

REPORT

COMMITTEE OF THE WHOLE September 3rd, 2019

Report #FIN-2019-09 Richard Bennett, Acting Treasurer

10 YEAR CAPITAL PLAN

STAFF RECOMMENDATION(S)

It is recommended:

"THAT, the 10 Year Capital Plan be adopted."

BACKGROUND

Prudent fiscal management requires planning for future capital purchases and how those expenditures are to be funded. The forecasts are key components of our fiscal management program and will become part of the Development Charge Study to be completed in the next couple of months and the Municipal Tangible Capital Asset Plan which is to be updated in the near future.

DISCUSSION

The plan has been organized as follows:

- Summary
- Vehicles & Equipment
- Bridges
- Roads
- Buildings
- Other Assets
- Reserve Projections
- Converting Gravel Roads
- Un-Assumed Roads

It is important to note that the last 2 schedules (Converting Gravel Roads and Un-Assumed Roads) are currently not built into the costs for the 10 year Capital Plan.

Each schedule has an inflation rate of 2% per year built into the estimated costs of acquiring these assets.

The Township has a capitalization threshold of \$20,000 for vehicles and equipment and \$50,000 for linear assets, bridges and buildings so that individual capital assets of lesser value are expensed in the year as an operational expense. These items are not included in the 10 year Capital Plan.

The capital purchases are funded primarily by reserves and grants. This plan does include the use of development charge revenues, gas tax revenues, and specific capital reserve funds. One new debt (in the year 2020 of \$875,000) to complete the upgrades to the Bolingbroke Bridge is also included in the plan. It is estimated that this new debt will add approximately \$50,000 to the annual operating budget as a repayment of this debt over a 25 year timeframe.

It is imperative that the Township continue to contribute funds to capital reserves each year. We have to continue investing in capital projects in order to save (or get under control) operating costs (i.e.: annual vehicle repair costs and annual cold patch costs of \$60,000).

The 2019 budget included \$814,200 in contributions to reserve funds for future capital projects. The attached plan points out the need to increase that contribution in 2020 to \$830,400. (\$16,200 or a .3% levy increase) Also; as the plan has a built in inflation rate on the cost of capital projects, it also suggests an annual increase of 2% in the contributions to the capital reserve accounts.

OPTIONS TO BE CONSIDERED

Council have requested information on the costs associated with converting gravel roads to asphalt or surface treatment and also on assuming roads that are currently private unassumed in old subdivisions. Page 13 and 14 of the attachments provide some details on these options.

As noted, the costs associated with either of these options are not built into the 10 year capital plan and it is staff's opinion that these costs could drive the annual requirements for reserve funds out of reach and would add to the annual operating costs of the public works department.

STRATEGIC PLAN LINK

The Strategic Plan and the current priority setting process could have some effects on future capital projects and staff suggests that this plan be reviewed annually and updated for any changes to capital plans and the estimated cost of each project.

FINANCIAL CONSIDERATIONS

The plan points out the need to increase the contributions to reserves in the annual budget process.

CONCLUSIONS

The projects in this 10 year capital plan can be completed with a modest (.3%) annual increase to the contributions to reserves along with the one new long-term debt for the Bolingbroke Bridge project.

