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FOR THE MEETING OF THE FINANCE AND ADMINISTRATION COMMITTEE  
TO BE HELD ON **TUESDAY, APRIL 16, 2019 AT 6:00 P.M.**  
IN THE **COUNCIL CHAMBER**, TOM DAVIES SQUARE

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**ADDENDUM (RESOLUTION PREPARED)**

*(Two-Thirds Majority Required to Deal with the Addendum)*

**DECLARATIONS OF PECUNIARY INTEREST AND THE GENERAL NATURE THEREOF**

**CORRESPONDENCE FOR INFORMATION ONLY**

- ADD-1 Report dated April 15, 2019 from the General Manager of Growth and Infrastructure regarding the Allocation of Capital Funding for Local Roads and Spreader Laid Patches. 2-35  
**(FOR INFORMATION ONLY)**

(This report provides information regarding the Allocation of Capital Funding for Local Roads and Spreader.)

For Information Only



# Finance and Administration Committee



Type of Decision											
Meeting Date		April 16, 2019			Report Date		April 15, 2019				
Decision Requested			Yes	X	No	Priority		X	High		Low
		Direction Only				Type of Meeting			Open		Closed

Report Title
<b>Allocation of Capital Funding for Local Roads and Spreader Laid Patches</b>

Budget Impact/Policy Implication		Resolution	
X	This report has been reviewed by the Finance Division and the funding source has been identified.	For Information Only	
X		Resolution Continued	

<b>Recommended by the Department</b>	<b>Recommended by the C.A.O.</b>
 Name Title GM, Growth & Infrastructure	 Ed Archer Chief Administrative Officer
<b>Report Prepared By</b>	<b>Division Review</b>
 Name Title Director of Infrastructure Capital Planning	 Name Title

## Background

At the request of the Operations Committee on March 18, 2019, staff was directed to prepare a report which outlines the impacts and benefits of redirecting money allocated for local roads projects to large spreader laid asphalt patches.

This report will provide a brief overview of the history and reasons for of the funding of these programs, the methods of the selection, and the impact of the funding on the assets.

## Local Roads:

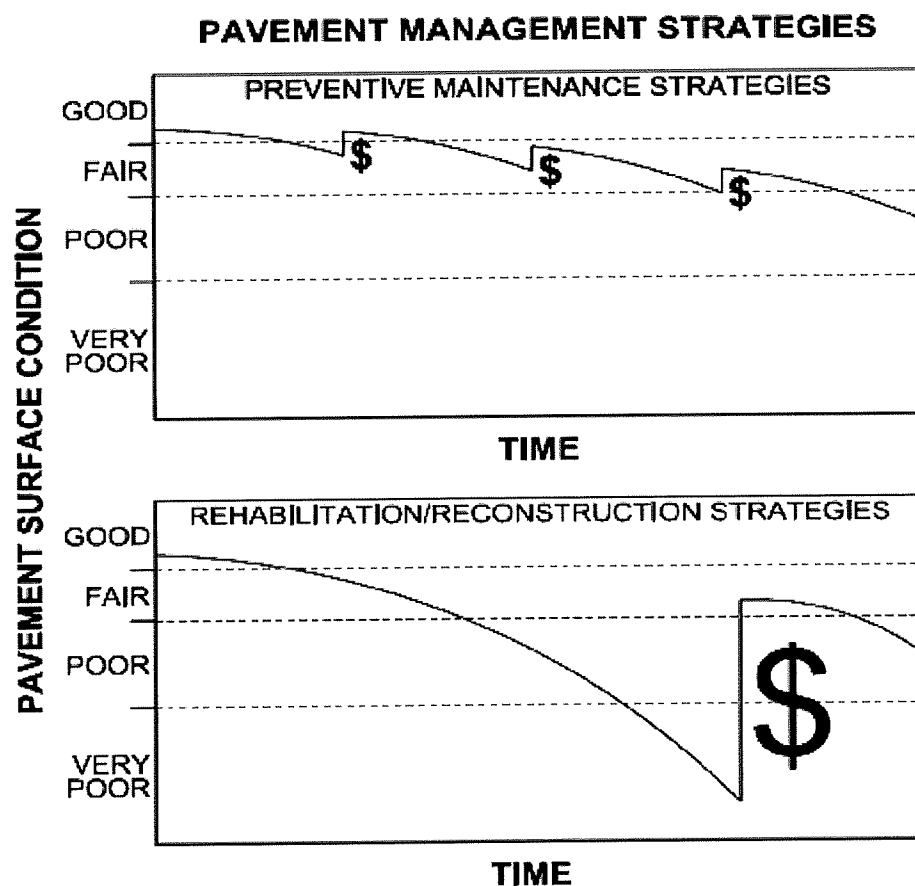
Capital project funding allocation under the previous envelope budgeting process was presented and adopted by council through a report prepared for the Priorities Committee dated February 26, 2009 and updated through a report prepared for the Operations Committee dated September 9, 2015. These reports set the target expenditure on local roads at 20% of the roads capital budget. The average annual expenditure on preventative maintenance strategies of local asphalt roads over the last several years has been approximately \$5 million. In preparation of the 2019 capital infrastructure plan, approximately \$5.1 million is allocated to local asphalt road projects which includes \$2.3 million for local road asset projects and \$2.8 million for local road and water/wastewater projects.

Funds were allocated to rehabilitation of local roads to maintain the local road pavement management program which prevents increased deterioration of the City's local road network. Roads selected under this program are roads that are in a condition such that maximum benefit from the program funding is achieved, i.e. the right treatment at the right time. The result of this strategy is that roads that have deteriorated significantly and require extensive repairs are not selected because this is not the most efficient use of the available funding. The Pavement Management Strategies indicated on the following page graphically demonstrates the two funding

strategies. The upper graph represents the benefit of using pavement management strategies compared to the lower graph which demonstrates the higher costs of replacing the asset when it is not maintained.

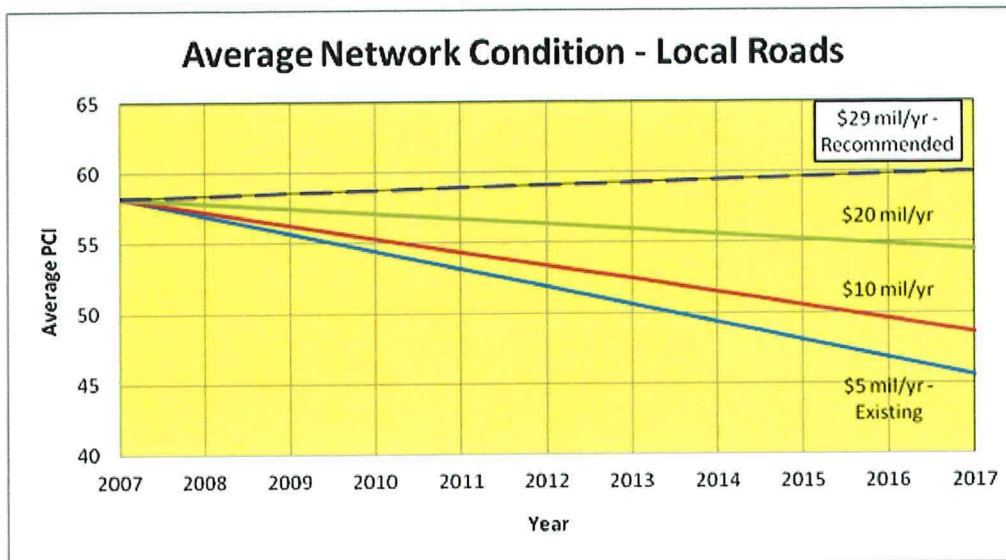
The Average Network Condition – Local Roads graph on the following page was included in a presentation to the Operations Committee on September 9, 2015. This graph demonstrates the effect of various levels of funding of the local road network over time. In 2016 the average PCI of the local road network was measured to be 43. This value is slightly lower than that predicted from the graph but demonstrates that our pavement management program has provided us with a reasonable method of prediction of the road system condition based on annual funding.

The annual recommended investment in local roads indicated on the graph is \$29 million. This aligns closely with our current estimation. For additional information on funding of the roads program, please refer to Appendix A, KPMG Report dated July 10, 2012 titled Financial Planning for Municipal Roads, Structures and Related Infrastructure.



Notes:

Graph Source: VTrans Pavement Management Annual Report 2009.  
Each \$1 spent during the first 40% drop in quality will cost \$4 to \$5 if delayed until the pavement loses 80% of its original quality (Source: World Bank).



### Spreader Laid Asphalt Patches:

The work completed under the Spreader Laid Patches contract has been considered a maintenance activity with Roads Operations staff selecting the patch locations in areas that have required significant maintenance resources. In many instances, the areas selected would be sections of road that have deteriorated beyond the point where effective pavement management treatments would be considered economically efficient. In these cases, the spreader laid patches are considered to be a temporary treatment until such time funding becomes available to repair the road surface and substructure.

The work of this contract could potentially be used for resurfacing of sections of road which would significantly benefit from this type of treatment. For example, in areas where maintenance staff have noted surface asphalt delamination that has not yet been measured by the pavement management program, the asphalt could be repaired to significantly extend the life of the road if the road substructure is in good condition. Although City staff do not currently have detailed information on the performance of spreader laid patches we have observed an above average patch performance in areas of native granular soils such as sections of MR80 and Capreol Road.

The current proposed funding in 2019 for large asphalt patches is \$5.1 million which is approximately double the maximum program funding provided in recent years.

### Funding Allocation for Local Roads and Spreader Laid Patches:

It is difficult to prioritize between the local roads pavement management program and the spreader laid patches contract. Funds spent on the local roads will save future expenditures on more costly local road construction projects. Funds spent on spreader laid patches will provide a shorter term benefit in providing smoother driving surfaces

but will not necessarily realize the benefit of constructing the right treatment at the right time.

It would be our recommendation at this time to continue with the proposed local road program in 2019. This work is aligned with the program that has been in progress for several years and has demonstrated that the pavement management program results generally support the predicted condition of the network. Funds spent in 2019 to reduce future spending on our roads assets is an efficient use of our funds.

