that have reached the end of their life cycle.	North Bay Fire portable radios have reached the end of their life cycle. The current radios will be 15 years old and the manufacturer, because of technology changes, no longer supports our current hardware. We require replacement of 48 (from 71) radios and a receiver.

<b>Scenario Description</b>	<b>Scenario Comments</b>
	Replacement of 48 radios to occur in 2020 (Fire Department has 71 now but will reduce the amount of radios on hand to 48 through this capital project).

<b>Forecast</b>	<b>Project Detailed 2020</b>																																								
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<b>Related Projects</b>	<b>Operating Impacts</b>

Year Identified	Start Date	Useful Life	Manager	Completion Date
2020	Apr 1, 2020	15 years	Jason Whiteley	Apr 30, 2020

<b>Number:</b>	4015TR	<b>Scenario:</b>	Main
<b>Title:</b>	Transit Terminal Improvements	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (General)	<b>Strategic Plans:</b>	Infrastructure / Sustainability
<b>Division:</b>	Capital - Infrastructure & Operations	<b>Project Type:</b>	
<b>Budget Year:</b>	2020	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
This project is for accessibility improvements to the transit terminal public washrooms.	This project is for the upgraded design of public washrooms to improve accessibility for enhanced safety of passengers.  Budget includes funding through the Investing in Canada Infrastructure Program. City is awaiting Federal approval of the submitted application.

<b>Scenario Description</b>	<b>Scenario Comments</b>

<b>Forecast</b>	<b>Project Detailed 2020</b>																																											
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<b>Related Projects</b>	<b>Operating Impacts</b>

<b>Year Identified</b>	<b>Start Date</b>	<b>Useful Life</b>	<b>Manager</b>	<b>Completion Date</b>
2020	Jan 1, 2020		Drew Poeta	Dec 31, 2020

<b>Number:</b>	4016TR	<b>Scenario:</b>	Main
<b>Title:</b>	Transit Terminal Rehabilitation	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (General)	<b>Strategic Plans:</b>	Infrastructure / Sustainability, Maintenance
<b>Division:</b>	Capital - Infrastructure & Operations	<b>Project Type:</b>	
<b>Budget Year:</b>	2020	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
This project is for the rehabilitation of the transit terminal for passenger safety and 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. City is awaiting Federal approval of the submitted application.

<b>Scenario Description</b>	<b>Scenario Comments</b>

<b>Forecast</b>	<b>Project Detailed 2020</b>																																																			
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<b>Related Projects</b>	<b>Operating Impacts</b>

Year Identified	Start Date	Useful Life	Manager	Completion Date
2020	Jan 1, 2020	TBD	Drew Poeta	Dec 31, 2023

<b>Number:</b>	4017TR	<b>Scenario:</b>	Main
<b>Title:</b>	Transit Dynamic Dispatching Technology	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Strategic Investment (General)	<b>Strategic Plans:</b>	Growth / Economic Development,...
<b>Division:</b>	Capital - Infrastructure & Operations	<b>Project Type:</b>	
<b>Budget Year:</b>	2020	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
This project will provide for the transition of the current transit system to a rider request system for increased efficiency.	<p>The current system is a fixed route system which is considered an inefficient transit system. This project will shift the transit system from a fixed route system to a rider request system. This will allow automatic real time dispatching capabilities for late evening service and weekend service.</p> <p>This shift will increase ridership and lead to a more efficient transit system, with applicable cost savings, as riders will now be able to request transit.</p> <p>Budget includes funding through the Investing in Canada Infrastructure Program. City is awaiting Federal approval of the submitted application.</p>

<b>Scenario Description</b>	<b>Scenario Comments</b>

<b>Forecast</b>	<b>Project Detailed 2020</b>																																											
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<b>Related Projects</b>	<b>Operating Impacts</b>

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

<b>Number:</b>	4018TR	<b>Scenario:</b>	Main
<b>Title:</b>	Transit Fleet Garage and Bus Barn Upgrades: Health and Safety	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (General)	<b>Strategic Plans:</b>	Infrastructure / Sustainability,...
<b>Division:</b>	Capital - Infrastructure & Operations	<b>Project Type:</b>	
<b>Budget Year:</b>	2020	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
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. City is awaiting Federal approval of the submitted application.</p>

<b>Scenario Description</b>	<b>Scenario Comments</b>

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<b>Related Projects</b>	<b>Operating Impacts</b>

<b>Year Identified</b>	<b>Start Date</b>	<b>Useful Life</b>	<b>Manager</b>	<b>Completion Date</b>
2020	Jan 1, 2020	TBD	Drew Poeta	Dec 31, 2025

<b>Number:</b>	4019TR	<b>Scenario:</b>	Main
<b>Title:</b>	Specialized Transit (Para) AVL	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Strategic Investment (General)	<b>Strategic Plans:</b>	Technology, Equipment Replacement
<b>Division:</b>	Capital - Infrastructure & Operations	<b>Project Type:</b>	
<b>Budget Year:</b>	2020	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
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. City is awaiting Federal approval of the submitted application.

<b>Scenario Description</b>	<b>Scenario Comments</b>

<b>Forecast</b>	<b>Project Detailed 2020</b>																																															
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2020	Jan 1, 2020	TBD	Drew Poeta	Dec 31, 2021

<b>Number:</b>	4020TR	<b>Scenario:</b>	Main
<b>Title:</b>	New Bus Shelters and Digital Signage	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Strategic Investment (General)	<b>Strategic Plans:</b>	Infrastructure / Sustainability, Maintenance
<b>Division:</b>	Capital - Infrastructure & Operations	<b>Project Type:</b>	
<b>Budget Year:</b>	2020	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
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. City is awaiting Federal approval of the submitted application.

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

<b>Number:</b>	4021TR	<b>Scenario:</b>	Main
<b>Title:</b>	Construction of Sidewalks for Transit Routes	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Strategic Investment (General)	<b>Strategic Plans:</b>	Growth / Economic Development,...
<b>Division:</b>	Capital - Infrastructure & Operations	<b>Project Type:</b>	
<b>Budget Year:</b>	2020	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
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. City is awaiting Federal approval of the submitted application.

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2020	Jan 1, 2020	TBD	Drew Poeta	Dec 31, 2025



<b>Number:</b>	4022TR	<b>Scenario:</b>	Main
<b>Title:</b>	Transit Fleet Garage and Bus Barn Upgrades: Central Vacuum System and Doors	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (General)	<b>Strategic Plans:</b>	Infrastructure / Sustainability, Maintenance
<b>Division:</b>	Capital - Infrastructure & Operations	<b>Project Type:</b>	
<b>Budget Year:</b>	2020	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
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. City is awaiting Federal approval of the submitted application.</p>

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

<b>Number:</b>	4023GG	<b>Scenario:</b>	Main
<b>Title:</b>	City Hall Customer Service Centre & Lobby Renovations	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (General)	<b>Strategic Plans:</b>	Infrastructure / Sustainability
<b>Division:</b>	Capital - Infrastructure & Operations	<b>Project Type:</b>	
<b>Budget Year:</b>	2020	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
This project provides for a renovation to the customer service area to suit modern operational requirements. The project also includes for the renewal of the lobby flooring.	Over the years the requirements of the Customer Service Centre and the nature of how business is conducted has changed to the point where the current space is no longer suitable. This project will rebuild the space to meet the modern program requirements and to meet all accessible building standards.  Project also includes the replacement of the flooring in the entire lobby of City Hall.

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0461	TSF FRM REV FUND-PAYGO	18,000																																													
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5901	DEBENTURE PROCEEDS	605,000																																													
	<b>Total Revenue:</b>	<b>700,000</b>																																													

<b>Related Projects</b>	<b>Operating Impacts</b>

Year Identified	Start Date	Useful Life	Manager	Completion Date
2020	Jan 1, 2020	TBD	David Jackowski	Dec 31, 2020

<b>Number:</b>	4024SS	<b>Scenario:</b>	Main
<b>Title:</b>	Booth Lift Station & Forcemain Condition Assessment	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (Water and Wastewater)	<b>Strategic Plans:</b>	Infrastructure / Sustainability
<b>Division:</b>	Capital - Sewer	<b>Project Type:</b>	
<b>Budget Year:</b>	2020	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
The project involves the engineering services to perform a condition assessment of the Booth Road lift station and forcemain. Recommendations could include replacement, expansion, or rehabilitation.	Based on feedback from Public Works staff, the lift station is showing signs that it could need work in the immediate future. Part of the sanitary sewer system that drains to the station is the new trunk sewer that was installed in recent years on Lakeshore Drive and Pinewood Park Drive. As the area develops, there will be an increase in demand put on the station, so it will be critical that it functions properly.

<b>Scenario Description</b>	<b>Scenario Comments</b>

<b>Forecast</b>	<b>Project Detailed 2020</b>																																								
<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>2020</td> <td>35,000</td> <td>35,000</td> <td>0</td> </tr> <tr> <td></td> <td><b>35,000</b></td> <td><b>35,000</b></td> <td><b>0</b></td> </tr> <tr> <td colspan="2"><b>LTD Amount: 0</b></td> <td colspan="2"><b>Total Project Cost: 35,000</b></td> </tr> </tbody> </table>	Budget Year	Total Expense	Total Revenue	Difference	2020	35,000	35,000	0		<b>35,000</b>	<b>35,000</b>	<b>0</b>	<b>LTD Amount: 0</b>		<b>Total Project Cost: 35,000</b>		<table border="1"> <thead> <tr> <th>GL Account</th> <th>Description</th> <th>Total Amount</th> </tr> </thead> <tbody> <tr> <td colspan="3"><b>Expense</b></td> </tr> <tr> <td>3425</td> <td>CONSTRUCTION CONTRACT</td> <td>33,816</td> </tr> <tr> <td>7010</td> <td>ADMINISTRATON &amp; OVERHEAD</td> <td>1,184</td> </tr> <tr> <td></td> <td><b>Total Expense:</b></td> <td><b>35,000</b></td> </tr> <tr> <td colspan="3"><b>Revenue</b></td> </tr> <tr> <td>0461</td> <td>TSF FRM REV FUND-PAYGO</td> <td>35,000</td> </tr> <tr> <td></td> <td><b>Total Revenue:</b></td> <td><b>35,000</b></td> </tr> </tbody> </table>	GL Account	Description	Total Amount	<b>Expense</b>			3425	CONSTRUCTION CONTRACT	33,816	7010	ADMINISTRATON & OVERHEAD	1,184		<b>Total Expense:</b>	<b>35,000</b>	<b>Revenue</b>			0461	TSF FRM REV FUND-PAYGO	35,000		<b>Total Revenue:</b>	<b>35,000</b>
Budget Year	Total Expense	Total Revenue	Difference																																						
2020	35,000	35,000	0																																						
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<b>Related Projects</b>	<b>Operating Impacts</b>

<b>Year Identified</b>	<b>Start Date</b>	<b>Useful Life</b>	<b>Manager</b>	<b>Completion Date</b>
2020	Mar 1, 2020	TBD	Gerry McCrank	Dec 31, 2020

<b>Number:</b>	4025RD	<b>Scenario:</b>	Main
<b>Title:</b>	Booth Road & Lakeshore Drive Intersection Reconstruction	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Growth (General)	<b>Strategic Plans:</b>	Growth / Economic Development,...
<b>Division:</b>	Capital - Infrastructure & Operations	<b>Project Type:</b>	
<b>Budget Year:</b>	2020	<b>Active:</b>	Yes

<b>Description</b>		<b>Comments</b>	
<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. Engineering services will include preliminary evaluation and design, detailed design, agency approvals, contract drawings, specifications, tendering and construction technical assistance. Preparation of a Municipal Class EA may be required depending on the upgrades considered.</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.</p>	
<b>Scenario Description</b>		<b>Scenario Comments</b>	
<b>Forecast</b>		<b>Project Detailed 2020</b>	
<b>Budget Year</b>	<b>Total Expense</b>	<b>Total Revenue</b>	<b>Difference</b>
2021	150,000	150,000	0
2022	1,500,000	1,500,000	0
	<b>1,650,000</b>	<b>1,650,000</b>	<b>0</b>
<b>LTD Amount:</b> 0	<b>Total Project Cost:</b> 1,650,000		
<b>Related Projects</b>		<b>Operating Impacts</b>	
<b>Year Identified</b>	<b>Start Date</b>	<b>Useful Life</b>	<b>Manager</b>
2020	Jan 1, 2021	TBD	Adam Lacombe
			<b>Completion Date</b>
			Dec 31, 2022

<b>Number:</b>	4026RD	<b>Scenario:</b>	Main
<b>Title:</b>	Pinewood Park Dr. Left Turn Lane and Sanitary Sewer Extension (Decaire Rd to Casino Site)	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Growth (General)	<b>Strategic Plans:</b>	Growth / Economic Development,...
<b>Division:</b>	Capital - Infrastructure & Operations	<b>Project Type:</b>	
<b>Budget Year:</b>	2020	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
The project involves the engineering and construction services to add a left turn lane and sanitary sewer from Decaire Road to the new Casino site. Engineering services will include preliminary evaluation and design, detailed design, agency approvals, contract drawings, specifications, tendering and construction technical assistance.	Replacement of the Cooks Creek culvert was awarded in 2019 and was required to allow the sanitary sewer to be extended southerly on Pinewood Park Drive. The City will upsize the sanitary sewer so that it can service other future developments along the corridor. The left turn lane required for the Casino development will be extended to the north to provide new left turn lanes at the Decaire Road intersection. Costs for the works will be shared between the City and Gateway Casino and Entertainment.  Related projects include 4026SS

<b>Scenario Description</b>	<b>Scenario Comments</b>

<b>Forecast</b>	<b>Project Detailed 2020</b>																																											
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<b>Related Projects</b>	<b>Operating Impacts</b>

Year Identified	Start Date	Useful Life	Manager	Completion Date
2020	Jan 1, 2020	TBD	Reid Porter	Aug 31, 2020

<b>Number:</b>	4026SS	<b>Scenario:</b>	Main
<b>Title:</b>	Pinewood Park Dr. Left Turn Lane and Sanitary Sewer Extension (Decaire Rd to Casino Site)	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Growth (Water and Wastewater)	<b>Strategic Plans:</b>	Growth / Economic Development,...
<b>Division:</b>	Capital - Sewer	<b>Project Type:</b>	
<b>Budget Year:</b>	2020	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
The project involves the engineering and construction services to add a left turn lane and sanitary sewer from Decaire Road to the new Casino site. Engineering services will include preliminary evaluation and design, detailed design, agency approvals, contract drawings, specifications, tendering and construction technical assistance.	Replacement of the Cooks Creek culvert was awarded in 2019 and was required to allow the sanitary sewer to be extended southerly on Pinewood Park Drive. The City will upsize the sanitary sewer so that it can service other future developments along the corridor. The left turn lane required for the Casino development will be extended to the north to provide new left turn lanes at the Decaire Road intersection. Costs for the works will be shared between the City and Gateway Casino and Entertainment.  Related projects include 4026RD

<b>Scenario Description</b>	<b>Scenario Comments</b>

<b>Forecast</b>	<b>Project Detailed 2020</b>																																											
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Budget Year	Total Expense	Total Revenue	Difference																																									
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<b>Related Projects</b>	<b>Operating Impacts</b>

Year Identified	Start Date	Useful Life	Manager	Completion Date
2020	Jan 1, 2020	TBD	Reid Porter	Aug 31, 2020

<b>Number:</b>	4027TR	<b>Scenario:</b>	Main
<b>Title:</b>	Bicycle Racks and Related Storage Areas for Transit Riders	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (General)	<b>Strategic Plans:</b>	Equipment Replacement
<b>Division:</b>	Capital - Infrastructure & Operations	<b>Project Type:</b>	
<b>Budget Year:</b>	2020	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
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. City is awaiting Federal approval of the submitted application.