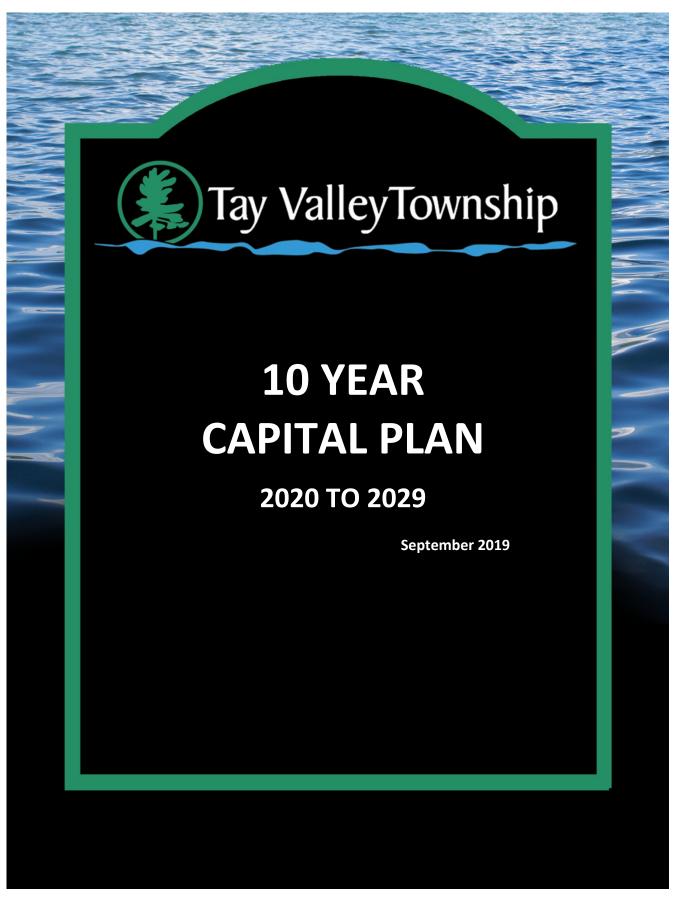
ATTACHMENTS

i) 10 Year Capital Plan

Prepared and Submitted By:

Approved for Submission By:

Richard Bennett, Acting Treasurer Larry Donaldson, Chief Administrative Officer



TAY VALLEY TOWNSHIP												
10 YEAR CAPITAL PLAN		SUMMARY	•									
2020 TO 2029												
		<u>2019</u>	<u>2020</u>	<u>2021</u>	<u>2022</u>	<u>2023</u>	<u>2024</u>	<u>2025</u>	<u>2026</u>	<u>2027</u>	<u>2028</u>	<u>2029</u>
Public Works Equipment	Expenses	485,000	336,600	234,000	349,800	97,200	544,500	123,200	456,000	0	413,000	30,000
Equipment Reserve	Funding	(400,300)	(319,770)	(222,300)	(332,310)	(92,340)	(517,275)	(117,040)	(433,200)	0	(392,350)	(28,500)
Development Charges	Funding	(84,700)	(16,830)	(11,700)	(17,490)	(4,860)	(27,225)	(6,160)	(22,800)	0	(20,650)	(1,500)
Current Year Levy	Funding	0	0	0	0	0	0	0	0	0	0	0
Bridges Construction	Exnenses	1,096,800	898,460	253,864	366,230	112,752	54,120	514,304	193,028	224,244	0	0
Bridge Reserve	Funding	(319,000)	(23,460)	(253,864)	(366,230)	(112,752)	(54,120)	-		(224,244)	0	0
Gas Tax Funds	Funding	(777,800)	(23,400)	(233,004)	(300,230)	(112,732)	(34,120)	(314,304)	(155,020)	(227,277)		
Financing	Funding	(777,000)	(875,000)									
Current Year Levy	Funding	0	0	0	0	0	0	0	0	0	0	0
Roads Construction	Funances	1,653,396	639,540	647,920	1,021,840	693,360	809,600	747,040	699,960	530,120	645,460	678,000
Roads Reserve	Expenses			,		•	-			(267,476)	•	
	Funding	(347,488)	(311,388)	(373,064)	(624,776)	(418,682)	(509,120)					(409,640)
Grants		(1,228,408)	(50,000)	(50,000)	(50,000)	(50,000)	(50,000)		(50,000)	(50,000)	(50,000)	(50,000)
Gas Tax Funds	Funding	(77 500)	(250,000)	(200,000)	(300,000)	(200,000)	(210,000)			(200,000)		(200,000)
Development Charges	Funding	(77,500)	(28,152)	(24,856)	(47,064)	(24,678)	(40,480)		(34,998)	(12,644)	(26,137)	(18,360)
Current Year Levy	Funding	0	0	0	0	0	0	0	0	0	0	0
Buildings	Expenses	0	0	0	0	0	0	56,000	0	0	0	0
Buildings Reserves	Funding	0	0	0	0	0	0	(53,200)	0	0	0	0
Development Charges	Funding	0	0	0	0	0	0	(2,800)	0	0	0	0
Current Year Levy	Funding	0	0	0	0	0	0	0	0	0	0	0
Other Assets (IT, Equipment, R	ecreation)	0	147,900	41,600	0	81,000	97,900	33,600	0	0	0	60,000
Reserves	Funding	0	(30,505)	(39,520)	0	(76,950)	(93,005)	(31,920)	0	0	0	(57,000)
Grants	Funding	0	(110,000)	0	0	0	0	0	0	0	0	0
Development Charges	Funding	0	(7,395)	(2,080)	0	(4,050)	(4,895)	(1,680)	0	0	0	(3,000)
Current Year Levy	Funding	0	0	0	0	0	0	0	0	0	0	0
TOTALS												
Expenditures	Expenses	3,235,196	2,022,500	1,177,384	1,737,870	984.312	1,506,120	1,474,144	1.348.988	754,364	1,058,460	768.000
Reserve Funds Used	Funding	(1,066,788)	(685,123)		(1,323,316)	,-			(1,041,190)			(495,140)
Development Charges	Funding	(162,200)	(52,377)	(38,636)	(64,554)	(33,588)	(72,600)		(57,798)	(12,644)	(46,787)	
Grants	Funding	(1,228,408)	(160,000)	(50,000)	(50,000)	(50,000)	(50,000)		(50,000)	(50,000)	(50,000)	(50,000)
Gas Tax Funds	Funding	(777,800)	(250,000)	(200,000)	(300,000)	(200,000)	(210,000)			(200,000)		(200,000)
Financing	Funding	0	(875,000)	0	0	0	0	0	0	0	0	0
Current Year Levy	Funding	0	0	0	0	0	0	0	0	0	0	0