The \$5.1 million currently proposed in 2019 for the spreader laid patches is significantly more than proposed in previous years. It would be our recommendation to maintain this funding to enable staff and contractors to execute this relatively large program as proposed. When the spreader laid patches contract is complete, we can reassess the execution of the contract, the condition of the high maintenance areas, our ability to potentially use these funds for surface improvements where the road substructure is sound and determine if increasing the funding of this program is an efficient use of our road network funds.





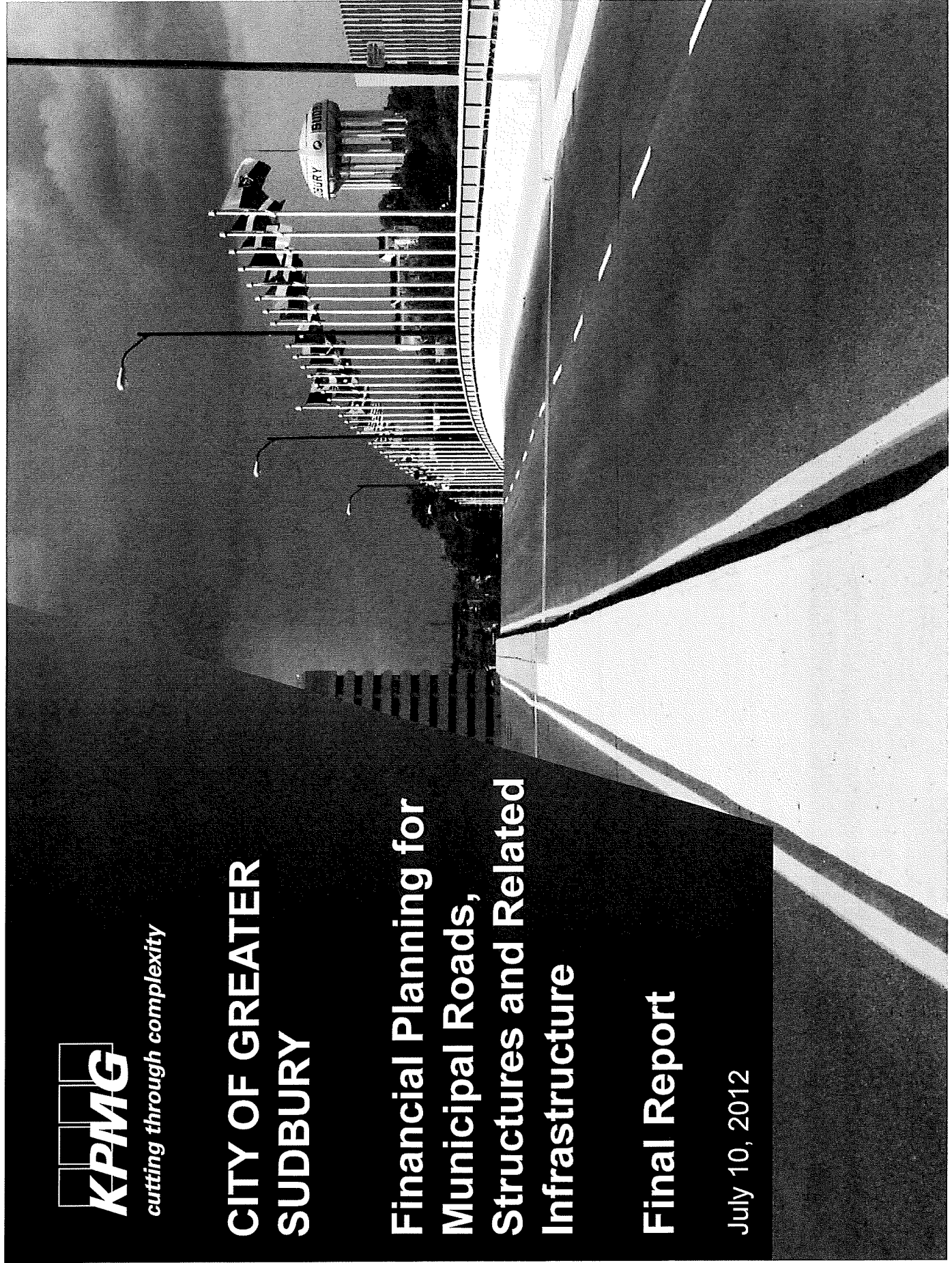
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# CITY OF GREATER SUDBURY

## Financial Planning for Municipal Roads, Structures and Related Infrastructure

### Final Report

July 10, 2012



# Financial Planning for Roads

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# Financial Planning for Roads

## Executive Summary

With a total area of over 3,600 square kilometres, the City of Greater Sudbury (the “City”) and its predecessor municipalities have invested heavily in the municipal road network and related infrastructure. Overall, the City maintains approximately 3,600 lane kilometres of roadways, the equivalent of a single lane highway connecting Greater Sudbury to the US-Mexican border at El Paso, Texas.

Total spending on the City’s road network during 2012 (operating and capital) is expected to amount to \$75 million, representing the largest single expense item for the City and accounting for 13% of the total municipal budget. The significance of the municipal road network is also demonstrated by the investment in the underlying infrastructure. With a historical cost of \$1.1 billion and estimated replacement cost of \$3.0 billion, the municipal road network represents the largest single asset class for the City.



With the implementation of accounting for tangible capital assets, municipalities, including the City, have a better understanding of the cost and investment requirements associated with their infrastructure, allowing for enhanced planning for the funding and rehabilitation of key infrastructure components. The City has already introduced sustainable capital asset management for its water and wastewater services, increasing the amount of capital funding in response to impending needs. This financial plan outlines a similar strategy for the City’s road network.

Prepared in conjunction with staff from the City’s Infrastructure and Financial Services Divisions, the financial plan for roads is intended to address a growing infrastructure and operational deficit, one that manifests itself through an increasing deterioration of the City’s road network. In 2012, the City will spend approximately \$35 million on capital expenditures for roads, compared to the estimated \$75 million that it is required to invest in order to maintain the road network at the recommended standard. The gap between actual and required spending has resulted in an immediate roads infrastructure deficit of approximately \$700 million, with a further \$570 million to be required on existing infrastructure over the next ten years. In addition, new infrastructure requirements arising from growth amount to a further \$241 million.

The financial plan recognizes that the magnitude of the roads infrastructure deficit cannot be addressed in a short timeframe. Rather, the financial plan considers a ten year phase-in period during which the City will increase funding for capital purposes by \$7 million per year each year to deal with the infrastructure shortfall, with an additional \$4 million invested in summer roads maintenance over five years. The increase in financial resources contemplated under the financial plan will allow the City to reduce its maintenance cycle from the current 83 years to approximately 40 years, which is a much closer reflection of the useful life of the road network. While the City intends to continue its efforts to secure support from senior levels of government for reinvestment in its roads network, the financial plan anticipates that, in the absence of senior government assistance, the City would be required to increase the municipal levy by 3.3% to 3.5% each year over the next ten years to fund its operating and capital requirements associated with roads.

## Financial Planning for Roads Background to the Study

During 2011, the City completed a ten year financial plan for water and wastewater services. While the impetus for the plan was Provincial licensing requirements, it represented the continuation of the City's efforts to appropriately address its infrastructure issues for water and wastewater services, which began with the implementation of sustainable capital asset management for water and wastewater services in 2001.

The completion of the financial plan for water and wastewater services was made possible through the adoption of tangible capital asset accounting by the City, which reflected a change in accounting policies for Canadian municipalities. For the first time in many years, municipalities have a perspective on the historical cost of their underlying infrastructure which, when combined with other elements such as useful life and replacement values, form the basis for effective asset management, recognizing that effective asset management involves not only the acquisition of assets, but also their maintenance and eventual replacement.

In recognition of the value of long-term financial planning, as well as concerns over the sufficiency of funding for both operating and capital requirements associated with its road network and related infrastructure (structures, signage, streetlights, storm sewers), the City has embarked on the preparation of a financial plan for the municipal road network and has retained KPMG to assist City staff with the development of the financial plan.

The financial plan outlined in this document is intended to assist Council and City staff to achieve a level of annual financing that will provide sustainability for the municipal road network. For the purposes of the financial plan, sustainability is defined as the condition whereby the level of financial resources allocated to roads is sufficient to provide for the recommended level of operational maintenance as well as the required capital reinvestment in the roads infrastructure.

It is important to recognize that the financial plan is simply that – a plan. It does not represent a binding multi-year budget and Council retains the authority and responsibility to establish budgets and tax rates on an annual basis, which may vary from those outlined in the financial plan.

In addition to this introductory section, the financial plan includes:

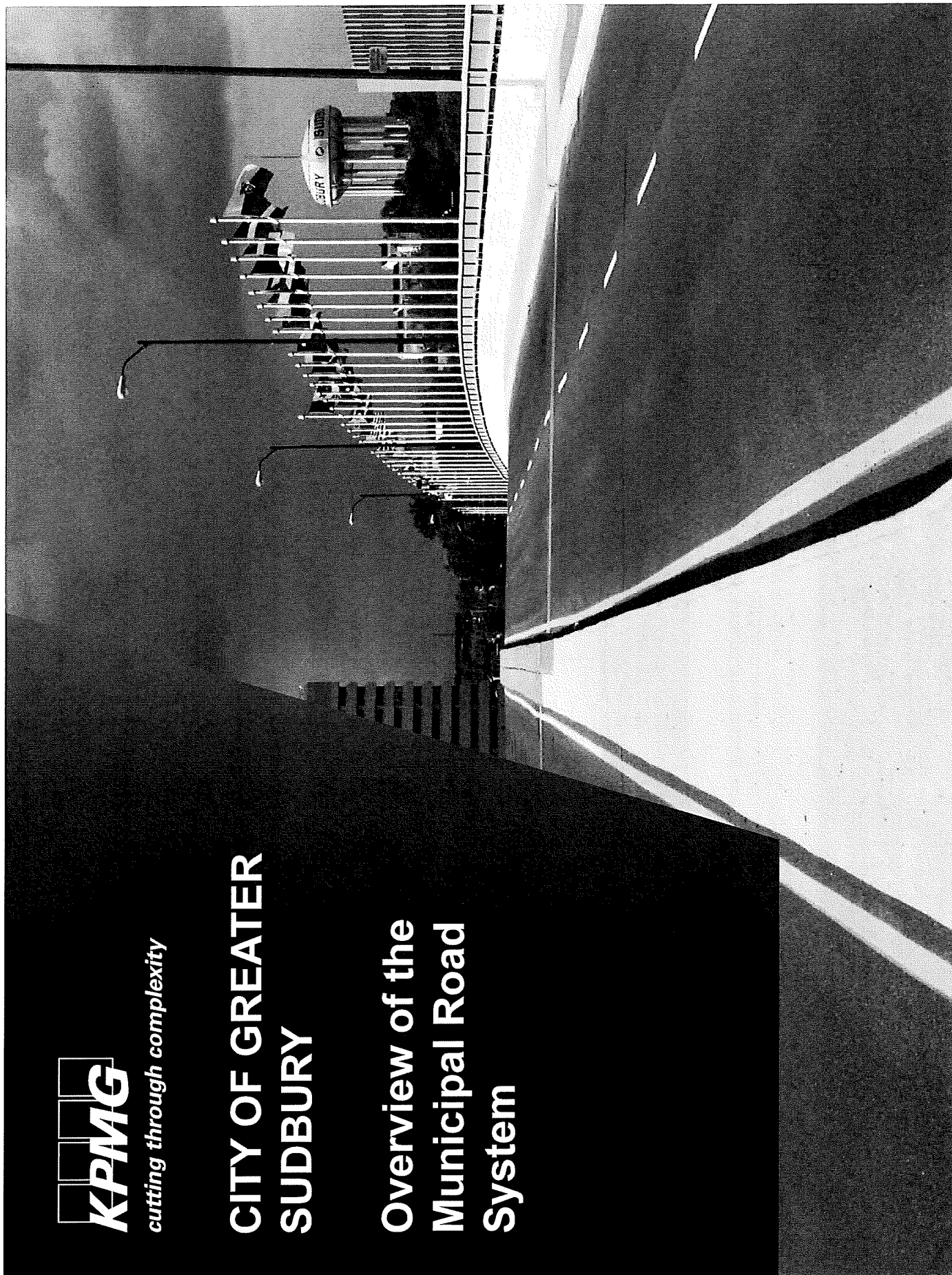
- An overview of the City's road network
- An analysis of historical and budgeted road expenditures (operating and capital)
- Observations concerning key challenges facing the City from a roads perspective
- An overview of the financial planning process, including key assumptions and outcomes



*cutting through complexity*

## CITY OF GREATER SUDBURY

### Overview of the Municipal Road System



# Overview of the Municipal Road System

## Roads Categories

For the purposes of managing its road network, the City has categorized municipal roads into three groups – arterial, collector and local – based on traffic volumes, speeds and other considerations, with local roads representing the majority (62%) of all roads in Greater Sudbury. In addition, the City's road network is also classified by type of construction, with asphalt surfaced roads representing two-thirds of all roads infrastructure in the City (based on total lane kilometres<sup>1</sup>).

Category	Characteristics	Lane kilometres				% of Total Road Network	Examples
		Asphalt	Surface Treatment	Gravel	Total		
Arterial roads	<ul style="list-style-type: none"> <li>Moderate to high traffic volumes</li> <li>Medium to high speed</li> <li>Two to six lanes</li> <li>Limited to no on-street parking</li> <li>Limited or controlled direct access</li> </ul>	741	–	–	741	20.8%	Paris Street Garson-Falconbridge Road Barry Downe Road
Collector roads	<ul style="list-style-type: none"> <li>Low to moderate traffic volumes</li> <li>Medium speed</li> <li>Two to four lanes</li> <li>Controlled on-street parking</li> <li>Direct access (normally controlled)</li> </ul>	616	–	–	616	17.3%	Errington Street (Chelmsford) Southview Drive Auger Avenue
Local roads	<ul style="list-style-type: none"> <li>Low traffic volumes</li> <li>Low speed</li> <li>Two lanes</li> <li>On-street parking</li> <li>Uncontrolled direct access</li> </ul>	985	601	618	2,204	61.9%	Baker Street Laura Avenue Michael Street
<b>Total</b>		<b>2,342</b>	<b>601</b>	<b>618</b>	<b>3,561</b>	<b>100.0%</b>	
<b>Percentage of total</b>		<b>65.8%</b>	<b>16.9%</b>	<b>17.3%</b>	<b>100.0%</b>		

<sup>1</sup> A lane kilometre refers to one kilometre of single lane roadway. One kilometre of two lane road represents two lane kilometres, while five kilometres of four lane road represents 20 lane kilometres (four lanes x five kilometres = 20 lane kilometres).

## Overview of the Municipal Road System

# Assessing the Physical State of Greater Sudbury's Roads

Since 2000, the City has also classified its road network based on a Pavement Condition Index ("PCI"), which ranks roads based on four factors – structural cracking, non-structural cracking, rutting and roughness. Based on the PCI, roads can be assigned one of five rankings ranging from excellent to very poor, as noted below.

Category	PCI Score		Description
	Low	High	
Excellent	85	100	Sound pavement with few defects perceived by drivers
Good	60	85	Slight rutting and/or cracking and /or roughness that is noticeable to drivers
Fair	40	60	Multiple cracks are apparent and/or rutting may pull at the wheel and/or roughness necessitates drivers to make minor steering corrections
Poor	25	40	Significant cracks may cause potholes and/or rutting pulls at the vehicles and/or roughness is uncomfortable to occupants. Drivers may need to correct steering to avoid road defects.
Very poor	0	25	Significant cracks with potholes and/or rutting pulls at the vehicle and/or roughness is uncomfortable to occupants. Drivers will need to correct steering to avoid road defects.



## Overview of the Municipal Road System

### Assessing the Physical State of Greater Sudbury's Roads (continued)

While PCI provides an indication as to the current condition of the municipal road network, it also provides a framework for prioritizing capital spending. Guidance provided by the Ontario Good Roads Association attempts to link PCI to the timing and nature of capital spending on roads, recognizing that municipalities will adopt their own standards.

	Arterial	Collector	Local
Road condition is adequate	PCI > 85	PCI > 80	PCI > 80
Improvement required within six to 10 years	PCI of 76 to 85	PCI of 71 to 80	PCI of 66 to 80
Improvement required within one to five years	PCI of 56 to 75	PCI of 51 to 70	PCI of 46 to 65
Immediate rehabilitation	PCI of 50 to 55	PCI of 45 to 50	PCI of 40 to 45
Immediate reconstruction	PCI < 50	PCI < 45	PCI < 40

The most recent PCI rankings indicate that just over half of the City's road network is in either excellent or good condition. However, arterial and collector roads are in generally better condition than local roads. Two-thirds of arterial and collector roads is ranked as excellent or good as compared to 42% of local roads. Overall, the average PCI for the City's road network is in the order of 65 for arterial and collector roads and 57 for local roads<sup>1</sup>.

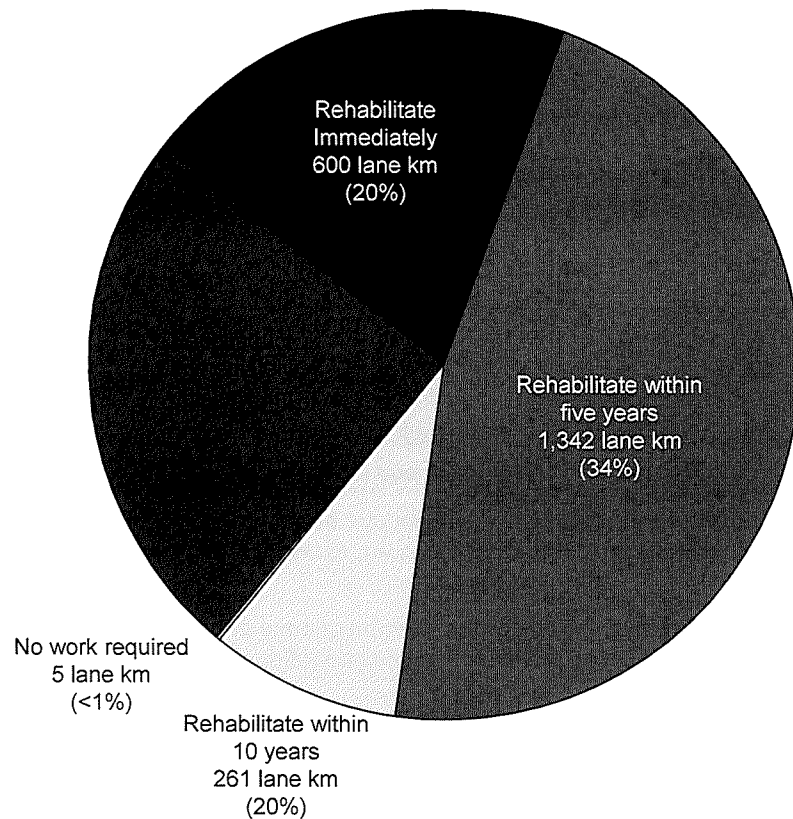
Category	PCI Index		Lane Kilometres				Percentage of Total
	From	To	Arterial	Collector	Local	Total	
Excellent	85	100	39	–	4	43	1.5%
Good	60	85	702	177	659	1,538	52.3%
Fair	40	60	–	399	729	1,128	38.3%
Poor	25	40	–	39	173	212	7.2%
Very poor	0	25	–	1	21	22	0.7%
Total – asphalt and surface treatment			741	616	1,586	2,943	100.0%
Gravel						618	
Total						3,561	