<b>Scenario Description</b>	<b>Scenario Comments</b>

<b>Forecast</b>	<b>Project Detailed 2020</b>																				
<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>84,000</td> <td>84,000</td> <td>0</td> </tr> <tr> <td>2022</td> <td>52,500</td> <td>52,500</td> <td>0</td> </tr> <tr> <td></td> <td><b>136,500</b></td> <td><b>136,500</b></td> <td><b>0</b></td> </tr> <tr> <td colspan="2"><b>LTD Amount:</b> 0</td> <td colspan="2"><b>Total Project Cost:</b> 136,500</td> </tr> </tbody> </table>	Budget Year	Total Expense	Total Revenue	Difference	2021	84,000	84,000	0	2022	52,500	52,500	0		<b>136,500</b>	<b>136,500</b>	<b>0</b>	<b>LTD Amount:</b> 0		<b>Total Project Cost:</b> 136,500		
Budget Year	Total Expense	Total Revenue	Difference																		
2021	84,000	84,000	0																		
2022	52,500	52,500	0																		
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<b>LTD Amount:</b> 0		<b>Total Project Cost:</b> 136,500																			

<b>Related Projects</b>	<b>Operating Impacts</b>

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

<b>Number:</b>	4028TR	<b>Scenario:</b>	Main
<b>Title:</b>	Transit - Trackless Snow Plow	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (General)	<b>Strategic Plans:</b>	Equipment Replacement
<b>Division:</b>	Capital - Infrastructure & Operations	<b>Project Type:</b>	
<b>Budget Year:</b>	2020	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
This project is for the purchase of a trackless snow plow.	This project is for the purchase of a new trackless snow plow and related attachments to improve the safety, accessibility and connectivity of the City Transit Network and Active Transportation Network.  Budget includes funding through the Investing in Canada Infrastructure Program. City is awaiting Federal approval of the submitted application. Balance of project to be funded by the Fleet Life Cycle Reserve Fund (99586R)

<b>Scenario Description</b>	<b>Scenario Comments</b>

<b>Forecast</b>	<b>Project Detailed 2020</b>																																											
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<b>Related Projects</b>	<b>Operating Impacts</b>

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



<b>Number:</b>	4029SS	<b>Scenario:</b>	Main
<b>Title:</b>	Wastewater Treatment Plant - Raw Sewage Pumping Station	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (Water and Wastewater)	<b>Strategic Plans:</b>	Infrastructure / Sustainability
<b>Division:</b>	Capital - Sewer	<b>Project Type:</b>	
<b>Budget Year:</b>	2020	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
A detailed condition assessment of the Wastewater Treatment Facility was completed in 2011. The report called for many upgrades to the aging infrastructure. The sewage pumping station located at the head end of the facility was included in the assessment.	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.  This project provides for the replacement of an inline sewage grinder and 2 raw sewage pumps.

<b>Scenario Description</b>	<b>Scenario Comments</b>

<b>Forecast</b>	<b>Project Detailed 2020</b>																
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Budget Year	Total Expense	Total Revenue	Difference														
2021	1,100,000	1,100,000	0														
	<b>1,100,000</b>	<b>1,100,000</b>	<b>0</b>														
<b>LTD Amount:</b> 0		<b>Total Project Cost:</b> 1,100,000															

<b>Related Projects</b>	<b>Operating Impacts</b>

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

<b>Number:</b>	4030SS	<b>Scenario:</b>	Main
<b>Title:</b>	Sanitary Sewer Relining	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (Water and Wastewater)	<b>Strategic Plans:</b>	Infrastructure / Sustainability, Master Plans
<b>Division:</b>	Capital - Sewer	<b>Project Type:</b>	
<b>Budget Year:</b>	2020	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
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 has a history of breaks and the installation of a lining to mitigate ground water infiltration into the sanitary sewer system.

<b>Scenario Description</b>	<b>Scenario Comments</b>

<b>Forecast</b>	<b>Project Detailed 2020</b>																								
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<b>Related Projects</b>	<b>Operating Impacts</b>

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

<b>Number:</b>	4031WS	<b>Scenario:</b>	Main
<b>Title:</b>	Public Works Building Rehab	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (Water and Wastewater)	<b>Strategic Plans:</b>	Maintenance
<b>Division:</b>	Capital - Water	<b>Project Type:</b>	
<b>Budget Year:</b>	2020	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
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, addressing immediate requirements, planning, including engineering and potential architectural designing, would be initiated in 2026. It is anticipated that through the planning process, informed by the condition assessments, that either significant upgrades to current facilities or the requirement to re-configure or add facilities will be required to meet operational needs to be initiated in 2029.

<b>Scenario Description</b>	<b>Scenario Comments</b>

<b>Forecast</b>	<b>Project Detailed 2020</b>																								
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<b>Related Projects</b>	<b>Operating Impacts</b>

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

<b>Number:</b>	4032RD	<b>Scenario:</b>	Main
<b>Title:</b>	O'Brien St. Reconstruction - Cassells to Ski Club	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (General)	<b>Strategic Plans:</b>	Infrastructure / Sustainability
<b>Division:</b>	Capital - Infrastructure & Operations	<b>Project Type:</b>	
<b>Budget Year:</b>	2020	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
<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>

<b>Scenario Description</b>	<b>Scenario Comments</b>

<b>Forecast</b>	<b>Project Detailed 2020</b>																								
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<b>Related Projects</b>	<b>Operating Impacts</b>

Year Identified	Start Date	Useful Life	Manager	Completion Date
2012	Jan 1, 2022	25 Years	Adam Lacombe	Dec 31, 2029

<b>Number:</b>	4032SS	<b>Scenario:</b>	Main
<b>Title:</b>	O'Brien St. Reconstruction - Cassells to Ski Club	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (Water and Wastewater)	<b>Strategic Plans:</b>	Infrastructure / Sustainability
<b>Division:</b>	Capital - Sewer	<b>Project Type:</b>	
<b>Budget Year:</b>	2020	<b>Active:</b>	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

Forecast	Project Detailed 2020																								
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Related Projects	Operating Impacts

Year Identified	Start Date	Useful Life	Manager	Completion Date
2012	Jan 1, 2022		Adam Lacombe	Dec 31, 2029

<b>Number:</b>	4032ST	<b>Scenario:</b>	Main
<b>Title:</b>	O'Brien St. Reconstruction - Cassells to Ski Club	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (General)	<b>Strategic Plans:</b>	Infrastructure / Sustainability
<b>Division:</b>	Capital - Infrastructure & Operations	<b>Project Type:</b>	
<b>Budget Year:</b>	2020	<b>Active:</b>	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

Forecast	Project Detailed 2020																								
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Related Projects	Operating Impacts

Year Identified	Start Date	Useful Life	Manager	Completion Date
2012	Jan 31, 2022	75 Years	Adam Lacombe	Dec 31, 2029

<b>Number:</b>	4032WS	<b>Scenario:</b>	Main
<b>Title:</b>	O'Brien St. Reconstruction - Cassells to Ski Club	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (Water and Wastewater)	<b>Strategic Plans:</b>	Infrastructure / Sustainability
<b>Division:</b>	Capital - Water	<b>Project Type:</b>	
<b>Budget Year:</b>	2020	<b>Active:</b>	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

Forecast	Project Detailed 2020																								
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<b>LTD Amount: 0</b>		<b>Total Project Cost: 1,790,000</b>																							

Related Projects	Operating Impacts

Year Identified	Start Date	Useful Life	Manager	Completion Date
2012	Jan 1, 2022	75 Years	Adam Lacombe	Dec 31, 2029

<b>Number:</b>	4033RD	<b>Scenario:</b>	Main
<b>Title:</b>	Roadside Guardrails and Retaining Walls - Inspection and Upgrade	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (General)	<b>Strategic Plans:</b>	Infrastructure / Sustainability, Maintenance
<b>Division:</b>	Capital - Infrastructure & Operations	<b>Project Type:</b>	
<b>Budget Year:</b>	2020	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
<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 contract drawings, specifications, tendering and construction technical assistance.</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>

<b>Scenario Description</b>	<b>Scenario Comments</b>

<b>Forecast</b>	<b>Project Detailed 2020</b>																				
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Budget Year	Total Expense	Total Revenue	Difference																		
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<b>LTD Amount: 0</b>		<b>Total Project Cost: 800,000</b>																			

<b>Related Projects</b>	<b>Operating Impacts</b>

Year Identified	Start Date	Useful Life	Manager	Completion Date
2018	Jan 1, 2020	TBD	Adam Lacombe	Dec 31, 2026



<b>Number:</b>	4034RD	<b>Scenario:</b>	Main
<b>Title:</b>	Road Condition Inspection	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (General)	<b>Strategic Plans:</b>	Maintenance
<b>Division:</b>	Capital - Infrastructure & Operations	<b>Project Type:</b>	
<b>Budget Year:</b>	2020	<b>Active:</b>	Yes

<b>Description</b>		<b>Comments</b>	
<p>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).</p>		<p>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.</p> <p>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.</p>	
<b>Scenario Description</b>		<b>Scenario Comments</b>	
<b>Forecast</b>		<b>Project Detailed 2020</b>	
<b>Budget Year</b>	<b>Total Expense</b>	<b>Total Revenue</b>	<b>Difference</b>
2023	250,000	250,000	0
2027	250,000	250,000	0
	<b>500,000</b>	<b>500,000</b>	<b>0</b>
<b>LTD Amount:</b> 0	<b>Total Project Cost:</b> 500,000		
<b>Related Projects</b>		<b>Operating Impacts</b>	
<b>Year Identified</b>	<b>Start Date</b>	<b>Useful Life</b>	<b>Manager</b>
2015	Jan 1, 2019	NA	Adam Lacombe
			<b>Completion Date</b>
			Dec 31, 2027

<b>Number:</b>	4101GG	<b>Scenario:</b>	Main
<b>Title:</b>	City Hall Accessibility Upgrades	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (General)	<b>Strategic Plans:</b>	Infrastructure / Sustainability, Maintenance
<b>Division:</b>	Capital - Infrastructure & Operations	<b>Project Type:</b>	
<b>Budget Year:</b>	2020	<b>Active:</b>	Yes

<b>Description</b>		<b>Comments</b>	
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.	

<b>Scenario Description</b>		<b>Scenario Comments</b>	

<b>Forecast</b>		<b>Project Detailed 2020</b>	
<b>Budget Year</b>	<b>Total Expense</b>	<b>Total Revenue</b>	<b>Difference</b>
2022	1,000,000	1,000,000	0
	<b>1,000,000</b>	<b>1,000,000</b>	<b>0</b>
<b>LTD Amount:</b> 0	<b>Total Project Cost:</b> 1,000,000		

<b>Related Projects</b>		<b>Operating Impacts</b>	

<b>Year Identified</b>	<b>Start Date</b>	<b>Useful Life</b>	<b>Manager</b>	<b>Completion Date</b>
2011	Jan 1, 2022	15 Years	David Jackowski	Dec 31, 2022

<b>Number:</b>	4102WS	<b>Scenario:</b>	Main
<b>Title:</b>	Ellendale Pumping Station Second Feed to Airport	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Strategic Investment (Water and Wastewater)	<b>Strategic Plans:</b>	Growth / Economic Development,...
<b>Division:</b>	Capital - Water	<b>Project Type:</b>	
<b>Budget Year:</b>	2020	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
<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 preliminary and detailed design, agency approvals, contract drawings, specifications, tendering and construction technical assistance.</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 3605RD/WS both address the single feed to the Ellendale Reservoir.</p>

<b>Scenario Description</b>	<b>Scenario Comments</b>

<b>Forecast</b>	<b>Project Detailed 2020</b>																								
<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><b>2,700,000</b></td> <td><b>2,700,000</b></td> <td><b>0</b></td> </tr> <tr> <td colspan="2"><b>LTD Amount:</b> 0</td> <td colspan="2"><b>Total Project Cost:</b> 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		<b>2,700,000</b>	<b>2,700,000</b>	<b>0</b>	<b>LTD Amount:</b> 0		<b>Total Project Cost:</b> 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																						
	<b>2,700,000</b>	<b>2,700,000</b>	<b>0</b>																						
<b>LTD Amount:</b> 0		<b>Total Project Cost:</b> 2,700,000																							

<b>Related Projects</b>	<b>Operating Impacts</b>

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

<b>Number:</b>	4103SS	<b>Scenario:</b>	Main
<b>Title:</b>	Wastewater Treatment Plant Expansion	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (Water and Wastewater)	<b>Strategic Plans:</b>	Infrastructure / Sustainability
<b>Division:</b>	Capital - Sewer	<b>Project Type:</b>	
<b>Budget Year:</b>	2020	<b>Active:</b>	Yes

<b>Description</b>		<b>Comments</b>	
The project provides for engineering and construction of expansion and upgrades to the wastewater treatment facility to handle the increasing wastewater volume.		The project provides for engineering and construction as noted in condition assessment of the Wastewater Treatment Plant completed by Hydromantis Engineering.	