Page **5** of **14**

TAY VALLEY TOWNSHIP													
10 YEAR CAPITAL PLAN	Inflation =	2%											
2020 TO 2029	Replac	ement		1	2	3	4	5	6	7	8	9	10
	Cost	Year	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
EHICLES													
Tandem Trucks													
2000 Sterling Tandem Dump Truck (#8)	300,000	2019	300,000										
2019 International Tandem Dump Truck (#9)	300,000	2032											
2004 International 7600 Tandem Truck (#10)	300,000	2020		306,000									
2012 International Tandem 7600 6X4 (#12)	300,000	2024						330,000					
2014 International Tandem 7600 Truck (#17)	300,000	2026								342,000			
2016 Western Star Tandem (#1)	300,000	2028								,,,,,,		354,000	
Light Trucks												,	
2004 Ford Ranger (#3)	30,000	2020		30,600									
2007 Ford F150 4X4 3/4 ton (#7)	00,000	2020		00,000									
2011 Chev Silverado 4X4 3/4 ton (#11)	40,000	2023					43,200						
2012 Dodge RAM 1500 (#14)	30,000	2025					43,200		33,600				
2013 Mitsubishi-CBO (#16) (Planning)	30,000	2023					32,400		33,000				
2013 Wittsubistii-CDO (#10) (Flaithing)	30,000	2023					32,400						
2016 Ford F550 (#6) (to be removed from fleet)	100,000	2026								114,000			
QUIPMENT	.00,000	2020								,000			
Heavy Equipment													
2018 John Deere 310SL (#)	160,000	2019	160,000										
2009 Komatsu Backhoe (#71)	160,000	2030	100,000										
2012 CASE Backhoe (#15)	160,000	2024						176,000					
2007 Volvo Grader G960 (#13)	330,000	2024				349,800		170,000					
2018 John Deere 770M Grader (#80)	330,000	2022				349,600							
Tractor with Flail and Boom Mower (New Add)	170,000	2033			176,800								
ì :					176,800			00.500					
Water Tank No.	35,000	2024			00.400			38,500					
Water Tank No.	35,000	2021			36,400								
Light Equipment - (Yearly Input)													
1990 Steamers (quantity 2)	20,000	2025							22,400				
1998 Brush Chipper	50,000	2028										59,000	
Air Compressor / Rock Drill	20,000	2023					21,600						
Brush Head (#89)-Burgess	30,000	2025							33,600				
Brush Head (#89)-Bathurst	30,000	2025							33,600				
Diesel Generator 30 kwh (#88)													
Sweeper Broom (#87)	20,000	2021			20,800								
GPS Indicators for Plows	25,000	2019	25,000										30,0
	3,605,000		485,000	336,600	234,000	349,800	97,200	544,500	123,200	456,000	0	413,000	30,0
Funding:													
Vehicles & Equipment Reserve			400,300	319,770	222,300	332,310	92,340	517,275	117,040	433,200	0	392,350	28,5
Development Charges			84,700	16,830	11,700	17,490	4,860	27,225	6,160	22,800	0	20,650	1,5
Total			485,000	336,600	234,000	349,800	97,200	544,500	123,200	456,000	0	413,000	30,0
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	Note #1	Assume th	at Developn	nent Charge	es can finan	ce 5% of ca	oital spendi	ng					