# Overview of the Municipal Road System

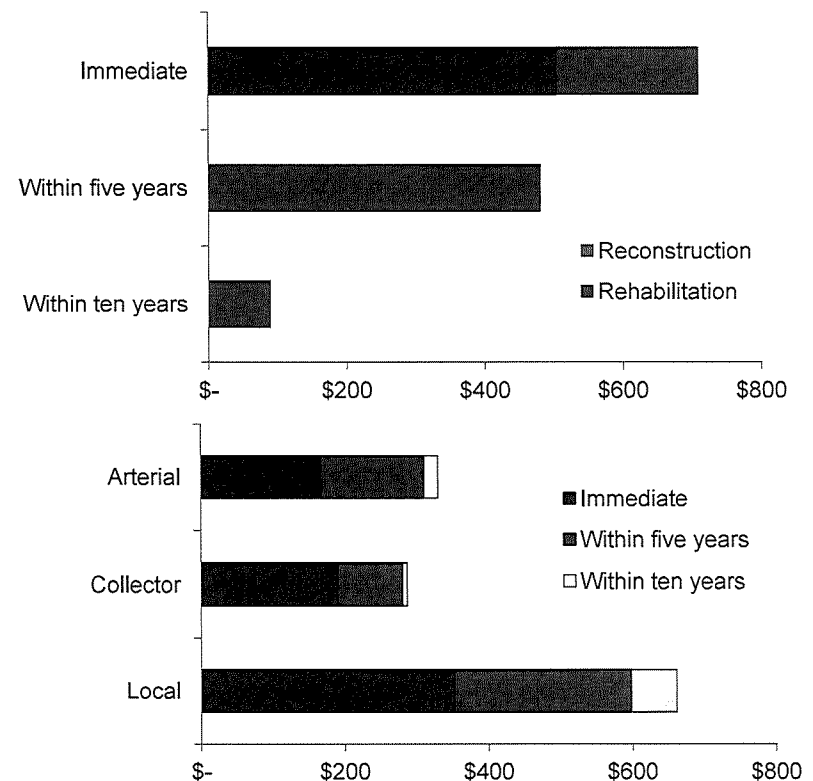
## Assessing the Physical State of Greater Sudbury's Roads (continued)

Application of the guidance provided by the Ontario Good Roads Association to the City's municipal road network in 2009 identifies an immediate infrastructure deficit (representing roads that are considered to be in immediate need of rehabilitation or reconstruction) of approximately \$700 million, with an additional \$480 million and \$90 million in capital reinvestment required over the next five years. While the City has invested significantly in road infrastructure since 2009, the magnitude of this infrastructure deficit likely has not changed significantly as the ongoing aging of roads continues to add to the investment requirement.

*Calculated capital investment requirement in 2009 (in lane kilometres)*



*Calculated capital investment requirement in 2009 (in millions of dollars)*



## Overview of the Municipal Road System

### Road Expenditures and Funding

The 2012 municipal budget anticipates just under \$75 million in spending on roads, comprised of \$38 million in operating costs and \$37 million in capital. Overall, road expenditures in 2012 are approximately 2.5% lower than the 2011 budgeted amounts, reflecting decreases in both operation and capital expenditures.

The municipal levy represents the largest source of funding for roads costs, amounted to over 80% of total revenues. Other funding sources for roads are primarily capital in nature and include Federal Gas Tax revenues, reserve contributions and advances from future years' capital envelopes.

#### Summary of roads expenditures and revenues<sup>1</sup>

(in thousands)	2011 Budget		2012 Budget	
	Amount	Percentage	Amount	Percentage
Winter roads maintenance	\$15,294	20.0%	\$15,298	20.5%
Summer roads maintenance	\$14,522	19.0%	\$14,036	18.8%
Other costs	\$7,989	10.5%	\$8,252	11.1%
<b>Total operating expenditures</b>	<b>\$37,805</b>	<b>49.5%</b>	<b>\$37,586</b>	<b>50.4%</b>
Capital expenditures	\$38,619	50.5%	\$36,957	49.6%
<b>Total roads expenditures</b>	<b>\$76,424</b>	<b>100.0%</b>	<b>\$74,543</b>	<b>100.0%</b>

Municipal levy – operating purposes	\$36,555	47.8%	\$36,740	49.3%
Municipal levy – capital purposes	\$24,017	31.4%	\$24,498	32.9%
Gas tax grants	\$8,072	10.6%	\$7,960	10.7%
Other capital revenues	\$6,530	8.5%	\$4,499	6.0%
Other operating revenues	\$1,250	1.7%	\$846	1.1%
<b>Total revenues</b>	<b>\$76,424</b>	<b>100.0%</b>	<b>\$74,543</b>	<b>100.0%</b>

<sup>1</sup> Budgeted information for 2012 does not include the announced \$15 million contribution from Vale Canada Limited for the Municipal Road No. 4 capital project.

# Overview of the Municipal Road System

## Capital Reinvestment

As part of its capital budgeting process, the City has prepared a multi-year outlook that forecasts capital spending over a five year period (2012 to 2016). While the City plans to continue investment in the municipal road network, including increasing capital fund envelopes by the non-residential construction rate of inflation, the total planned capital expenditures over the next five years (\$172 million) represents only 7% of the calculated infrastructure requirements over the next five years for existing assets only (\$2.5 billion).

In addition to its planned expenditures, the City has identified new road and drainage projects that are currently unfunded, meaning that sufficient financing has not been allocated to the projects. The cost of these unfunded capital projects is currently estimated to be in the order of \$241 million. As these projects reflect new and not existing infrastructure, they are not included in the calculated infrastructure deficit.

### *Unfunded roads and drainage projects (2012 cost estimates)*

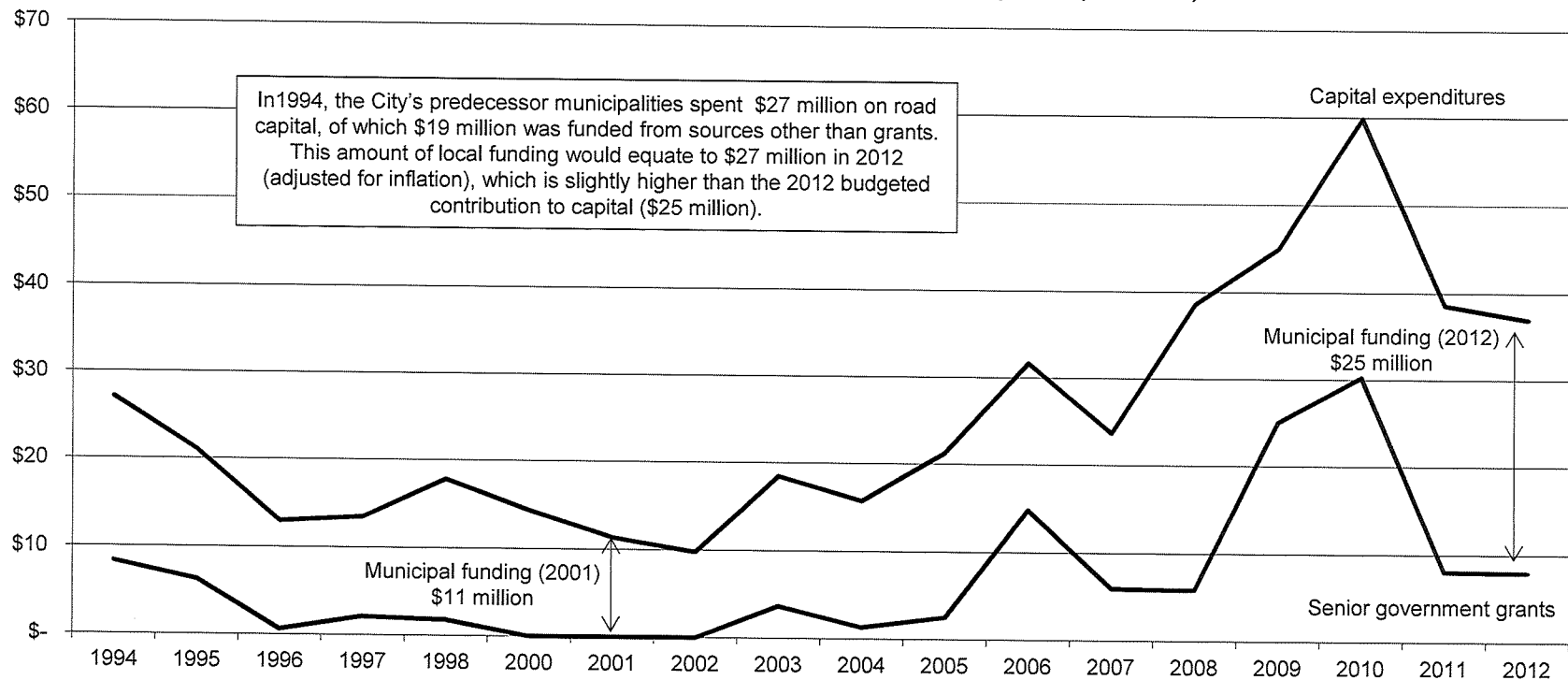
Project	Estimated Cost
<b>A. Maley Drive Extension</b>	
Total cost	\$115 million
Identified funding for Maley Drive extension	\$21 million
Maley Drive extension (unfunded component)	\$94 million
<b>B. Other Growth Related Projects</b>	
Municipal Road 35 widening (Azilda to Chelmsford)	\$29 million
Kingsway Boulevard realignment	\$25 million
Construction of new University link road	\$16 million
Notre Dame Avenue widening (Lasalle to Kathleen)	\$16 million
Lake Ramsey drainage system improvements	\$25 million
Junction Creek stormwater management	\$10 million
Other projects (each \$5 million or less)	\$26 million
Other capital projects	\$147 million
<b>Total identified unfunded capital projects</b>	<b>\$241 million</b>

## Overview of the Municipal Road System

### Historical Capital Expenditures and Grants

Historically, the level of capital expenditures available for roads and related infrastructure has been significantly influenced by the availability of grants from senior levels of government. In 1994, the predecessor municipalities spent a total of \$27 million on roads capital projects, including \$8 million in grants from senior levels of government. With the incorporation of conditional roads grants into municipal support grants in 1998, capital-specific grants for roads decreased to nil, with a corresponding reduction in capital expenditures by municipalities due to other external influences and financial pressures. Since that time, the City has significantly increase in capital expenditures for roads, due in large part to the availability of stimulus funding as well as the additional capital financing generated by the City's capital levy, both of which reflect the importance of roads infrastructure. The City's contribution to roads capital in 2012 is budgeted to be \$25 million, compared to \$11 million in 2001.

**Roads capital expenditures and grant revenues – City of Greater Sudbury and predecessor municipalities (in millions)**



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# Overview of the Municipal Road System

## Concerns and Challenges

As part of the financial planning process as well as other communications to Council, City staff have expressed concerns over the insufficiency of funding for the City's road network, both from an operational and capital perspective:

- Staff recommend that the City attempt to maintain an average PCI of 70 for arterial and collector roads, with an average PCI of 60 recommended for local roads. To achieve this standard, staff advised that total annual capital expenditures need to increase to \$65 million for arterial, collector and local roads, with additional funding required for drainage, structures, streetlights, signage and other components of the road network. As noted below, the capital budget for 2012 provides approximately 38% of the recommended roads funding on an overall basis, with arterial and collector roads receiving a higher percentage of the recommended funding (54%) than local roads (18%).