<b>Scenario Description</b>		<b>Scenario Comments</b>	

<b>Forecast</b>		<b>Project Detailed 2020</b>	
<b>Budget Year</b>	<b>Total Expense</b>	<b>Total Revenue</b>	<b>Difference</b>
2028	250,000	250,000	0
2029	9,350,000	9,350,000	0
	<b>9,600,000</b>	<b>9,600,000</b>	<b>0</b>
<b>LTD Amount:</b> 0		<b>Total Project Cost:</b> 9,600,000	

<b>Related Projects</b>		<b>Operating Impacts</b>	

<b>Year Identified</b>	<b>Start Date</b>	<b>Useful Life</b>	<b>Manager</b>	<b>Completion Date</b>
2016	Jan 1, 2028	TBD	Karin Pratte	Dec 31, 2029

<b>Number:</b>	4201PK	<b>Scenario:</b>	Main
<b>Title:</b>	Downtown Parking Facilities	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Strategic Investment (General)	<b>Strategic Plans:</b>	Growth / Economic Development,...
<b>Division:</b>	Capital - Infrastructure & Operations	<b>Project Type:</b>	
<b>Budget Year:</b>	2020	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
The 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>

<b>Scenario Description</b>	<b>Scenario Comments</b>

<b>Forecast</b>	<b>Project Detailed 2020</b>																
<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>2029</td> <td>5,250,000</td> <td>5,250,000</td> <td>0</td> </tr> <tr> <td></td> <td><b>5,250,000</b></td> <td><b>5,250,000</b></td> <td><b>0</b></td> </tr> <tr> <td colspan="2"><b>LTD Amount: 0</b></td> <td colspan="2"><b>Total Project Cost: 5,250,000</b></td> </tr> </tbody> </table>	Budget Year	Total Expense	Total Revenue	Difference	2029	5,250,000	5,250,000	0		<b>5,250,000</b>	<b>5,250,000</b>	<b>0</b>	<b>LTD Amount: 0</b>		<b>Total Project Cost: 5,250,000</b>		
Budget Year	Total Expense	Total Revenue	Difference														
2029	5,250,000	5,250,000	0														
	<b>5,250,000</b>	<b>5,250,000</b>	<b>0</b>														
<b>LTD Amount: 0</b>		<b>Total Project Cost: 5,250,000</b>															

<b>Related Projects</b>	<b>Operating Impacts</b>

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

<b>Number:</b>	4202SS	<b>Scenario:</b>	Main
<b>Title:</b>	Infiltration Reduction/Flow Monitoring Program - Phase 3	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Strategic Investment (Water and Wastewater)	<b>Strategic Plans:</b>	Infrastructure / Sustainability
<b>Division:</b>	Capital - Sewer	<b>Project Type:</b>	
<b>Budget Year:</b>	2020	<b>Active:</b>	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 investigation and conditions inspection, contract drawings, specifications, tendering and construction technical assistance.</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. Further, 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>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 2020																
<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>200,000</td> <td>200,000</td> <td>0</td> </tr> <tr> <td></td> <td><b>200,000</b></td> <td><b>200,000</b></td> <td><b>0</b></td> </tr> <tr> <td><b>LTD Amount:</b> 0</td> <td colspan="3"><b>Total Project Cost:</b> 200,000</td> </tr> </tbody> </table>	Budget Year	Total Expense	Total Revenue	Difference	2021	200,000	200,000	0		<b>200,000</b>	<b>200,000</b>	<b>0</b>	<b>LTD Amount:</b> 0	<b>Total Project Cost:</b> 200,000			
Budget Year	Total Expense	Total Revenue	Difference														
2021	200,000	200,000	0														
	<b>200,000</b>	<b>200,000</b>	<b>0</b>														
<b>LTD Amount:</b> 0	<b>Total Project Cost:</b> 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

<b>Number:</b>	4300RD	<b>Scenario:</b>	Main
<b>Title:</b>	Airport Industrial Park Expansion	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Growth (General)	<b>Strategic Plans:</b>	Growth / Economic Development
<b>Division:</b>	Capital - Infrastructure & Operations	<b>Project Type:</b>	
<b>Budget Year:</b>	2020	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
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.  Engineering services will include preliminary and detailed design, agency approvals, contract drawings, specifications, tendering and construction technical assistance.	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 portion of the airport property. The timing of the project will be contingent on the buildout rate of Phase 1.  Related projects include 4300SS/WS.

<b>Scenario Description</b>	<b>Scenario Comments</b>

<b>Forecast</b>	<b>Project Detailed 2020</b>																				
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Budget Year	Total Expense	Total Revenue	Difference																		
2026	290,000	290,000	0																		
2028	5,800,000	5,800,000	0																		
	<b>6,090,000</b>	<b>6,090,000</b>	<b>0</b>																		
<b>LTD Amount:</b> 0		<b>Total Project Cost:</b> 6,090,000																			

<b>Related Projects</b>	<b>Operating Impacts</b>

Year Identified	Start Date	Useful Life	Manager	Completion Date
2014	Jan 1, 2026	25 Years	Adam Lacombe	Dec 31, 2028

<b>Number:</b>	4300SS	<b>Scenario:</b>	Main
<b>Title:</b>	Airport Industrial Park Expansion	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Growth (Water and Wastewater)	<b>Strategic Plans:</b>	Growth / Economic Development
<b>Division:</b>	Capital - Sewer	<b>Project Type:</b>	
<b>Budget Year:</b>	2020	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
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.  Engineering services will include preliminary and detailed design, agency approvals, contract drawings, specifications, tendering and construction technical assistance.	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 portion of the airport property. The timing of the project will be contingent on the buildout rate of Phase 1.  Related projects include 4300RD/WS.

<b>Scenario Description</b>	<b>Scenario Comments</b>

<b>Forecast</b>	<b>Project Detailed 2020</b>																				
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Budget Year	Total Expense	Total Revenue	Difference																		
2026	155,000	155,000	0																		
2028	3,100,000	3,100,000	0																		
	<b>3,255,000</b>	<b>3,255,000</b>	<b>0</b>																		
<b>LTD Amount:</b> 0		<b>Total Project Cost:</b> 3,255,000																			

<b>Related Projects</b>	<b>Operating Impacts</b>

Year Identified	Start Date	Useful Life	Manager	Completion Date
2014	Jan 1, 2026	75 Years	Adam Lacombe	Dec 31, 2028



<b>Number:</b>	4300WS	<b>Scenario:</b>	Main
<b>Title:</b>	Airport Industrial Park Expansion	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Growth (Water and Wastewater)	<b>Strategic Plans:</b>	Growth / Economic Development
<b>Division:</b>	Capital - Water	<b>Project Type:</b>	
<b>Budget Year:</b>	2020	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
<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 preliminary and detailed design, agency approvals, contract drawings, specifications, tendering and construction technical assistance.</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 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.</p>

<b>Scenario Description</b>	<b>Scenario Comments</b>

<b>Forecast</b>	<b>Project Detailed 2020</b>																				
<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>170,000</td> <td>170,000</td> <td>0</td> </tr> <tr> <td>2028</td> <td>3,400,000</td> <td>3,400,000</td> <td>0</td> </tr> <tr> <td></td> <td><b>3,570,000</b></td> <td><b>3,570,000</b></td> <td><b>0</b></td> </tr> <tr> <td colspan="2"><b>LTD Amount:</b> 0</td> <td colspan="2"><b>Total Project Cost:</b> 3,570,000</td> </tr> </tbody> </table>	Budget Year	Total Expense	Total Revenue	Difference	2026	170,000	170,000	0	2028	3,400,000	3,400,000	0		<b>3,570,000</b>	<b>3,570,000</b>	<b>0</b>	<b>LTD Amount:</b> 0		<b>Total Project Cost:</b> 3,570,000		
Budget Year	Total Expense	Total Revenue	Difference																		
2026	170,000	170,000	0																		
2028	3,400,000	3,400,000	0																		
	<b>3,570,000</b>	<b>3,570,000</b>	<b>0</b>																		
<b>LTD Amount:</b> 0		<b>Total Project Cost:</b> 3,570,000																			

<b>Related Projects</b>	<b>Operating Impacts</b>

Year Identified	Start Date	Useful Life	Manager	Completion Date
2014	Jan 1, 2026	75 Years	Adam Lacombe	Dec 31, 2028

<b>Number:</b>	4401RD	<b>Scenario:</b>	Main
<b>Title:</b>	Sage Rd. Reconstruction to Collector Standard	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Growth (General)	<b>Strategic Plans:</b>	Infrastructure / Sustainability
<b>Division:</b>	Capital - Infrastructure & Operations	<b>Project Type:</b>	
<b>Budget Year:</b>	2020	<b>Active:</b>	Yes

<b>Description</b>		<b>Comments</b>	
<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 4401ST/WS.</p>	
<b>Scenario Description</b>		<b>Scenario Comments</b>	
<b>Forecast</b>		<b>Project Detailed 2020</b>	
<b>Budget Year</b>	<b>Total Expense</b>	<b>Total Revenue</b>	<b>Difference</b>
2025	175,000	175,000	0
2027	3,500,000	3,500,000	0
	<b>3,675,000</b>	<b>3,675,000</b>	<b>0</b>
<b>LTD Amount:</b> 0		<b>Total Project Cost:</b> 3,675,000	
<b>Related Projects</b>		<b>Operating Impacts</b>	
<b>Year Identified</b>	<b>Start Date</b>	<b>Useful Life</b>	<b>Manager</b>
2014	Jan 1, 2025	25 Years	Adam Lacombe
			<b>Completion Date</b>
			Dec 31, 2028

<b>Number:</b>	4401ST	<b>Scenario:</b>	Main
<b>Title:</b>	Sage Rd. Reconstruction to Collector Standard	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Growth (General)	<b>Strategic Plans:</b>	Infrastructure / Sustainability
<b>Division:</b>	Capital - Infrastructure & Operations	<b>Project Type:</b>	
<b>Budget Year:</b>	2020	<b>Active:</b>	Yes

<b>Description</b>		<b>Comments</b>	
<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/WS.</p>	
<b>Scenario Description</b>		<b>Scenario Comments</b>	
<b>Forecast</b>		<b>Project Detailed 2020</b>	
<b>Budget Year</b>	<b>Total Expense</b>	<b>Total Revenue</b>	<b>Difference</b>
2025	65,000	65,000	0
2027	1,300,000	1,300,000	0
	<b>1,365,000</b>	<b>1,365,000</b>	<b>0</b>
<b>LTD Amount:</b> 0		<b>Total Project Cost:</b> 1,365,000	
<b>Related Projects</b>		<b>Operating Impacts</b>	
<b>Year Identified</b>	<b>Start Date</b>	<b>Useful Life</b>	<b>Manager</b>
2014	Jan 1, 2025	75 Years	Adam Lacombe
			<b>Completion Date</b>
			Dec 31, 2028

<b>Number:</b>	4401WS	<b>Scenario:</b>	Main
<b>Title:</b>	Sage Rd. Reconstruction to Collector Standard	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Growth (Water and Wastewater)	<b>Strategic Plans:</b>	Infrastructure / Sustainability
<b>Division:</b>	Capital - Water	<b>Project Type:</b>	
<b>Budget Year:</b>	2020	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
<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.</p>

<b>Scenario Description</b>	<b>Scenario Comments</b>

<b>Forecast</b>	<b>Project Detailed 2020</b>																				
<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>45,000</td> <td>45,000</td> <td>0</td> </tr> <tr> <td>2027</td> <td>900,000</td> <td>900,000</td> <td>0</td> </tr> <tr> <td></td> <td><b>945,000</b></td> <td><b>945,000</b></td> <td><b>0</b></td> </tr> <tr> <td colspan="2"><b>LTD Amount: 0</b></td> <td colspan="2"><b>Total Project Cost: 945,000</b></td> </tr> </tbody> </table>	Budget Year	Total Expense	Total Revenue	Difference	2025	45,000	45,000	0	2027	900,000	900,000	0		<b>945,000</b>	<b>945,000</b>	<b>0</b>	<b>LTD Amount: 0</b>		<b>Total Project Cost: 945,000</b>		
Budget Year	Total Expense	Total Revenue	Difference																		
2025	45,000	45,000	0																		
2027	900,000	900,000	0																		
	<b>945,000</b>	<b>945,000</b>	<b>0</b>																		
<b>LTD Amount: 0</b>		<b>Total Project Cost: 945,000</b>																			

<b>Related Projects</b>	<b>Operating Impacts</b>

Year Identified	Start Date	Useful Life	Manager	Completion Date
2014	Jan 1, 2025	75 Years	Adam Lacombe	Dec 31, 2028

<b>Number:</b>	4402SS	<b>Scenario:</b>	Main
<b>Title:</b>	Chippewa Trunk Sewer Major Rehabilitation & Replacement	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (Water and Wastewater)	<b>Strategic Plans:</b>	Infrastructure / Sustainability
<b>Division:</b>	Capital - Sewer	<b>Project Type:</b>	
<b>Budget Year:</b>	2020	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
<p>The program 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>

<b>Scenario Description</b>	<b>Scenario Comments</b>

<b>Forecast</b>	<b>Project Detailed 2020</b>																				
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<b>LTD Amount: 0</b>		<b>Total Project Cost: 2,700,000</b>																			

<b>Related Projects</b>	<b>Operating Impacts</b>

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

<b>Number:</b>	4500RD	<b>Scenario:</b>	Main
<b>Title:</b>	Franklin & John Trunk Watermain	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Strategic Investment (General)	<b>Strategic Plans:</b>	Infrastructure / Sustainability
<b>Division:</b>	Capital - Infrastructure & Operations	<b>Project Type:</b>	
<b>Budget Year:</b>	2020	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
<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 preliminary and detailed design, agency approvals, contract drawings, specifications, tendering and construction technical assistance.</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/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/WS and 3700RD/ST/WS/SS.</p>

<b>Scenario Description</b>	<b>Scenario Comments</b>

<b>Forecast</b>	<b>Project Detailed 2020</b>																				
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<b>Related Projects</b>	<b>Operating Impacts</b>

Year Identified	Start Date	Useful Life	Manager	Completion Date
2016	Jan 1, 2026	25 Years	Adam Lacombe	Dec 31, 2028

<b>Number:</b>	4500ST	<b>Scenario:</b>	Main
<b>Title:</b>	Franklin & John Trunk Watermain	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Strategic Investment (General)	<b>Strategic Plans:</b>	Infrastructure / Sustainability
<b>Division:</b>	Capital - Infrastructure & Operations	<b>Project Type:</b>	
<b>Budget Year:</b>	2020	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
<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 preliminary and detailed design, agency approvals, contract drawings, specifications, tendering and construction technical assistance.</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/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 and 3700RD/ST/WS/SS.</p>

<b>Scenario Description</b>	<b>Scenario Comments</b>

<b>Forecast</b>	<b>Project Detailed 2020</b>																				
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Budget Year	Total Expense	Total Revenue	Difference																		
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<b>Related Projects</b>	<b>Operating Impacts</b>

Year Identified	Start Date	Useful Life	Manager	Completion Date
2016	Jan 1, 2026	75 Years	Adam Lacombe	Dec 31, 2028

<b>Number:</b>	4500WS	<b>Scenario:</b>	Main
<b>Title:</b>	Franklin & John Trunk Watermain	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Strategic Investment (Water and Wastewater)	<b>Strategic Plans:</b>	Infrastructure / Sustainability
<b>Division:</b>	Capital - Water	<b>Project Type:</b>	
<b>Budget Year:</b>	2020	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
<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 preliminary and detailed design, agency approvals, contract drawings, specifications, tendering and construction technical assistance.</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/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 and 3700RD/ST/WS/SS.</p>

<b>Scenario Description</b>	<b>Scenario Comments</b>

<b>Forecast</b>	<b>Project Detailed 2020</b>																				
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<b>Related Projects</b>	<b>Operating Impacts</b>

Year Identified	Start Date	Useful Life	Manager	Completion Date
2016	Jan 1, 2026	75 Years	Adam Lacombe	Dec 31, 2028



<b>Number:</b>	6483AA	<b>Scenario:</b>	Main
<b>Title:</b>	Cassellholme Redevelopment	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Strategic Investment (General)	<b>Strategic Plans:</b>	Infrastructure / Sustainability
<b>Division:</b>	Capital - Service Partners	<b>Project Type:</b>	
<b>Budget Year:</b>	2020	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
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.