	TAY VALLEY TOWNSHIP													
	10 YEAR CAPITAL PLAN													
	2020 TO 2029	Inflation =	2%										Note #1	Note #
		Repair/Repl	acement		1	2	3	4	5	6	7	8	9	10
BRIDGES		Cost	Year	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
TRUCTURE NO.	Various Repairs & Guard Rails			50,000										
15-A04	9th Concession Road													
15-092	Adam's Mill Road	80,000	2025						8,800	80,640				
15-A01	Allan's Mill Road	230,000	2021		23,460	215,280								
15-051	Anderson Road	164,000	2026							18,368	168,264			
C15-A02	Anglican Church Road Culvert													
15-159	Black Lake Road													
15-072	Bolingbroke Bridge (Crow Lake)	935,000	2020	60,000	875,000									
15-093	Bowes Side Road	412,000	2025						45,320	415,296				
C15-A03	Doran Road Culvert													
15-075	Doran Road (Fall River Bridge)	161,000	2027								16,100	144,900		
15-050	Ennis Road										, , , , ,	,		
15-076	Gambles Side Road	142,000	2022			14,768	135,468							
15-094	Glen Tay Road	777,800	2019	777,800										
C15-096	Glen Tay Road Open Footing Culvert	116,000	2023				12,296	112,752						
15-139	Haughians Road	76,000	2027								8,664	79,344		
C15-048	Hunter Side Road Culvert (Colton Creek)													
15-088	Menzies Munro Side Road													
15-070	Munro Road (Fall River Bridge)													
15-091	Noonans Side Rd	149,000	2019	149,000										
15-087	Second Line Road	229,000	2022			23,816	218,466							
15-089	Upper Scotch Line Road Culvert													
15-095	Upper Scotch Line Road Bridge													
	Upper Scotch Line Newly Identified 2016													
	6th Concession (Bath.) Culvert Replacement	60,000	2019	60,000										
				1,096,800	898,460	253,864	366,230	112,752	54,120	514,304	193,028	224,244	0)
	Funding:		-									<u> </u>		
	Bridges Reserve			319,000	23,460	253,864	366,230	112,752	54,120	514,304	193,028	224,244	0)
	Federal Gas Tax			777,800	20, .00	_30,004	300,230	, . J_	0.,.20	5,554	,0	,,		
	Debt			,500	875,000									
	Total			1,096,800		253,864	366,230	112,752	54,120	514,304	193,028	224,244	0	,
Note #1	The next OSIM Report will be used to determ	ine conital wa	ork for 202	10 and 2020										

TAY VALLEY TOWNSHIP															
10 YEAR CAPITAL PLAN			Inflation =	2%				LEGEND:		Pavement	Presevation		Reconstruc	tion	
2020 TO 2029			Repair/Rep	lacement	YEAR	1	2	3	4	5	6	7	8	9	10
ROADS	KMS	Last Work	Cost	Year	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
Deficiencies Elimination Prgm					60,000										
SURFACE TREATMENT (LCB)															
L Allan's Side Road	1.808	2015	76,000	2022				80,560							
L Anglican Church Road	3.343	2008	134,000	2023					144,720						
L Armstrong Line	2.571	2018													
L Ashby Road	0.462	-	76,000	2027									88,160		
L Bathurst 7th Concession	2.374	-	353,000	2025							395,360				
L Cameron Side Road (2)	3.480	-	457,000	2023					493,560						
L Christie Lake North Shore Road (2)	2.592	-	1,309,396	2019	1,309,396										
L Christie Lake North Shore Road (2)	2.592	-	104,000	2028										122,720	
L Crow Lake Road	2.938		443,000	2028										522,740	
L Crozier Road	1.095		134,000	2020		136,680									
Crozier Road Ennis Road	1.095		45,000	2029											54,000
	1.202														
_	0.575		204 000	2010	284,000										
L Hanna Road (2)	4.761		284,000	2019	284,000	4.47.000									
L Iron Mine Road	1.025		145,000	2020		147,900									54.000
L Iron Mine Road	1.025		45,000	2029							00.400				54,000
L McVeigh Road	0.384		54,000	2025							60,480				
L Menzies Munro Side Road	2.568														
L Merkley Road	0.273	-													
North Mac Lane															
L Powers Road	2.190		88,000	2027									102,080		
L Ritchie Side Road	0.887		123,000	2020		125,460									
L Ritchie Side Road	0.887		36,000	2029											43,200
L Stanley Road	1.888		306,000	2029											367,200
L Stanleyville Road	1.870		75,000	2019		76,500									
L Upper Scotch Line (2)	4.104		478,000	2021			497,120								
L Walters Lane	0.093														
L Zealand Road (2)	4.196	2008	614,000	2026								699,960			
PAVED (HCB)															
H Brooke Valley Road	0.363		108,000	2025							120,960				
H Bygrove Lane	0.695		29,000	2029											34,800
H Clarchris Road	0.682														
H Crozier Road	2.240		90,000	2029											108,000
H Glenn Drive	0.882		142,000	2027									164,720		
H Glen Tay Road (Hwy 7 to CR 6)	0.419		150,000	2020		153,000									
Glen Tay Road (CR6 to CR10)	2.928		145,000	2021			150,800								
Harper Road (1)	3.757		151,000	2027									175,160		
H Harper Road (2)	2.612		589,000	2022				624,340							
H Jodi Lane	0.201														
H Keays Road	1.334		299,000	2022				316,940							
H Kenyon Road	2.158														
H Lakewood Road	1.916		362,000	2024						398,200					
H Maberly Main Street	0.301	-													