	Budgeted Expenditures (2012)	Recommended Expenditures	Difference	Percentage of Recommended Expenditures Provided
Arterial and collector roads	\$19.6 million	\$36.0 million	\$16.4 million	54.4%
Local roads	\$5.1 million	\$29.0 million	\$23.9 million	17.6%
<b>Total</b>	<b>\$24.7 million</b>	<b>\$65.0 million</b>	<b>\$40.3 million</b>	<b>38.0%</b>

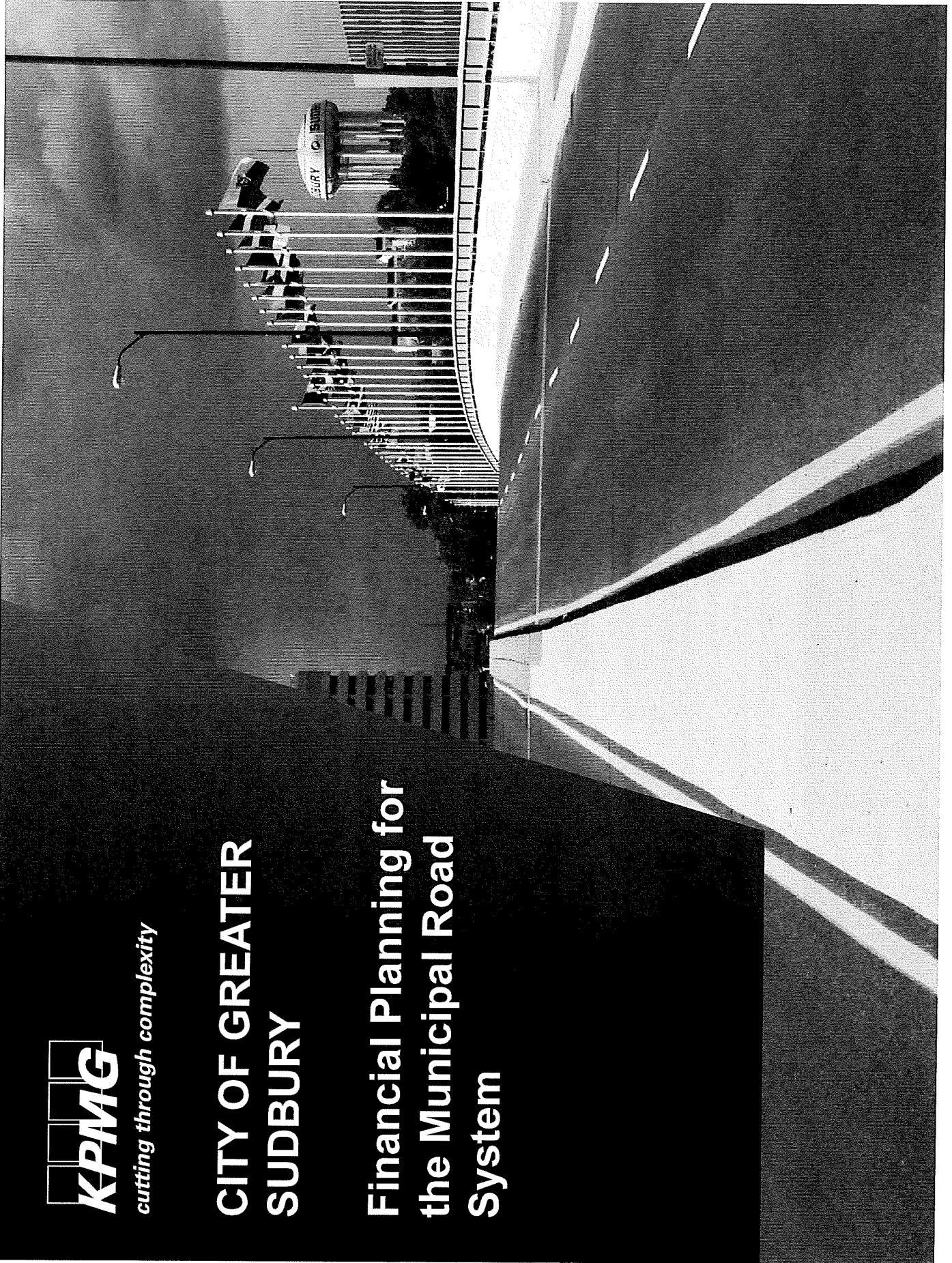
- In November 2011, City staff prepared a Zero Based Budget analysis for summer roads maintenance programs which indicated that a total of \$18.041 million would be required to staff's recommended standard of maintenance for roads, an increase of approximately \$4.0 million above the 2012 budgeted expenditures. The majority of this increase results from three specific changes to service levels:
  - Increasing the amount of asphalt patching undertaken by contractors from 8,000 m<sup>2</sup> per year (representing 0.08% of the municipal road network) to 25,000 m<sup>2</sup> per year (0.24%) +\$700,000
  - Decrease the cycle for gravel resurfacing from 80 years to 20 years +\$800,000
  - Increasing the frequency of catchbasin and manhole repairs from a 29 year cycle to a 20 year cycle and cleaning from a six year cycle to a two year cycle +\$1,000,000



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## CITY OF GREATER SUDBURY

### Financial Planning for the Municipal Road System



# Financial Planning for the Municipal Road System

## Key Assumptions

The financial plan for the City's road network considers a ten year planning period (2013 to 2022) and establishes as its starting point the City's 2012 budget (operating and capital). Recognizing the significance of future infrastructure investment requirements, the financial plan considers two scenarios:

- **Scenario 1** assumes that the City will adopt a sustainable capital asset management plan for roads whereby capital contributions will increase over a 10-year period until such time as the level of capital funding is sufficient to provide for sustainable reinvestment in road infrastructure. Additionally, this scenario assumes that the Maley Drive extension will be the only significant investment in growth-related infrastructure, with other growth-related projects deferred. The Maley Drive extension is forecasted to be funded through a combination of grants, capital fund contributions and debt financing, with the debt servicing cost reflected in the financial model.
- **Scenario 2** is based on the first scenario but assumes that additional growth infrastructure projects (with a total forecasted cost of \$146 million) will also be undertaken by the City. These additional growth infrastructure projects are forecasted to be financed through a combination of grants and debt, with the debt servicing cost reflected in the financial model.

For both scenarios, the following assumptions have been considered:

- Operating costs have been increased by 3% annually, which reflects the assumed rate of inflation.
- Summer maintenance costs have been projected to increase by an additional amount to reflect a gradual increase in service levels consistent with those identified in the Zero Based Budget scenario prepared by staff. For the purpose of the financial plan, we have assumed that the service level increases will be phased-in over a five year period (2013 to 2017).
- Excluding inflationary increases, no adjustments (positive or negative) have been made to winter maintenance costs to reflect changing climatic conditions. To the extent that surpluses or deficits are experienced, it is assumed that the City will utilize its existing winter roads maintenance reserves to compensate for the budgetary variances.
- No changes in the method of allocating administrative costs or internal recoveries have been considered in the financial plan.
- Operating expenditures have not been adjusted to reflect the forecasted increases in capital spending, which will require additional resources for project management and other administrative responsibilities.

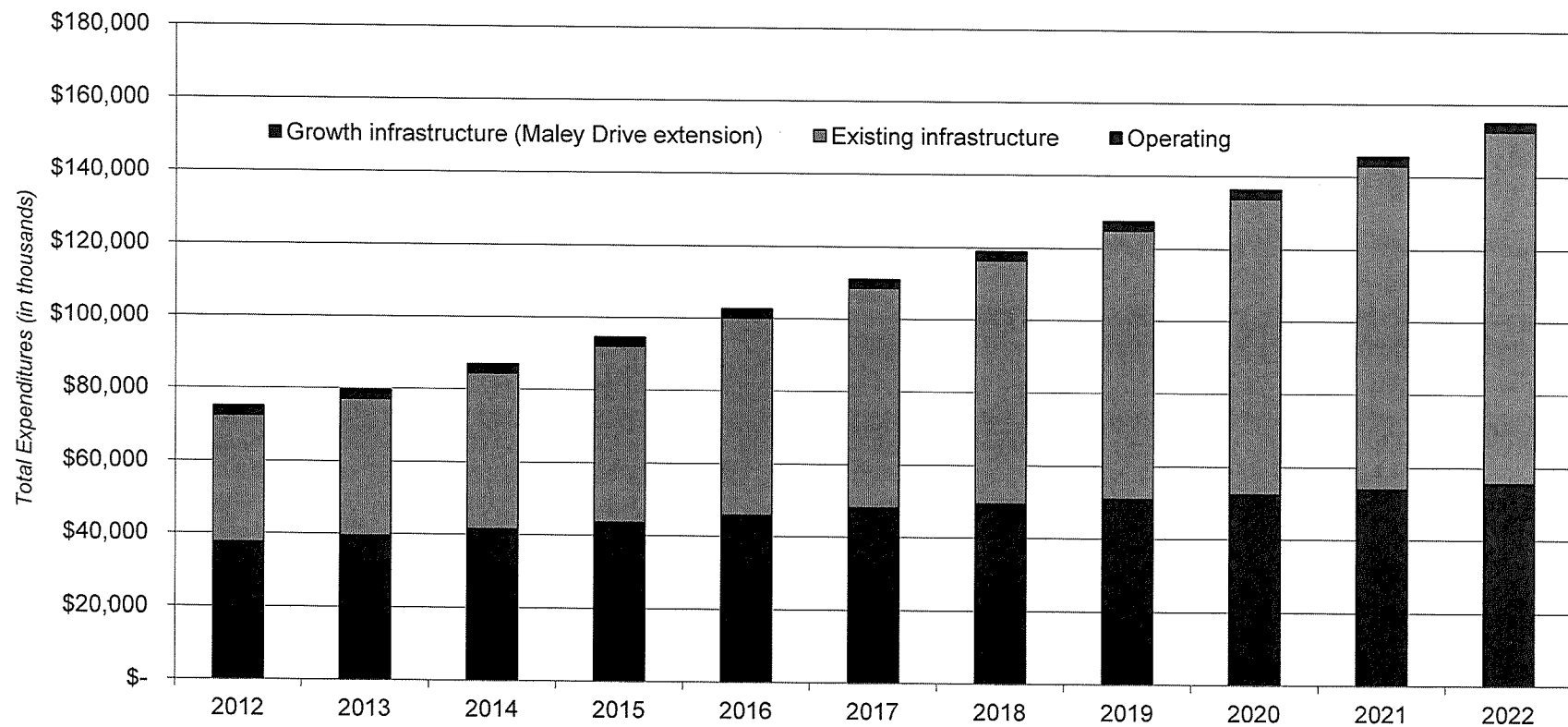
A summary of the financial plan is provided in the following pages, with detailed schedules included as appendices to this report.