<b>Scenario Description</b>	<b>Scenario Comments</b>

<b>Forecast</b>	<b>Project Detailed 2020</b>																																																																									
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<b>Related Projects</b>	<b>Operating Impacts</b>

Year Identified	Start Date	Useful Life	Manager	Completion Date
2019	Jan 1, 2020	NA	Margaret Karpenko	

<b>Number:</b>	6484RD	<b>Scenario:</b>	Main
<b>Title:</b>	City Share of Development Costs 2020 On-going	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Growth (General)	<b>Strategic Plans:</b>	Growth / Economic Development
<b>Division:</b>	Capital - Infrastructure & Operations	<b>Project Type:</b>	
<b>Budget Year:</b>	2020	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
<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>While there are no revenues associated with these works, they generally provide taxation revenue and growth for future return on investment.</p> <p>Related project includes 6484SS/WS.</p>

<b>Scenario Description</b>	<b>Scenario Comments</b>

<b>Forecast</b>	<b>Project Detailed 2020</b>																																																																												
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<b>Year Identified</b>	<b>Start Date</b>	<b>Useful Life</b>	<b>Manager</b>	<b>Completion Date</b>
2020	Jan 1, 2020	TBD	Adam Lacombe	Dec 31, 2020

<b>Number:</b>	6484WS	<b>Scenario:</b>	Main
<b>Title:</b>	City Share of Development Costs 2020 On-going	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Growth (Water and Wastewater)	<b>Strategic Plans:</b>	Growth / Economic Development
<b>Division:</b>	Capital - Water	<b>Project Type:</b>	
<b>Budget Year:</b>	2020	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
<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>While there are no revenues associated with these works, they generally provide taxation revenue and growth for future return on investment.</p> <p>Related project includes 6484RD/SS.</p>

<b>Scenario Description</b>	<b>Scenario Comments</b>

<b>Forecast</b>	<b>Project Detailed 2020</b>																																																
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2020	Jan 1, 2020	TBD	Adam Lacombe	Dec 31, 2020

<b>Number:</b>	6485RD	<b>Scenario:</b>	Main
<b>Title:</b>	Asphalt Resurfacing 2020 On-going	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (General)	<b>Strategic Plans:</b>	Infrastructure / Sustainability
<b>Division:</b>	Capital - Infrastructure & Operations	<b>Project Type:</b>	
<b>Budget Year:</b>	2020	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
<p>The program involves the construction services for the annual resurfacing program. Engineering services will include detailed design, agency approvals, contract drawings, specifications, tendering and construction technical assistance.</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>

<b>Scenario Description</b>	<b>Scenario Comments</b>

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<b>Related Projects</b>	<b>Operating Impacts</b>

<b>Year Identified</b>	<b>Start Date</b>	<b>Useful Life</b>	<b>Manager</b>	<b>Completion Date</b>
2020	Jan 1, 2020	10 Years	Reid Porter	Dec 31, 2020

<b>Number:</b>	6486RD	<b>Scenario:</b>	Main
<b>Title:</b>	Asphalt Sheeting 2020 On-going	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (General)	<b>Strategic Plans:</b>	Infrastructure / Sustainability, Maintenance
<b>Division:</b>	Capital - Infrastructure & Operations	<b>Project Type:</b>	
<b>Budget Year:</b>	2020	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
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.

<b>Scenario Description</b>	<b>Scenario Comments</b>

<b>Forecast</b>	<b>Project Detailed 2020</b>																																																																												
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<b>Related Projects</b>	<b>Operating Impacts</b>

Year Identified	Start Date	Useful Life	Manager	Completion Date
2020	Jan 1, 2020	10 Years	Domenic Schiavone	Dec 31, 2020

<b>Number:</b>	6487WS	<b>Scenario:</b>	Main
<b>Title:</b>	Watermain Rehab and Restoration 2020 On-going	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (Water and Wastewater)	<b>Strategic Plans:</b>	Infrastructure / Sustainability
<b>Division:</b>	Capital - Water	<b>Project Type:</b>	
<b>Budget Year:</b>	2020	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
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 2020 program will include restoration work to support water on-going projects.

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<b>Forecast</b>	<b>Project Detailed 2020</b>																																																																												
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2020	Jan 1, 2020	50 Years	Domenic Schiavone	Dec 31, 2020

<b>Number:</b>	6488RD	<b>Scenario:</b>	Main
<b>Title:</b>	Pedestrian Safety Program 2020 On-going	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (General)	<b>Strategic Plans:</b>	Growth / Economic Development,...
<b>Division:</b>	Capital - Infrastructure & Operations	<b>Project Type:</b>	
<b>Budget Year:</b>	2020	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
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 2020 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 6533ST.</p>

<b>Scenario Description</b>	<b>Scenario Comments</b>

<b>Forecast</b>	<b>Project Detailed 2020</b>																																																																											
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<b>Related Projects</b>	<b>Operating Impacts</b>

Year Identified	Start Date	Useful Life	Manager	Completion Date
2020	Jan 1, 2020	50 Years	Domenic Schiavone	Dec 31, 2020

<b>Number:</b>	6489RD	<b>Scenario:</b>	Main
<b>Title:</b>	Road Culvert Replace/Rehab 2020 On-going	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (General)	<b>Strategic Plans:</b>	Infrastructure / Sustainability, Maintenance
<b>Division:</b>	Capital - Infrastructure & Operations	<b>Project Type:</b>	
<b>Budget Year:</b>	2020	<b>Active:</b>	Yes

<b>Description</b>		<b>Comments</b>	
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.	

<b>Scenario Description</b>		<b>Scenario Comments</b>	

<b>Forecast</b>		<b>Project Detailed 2020</b>	
<b>Budget Year</b>	<b>Total Expense</b>	<b>Total Revenue</b>	<b>Difference</b>
2021	209,000	209,000	0
2022	215,000	215,000	0
2023	221,000	221,000	0
2024	221,000	221,000	0
2025	221,000	221,000	0
2026	221,000	221,000	0
2027	221,000	221,000	0
2028	228,000	228,000	0
2029	230,000	230,000	0
	<b>1,987,000</b>	<b>1,987,000</b>	<b>0</b>
<b>LTD Amount:</b> 0		<b>Total Project Cost:</b> 1,987,000	

<b>Related Projects</b>		<b>Operating Impacts</b>	

<b>Year Identified</b>	<b>Start Date</b>	<b>Useful Life</b>	<b>Manager</b>	<b>Completion Date</b>
2020	Jan 1, 2020	25 Years	Domenic Schiavone	Dec 31, 2020



<b>Number:</b>	6490RD	<b>Scenario:</b>	Main
<b>Title:</b>	Rural Road Rehab 2020 On-going	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (General)	<b>Strategic Plans:</b>	Infrastructure / Sustainability, Maintenance
<b>Division:</b>	Capital - Infrastructure & Operations	<b>Project Type:</b>	
<b>Budget Year:</b>	2020	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
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.

<b>Scenario Description</b>	<b>Scenario Comments</b>

<b>Forecast</b>	<b>Project Detailed 2020</b>																																																																												
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<b>Related Projects</b>	<b>Operating Impacts</b>

Year Identified	Start Date	Useful Life	Manager	Completion Date
2020	Jan 1, 2020	25 Years	Domenic Schiavone	Dec 31, 2020

<b>Number:</b>	6491SL	<b>Scenario:</b>	Main
<b>Title:</b>	Traffic Control Signal Upgrade 2020 On-going	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (General)	<b>Strategic Plans:</b>	Infrastructure / Sustainability, Technology
<b>Division:</b>	Capital - Infrastructure & Operations	<b>Project Type:</b>	
<b>Budget Year:</b>	2020	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
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 2020 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.

<b>Scenario Description</b>	<b>Scenario Comments</b>

<b>Forecast</b>	<b>Project Detailed 2020</b>																																																																															
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<b>Related Projects</b>	<b>Operating Impacts</b>

Year Identified	Start Date	Useful Life	Manager	Completion Date
2020	Jan 1, 2020	25 Years	Domenic Schiavone	Dec 31, 2020

<b>Number:</b>	6492RD	<b>Scenario:</b>	Main
<b>Title:</b>	Sidewalk Replacement Program 2020 On-going	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (General)	<b>Strategic Plans:</b>	Infrastructure / Sustainability, Maintenance
<b>Division:</b>	Capital - Infrastructure & Operations	<b>Project Type:</b>	
<b>Budget Year:</b>	2020	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
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 2020.

<b>Scenario Description</b>	<b>Scenario Comments</b>

<b>Forecast</b>	<b>Project Detailed 2020</b>																																																																															
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<b>Related Projects</b>	<b>Operating Impacts</b>

Year Identified	Start Date	Useful Life	Manager	Completion Date
2020	Jan 1, 2020	25 Years	Domenic Schiavone	Dec 31, 2020



<b>Number:</b>	6494RD	<b>Scenario:</b>	Main
<b>Title:</b>	Downtown Roads Maintenance 2020 On-going	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (General)	<b>Strategic Plans:</b>	Maintenance
<b>Division:</b>	Capital - Infrastructure & Operations	<b>Project Type:</b>	
<b>Budget Year:</b>	2020	<b>Active:</b>	Yes

<b>Description</b>		<b>Comments</b>	
The project provides for an on-going program of downtown roads maintenance and upgrades.		The 2020 program will include the continuing upgrades to roads, line painting, traffic signals, and sidewalks in the downtown core.	

<b>Scenario Description</b>		<b>Scenario Comments</b>	
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<b>Forecast</b>				<b>Project Detailed 2020</b>		
<b>Budget Year</b>	<b>Total Expense</b>	<b>Total Revenue</b>	<b>Difference</b>	<b>GL Account</b>	<b>Description</b>	<b>Total Amount</b>
2020	100,000	100,000	0	<b>Expense</b>		
2021	103,000	103,000	0	3425	CONSTRUCTION CONTRACT	96,618
2022	106,000	106,000	0	7010	ADMINISTRATON & OVERHEAD	3,382
2023	109,000	109,000	0		<b>Total Expense:</b>	<b>100,000</b>
2024	112,000	112,000	0	<b>Revenue</b>		
2025	115,000	115,000	0	0461	TSF FRM REV FUND-PAYGO	100,000
2026	118,000	118,000	0		<b>Total Revenue:</b>	<b>100,000</b>
2027	122,000	122,000	0			
2028	126,000	126,000	0			
2029	130,000	130,000	0			
	<b>1,141,000</b>	<b>1,141,000</b>	<b>0</b>			
<b>LTD Amount:</b> 0		<b>Total Project Cost:</b> 1,141,000				

<b>Related Projects</b>			<b>Operating Impacts</b>	
<b>Year Identified</b>	<b>Start Date</b>	<b>Useful Life</b>	<b>Manager</b>	<b>Completion Date</b>
2020	Jan 1, 2020	25 Years	Domenic Schiavone	Dec 31, 2020

<b>Number:</b>	6495PK	<b>Scenario:</b>	Main
<b>Title:</b>	Parking Equipment Program 2020 On-going	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (General)	<b>Strategic Plans:</b>	Equipment Replacement
<b>Division:</b>	Capital - Infrastructure & Operations	<b>Project Type:</b>	
<b>Budget Year:</b>	2020	<b>Active:</b>	Yes

<b>Description</b>		<b>Comments</b>	
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.	

<b>Scenario Description</b>		<b>Scenario Comments</b>	
		The following details support the Capital Forecast for 2021 to 2029: 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	

<b>Forecast</b>		<b>Project Detailed 2020</b>	
<b>Budget Year</b>	<b>Total Expense</b>	<b>Total Revenue</b>	<b>Difference</b>
2022	125,000	125,000	0
2025	125,000	125,000	0
2028	125,000	125,000	0
	<b>375,000</b>	<b>375,000</b>	<b>0</b>
<b>LTD Amount:</b> 0		<b>Total Project Cost:</b> 375,000	

<b>Related Projects</b>		<b>Operating Impacts</b>	

<b>Year Identified</b>	<b>Start Date</b>	<b>Useful Life</b>	<b>Manager</b>	<b>Completion Date</b>
2020	Jan 1, 2020	5 to 15 Years	David Jackowski	Dec 31, 2020

<b>Number:</b>	6496RF	<b>Scenario:</b>	Main
<b>Title:</b>	Pete Palangio Rehab Program 2020 On-going	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (General)	<b>Strategic Plans:</b>	Infrastructure / Sustainability, Maintenance
<b>Division:</b>	Capital - Community Services	<b>Project Type:</b>	
<b>Budget Year:</b>	2020	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
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 2020, the project will include PP heated viewing area and lobby enhancements.

<b>Scenario Description</b>	<b>Scenario Comments</b>
	The following details support the Capital Forecast for 2021 to 2029: 2021 Ice plant chiller and super heater // Structural integrity report 2022 Electrical system rejuvenation 2023 Board replacement 2024 Base building renovations (office areas) 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

<b>Forecast</b>	<b>Project Detailed 2020</b>																																																																												
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2020	Jan 1, 2020	TBD	David Jackowski	Dec 31, 2020

<b>Number:</b>	6497MR	<b>Scenario:</b>	Main
<b>Title:</b>	King's Landing and Marina Rehab Program 2020 On-going	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (General)	<b>Strategic Plans:</b>	Infrastructure / Sustainability
<b>Division:</b>	Capital - Infrastructure & Operations	<b>Project Type:</b>	
<b>Budget Year:</b>	2020	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
The program provides for the rehabilitation of King's Landing and the Marina's buildings and appurtenances.	In 2020, the project will fund breakwall/lighting repairs and entrance gate renewal.  The budget forecasts currently exclude repair and maintenance costs related to King's Landing required budget dollars are in project 3518PR.

<b>Scenario Description</b>	<b>Scenario Comments</b>
	The following details support the Capital Forecast for 2020 to 2029: 2020 Break wall/Lighting repairs// Entrance gate renewal 2021 Chief slip dredging // Boat slip repairs 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 General rehab

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2020	Jan 1, 2020	TBD	David Jackowski	Dec 31, 2020



<b>Number:</b>	6498PR	<b>Scenario:</b>	Main
<b>Title:</b>	Parks Building Rehab Program 2020 On-going	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (General)	<b>Strategic Plans:</b>	Infrastructure / Sustainability, Maintenance
<b>Division:</b>	Capital - Community Services	<b>Project Type:</b>	
<b>Budget Year:</b>	2020	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
The program provides for the rehabilitation of City's park buildings. It also includes considerations for accessibility and energy efficiencies.	In 2020 this project will fund general rehabilitation of various park buildings.