	TAY VALLEY TOWNSHIP															
	10 YEAR CAPITAL PLAN			Inflation =	2%				LEGEND:		Pavement P	resevation		Reconstruct	ion	
	2020 TO 2029			Repair/Rep	lacement	YEAR	1	2	3	4	5	6	7	8	9	10
R	OADS	KMS	Last Work	Cost	Year	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
Н	McLaren Road	2.011	1997	374,000	2024						411,400					
Н	Muttons Road	0.524	2016													
Н	Norris Road	0.154	2016													
Н	Old Brooke Road	0.442	-	118,000	2025							132,160				
Н	Orchard Crescent	0.846	2001	34,000	2025							38,080				
Н	Otty Lake Side Road (shared)	4.222	2018													
Н	Park Lane Court	0.172	2018													
Н	Posner Lane	0.344	2012	14,000	2029											16,800
Н	Somerville Drive (2)	1.247	2018													
Н	Stanleyville Road (1)	1.263	2009	51,000	2023					55,080						
		83.991				1,653,396	639,540	647,920	1,021,840	693,360	809,600	747,040	699,960	530,120	645,460	678,000
	Funding:															,
	Roads Reserve					347,488	311,388	373,064	624,776	418,682	509,120	461,592	414,962	267,476	369,323	409,640
	Grants					1,178,408										
	OCIF - Formula Based Funding					50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000
	Development Charges (5% of Recor	stuction)				77,500	28,152	24,856	47,064	24,678	40,480	35,448	34,998	12,644	26,137	18,360
	Federal Gas Tax						250,000	200,000	300,000	200,000	210,000	200,000	200,000	200,000	200,000	200,000
	Total				-	1,653,396	639,540	647,920	1,021,840	693,360	809,600	747,040	699,960	530,120	645,460	678,000
No	ote: This schedule does not include	all Townsh	nip Roads -	only those w	vith Capital	Improveme	nt plans in	the next 10	years.							
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	TAY VALLEY TOWNSHIP													
	10 YEAR CAPITAL PLAN													
	2020 TO 2029	Inflation =	2%											
		Repair/Repl	acement		1	2	3	4	5	6	7	8	9	10
BUILDIN	GS	Cost	Year	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
Year Aquir	ed													
2010	Municipal Office													
1973	Bathurst (Glen Tay) garage													
1973	Burgess Hall													
1973	Burgess Garage													
1884	Maberly Hall													
1973	Maberly Garage													
1995	Bathurst (Glen Tay) salt shed													
2010	SS Fire Hall													
2012	Burgess Salt Shed													
	ReUse Centre	50,000	2025							56,000				
				0	0	0	0	0	0	56,000	0	0	O) (
	Funding:													
	Reserve Funds			C	0	0	0	0	0	53,200	0	0	C) (
	Development Charges			C	0	0	0	0	0	2,800	0	0	C) (
	Total			С	0	0	0	0	0	53,200	0	0	С) (
				Note #1	Assume t	hat Deve	lopment C	harges can f	inance 5% of	f capital spe	nding			