## Financial Planning for the Municipal Road System

### Projected Road Costs – Scenario 1

The financial plan envisions operating costs increasing from \$37 million in 2012 to \$56 million in 2022, reflecting inflation and increases in service levels for summer roads maintenance. Capital spending on existing infrastructure is projected to increase from \$35 million to \$97 million, representing the required level of funding for sustainable capital maintenance. Capital spending for growth infrastructure represent the City's funding for the Maley Drive extension, comprised of debt servicing on the amounts borrowed to fund the City's local share of the project costs.

On an average annual basis, the increase in the overall municipal levy associated with this increase in roads expenditures (operating and capital) is 3.3% over the ten year planning period.

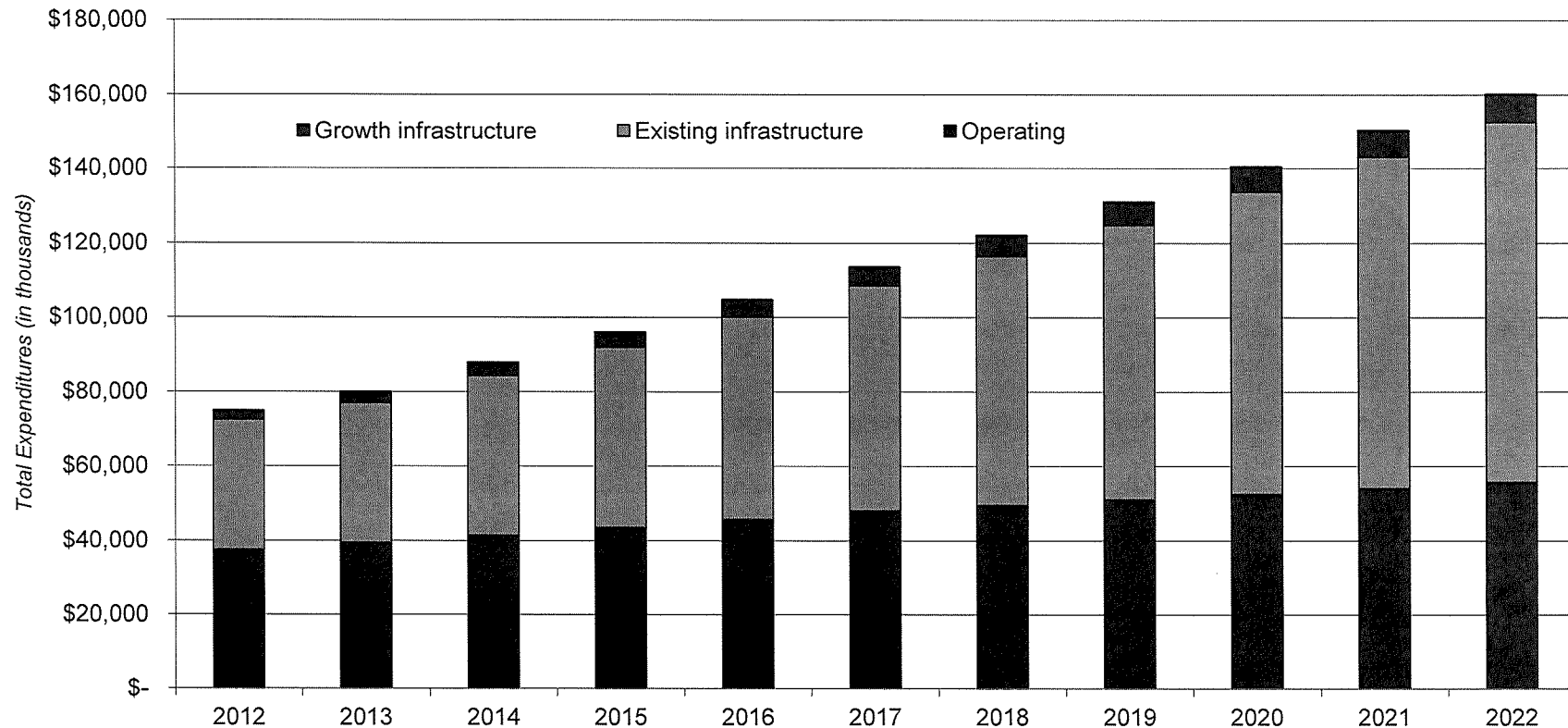


## Financial Planning for the Municipal Road System

### Projected Road Costs – Scenario 2

The second scenario reflects a higher level of funding for growth infrastructure, with additional growth-related projects undertaken during the planning period at a total cost of \$147 million. For the purposes of the financial model, it is assumed that the City's share of these project costs (i.e. total costs less grants received) will be funded through debt, with the City required to fund ongoing debt servicing costs.

With the increased level of growth-related capital spending, the increase in the overall municipal levy associated with this scenario is 3.5% over the 10 year planning period, which is slightly higher than the forecasted increases in taxes under the first scenario (3.5%).

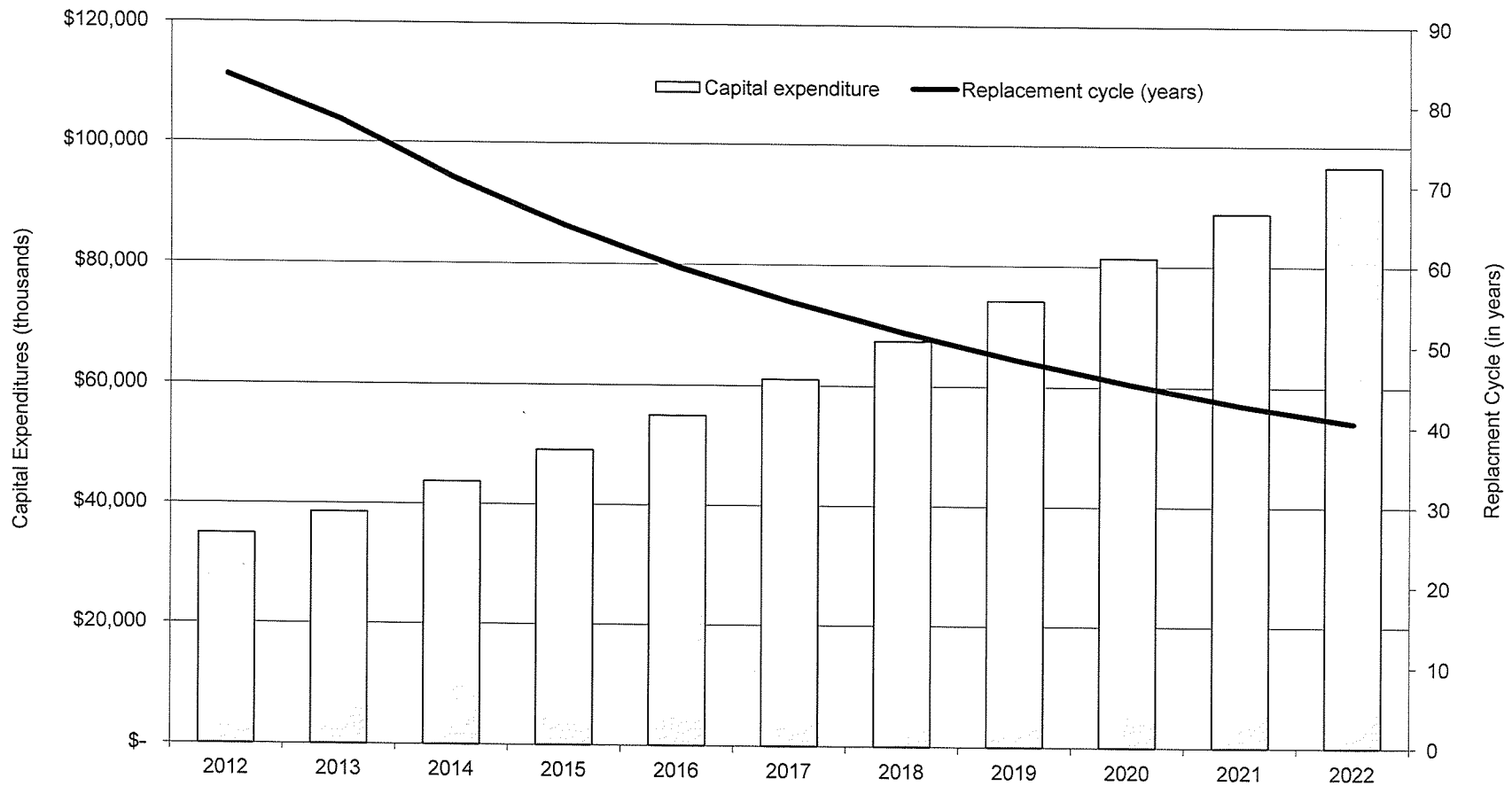




# Financial Planning for Municipal Road System

## Projected Capital Financing and Replacement Cycle

As the City's capital funding for its existing roads infrastructure increases by \$7 million per year, the replacement cycle is expected to decrease accordingly. Currently, the City's capital funding is sufficient to reconstruct/rehabilitate a road once every 80 years. At the end of the financial planning period, the reconstruct/rehabilitate cycle for roads is expected to approximate 40 years, which is reflective of the average useful life of a road.