<b>Scenario Description</b>	<b>Scenario Comments</b>
	The following details support the Capital Forecast for 2021 to 2029: 2022 general rehab // building construction // 2023 building design 2023 general rehab // building construction // 2024 building design 2024 general rehab // building construction // 2025 building design 2025 to 2029 general rehab //building construction // building design for next year

<b>Forecast</b>	<b>Project Detailed 2020</b>																																																																								
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<b>Related Projects</b>	<b>Operating Impacts</b>			
<b>Year Identified</b>	<b>Start Date</b>	<b>Useful Life</b>	<b>Manager</b>	<b>Completion Date</b>
2020	Jan 1, 2020	TBD	David Jackowski	Dec 31, 2020

<b>Number:</b>	6499RF	<b>Scenario:</b>	Main
<b>Title:</b>	Recreation Facilities Rehab and Development 2020 On-going	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (General)	<b>Strategic Plans:</b>	Infrastructure / Sustainability, Maintenance
<b>Division:</b>	Capital - Community Services	<b>Project Type:</b>	
<b>Budget Year:</b>	2020	<b>Active:</b>	Yes

<b>Description</b>				<b>Comments</b>		
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.				The plan is to move recreation facility development from this ongoing program and establish separate recreation facilities development capital projects for distinct recreation facilities. Future years recreation facilities development capital projects will be determined using the City's Official Plan and the pending Parks Master Plan.  In 2020 this program includes the Lennox ball field renovation, the installation of a disc golf course and turf, infield, irrigation, fencing and general rehabilitation.		
<b>Scenario Description</b>				<b>Scenario Comments</b>		
				The following details support the Capital Forecast for 2021 to 2029: 2021 general rehabilitation 2022 general rehabilitation // 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 2025-2029 field lighting replacements // field renos // turf rehab program // infield renovation program // fencing // general rehab		
<b>Forecast</b>				<b>Project Detailed 2020</b>		
<b>Budget Year</b>	<b>Total Expense</b>	<b>Total Revenue</b>	<b>Difference</b>	<b>GL Account</b>	<b>Description</b>	<b>Total Amount</b>
2020	200,000	200,000	0	<b>Expense</b>		
2021	250,000	250,000	0	3430	MAINTENANCE CONTRACT	193,237
2022	325,000	325,000	0	7010	ADMINISTRATON & OVERHEAD	6,763
2023	750,000	750,000	0		<b>Total Expense:</b>	<b>200,000</b>
2024	750,000	750,000	0			
2025	750,000	750,000	0	<b>Revenue</b>		
2026	750,000	750,000	0	0461	TSF FRM REV FUND-PAYGO	200,000
2027	750,000	750,000	0		<b>Total Revenue:</b>	<b>200,000</b>
2028	750,000	750,000	0			
2029	750,000	750,000	0			
	<b>6,025,000</b>	<b>6,025,000</b>	<b>0</b>			
<b>LTD Amount:</b> 0				<b>Total Project Cost:</b> 6,025,000		
<b>Related Projects</b>				<b>Operating Impacts</b>		
<b>Year Identified</b>	<b>Start Date</b>	<b>Useful Life</b>	<b>Manager</b>		<b>Completion Date</b>	
2020	Jan 1, 2020	TBD	David Schroeder		Dec 31, 2020	

<b>Number:</b>	6500RF	<b>Scenario:</b>	Main
<b>Title:</b>	Omischl Sports Complex Rehab Program 2020 On-going	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (General)	<b>Strategic Plans:</b>	Infrastructure / Sustainability, Maintenance
<b>Division:</b>	Capital - Community Services	<b>Project Type:</b>	
<b>Budget Year:</b>	2020	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
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 2020 this ongoing project will fund fencing, landscaping, irrigation and general rehabilitation.

<b>Scenario Description</b>	<b>Scenario Comments</b>
	The following details support the Capital Forecast for 2021 to 2029: 2021 turf, infield, fencing, landscaping, irrigation rehab // general rehabilitation 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 2029 turf, infield, fencing, landscaping, irrigation rehab // general rehab

<b>Forecast</b>	<b>Project Detailed 2020</b>																																																																												
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<b>Related Projects</b>	<b>Operating Impacts</b>

Year Identified	Start Date	Useful Life	Manager	Completion Date
2020	Jan 1, 2020	20 Years	David Schroeder	Dec 31, 2020

<b>Number:</b>	6501PR	<b>Scenario:</b>	Main
<b>Title:</b>	Parks and Playground Rehab Program 2020 On-going	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (General)	<b>Strategic Plans:</b>	Infrastructure / Sustainability, Maintenance
<b>Division:</b>	Capital - Community Services	<b>Project Type:</b>	
<b>Budget Year:</b>	2020	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
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 2020 the ongoing rehab program includes park rehabilitation, tree planting and general rehabilitation.

<b>Scenario Description</b>	<b>Scenario Comments</b>
	The following details support the Capital Forecast for 2021 to 2029: 2021 park rehab // tree planting // general rehab // Kenwood Hills playground replacement 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

<b>Forecast</b>	<b>Project Detailed 2020</b>																																																																												
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<b>Related Projects</b>	<b>Operating Impacts</b>

Year Identified	Start Date	Useful Life	Manager	Completion Date
2020	Jan 1, 2020	TBD	David Schroeder	Dec 31, 2020

<b>Number:</b>	6502PR	<b>Scenario:</b>	Main
<b>Title:</b>	Waterfront Rehab Program 2020 On-going	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (General)	<b>Strategic Plans:</b>	Infrastructure / Sustainability, Maintenance
<b>Division:</b>	Capital - Community Services	<b>Project Type:</b>	
<b>Budget Year:</b>	2020	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
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 2020 the ongoing program includes Amelia beach erosion control, various shrub bed rehab, tree planting, interlock installation around the volleyball courts, furnishings and general rehabilitation.

<b>Scenario Description</b>	<b>Scenario Comments</b>
	The following details support the Capital Forecast for 2021 to 2029: 2021 Golden Mile beach rehab // shrub bed rehab // tree planting // south sidewalk phase 3 // furnishings // general rehab 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 2025-2029 park rehab // hard surface rehab // furnishings // general rehab

<b>Forecast</b>	<b>Project Detailed 2020</b>																																																																												
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<b>Year Identified</b>	<b>Start Date</b>	<b>Useful Life</b>	<b>Manager</b>	<b>Completion Date</b>
2020	Jan 1, 2020	TBD	David Schroeder	Dec 31, 2020

<b>Number:</b>	6503PR	<b>Scenario:</b>	Main
<b>Title:</b>	Central City Rehab Program 2020 On-going	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (General)	<b>Strategic Plans:</b>	Maintenance
<b>Division:</b>	Capital - Community Services	<b>Project Type:</b>	
<b>Budget Year:</b>	2020	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
The program provides for the rehabilitation of the following central city park locations: downtown sidewalk repair, the Civic Plaza, Ferguson block parkette, Memorial Park Cenotaph/Algonquin Regiment Cenotaph/Algonquin median planters, fountain parkette, Oak Street planters and parking lot planters.	In 2020 the ongoing program includes CWF Park turf rehabilitation, tree planting and irrigation system upgrade, sidewalk repairs, furnishings and general rehabilitation.

<b>Scenario Description</b>	<b>Scenario Comments</b>
	The following details support the Capital Forecast for 2021 to 2029: 2021 Cenotaph planter rehab // sidewalk repairs // furnishings // general rehab 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 2029 park rehab // sidewalk repairs // furnishings // general rehabilitation

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<b>Related Projects</b>	<b>Operating Impacts</b>

<b>Year Identified</b>	<b>Start Date</b>	<b>Useful Life</b>	<b>Manager</b>	<b>Completion Date</b>
2020	Jan 1, 2020	TBD	David Schroeder	Dec 31, 2020

<b>Number:</b>	6504PR	<b>Scenario:</b>	Main
<b>Title:</b>	City Hall Grounds Rehab Program 2020 On-going	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (General)	<b>Strategic Plans:</b>	Maintenance
<b>Division:</b>	Capital - Infrastructure & Operations	<b>Project Type:</b>	
<b>Budget Year:</b>	2020	<b>Active:</b>	Yes

<b>Description</b>		<b>Comments</b>	
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 City Hall retaining wall and hard surface rehabilitation and general rehabilitation.	

<b>Scenario Description</b>		<b>Scenario Comments</b>	
		The following details support the Capital Forecast for 2021 to 2029: 2021 Interlock replacement // landscaping // furnishings // general rehab 2022 Lower parking lot repair // landscaping // furnishings // general rehab 2024 to 2029 hard surface rehabilitation // landscaping // furnishings // general rehab	

<b>Forecast</b>		<b>Project Detailed 2020</b>	
<b>Budget Year</b>	<b>Total Expense</b>	<b>Total Revenue</b>	<b>Difference</b>
2021	228,000	228,000	0
2022	162,000	162,000	0
2024	170,000	170,000	0
2026	178,000	178,000	0
2028	186,000	186,000	0
2029	96,000	96,000	0
	<b>1,020,000</b>	<b>1,020,000</b>	<b>0</b>
<b>LTD Amount:</b> 0		<b>Total Project Cost:</b> 1,020,000	

<b>Related Projects</b>		<b>Operating Impacts</b>	

<b>Year Identified</b>	<b>Start Date</b>	<b>Useful Life</b>	<b>Manager</b>	<b>Completion Date</b>
2020	Jan 1, 2020	TBD	David Jackowski	Dec 31, 2020

<b>Number:</b>	6505PR	<b>Scenario:</b>	Main
<b>Title:</b>	Trail and Supporting Hard Surfaces Rehab 2020 On-going	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (General)	<b>Strategic Plans:</b>	Maintenance
<b>Division:</b>	Capital - Community Services	<b>Project Type:</b>	
<b>Budget Year:</b>	2020	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
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 2020 the ongoing program includes Kate Paceway resurfacing, Lee Park service road and pathway resurfacing, Thomson Park entrance on Olive Street rehabilitation, Champlain Park monument restoration, outdoor hockey rink development and general rehabilitation.

<b>Scenario Description</b>	<b>Scenario Comments</b>
	The following details support the Capital Forecast for 2021 to 2029: 2021 Kate Paceway rehab//hard surface rehab//guide rail replacement//North Bay Arch restoration//general rehab 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 2029 Kate Paceway rehab//pathways//parking lots//service roads//general rehab

<b>Forecast</b>	<b>Project Detailed 2020</b>																																																																												
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2020	Jan 1, 2020	TBD	David Schroeder	Dec 31, 2020



<b>Number:</b>	6506PR	<b>Scenario:</b>	Main
<b>Title:</b>	Parks Equipment Replacement Program 2020 On-going	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (General)	<b>Strategic Plans:</b>	Equipment Replacement
<b>Division:</b>	Capital - Community Services	<b>Project Type:</b>	
<b>Budget Year:</b>	2020	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
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 2020 this ongoing program includes the purchase of a dethatcher tractor attachment and other small equipment.

<b>Scenario Description</b>	<b>Scenario Comments</b>
	The following details support the Capital Forecast for 2021 to 2029: 2021 leveller for tractor // small equipment 2022 rototiller for tractor // small equipment 2023 sweeper for tractor // small equipment 2024 to 2029 equipment purchases based on parks equipment replacement schedule with input from Fleet Management

<b>Forecast</b>	<b>Project Detailed 2020</b>																																																																												
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2020	Jan 1, 2020	TBD	David Schroeder	Dec 31, 2020

<b>Number:</b>	6507RF	<b>Scenario:</b>	Main
<b>Title:</b>	Aquatic Centre Rehab Program 2020 On-going	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (General)	<b>Strategic Plans:</b>	Infrastructure / Sustainability, Maintenance
<b>Division:</b>	Capital - Infrastructure & Operations	<b>Project Type:</b>	
<b>Budget Year:</b>	2020	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
The program provides for the rehabilitation and enhancements of North Bay's Aquatic Centre as per the Lifecycle Plan.	In 2020, the budget includes general rehabilitation to the Aquatic Centre.

<b>Scenario Description</b>	<b>Scenario Comments</b>
	<p>The following details support the Capital Forecast for 2021 to 2029:</p> <p>2021 includes the replacement of the fans, actuators, pumps and the completion of a structural integrity report</p> <p>2022 includes the replacement of tiles in the lobby and change rooms and general rehabilitation</p> <p>2023 includes the replacement of tiles in the pool and on the pool decking, painting and general rehabilitation</p> <p>2024 includes the replacement of the sand filters, actuators, pumps and general rehabilitation</p> <p>2025 includes the painting of the lobby, mechanical replacement and general rehabilitation</p> <p>2026 includes mechanical replacement and general rehabilitation</p> <p>2027 includes HRC #1 replacement and general rehabilitation</p> <p>2028 includes HRC #2 replacement and general rehabilitation</p> <p>2029 includes general rehabilitation to the Aquatic Centre</p>

<b>Forecast</b>	<b>Project Detailed 2020</b>																																																																												
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<b>Related Projects</b>	<b>Operating Impacts</b>			
<b>Year Identified</b>	<b>Start Date</b>	<b>Useful Life</b>	<b>Manager</b>	<b>Completion Date</b>
2020	Jan 1, 2020	10 to 30 Years	David Jackowski	Dec 31, 2020

<b>Number:</b>	6508PK	<b>Scenario:</b>	Main
<b>Title:</b>	Parking Lot Maintenance and Improvement Program 2020 On-going	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (General)	<b>Strategic Plans:</b>	Infrastructure / Sustainability, Maintenance
<b>Division:</b>	Capital - Infrastructure & Operations	<b>Project Type:</b>	
<b>Budget Year:</b>	2020	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
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.

<b>Scenario Description</b>	<b>Scenario Comments</b>

<b>Forecast</b>	<b>Project Detailed 2020</b>																																																																								
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<b>Related Projects</b>	<b>Operating Impacts</b>			
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2020	Jan 1, 2020	TBD	Bruce Roberston	Dec 31, 2020

<b>Number:</b>	6509TR	<b>Scenario:</b>	Main
<b>Title:</b>	Transit Buildings Capital Program 2020 On-going	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (General)	<b>Strategic Plans:</b>	Infrastructure / Sustainability, Maintenance
<b>Division:</b>	Capital - Infrastructure & Operations	<b>Project Type:</b>	
<b>Budget Year:</b>	2020	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
This project is for the required annual upgrades and repairs to Transit Terminal, Bus Shelters/Canopies, Bus Barn and Bus Wash Facilities.	In 2020, the project includes repairs to the Transit Terminal, Bus Bash, Bus Barn and Bus Shelters/Canopies.