	TAY VALLEY TOWNSHIP													
	10 YEAR CAPITAL PLAN													
	2020 TO 2029	Inflation =	2%											
		Repair/Repl	acement		1	2	3	4	5	6	7	8	9	10
Other A	Assets	Cost	Year	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
IT A	ssets													
	Computer Server 1 (shared)	20,000	2020		20,400									
	Computer Server 2	30,000	2025							33,600				
	Computer Work Stations	39,000	2024						42,900					
Reci	reation Assets													
	Tennis Court, Outdoor Rinks, Playgound Equip	75,000	2023					81,000						
	Ball Diamonds													
	Otty Lake Boat Launch	40,000	2021			41,600								
	Solar Farm Trail	125,000	2020		127,500									
Was	ste Site Assets													
	Waste Compactor 1	50,000	2024						55,000					
	Waste Compactor 2	50,000	2029											60,000
	Waste Compactor 3													
				0	147,900	41,600	0	81,000	97,900	33,600	0	0	0	60,000
	Funding:													
	Reserve Funds			0	30,505	39,520	0	76,950	93,005	31,920	0	0	0	57,000
	Grant				110,000									
	Development Charges			0	7,395	2,080	0	4,050	4,895	1,680	0	0	0	3,000
	Total			0	147,900	41,600	0	81,000	97,900	33,600	0	0	0	60,000
Notes:	The receation Master Plan could have significant e	ffects on these	e capital pla	ans										
	The Township priority session could also have sign	nificant effects	on these fu	ıture capita	l plans									

TAY VALLEY TOWNSHIP												2020
10 YEAR CAPITAL PLAN		RESERV	ES									Budget
2020 TO 2029												Contribution
	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	Change
PW Equipment Reserve												
Opening	491,155	297,655	202,885	210,085	111,865	258,297	(15,431)	115,947	(63,866)	194,588	65,861	
Annual Contribution	206,800	225,000	229,500	234,090	238,772	243,547	248,418	253,387	258,454	263,623	268,896	18,200
Annual Spending	(400,300)	(319,770)	(222,300)	(332,310)	(92,340)	(517,275)	(117,040)	(433,200)	0	(392,350)	(28,500)	
Closing	297,655	202,885	210,085	111,865	258,297	(15,431)	115,947	(63,866)	194,588	65,861	306,257	
Bridge Construction												
Opening	604,436	414,936	546,476	450,712	245,744	297,479	411,136	67,965	49,492	3,294	184,901	
Annual Contribution	129,500	155,000	158,100	161,262	164,487	167,777	171,133	174,555	178,046	181,607	185,239	25,500
Annual Spending	(319,000)	(23,460)	(253,864)	(366,230)	(112,752)	(54,120)	(514,304)	(193,028)	(224,244)	0	0	
Closing	414,936	546,476	450,712	245,744	297,479	411,136	67,965	49,492	3,294	184,901	370,141	
Road Construction												
Opening	594,658	534,670	603,282	617,818	388,394	372,971	275,175	233,134	246,114	415,138	491,046	
Annual Contribution	287,500	380,000	387,600	395,352	403,259	411,324	419,551	427,942	436,501	445,231	454,135	92,500
Annual Spending	(347,488)	(311,388)	(373,064)	(624,776)	(418,682)	(509,120)	(461,592)	(414,962)	(267,476)	(369,323)	(409,640)	
Closing	534,670	603,282	617,818	388,394	372,971	275,175	233,134	246,114	415,138	491,046	535,541	
Federal Gas Tax												
Opening	710,804	282,300	204,155	183,821	63,487	50,965	28,443	15,943	10,943	5,943	8,743	
Annual Contribution	349,296	171,855	179,666	179,666	187,478	187,478	187,500	195,000	195,000	202,800	202,800	
Annual Spending	(777,800)	(250,000)	(200,000)	(300,000)	(200,000)	(210,000)	(200,000)	(200,000)	(200,000)	(200,000)	(200,000)	
Closing	282,300	204,155	183,821	63,487	50,965	28,443	15,943	10,943	5,943	8,743	11,543	
Development Charge Reserve												
Opening	408,818	296,618	294,241	305,605	291,051	307,463	284,863	288,775	280,977	318,333	321,546	
Annual Contribution	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	
Annual Spending	(162,200)	(52,377)	(38,636)	(64,554)	(33,588)	(72,600)	(46,088)	(57,798)	(12,644)	(46,787)	(22,860)	
Closing	296,618	294,241	305,605	291,051	307,463	284,863	288,775	280,977	318,333	321,546	348,686	
Builindgs = Township Office/Ga	arage + Burg	ess Hall/G	arage + She	rbrooke G	arage + Salt	: Sheds + M	laberley Ha	ıll + SS Fire	Dept Rese	rves		
Opening	326,410	322,710	354,010	385,310	416,610	447,910	479,210	563,710	595,010	626,310	657,610	
Annual Contribution	151,300	31,300	31,300	31,300	31,300	31,300	31,300	31,300	31,300	31,300	31,300	(120,000)
Annual Spending	(155,000)	0	0	0	0	0	53,200	0	0	0	0	
Closing	322,710	354,010	385,310	416,610	447,910	479,210	563,710	595,010	626,310	657,610	688,910	
Other Assets = Office Equip + W	/aste Sites +	- Cemetery	+ Recreation	on Equipm	ent Reserv	es						
Opening	121,228	71,328	79,923	79,503	118,603	80,753	26,848	34,028	73,128	112,228	151,328	
Annual Contribution	39,100	39,100	39,100	39,100	39,100	39,100	39,100	39,100	39,100	39,100	39,100	0
Annual Spending	(89,000)	(30,505)	(39,520)	0	(76,950)	(93,005)	(31,920)	0	0	0	(57,000)	
Closing	71,328	79,923	79,503	118,603	80,753	26,848	34,028	73,128	112,228	151,328	133,428	16,200