## Financial Planning for the Municipal Road System

### Concluding Comments

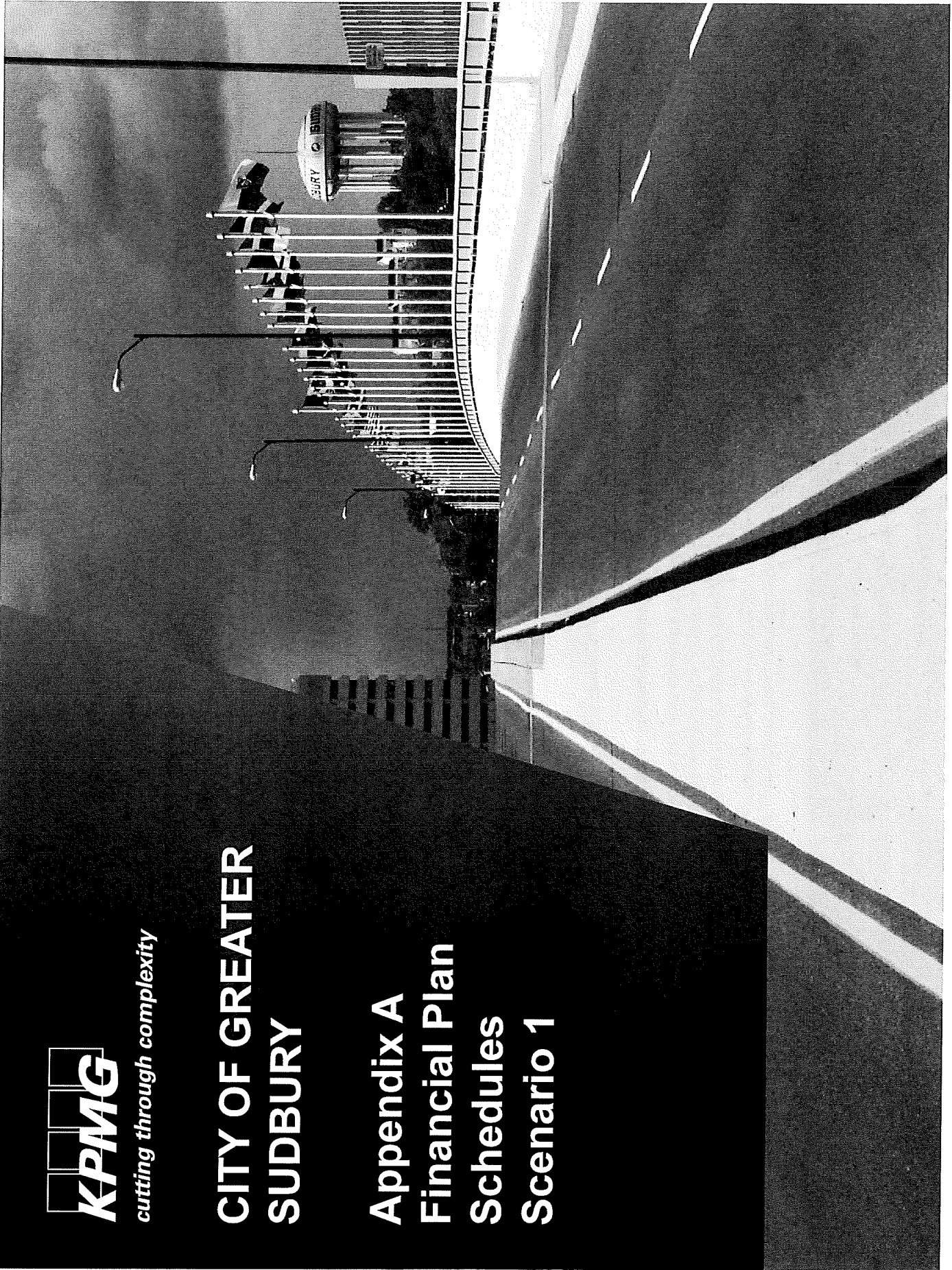
- Based on guidance from the Ontario Good Roads Association, the current infrastructure deficit for roads is estimated to be \$700 million, with an additional \$480 million to be invested within the next five years and a further \$90 million within the next 10 years.
- Achieving a sustainable level of capital investment would require the City to increase its annual capital expenditures from the currently level of \$35 million to \$75 million. Based on a ten-year phase-in period and after considering the effects of inflation, the City would be required to increase its annual capital funding by \$6.2 million per year in each of the next ten years to achieve this level of capital reinvestment.
- From an operating perspective, attaining the recommended standard of summer roads maintenance would require an additional investment of \$4 million in the City's roads budget.
- The City intends to pursue funding from senior levels of government to finance the cost of its roads infrastructure requirement. In the absence of other sources of funding, the City would be required to increase the municipal levy by 3.3% to 3.5% each year over the next 10 years to meet the financial requirements outlined in the financial plan. The range of levy increases reflects different assumptions concerning the City's investment in growth infrastructure.



*cutting through complexity*

# CITY OF GREATER SUDBURY

## Appendix A Financial Plan Schedules Scenario 1



## CITY OF GREATER SUDBURY

Schedule 1

Statement of Projected Roads Financial Requirement  
For the Years Ending December 31  
(in thousands)

	Reference	Budgeted 2012	2013	2014	2015	2016	2017	Projected 2018	2019	2020	2021	2022
(A) Operating expenditures												
Road maintenance and operating costs	Schedule 3	37,458	39,383	41,388	43,480	45,661	47,933	49,370	50,851	52,377	53,949	55,566
		37,458	39,383	41,388	43,480	45,661	47,933	49,370	50,851	52,377	53,949	55,566
(B) Capital expenditures and allocations												
Existing infrastructure	Schedule 3	34,949	37,598	42,914	48,448	54,415	60,578	67,103	74,005	81,300	89,005	96,877
Maley Drive expansion	(note 1)	2,585	2,585	2,585	2,585	2,585	2,585	2,585	2,585	2,585	2,585	2,585
Other growth projects	(note 2)	-	-	-	-	-	-	-	-	-	-	-
		37,534	40,183	45,499	51,033	57,000	63,163	69,688	76,590	83,885	91,590	99,462
(C) TOTAL EXPENDITURES (A) + (B)		74,992	79,566	86,887	94,513	102,661	111,096	119,058	127,441	136,262	145,539	155,028
(D) Non-taxation operating revenue												
Grant revenue		(40)	(40)	(40)	(40)	(40)	(40)	(40)	(40)	(40)	(40)	(40)
User fees and other charges		(751)	(751)	(751)	(751)	(751)	(751)	(751)	(751)	(751)	(751)	(751)
Contributions from reserves and reserve funds		(60)	(60)	(60)	(60)	(60)	(60)	(60)	(60)	(60)	(60)	(60)
		(851)	(851)	(851)	(851)	(851)	(851)	(851)	(851)	(851)	(851)	(851)
(E) Capital grant revenue												
Existing infrastructure		(7,885)	(7,885)	(7,885)	(7,885)	(7,885)	(7,885)	(7,885)	(7,885)	(7,885)	(7,885)	(7,885)
Maley Drive expansion	(note 3)	-	-	-	-	-	-	-	-	-	-	-
Other growth projects	(note 3)	-	-	-	-	-	-	-	-	-	-	-
		(7,885)	(7,885)	(7,885)	(7,885)	(7,885)	(7,885)	(7,885)	(7,885)	(7,885)	(7,885)	(7,885)
(F) Other capital revenues												
Future year financing		(700)	350	200	150	-	-	-	-	-	-	-
Contribution from reserves		(3,800)	(2,000)	(2,000)	(2,000)	(2,000)	(2,000)	(2,000)	(2,000)	(2,000)	(2,000)	(2,000)
		(4,500)	(1,650)	(1,800)	(1,850)	(2,000)	(2,000)	(2,000)	(2,000)	(2,000)	(2,000)	(2,000)
(G) TOTAL NON-TAXATION REVENUE (D) + (E) + (F)		(13,310)	(10,386)	(10,536)	(10,586)	(10,736)	(10,736)	(10,736)	(10,736)	(10,736)	(10,736)	(10,736)
ROADS FUNDING FROM MUNICIPAL LEVY (C) - (G)		61,682	69,180	76,351	83,927	91,925	100,360	108,322	116,705	125,526	134,803	144,282
Total increase in roads funding from municipal levy												
- Operating			1,925	2,005	2,092	2,181	2,272	1,437	1,481	1,526	1,572	1,617
- Capital			5,573	5,166	5,484	5,817	6,163	6,525	6,902	7,295	7,705	7,872
			7,498	7,171	7,576	7,998	8,435	7,962	8,383	8,821	9,277	9,489
Percentage increase in roads funding from municipal levy:												
- Operating			3.1%	2.9%	2.7%	2.8%	2.5%	1.4%	1.4%	1.3%	1.3%	1.2%
- Capital			9.0%	7.5%	7.2%	6.9%	6.7%	6.5%	6.4%	6.3%	6.1%	5.8%
			12.2%	10.4%	9.9%	9.5%	9.2%	7.9%	7.7%	7.6%	7.4%	7.0%
Percentage increase in municipal levy:												
- Operating			0.9%	0.9%	0.9%	0.9%	0.9%	0.6%	0.6%	0.6%	0.6%	0.6%
- Capital			2.6%	2.3%	2.4%	2.5%	2.5%	2.6%	2.6%	2.7%	2.8%	2.7%
			3.5%	3.2%	3.3%	3.4%	3.5%	3.2%	3.2%	3.3%	3.3%	3.3%
Notes:												
										Average annual tax increase		3.3%

(1) Represents contributions to capital for Maley Drive project costs and debt servicing costs.

(2) Under this scenario, no growth projects other than Maley Drive have been considered.

(3) Maley Drive and other growth projects are reflected on a net basis, with the cost of the projects netted against grant revenues and debt proceeds. Accordingly, the financial model reflects the debt servicing cost associated with growth-related borrowings.