<b>Scenario Description</b>	<b>Scenario Comments</b>

<b>Forecast</b>	<b>Project Detailed 2020</b>																																																																												
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2020	Jan 1, 2020	TBD	Drew Poeta	Dec 31, 2020

<b>Number:</b>	6510GG	<b>Scenario:</b>	Main
<b>Title:</b>	City Hall Building Rehab 2020 On-going	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (General)	<b>Strategic Plans:</b>	Infrastructure / Sustainability, Maintenance
<b>Division:</b>	Capital - Infrastructure & Operations	<b>Project Type:</b>	
<b>Budget Year:</b>	2020	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
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 reconfigurations.  In 2020, the program includes the 6th floor HVAC Building Automation System, window replacement, flooring, and general rehabilitation.

<b>Scenario Description</b>	<b>Scenario Comments</b>
	The following details support the Capital Forecast for 2021 to 2029: 2021 includes main power transfer switch // flooring // general rehabilitation 2022 includes second floor washrooms // DHW supply system // plumbing riser // general rehabilitation 2023 includes electrical upgrades // general load bank // windows // general rehabilitation 2024 includes eyewash station upgrades for basement & penthouse // general rehabilitation 2025 includes upgrade baseboard controls // heat exchanger penthouse // pod BAS // general rehabilitation 2026 includes eco flush toilets // wayfinding // flooring // general rehabilitation 2027 includes flooring rehabilitation // emergency lighting // general rehabilitation 2028 includes window replacement // pump replacement // general rehabilitation 2029 includes general rehabilitation

<b>Forecast</b>	<b>Project Detailed 2020</b>																																																																												
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<b>Year Identified</b>	<b>Start Date</b>	<b>Useful Life</b>	<b>Manager</b>	<b>Completion Date</b>
2020	Jan 1, 2020	TBD	David Jackowski	Dec 31, 2020

<b>Number:</b>	6511OC	<b>Scenario:</b>	Main
<b>Title:</b>	Capitol Centre 2020 On-going	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (General)	<b>Strategic Plans:</b>	Maintenance
<b>Division:</b>	Capital - Service Partners	<b>Project Type:</b>	
<b>Budget Year:</b>	2020	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
The project provides for an on-going program of repairs and maintenance to the Capitol Centre.	The 2020 program includes a building assessment, west wall architectural assessment - internal and external, repairs to the exterior wall and balcony walls, box office and ticketing improvements, theatre floor rehab, video projection upgrades, and repainting of the exterior.

<b>Scenario Description</b>	<b>Scenario Comments</b>
	The following details support the Capital Forecast for 2021 to 2029: 2021 includes temperature control, lighting upgrades, audio upgrades, office upgrades, a basement feasibility study, marketing upgrades, tech equipment upgrades, security upgrades, building storage. 2022 includes fire and safety supply upgrades, rental space upgrades, internal marquees, building painting, front window casing replacement, signage, exterior canopies, gallery lighting upgrades. 2023 - 2029 includes structural, mechanical and electrical work.

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2020	Jan 1, 2020	N/A	Margaret Karpenko	Dec 31, 2020

<b>Number:</b>	6512PD	<b>Scenario:</b>	Main
<b>Title:</b>	North Bay Police Services 2020 On-going	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (General)	<b>Strategic Plans:</b>	Infrastructure / Sustainability, Technology,...
<b>Division:</b>	Capital - Service Partners	<b>Project Type:</b>	
<b>Budget Year:</b>	2020	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
The project provides for an on-going program of vehicle replacement and other capital programs.	The 2020 program includes vehicle replacements, 911 phone upgrades, building repairs and maintenance, CEW replacements, mobile officer solutions and other technology upgrades per strategic plan.

<b>Scenario Description</b>	<b>Scenario Comments</b>
	The following details support the Capital Forecast for 2021 to 2029: 2021 includes vehicle replacements and upfitting, recording system replacement, 911 upgrades, building repairs, CEW replacements and technology upgrades, 9mm pistol transition 2022 includes building repairs, Body Worn Video/in-Vehicle Video, vehicle replacements and upfitting, and 911 and technology upgrades 2023 to 2029 includes vehicle replacements and upfitting, CEW replacements, radio system replacement and technology upgrades.

<b>Forecast</b>	<b>Project Detailed 2020</b>																																																																																											
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2020	Jan 1, 2020	TBD	Gerald Lalande	Dec 31, 2020

<b>Number:</b>	6513LB	<b>Scenario:</b>	Main
<b>Title:</b>	North Bay Public Library 2020 On-going	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (General)	<b>Strategic Plans:</b>	Maintenance, Technology
<b>Division:</b>	Capital - Service Partners	<b>Project Type:</b>	
<b>Budget Year:</b>	2020	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
The project provides for an on-going program of repairs, maintenance and other capital needs at the North Bay Public Library.	The 2020 program includes the rehabilitation of the front library entrance walkway and steps, renovation of mezzanine teen/ program space, new security camera installations, and roof repairs.  City Council approved a pre-commitment of \$300,000 in order to proceed with roof repairs as per Report to Council number CORP 2019-127.

<b>Scenario Description</b>	<b>Scenario Comments</b>
	The following details support the Capital Forecast for 2021 to 2029: 2021 includes the review, replacement and enhancement of infrastructure, general maintenance, software/hardware replacement, replacement of web site, and replacement of external signage 2022 and 2023 includes the installation of new elevator, staircase and renovation of Audio-Visual Dept., upgrades to code re: AODA, building and electrical, general maintenance and painting 2024-2029 includes review, replacement and enhancement of infrastructure, general maintenance and software/hardware replacements.

<b>Forecast</b>	<b>Project Detailed 2020</b>																																																																												
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<b>Related Projects</b>	<b>Operating Impacts</b>

Year Identified	Start Date	Useful Life	Manager	Completion Date
2020	Jan 1, 2020	TBD	Ravil Veli	Dec 31, 2020



<b>Number:</b>	6514SS	<b>Scenario:</b>	Main
<b>Title:</b>	Sewage Lift Stations 2020 On-going	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (Water and Wastewater)	<b>Strategic Plans:</b>	Infrastructure / Sustainability, Maintenance,...
<b>Division:</b>	Capital - Sewer	<b>Project Type:</b>	
<b>Budget Year:</b>	2020	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
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.	

<b>Scenario Description</b>	<b>Scenario Comments</b>

<b>Forecast</b>	<b>Project Detailed 2020</b>																																																																								
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<b>Related Projects</b>	<b>Operating Impacts</b>

Year Identified	Start Date	Useful Life	Manager	Completion Date
2020	Jan 1, 2020	10 to 15 Years	Domenic Schiavone	Dec 31, 2020

<b>Number:</b>	6515WS	<b>Scenario:</b>	Main
<b>Title:</b>	Hydrant and Valve Rehab 2020 On-going	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (Water and Wastewater)	<b>Strategic Plans:</b>	Infrastructure / Sustainability, Maintenance
<b>Division:</b>	Capital - Water	<b>Project Type:</b>	
<b>Budget Year:</b>	2020	<b>Active:</b>	Yes

<b>Description</b>		<b>Comments</b>	
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.	

<b>Scenario Description</b>		<b>Scenario Comments</b>	

<b>Forecast</b>		<b>Project Detailed 2020</b>																																																	
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<b>Related Projects</b>		<b>Operating Impacts</b>	

Year Identified	Start Date	Useful Life	Manager	Completion Date
2020	Jan 1, 2020	5 to 15 Years	Domenic Schiavone	Dec 31, 2020

<b>Number:</b>	6517WS	<b>Scenario:</b>	Main
<b>Title:</b>	Water Infrastructure Audit 2020 On-going	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (Water and Wastewater)	<b>Strategic Plans:</b>	Infrastructure / Sustainability
<b>Division:</b>	Capital - Water	<b>Project Type:</b>	
<b>Budget Year:</b>	2020	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
The project provides for an on-going inspection and mapping of the City's water distribution system.	This program allows staff to locate, exercise and map water shutoffs and valves. This process is essential to fully implement Hansen in Public Works.

<b>Scenario Description</b>	<b>Scenario Comments</b>

<b>Forecast</b>	<b>Project Detailed 2020</b>																																																																												
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2020	Jan 1, 2020	10 to 20 Years	Domenic Schiavone	Dec 31, 2020

<b>Number:</b>	6518WS	<b>Scenario:</b>	Main
<b>Title:</b>	Water Plant Maintenance 2020 On-going	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (Water and Wastewater)	<b>Strategic Plans:</b>	Infrastructure / Sustainability, Maintenance
<b>Division:</b>	Capital - Water	<b>Project Type:</b>	
<b>Budget Year:</b>	2020	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
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.

<b>Scenario Description</b>	<b>Scenario Comments</b>

<b>Forecast</b>	<b>Project Detailed 2020</b>																																								
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<b>Related Projects</b>	<b>Operating Impacts</b>

Year Identified	Start Date	Useful Life	Manager	Completion Date
2020	Jan 1, 2020	10 to 20 Years	Karin Pratte	Dec 31, 2020

<b>Number:</b>	6519WS	<b>Scenario:</b>	Main
<b>Title:</b>	Watermain Replace/Ream/Reline 2020 On-going	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (Water and Wastewater)	<b>Strategic Plans:</b>	Infrastructure / Sustainability, Maintenance
<b>Division:</b>	Capital - Water	<b>Project Type:</b>	
<b>Budget Year:</b>	2020	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
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 2020 program will include the continuing upgrades and maintenance to watermains in the city.

<b>Scenario Description</b>	<b>Scenario Comments</b>

<b>Forecast</b>	<b>Project Detailed 2020</b>																																																																												
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<b>Year Identified</b>	<b>Start Date</b>	<b>Useful Life</b>	<b>Manager</b>	<b>Completion Date</b>
2020	Jan 1, 2020	15 to 30 Years	Domenic Schiavone	Dec 31, 2020

<b>Number:</b>	6520RD	<b>Scenario:</b>	Main
<b>Title:</b>	Design Work Next Year's Projects 2020 On-going	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (General)	<b>Strategic Plans:</b>	Infrastructure / Sustainability
<b>Division:</b>	Capital - Infrastructure & Operations	<b>Project Type:</b>	
<b>Budget Year:</b>	2020	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
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 6520ST/SS/WS.

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2020	Jan 1, 2020	N/A	Adam Lacombe	Dec 31, 2020

<b>Number:</b>	6520SS	<b>Scenario:</b>	Main
<b>Title:</b>	Design Work Next Year's Projects 2020 On-going	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (Water and Wastewater)	<b>Strategic Plans:</b>	Infrastructure / Sustainability
<b>Division:</b>	Capital - Sewer	<b>Project Type:</b>	
<b>Budget Year:</b>	2020	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
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<b>Year Identified</b>	<b>Start Date</b>	<b>Useful Life</b>	<b>Manager</b>	<b>Completion Date</b>
2020	Jan 1, 2020	N/A	Adam Lacombe	Dec 31, 2020

<b>Number:</b>	6520ST	<b>Scenario:</b>	Main
<b>Title:</b>	Design Work Next Year's Projects 2020 On-going	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (General)	<b>Strategic Plans:</b>	Infrastructure / Sustainability
<b>Division:</b>	Capital - Infrastructure & Operations	<b>Project Type:</b>	
<b>Budget Year:</b>	2020	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
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Year Identified	Start Date	Useful Life	Manager	Completion Date
2020	Jan 1, 2020	N/A	Adam Lacombe	Dec 31, 2020



<b>Number:</b>	6520WS	<b>Scenario:</b>	Main
<b>Title:</b>	Design Work Next Year's Projects 2020 On-going	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (Water and Wastewater)	<b>Strategic Plans:</b>	Infrastructure / Sustainability
<b>Division:</b>	Capital - Water	<b>Project Type:</b>	
<b>Budget Year:</b>	2020	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
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 6520RD/ST/SS.

<b>Scenario Description</b>	<b>Scenario Comments</b>

<b>Forecast</b>	<b>Project Detailed 2020</b>		
<b>Budget Year</b>	<b>Total Expense</b>	<b>Total Revenue</b>	<b>Difference</b>
2020	113,000	113,000	0
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
	<b>1,271,000</b>	<b>1,271,000</b>	<b>0</b>
<b>LTD Amount:</b> 0	<b>Total Project Cost:</b> 1,271,000		
<b>GL Account</b>			
<b>Description</b>			
<b>Total Amount</b>			
<b>Expense</b>			
3117	DESIGN FEES		109,179
7010	ADMINISTRATON & OVERHEAD		3,821
<b>Total Expense:</b>			<b>113,000</b>
<b>Revenue</b>			
0461	TSF FRM REV FUND-PAYGO		113,000
<b>Total Revenue:</b>			<b>113,000</b>

<b>Related Projects</b>	<b>Operating Impacts</b>			
<b>Year Identified</b>	<b>Start Date</b>	<b>Useful Life</b>	<b>Manager</b>	<b>Completion Date</b>
2020	Jan 1, 2020	N/A	Adam Lacombe	Dec 31, 2020

<b>Number:</b>	6521RF	<b>Scenario:</b>	Main
<b>Title:</b>	Memorial Gardens Rehab 2020 On-going	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (General)	<b>Strategic Plans:</b>	Infrastructure / Sustainability, Maintenance
<b>Division:</b>	Capital - Community Services	<b>Project Type:</b>	
<b>Budget Year:</b>	2020	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
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 2020, the program includes partial south lot paving.

<b>Scenario Description</b>	<b>Scenario Comments</b>
	The following details support the Capital Forecast for 2021 to 2029: 2021 Structural integrity report // south lot paving 2022 Plexiglas // storage addition // ice plant quinquennial maintenance 2023 Condenser replacement 2024 Lighting // public washroom upgrades 2025 Building storage // main lobby floor refinishing 2026 Chiller replacement // Plexiglas // general rehabilitation 2027 Compressors and motors 2028 HVAC unit renewals // general rehabilitation 2029 General rehabilitation

<b>Forecast</b>	<b>Project Detailed 2020</b>																																																																												
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<b>Related Projects</b>	<b>Operating Impacts</b>			
<b>Year Identified</b>	<b>Start Date</b>	<b>Useful Life</b>	<b>Manager</b>	<b>Completion Date</b>
2020	Jan 1, 2020	20 Years	David Jackowski	Dec 31, 2020

<b>Number:</b>	6522FD	<b>Scenario:</b>	Main
<b>Title:</b>	Fire Facilities Management Program 2020 On-going	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (General)	<b>Strategic Plans:</b>	Infrastructure / Sustainability, Maintenance
<b>Division:</b>	Capital - Community Services	<b>Project Type:</b>	
<b>Budget Year:</b>	2020	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
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.

<b>Scenario Description</b>	<b>Scenario Comments</b>
	The Capital Forecasts from 2020 to 2028 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.