10 YEAR CAPITAL PLAN							
2020 TO 2029	Con	verting	Gravel Roads to Su	urfa	ce Treati	ner	nt
Dood	F				Length	ES	timated
Road	Narrows Lo		To Elm Grove Rd		(km) 4.9	\$	Cost
Long Lake Rd					3.6	<u>ې</u> \$	588,000
Miners Point Rd	Narrows Lo Dokken	оск ка	Bass Bay Rd Bathurst 7th Conc.			<u> </u>	432,000
McVeigh Rd					4.4	-	528,000
McVeigh Rd	Doran Rd		Dokken		3.7	\$	444,000
Doran Rd	Hwy 7		McViegh Rd		1.3	\$	156,000
Bathurst 5th	Hwy 7		Harper Rd		5.5	\$	660,000
Bathurst 5th	Harper Rd		Hwy 511		3.9	\$	468,000
Tota	al .					\$3	,276,000
		_					
	_	stimate					
Item	Unit P		Quantity		Price		
Geotextile Blanket	\$	0.30	6000	\$	1,800		
Granular B	\$	14.00	2728	\$	38,192		
Granular A	\$	14.00	2728	\$	38,192		
Double Surface Treatment	\$	5.50	6000	\$	33,000		
Fog Seal	\$	1.25	6000	\$	7,500		
			Total Price Per Km	\$	118,684		
			Rounded	\$	120,000		
NOTE: Staff have selected 5	of what we w	vould cor	nsider our busiest gra	avel	roads in t	he t	ownship
as candidates for surface trea	atment, but i	f Council	chooses to select a r	oac	l not on th	e lis	st, it is
around \$120,000 per km assu	ming the roa	d width i	s sufficient and all o	fthe	eundergro	oun	d
infrastructure is in good cond	dition (culver	ts).					