<b>Forecast</b>	<b>Project Detailed 2020</b>																																																								
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<b>Related Projects</b>	<b>Operating Impacts</b>

Year Identified	Start Date	Useful Life	Manager	Completion Date
2020	Jan 1, 2020	10 to 20 Years	Jason Whiteley	Dec 31, 2020

<b>Number:</b>	6523WS	<b>Scenario:</b>	Main
<b>Title:</b>	Flush Watermains 2020 On-going	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (Water and Wastewater)	<b>Strategic Plans:</b>	Infrastructure / Sustainability, Maintenance
<b>Division:</b>	Capital - Water	<b>Project Type:</b>	
<b>Budget Year:</b>	2020	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
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.

<b>Scenario Description</b>	<b>Scenario Comments</b>

<b>Forecast</b>	<b>Project Detailed 2020</b>																																																																												
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<b>Related Projects</b>	<b>Operating Impacts</b>

Year Identified	Start Date	Useful Life	Manager	Completion Date
2020	Jan 1, 2020	10 to 20 Years	Domenic Schiavone	Dec 31, 2020

<b>Number:</b>	6524RD	<b>Scenario:</b>	Main
<b>Title:</b>	Asset Management 2020 On-going	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (General)	<b>Strategic Plans:</b>	Infrastructure / Sustainability, Master Plans
<b>Division:</b>	Capital - Infrastructure & Operations	<b>Project Type:</b>	
<b>Budget Year:</b>	2020	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
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 current focus will be on collecting spatially accurate data for the location of assets such as maintenance holes and valves as well as further analyzing condition data for linear infrastructure (pipe systems and roads).  Related projects include 6524WS.

<b>Scenario Description</b>	<b>Scenario Comments</b>

<b>Forecast</b>	<b>Project Detailed 2020</b>																																																																												
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3117	DESIGN FEES	48,309																																																																											
7010	ADMINISTRATON & OVERHEAD	1,691																																																																											
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<b>Related Projects</b>	<b>Operating Impacts</b>			
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2020	Jan 1, 2020	TBD	Kevin Vescio	Dec 31, 2020

<b>Number:</b>	6524WS	<b>Scenario:</b>	Main
<b>Title:</b>	Asset Management 2020 On-going	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (Water and Wastewater)	<b>Strategic Plans:</b>	Infrastructure / Sustainability, Master Plans
<b>Division:</b>	Capital - Water	<b>Project Type:</b>	
<b>Budget Year:</b>	2020	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
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 current focus will be on collecting spatially accurate data for the location of assets such as maintenance holes and valves as well as further analyzing condition data for linear infrastructure (pipe systems and roads).  Related projects include 6524RD.

<b>Scenario Description</b>	<b>Scenario Comments</b>

<b>Forecast</b>	<b>Project Detailed 2020</b>																																																																												
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<b>Related Projects</b>	<b>Operating Impacts</b>			
<b>Year Identified</b>	<b>Start Date</b>	<b>Useful Life</b>	<b>Manager</b>	<b>Completion Date</b>
2020	Jan 1, 2020	TBD	Kevin Vescio	Dec 31, 2020

<b>Number:</b>	6525ST	<b>Scenario:</b>	Main
<b>Title:</b>	Storm Sewer Flushing and Outfall Maintenance 2020 On-going	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (General)	<b>Strategic Plans:</b>	Infrastructure / Sustainability, Maintenance
<b>Division:</b>	Capital - Infrastructure & Operations	<b>Project Type:</b>	
<b>Budget Year:</b>	2020	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
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 2020 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.

<b>Scenario Description</b>	<b>Scenario Comments</b>

<b>Forecast</b>	<b>Project Detailed 2020</b>																																																																												
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<b>Related Projects</b>	<b>Operating Impacts</b>			
<b>Year Identified</b>	<b>Start Date</b>	<b>Useful Life</b>	<b>Manager</b>	<b>Completion Date</b>
2020	Jan 1, 2020	25 Years	Domenic Schiavone	Dec 31, 2020

<b>Number:</b>	6526SS	<b>Scenario:</b>	Main
<b>Title:</b>	Wastewater Treatment Plant Rehab 2020 On-going	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (Water and Wastewater)	<b>Strategic Plans:</b>	Maintenance
<b>Division:</b>	Capital - Sewer	<b>Project Type:</b>	
<b>Budget Year:</b>	2020	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
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.

<b>Scenario Description</b>	<b>Scenario Comments</b>
	The following details support the capital forecast: 2021 - Feric Chemical room upgrade 2023 - Brick Veneer at Admin Building 2025-2029 - Various repairs and upgrades

<b>Forecast</b>	<b>Project Detailed 2020</b>																																
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<b>Related Projects</b>	<b>Operating Impacts</b>			
<b>Year Identified</b>	<b>Start Date</b>	<b>Useful Life</b>	<b>Manager</b>	<b>Completion Date</b>
2020	Jan 1, 2020	50 Years	Karin Pratte	Dec 31, 2020



<b>Number:</b>	6528GG	<b>Scenario:</b>	Main
<b>Title:</b>	System Technology Program 2020 On-going	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (General)	<b>Strategic Plans:</b>	Technology
<b>Division:</b>	Capital - Corporate Services	<b>Project Type:</b>	
<b>Budget Year:</b>	2020	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
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 2020, the program includes the replacement of workstations for \$106,000, information systems including network and server infrastructure for \$130,000, telephony and remote communications for \$60,000, wireless and remote access for \$5,000, printers for \$10,000, Sensitive data destruction for \$1,000, security upgrades and replacements of \$50,000, enhancements of SunGard/Questica/Financial Systems for \$20,000, software licensing for \$85,000, GIS priorities for \$20,000 and department priorities including mobile technology and computer hardware for \$30,000.

<b>Scenario Description</b>	<b>Scenario Comments</b>

<b>Forecast</b>	<b>Project Detailed 2020</b>																																																																												
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<b>Related Projects</b>	<b>Operating Impacts</b>

Year Identified	Start Date	Useful Life	Manager	Completion Date
2020	Jan 1, 2020	4 Years	Scott Bradford	Dec 31, 2020

<b>Number:</b>	6528WS	<b>Scenario:</b>	Main
<b>Title:</b>	System Technology Program 2020 On-going	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (Water and Wastewater)	<b>Strategic Plans:</b>	Technology
<b>Division:</b>	Capital - Water	<b>Project Type:</b>	
<b>Budget Year:</b>	2020	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
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.

<b>Scenario Description</b>	<b>Scenario Comments</b>

<b>Forecast</b>	<b>Project Detailed 2020</b>																																																																												
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<b>Related Projects</b>	<b>Operating Impacts</b>			
<b>Year Identified</b>	<b>Start Date</b>	<b>Useful Life</b>	<b>Manager</b>	<b>Completion Date</b>
2020	Jan 1, 2020	4 Years	Scott Bradford	Dec 31, 2020

<b>Number:</b>	6529AT	<b>Scenario:</b>	Main
<b>Title:</b>	North Bay Jack Garland Airport 2020 On-going	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (General)	<b>Strategic Plans:</b>	Infrastructure / Sustainability
<b>Division:</b>	Capital - Service Partners	<b>Project Type:</b>	
<b>Budget Year:</b>	2020	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
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 2020 program includes the 3 bay pull thru truck and sweeper building addition, and replacement of the garage lift safety system.

<b>Scenario Description</b>	<b>Scenario Comments</b>
	The following details support the Capital Forecast for 2021 to 2029: 2021 - repairs and resurfacing of Apron 3 and 4 // computer and software replacement // air fan 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

<b>Forecast</b>	<b>Project Detailed 2020</b>																																																																												
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<b>Year Identified</b>	<b>Start Date</b>	<b>Useful Life</b>	<b>Manager</b>	<b>Completion Date</b>
2020	Jan 1, 2020	25 Years	John Severino	Dec 31, 2020

<b>Number:</b>	6531FD	<b>Scenario:</b>	Main
<b>Title:</b>	Fire Equipment Replacement 2020 On-going	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (General)	<b>Strategic Plans:</b>	Infrastructure / Sustainability, Maintenance,...
<b>Division:</b>	Capital - Community Services	<b>Project Type:</b>	
<b>Budget Year:</b>	2020	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
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.

<b>Scenario Description</b>	<b>Scenario Comments</b>
	The Capital Forecasts from 2020 to 2029 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.

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<b>Year Identified</b>	<b>Start Date</b>	<b>Useful Life</b>	<b>Manager</b>	<b>Completion Date</b>
2020	Jan 1, 2020	5 to 25 Years	Greg Saunders	Dec 31, 2020

<b>Number:</b>	6532FD	<b>Scenario:</b>	Main
<b>Title:</b>	Fire Bunker Gear Replacement Program 2020 On-going	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (General)	<b>Strategic Plans:</b>	Equipment Replacement
<b>Division:</b>	Capital - Community Services	<b>Project Type:</b>	
<b>Budget Year:</b>	2020	<b>Active:</b>	Yes

<b>Description</b>		<b>Comments</b>	
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, 2022, and 2026, the program is based on the anticipated costs for required replacements.	

<b>Scenario Description</b>		<b>Scenario Comments</b>	

<b>Forecast</b>		<b>Project Detailed 2020</b>	
<b>Budget Year</b>	<b>Total Expense</b>	<b>Total Revenue</b>	<b>Difference</b>
2021	165,495	165,495	0
2022	67,016	67,016	0
2026	243,225	243,225	0
	<b>475,736</b>	<b>475,736</b>	<b>0</b>
<b>LTD Amount:</b> 0	<b>Total Project Cost:</b> 475,736		

<b>Related Projects</b>		<b>Operating Impacts</b>	

<b>Year Identified</b>	<b>Start Date</b>	<b>Useful Life</b>	<b>Manager</b>	<b>Completion Date</b>
2020	Jan 1, 2021	10 Years	Greg Saunders	Dec 31, 2021

<b>Number:</b>	6533ST	<b>Scenario:</b>	Main
<b>Title:</b>	Ditch Enclosure 2020 On-going	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (General)	<b>Strategic Plans:</b>	Infrastructure / Sustainability
<b>Division:</b>	Capital - Infrastructure & Operations	<b>Project Type:</b>	
<b>Budget Year:</b>	2020	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
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 2020 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 6488RD.

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<b>Forecast</b>	<b>Project Detailed 2020</b>																																																																															
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<b>Year Identified</b>	<b>Start Date</b>	<b>Useful Life</b>	<b>Manager</b>	<b>Completion Date</b>
2020	Jan 1, 2020	25-50 Years	Domenic Schiavone	Dec 31, 2020

<b>Number:</b>	6535SS	<b>Scenario:</b>	Main
<b>Title:</b>	Wastewater Treatment Plant - Electrical Upgrades 2020 On-going	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (Water and Wastewater)	<b>Strategic Plans:</b>	Infrastructure / Sustainability, Maintenance
<b>Division:</b>	Capital - Sewer	<b>Project Type:</b>	
<b>Budget Year:</b>	2020	<b>Active:</b>	Yes

<b>Description</b>		<b>Comments</b>	
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.	

<b>Scenario Description</b>		<b>Scenario Comments</b>	

<b>Forecast</b>				<b>Project Detailed 2020</b>		
<b>Budget Year</b>	<b>Total Expense</b>	<b>Total Revenue</b>	<b>Difference</b>	<b>GL Account</b>	<b>Description</b>	<b>Total Amount</b>
2020	200,000	200,000	0	<b>Expense</b>		
2021	250,000	250,000	0	3425	CONSTRUCTION CONTRACT	193,237
2022	200,000	200,000	0	7010	ADMINISTRATON & OVERHEAD	6,763
2023	250,000	250,000	0	<b>Total Expense:</b>		<b>200,000</b>
2024	250,000	250,000	0	<b>Revenue</b>		
2025	250,000	250,000	0	0461	TSF FRM REV FUND-PAYGO	200,000
2026	250,000	250,000	0	<b>Total Revenue:</b>		<b>200,000</b>
2027	250,000	250,000	0			
2028	258,000	258,000	0			
2029	260,000	260,000	0			
	<b>2,418,000</b>	<b>2,418,000</b>	<b>0</b>			
<b>LTD Amount:</b> 0		<b>Total Project Cost:</b> 2,418,000				

<b>Related Projects</b>			<b>Operating Impacts</b>		
<b>Year Identified</b>	<b>Start Date</b>	<b>Useful Life</b>	<b>Manager</b>		<b>Completion Date</b>
2020	Jan 1, 2020	15 Years	Karin Pratte		Dec 31, 2020

<b>Number:</b>	6536SS	<b>Scenario:</b>	Main
<b>Title:</b>	Sewage Lift Stations PLC and Radio Upgrades 2020 On-going	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (Water and Wastewater)	<b>Strategic Plans:</b>	Infrastructure / Sustainability, Maintenance,...
<b>Division:</b>	Capital - Sewer	<b>Project Type:</b>	
<b>Budget Year:</b>	2020	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
This project includes PLC and radio upgrades at the 18 sewage lift stations operated by the City.	All 18 existing lift stations at the City require upgrades to controls and radios. This program provides funding to replace a system each year.

<b>Scenario Description</b>	<b>Scenario Comments</b>

<b>Forecast</b>	<b>Project Detailed 2020</b>																																																																												
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2020	Jan 1, 2020	10 to 15 Years	Karin Pratte	Dec 31, 2020



<b>Number:</b>	6537SS	<b>Scenario:</b>	Main
<b>Title:</b>	Wastewater Treatment Plant Exterior Rehab 2020 on-going	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (Water and Wastewater)	<b>Strategic Plans:</b>	Infrastructure / Sustainability
<b>Division:</b>	Capital - Sewer	<b>Project Type:</b>	
<b>Budget Year:</b>	2020	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
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 2020 program will provide for brick veneer, compressor for the building, and emergency repairs.

<b>Scenario Description</b>	<b>Scenario Comments</b>
	The following details support the capital forecast: 2021 - Phase 2 Iron rod Fencing around Wastewater Treatment Plant and landscaping on Memorial Drive 2020 - General building rehabilitation 2023 - Brick Veneer Blower/RAS building 2025 to 2029 - General building rehabilitation

<b>Forecast</b>	<b>Project Detailed 2020</b>																																																												
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<b>Related Projects</b>	<b>Operating Impacts</b>

<b>Year Identified</b>	<b>Start Date</b>	<b>Useful Life</b>	<b>Manager</b>	<b>Completion Date</b>
2020	Jan 1, 2020	TBD	Karin Pratte	Dec 31, 2020

<b>Number:</b>	6538RD	<b>Scenario:</b>	Main
<b>Title:</b>	Public Works Building Maintenance 2020 On-going	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (General)	<b>Strategic Plans:</b>	Maintenance
<b>Division:</b>	Capital - Infrastructure & Operations	<b>Project Type:</b>	
<b>Budget Year:</b>	2020	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
This project is to address emergency repairs and replacements to the public works facilities.	Related project includes 6538WS.

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<b>Forecast</b>	<b>Project Detailed 2020</b>																																																																												
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0461	TSF FRM REV FUND-PAYGO	50,000																																																																											
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2020	Jan 1, 2020	TBD	Domenic Schiavone	Dec 31, 2020

<b>Number:</b>	6538WS	<b>Scenario:</b>	Main
<b>Title:</b>	Public Works Building Maintenance 2020 On-going	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (Water and Wastewater)	<b>Strategic Plans:</b>	Maintenance
<b>Division:</b>	Capital - Water	<b>Project Type:</b>	
<b>Budget Year:</b>	2020	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
This project is to address emergency repairs and replacements to the public works facilities.	In 2020, the project will address general repairs required to the public works facilities. Related project includes 6538RD.

<b>Scenario Description</b>	<b>Scenario Comments</b>

<b>Forecast</b>	<b>Project Detailed 2020</b>																																																																												
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2020	Jan 1, 2020	TBD	Domenic Schiavone	Dec 31, 2020

<b>Number:</b>	6539RD	<b>Scenario:</b>	Main
<b>Title:</b>	Equipment Replacement 2020 On-going	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (General)	<b>Strategic Plans:</b>	Equipment Replacement
<b>Division:</b>	Capital - Infrastructure & Operations	<b>Project Type:</b>	
<b>Budget Year:</b>	2020	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
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 6539WS.

<b>Scenario Description</b>	<b>Scenario Comments</b>

<b>Forecast</b>	<b>Project Detailed 2020</b>																																																																												
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2020	Jan 1, 2020	TBD	Domenic Schiavone	Dec 31, 2020

<b>Number:</b>	6539WS	<b>Scenario:</b>	Main
<b>Title:</b>	Equipment Replacement 2020 On-going	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (Water and Wastewater)	<b>Strategic Plans:</b>	Equipment Replacement
<b>Division:</b>	Capital - Water	<b>Project Type:</b>	
<b>Budget Year:</b>	2020	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
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 6539RD.

<b>Scenario Description</b>	<b>Scenario Comments</b>

<b>Forecast</b>	<b>Project Detailed 2020</b>																																																																								
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2020	Jan 1, 2020	TBD	Domenic Schiavone	Dec 31, 2020

<b>Number:</b>	6540SS	<b>Scenario:</b>	Main
<b>Title:</b>	Sewer Rehab and Restoration 2020 On-going	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (Water and Wastewater)	<b>Strategic Plans:</b>	Infrastructure / Sustainability
<b>Division:</b>	Capital - Sewer	<b>Project Type:</b>	
<b>Budget Year:</b>	2020	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
<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 2020 program will include restoration work to support wastewater on-going projects.

<b>Scenario Description</b>	<b>Scenario Comments</b>

<b>Forecast</b>	<b>Project Detailed 2020</b>																																																																								
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<b>Related Projects</b>	<b>Operating Impacts</b>

Year Identified	Start Date	Useful Life	Manager	Completion Date
2020	Jan 1, 2020	50 Years	Domenic Schiavone	Dec 31, 2020

<b>Number:</b>	6541CA	<b>Scenario:</b>	Main
<b>Title:</b>	North Bay Mattawa Conservation Authority 2020 On-going	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (General)	<b>Strategic Plans:</b>	Maintenance
<b>Division:</b>	Capital - Service Partners	<b>Project Type:</b>	
<b>Budget Year:</b>	2020	<b>Active:</b>	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 2020		
Budget Year	Total Expense	Total Revenue	Difference	GL Account	Description	Total Amount
2020	879,297	879,297	0			
2021	927,143	927,143	0	6067	CONSERVATION AUTHORITY	849,562
2022	959,298	959,298	0	7010	ADMINISTRATON & OVERHEAD	29,735
2023	953,419	953,419	0			<b>Total Expense: 879,297</b>
2024	965,528	965,528	0			
2025	997,751	997,751	0	0461	TSF FRM REV FUND-PAYGO	879,297
2026	998,900	998,900	0			<b>Total Revenue: 879,297</b>
2027	1,008,376	1,008,376	0			
2028	1,016,270	1,016,270	0			
2029	1,025,863	1,025,863	0			
	<b>9,731,845</b>	<b>9,731,845</b>	<b>0</b>			
<b>LTD Amount:</b> 0		<b>Total Project Cost:</b> 9,731,845				

Related Projects	Operating Impacts

Year Identified	Start Date	Useful Life	Manager	Completion Date
2020	Jan 1, 2020	N/A	Margaret Karpenko	Dec 31, 2020

<b>Number:</b>	6542SS	<b>Scenario:</b>	Main
<b>Title:</b>	Infrastructure Modelling 2020 On-going	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (Water and Wastewater)	<b>Strategic Plans:</b>	
<b>Division:</b>	Capital - Sewer	<b>Project Type:</b>	
<b>Budget Year:</b>	2020	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
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 6542ST.</p>

<b>Scenario Description</b>	<b>Scenario Comments</b>

<b>Forecast</b>	<b>Project Detailed 2020</b>																				
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Budget Year	Total Expense	Total Revenue	Difference																		
2025	10,000	10,000	0																		
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<b>LTD Amount: 0</b>		<b>Total Project Cost: 20,000</b>																			

<b>Related Projects</b>	<b>Operating Impacts</b>

Year Identified	Start Date	Useful Life	Manager	Completion Date
2020	Jan 1, 2025	N/A	Adam Lacombe	Dec 31, 2025



<b>Number:</b>	6542ST	<b>Scenario:</b>	Main
<b>Title:</b>	Infrastructure Modelling 2020 On-going	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (General)	<b>Strategic Plans:</b>	
<b>Division:</b>	Capital - Infrastructure & Operations	<b>Project Type:</b>	
<b>Budget Year:</b>	2020	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
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 6542SS.</p>

<b>Scenario Description</b>	<b>Scenario Comments</b>

<b>Forecast</b>	<b>Project Detailed 2020</b>																								
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Budget Year	Total Expense	Total Revenue	Difference																						
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2029	10,000	10,000	0																						
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<b>LTD Amount:</b> 0		<b>Total Project Cost:</b> 120,000																							

<b>Related Projects</b>	<b>Operating Impacts</b>

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

<b>Number:</b>	6543SL	<b>Scenario:</b>	Main
<b>Title:</b>	Street Light Replacement 2020 On-going	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (General)	<b>Strategic Plans:</b>	Maintenance
<b>Division:</b>	Capital - Infrastructure & Operations	<b>Project Type:</b>	
<b>Budget Year:</b>	2020	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
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.

<b>Scenario Description</b>	<b>Scenario Comments</b>

<b>Forecast</b>	<b>Project Detailed 2020</b>																																																																								
<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>2020</td><td>5,000</td><td>5,000</td><td>0</td></tr> <tr><td>2021</td><td>5,000</td><td>5,000</td><td>0</td></tr> <tr><td>2022</td><td>5,000</td><td>5,000</td><td>0</td></tr> <tr><td>2023</td><td>5,000</td><td>5,000</td><td>0</td></tr> <tr><td>2024</td><td>5,000</td><td>5,000</td><td>0</td></tr> <tr><td>2025</td><td>5,000</td><td>5,000</td><td>0</td></tr> <tr><td>2026</td><td>10,000</td><td>10,000</td><td>0</td></tr> <tr><td>2027</td><td>10,000</td><td>10,000</td><td>0</td></tr> <tr><td>2028</td><td>10,000</td><td>10,000</td><td>0</td></tr> <tr><td>2029</td><td>15,000</td><td>15,000</td><td>0</td></tr> <tr> <td></td> <td><b>75,000</b></td> <td><b>75,000</b></td> <td><b>0</b></td> </tr> </tbody> </table> <p><b>LTD Amount:</b> 0                      <b>Total Project Cost:</b> 75,000</p>	Budget Year	Total Expense	Total Revenue	Difference	2020	5,000	5,000	0	2021	5,000	5,000	0	2022	5,000	5,000	0	2023	5,000	5,000	0	2024	5,000	5,000	0	2025	5,000	5,000	0	2026	10,000	10,000	0	2027	10,000	10,000	0	2028	10,000	10,000	0	2029	15,000	15,000	0		<b>75,000</b>	<b>75,000</b>	<b>0</b>	<table border="1"> <thead> <tr> <th>GL Account</th> <th>Description</th> <th>Total Amount</th> </tr> </thead> <tbody> <tr> <td colspan="3"><b>Expense</b></td> </tr> <tr> <td>3425</td> <td>CONSTRUCTION CONTRACT</td> <td>4,831</td> </tr> <tr> <td>7010</td> <td>ADMINISTRATON &amp; OVERHEAD</td> <td>169</td> </tr> <tr> <td></td> <td><b>Total Expense:</b></td> <td><b>5,000</b></td> </tr> <tr> <td colspan="3"><b>Revenue</b></td> </tr> <tr> <td>0461</td> <td>TSF FRM REV FUND-PAYGO</td> <td>5,000</td> </tr> <tr> <td></td> <td><b>Total Revenue:</b></td> <td><b>5,000</b></td> </tr> </tbody> </table>	GL Account	Description	Total Amount	<b>Expense</b>			3425	CONSTRUCTION CONTRACT	4,831	7010	ADMINISTRATON & OVERHEAD	169		<b>Total Expense:</b>	<b>5,000</b>	<b>Revenue</b>			0461	TSF FRM REV FUND-PAYGO	5,000		<b>Total Revenue:</b>	<b>5,000</b>
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<b>Related Projects</b>	<b>Operating Impacts</b>

Year Identified	Start Date	Useful Life	Manager	Completion Date
2020	Jan 1, 2020	10 Years	Karin Pratte	Dec 31, 2020

<b>Number:</b>	6544SS	<b>Scenario:</b>	Main
<b>Title:</b>	Digester and Grit Removal 2020 On-going	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (Water and Wastewater)	<b>Strategic Plans:</b>	Infrastructure / Sustainability, Maintenance
<b>Division:</b>	Capital - Sewer	<b>Project Type:</b>	
<b>Budget Year:</b>	2020	<b>Active:</b>	Yes

<b>Description</b>		<b>Comments</b>	
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.	

<b>Scenario Description</b>		<b>Scenario Comments</b>	

<b>Forecast</b>		<b>Project Detailed 2020</b>	
<b>Budget Year</b>	<b>Total Expense</b>	<b>Total Revenue</b>	<b>Difference</b>
2023	109,000	109,000	0
2026	109,000	109,000	0
2029	109,000	109,000	0
	<b>327,000</b>	<b>327,000</b>	<b>0</b>
<b>LTD Amount:</b> 0		<b>Total Project Cost:</b> 327,000	

<b>Related Projects</b>		<b>Operating Impacts</b>	

<b>Year Identified</b>	<b>Start Date</b>	<b>Useful Life</b>	<b>Manager</b>	<b>Completion Date</b>
2019	Jan 1, 2020	N/A	Karin Pratte	Dec 31, 2020

<b>Number:</b>	6545RD	<b>Scenario:</b>	Main
<b>Title:</b>	Engineering Data and Equipment 2020 On-going	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Strategic Investment (General)	<b>Strategic Plans:</b>	Equipment Replacement
<b>Division:</b>	Capital - Infrastructure & Operations	<b>Project Type:</b>	
<b>Budget Year:</b>	2020	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
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 6545SS</p>

<b>Scenario Description</b>	<b>Scenario Comments</b>

<b>Forecast</b>	<b>Project Detailed 2020</b>																																																																								
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<b>Related Projects</b>	<b>Operating Impacts</b>

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

<b>Number:</b>	6545SS	<b>Scenario:</b>	Main
<b>Title:</b>	Engineering Data and Equipment 2020 On-going	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Strategic Investment (Water and Wastewater)	<b>Strategic Plans:</b>	Equipment Replacement
<b>Division:</b>	Capital - Sewer	<b>Project Type:</b>	
<b>Budget Year:</b>	2020	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
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 6545RD</p>

<b>Scenario Description</b>	<b>Scenario Comments</b>

<b>Forecast</b>	<b>Project Detailed 2020</b>																																																																								
<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>2020</td><td>5,000</td><td>5,000</td><td>0</td></tr> <tr><td>2021</td><td>20,000</td><td>20,000</td><td>0</td></tr> <tr><td>2022</td><td>5,000</td><td>5,000</td><td>0</td></tr> <tr><td>2023</td><td>5,000</td><td>5,000</td><td>0</td></tr> <tr><td>2024</td><td>5,000</td><td>5,000</td><td>0</td></tr> <tr><td>2025</td><td>20,000</td><td>20,000</td><td>0</td></tr> <tr><td>2026</td><td>5,000</td><td>5,000</td><td>0</td></tr> <tr><td>2027</td><td>5,000</td><td>5,000</td><td>0</td></tr> <tr><td>2028</td><td>5,000</td><td>5,000</td><td>0</td></tr> <tr><td>2029</td><td>20,000</td><td>20,000</td><td>0</td></tr> <tr> <td></td> <td><b>95,000</b></td> <td><b>95,000</b></td> <td><b>0</b></td> </tr> </tbody> </table> <p>LTD Amount: 0                      <b>Total Project Cost: 95,000</b></p>	Budget Year	Total Expense	Total Revenue	Difference	2020	5,000	5,000	0	2021	20,000	20,000	0	2022	5,000	5,000	0	2023	5,000	5,000	0	2024	5,000	5,000	0	2025	20,000	20,000	0	2026	5,000	5,000	0	2027	5,000	5,000	0	2028	5,000	5,000	0	2029	20,000	20,000	0		<b>95,000</b>	<b>95,000</b>	<b>0</b>	<table border="1"> <thead> <tr> <th>GL Account</th> <th>Description</th> <th>Total Amount</th> </tr> </thead> <tbody> <tr> <td colspan="3"><b>Expense</b></td> </tr> <tr> <td>3117</td> <td>DESIGN FEES</td> <td>4,831</td> </tr> <tr> <td>7010</td> <td>ADMINISTRATON &amp; OVERHEAD</td> <td>169</td> </tr> <tr> <td></td> <td><b>Total Expense:</b></td> <td><b>5,000</b></td> </tr> <tr> <td colspan="3"><b>Revenue</b></td> </tr> <tr> <td>0461</td> <td>TSF FRM REV FUND-PAYGO</td> <td>5,000</td> </tr> <tr> <td></td> <td><b>Total Revenue:</b></td> <td><b>5,000</b></td> </tr> </tbody> </table>	GL Account	Description	Total Amount	<b>Expense</b>			3117	DESIGN FEES	4,831	7010	ADMINISTRATON & OVERHEAD	169		<b>Total Expense:</b>	<b>5,000</b>	<b>Revenue</b>			0461	TSF FRM REV FUND-PAYGO	5,000		<b>Total Revenue:</b>	<b>5,000</b>
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<b>Related Projects</b>	<b>Operating Impacts</b>

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