TAY VALLEY TO	WNSHIP													
10 YEAR CAPITAL	PLAN													
2020 TO 2029		Assuming and Upg	rading Un	-Assu	med Roads									
Road Name	From	То	Length (km)		t for Gravel Videning Rq)	_	ost for Gravel Videning Rq)	Trea	Surface tment CB)	Cost	for Asphalt (HCB)	Year Operatio (Grav	n Cost	Yearly Operation Cost (LCB/HCB)
Burke Lane	Old Burke Road	Pine Lane	2.08	\$	104,000	\$	395,200	\$	291,200	\$	395,200	\$	11,648	\$ 9,568
Cherle Hill	Glen Drive	Dead End	0.6	\$	30,000	\$	114,000					\$	3,360	
Christie Lake North Shore Road	Christie Lake North Shore Road	Dead End	0.28	\$	14,000	\$	53,200					\$	1,568	
Christie Lane	Christie Lake North Shore Road (CLNSR to #117)	Dead End	0.1	\$	5,000	\$	19,000					\$	560	
	Armstrong Line	Dead End	1.96	\$	98,000	\$	372,400					\$	10,976	
Clear Lake Lane 31A	Clear Lake Lane 31 from #325	#542	0.27	\$	13,500	\$	51,300					\$	1,512	
Cooper Drive	Narrows Lock Road (CR #14)	#641	0.62	\$	31,000	\$	117,800					\$	3,472	
Killarney Lane	Christie Lake Road (CR#6)	Dead End	0.2	\$	10,000	\$	38,000					\$	1,120	
Lakeshore Boulevard	Miner's Point Road (private	Miner's Point Road	0.43	\$	21,500	\$	81,700					\$	2,408	
Little Silver Lake Road	Bolingbroke Road (CR #36)	Dead End	1.94	\$	97,000	\$	368,600					\$	10,864	
Maple Lane	Bolingbroke Road (CR #36)	Dean End	0.17	\$	8,500	\$	32,300	\$	23,800	\$	32,300	\$	952	\$ 782
McKay Farm Road	Elm Grove Road (CR #21)	Drummond/North Elmsley)	0.35	\$	17,500	\$	66,500					\$	1,960	
Meadow Lane Court	Burke Lane	Dead End	0.53	\$	26,500	\$	100,700	\$	74,200	\$	100,700	\$	2,968	\$ 2,438
Miller Bay Road	Elm Grove Road (CR #21)	Boat Ramp	0.23	\$	11,500	\$	43,700					\$	1,288	
Miners Point Road	Miner's Point Road	Dead End	2.81	\$	140,500	\$	533,900					\$	15,736	
Oak Court	Pine Lane	Dead End	0.15	\$	7,500	\$	28,500	\$	21,000	\$	28,500	\$	840	\$ 690
Oak Road	Red Pine Road	Cul de sac	0.19	\$	9,500	\$	36,100	\$	26,600	\$	36,100	\$	1,064	\$ 874
Old Mine Road	McVeigh Road	Dead End	0.3	\$	15,000	\$	57,000					\$	1,680	
	Scotch Line (CR #10)	Dead End	0.2	\$	10,000	\$	38,000					\$	1,120	
Pine Lane	Burke Lane	Scott Court	1.71	\$	85,500	\$	324,900	\$	239,400	\$	324,900	\$	9,576	\$ 7,866
J	Elm Grove Road (CR #21)	Dead End	0.46	\$	23,000	\$	87,400					\$	2,576	
Pond Lane	Pond Road	Cul de sac	0.25	\$	12,500	\$	47,500	\$	35,000	\$	47,500	\$	1,400	\$ 1,150
Pond Road	Red Pine Road	Cul de sac	0.65	\$	32,500	\$	123,500	\$	91,000	\$	123,500	\$	3,640	\$ 2,990
Rainbow Lane	Bolingbroke Road (CR #36)	Cul de sac	1.33	\$	66,500	\$	252,700					\$	7,448	
Rainbow Lane A	Rainbow Lane	Dead End	0.54	\$	27,000	\$	102,600					\$	3,024	
Rainbow Lane B	Rainbow Lane	Dead End	0.02	\$	1,000	\$	3,800					\$	112	
Red Pine Lane	Red Pine Road	Cul de sac	0.94	\$	47,000	\$	178,600	\$	131,600	\$	178,600	\$	5,264	\$ 4,324
Red Pine Road	Bolingbroke Road (CR #36)	Dead End	0.32	\$	16,000	\$	60,800	\$	44,800	\$	60,800	\$	1,792	\$ 1,472
Scott Court	Burke Lane	Dead End	0.69	\$	34,500	\$	131,100	\$	96,600	\$	131,100	\$	3,864	
	Crow Lake Road	Dead End	1.9	\$	95,000	\$	361,000					•	10,640	
Silvery Lane	Bolingbroke Road (CR #36)	Dead End	2.1	\$	105,000	\$	399,000	Ļ					11,760	\$ 9,660
Totals				\$	1,216,000	\$	4,620,800	\$	1,075,200	\$	1,459,200	\$ 1	36,192	\$ 41,814

Where the cells are highlighted green, blue and red, the existing road base is "pretty good" and therefore widening is not required. In this case there are 3 options for consideration.

1)- apply a lift of gravel and assume the road as a gravel road, 2)- upgrade the road to a surface treated road and assume it and 3)- upgrade the road to an asphalt road and assume it.

Where the cell is highlighted orange, the existing road base is insufficient and only one option is recommended. This is to widen the road and assume it as a gravel road.

IMPORTANT = None of the above costs are currently built into the 10 year Capital Plan.