## CITY OF GREATER SUDBURY

Schedule 2

Statement of Projected Roads Operating Costs  
For the Years Ending December 31  
(in thousands)

Reference		Budget 2012	2013	2014	2015	2016	2017	Projected					2021	2022
								2018	2019	2020				
Administration	(note 1)	\$ 462	476	490	505	520	536	552	569	586	604	622		
Summer maintenance	(note 1)	13,926	14,344	14,774	15,217	15,674	16,144	16,628	17,127	17,641	18,170	18,715		
Winter maintenance	(note 1)	15,283	15,741	16,213	16,699	17,200	17,716	18,247	18,794	19,358	19,939	20,537		
Streetlighting	(note 1)	2,363	2,434	2,507	2,582	2,659	2,739	2,821	2,906	2,993	3,083	3,175		
Engineering	(note 1)	4,966	5,115	5,268	5,426	5,589	5,757	5,930	6,108	6,291	6,480	6,674		
Other	(note 1)	458	472	486	501	516	531	547	563	580	597	615		
Operating costs before undernoted items		37,458	38,582	39,738	40,930	42,158	43,423	44,725	46,067	47,449	48,873	50,338		
Service level increases for summer roads maintenance (note 2):														
Cumulative annual increase, beginning of year		-	-	801	1,650	2,550	3,503	4,510	4,645	4,784	4,928	5,076		
Inflationary increase on prior year's cumulative increase		-	-	24	50	77	105	135	139	144	148	152		
Current year's increase		-	801	825	850	876	902	-	-	-	-	-		
Cumulative annual increase, end of year		-	801	1,650	2,550	3,503	4,510	4,645	4,784	4,928	5,076	5,228		
Total projected roads operating costs		\$ 37,458	39,383	41,388	43,480	45,661	47,933	49,370	50,851	52,377	53,949	55,566		

## Notes:

- (1) Based on the approved 2012 budget levels, adjusted for inflation at a rate of 3% per year. Amounts included all operating costs except for transfer to capital fund.
- (2) Represents the incremental summer maintenance costs required as per the City's zero-based budget analysis. For the purpose of our analysis, we have assumed a five-year phase-in period.



## CITY OF GREATER SUDBURY

Statement of Projected Roads Capital Financing Requirement  
For the Years Ending December 31  
(in thousands)

Reference	Budget		Projected									
	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022		
Sustainable capital investment requirement, beginning of year	(note 1)											
Inflationary adjustment	(note 2)											
Sustainable capital investment requirement, end of year												
Less:												
Provision for Federal and Provincial gas tax grants	(note 3)											
Contributions from reserve and other non-taxation capital revenue	(note 4)											
Net local requirement for roads capital before phase-in provisions												
Phase-in percentage												
Net roads capital spending before debt												
Less: Debt financing												
Contribution to capital fund												
Estimated replacement value of roads infrastructure, prior year:												
Land	(note 5)											
Streets	(note 5)											
Streetslighting	(note 5)											
Bridges and culverts	(note 5)											
Gravel roads	(note 5)											
Arterial roads (urban and rural)	(note 5)											
Collector roads (urban and rural)	(note 5)											
Local roads (urban and rural)	(note 5)											
Traffic signals and signs	(note 5)											
Inflationary increase												
Estimated replacement value of roads infrastructure, current year												
Contribution to capital fund	(note 6)											
Excess year for capital fund	(note 6)											
Contributions from reserve and other non-taxation capital revenue	(note 6)											
Federal and Provincial gas tax grants	(note 6)											
Total capital financing	(note 6)											
Capital financing as a percentage of replacement value												
Projected replacement cycle (in years)												

Notes:

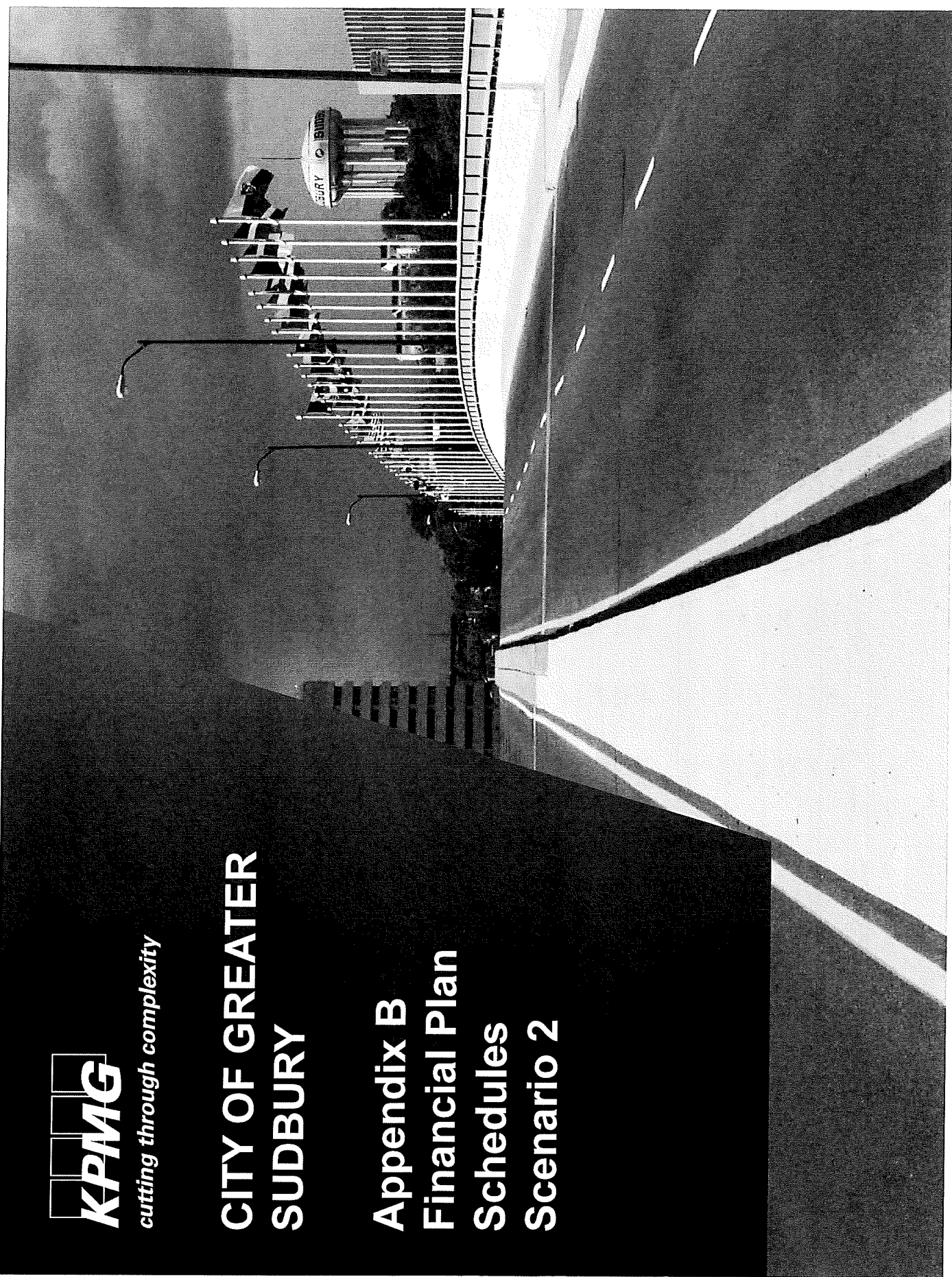
- (1) KPMG calculation based on estimated replacement value and useful lives of municipal road infrastructure.
- (2) Assumed to be 3% per year.
- (3) Assumes a 10-year capital phase-in period.
- (4) For the purposes of our analysis, no debt financing has been considered for capital expenditures relating to existing infrastructure.
- (5) Based on tangible capital asset information provided by the City.



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# CITY OF GREATER SUDBURY

## Appendix B Financial Plan Schedules Scenario 2



Statement of Projected Roads Financial Requirement  
For the Years Ending December 31  
(in thousands)

	Reference	Budgeted 2012	2013	2014	2015	2016	2017	Projected 2018	2019	2020	2021	2022
<b>(A) Operating expenditures</b>												
Road maintenance and operating costs	Schedule 3	37,458	39,383	41,388	43,480	45,661	47,933	49,370	50,851	52,377	53,949	55,566
		37,458	39,383	41,388	43,480	45,661	47,933	49,370	50,851	52,377	53,949	55,566
<b>(B) Capital expenditures and allocations</b>												
Existing infrastructure	Schedule 3	34,949	37,598	42,914	48,448	54,415	60,578	67,103	74,005	81,300	89,005	96,877
Maley Drive expansion	(note 1)	2,585	2,585	2,585	2,585	2,585	2,585	2,585	2,585	2,585	2,585	2,585
Other growth projects	(note 2)	-	524	1,048	1,572	2,096	2,620	3,144	3,668	4,192	4,716	5,242
		37,534	40,707	46,547	52,605	59,096	65,783	72,832	80,258	88,077	96,306	104,704
<b>(C) TOTAL EXPENDITURES (A) + (B)</b>		<b>74,992</b>	<b>80,090</b>	<b>87,935</b>	<b>96,085</b>	<b>104,757</b>	<b>113,716</b>	<b>122,202</b>	<b>131,109</b>	<b>140,454</b>	<b>150,255</b>	<b>160,270</b>
<b>(D) Non-taxation operating revenue</b>												
Grant revenue		(40)	(40)	(40)	(40)	(40)	(40)	(40)	(40)	(40)	(40)	(40)
User fees and other charges		(751)	(751)	(751)	(751)	(751)	(751)	(751)	(751)	(751)	(751)	(751)
Contributions from reserves and reserve funds		(60)	(60)	(60)	(60)	(60)	(60)	(60)	(60)	(60)	(60)	(60)
		(851)	(851)	(851)	(851)	(851)	(851)	(851)	(851)	(851)	(851)	(851)
<b>(E) Capital grant revenue</b>												
Existing infrastructure		(7,885)	(7,885)	(7,885)	(7,885)	(7,885)	(7,885)	(7,885)	(7,885)	(7,885)	(7,885)	(7,885)
Maley Drive expansion	(note 3)	-	-	-	-	-	-	-	-	-	-	-
Other growth projects	(note 3)	-	-	-	-	-	-	-	-	-	-	-
		(7,885)	(7,885)	(7,885)	(7,885)	(7,885)	(7,885)	(7,885)	(7,885)	(7,885)	(7,885)	(7,885)
<b>(F) Other capital revenues</b>												
Future year financing		(700)	350	200	150	-	-	-	-	-	-	-
Contribution from reserves		(3,800)	(2,000)	(2,000)	(2,000)	(2,000)	(2,000)	(2,000)	(2,000)	(2,000)	(2,000)	(2,000)
		(4,500)	(1,650)	(1,800)	(1,850)	(2,000)	(2,000)	(2,000)	(2,000)	(2,000)	(2,000)	(2,000)
<b>(G) TOTAL NON-TAXATION REVENUE (D) + (E) + (F)</b>		<b>(13,310)</b>	<b>(10,388)</b>	<b>(10,536)</b>	<b>(10,586)</b>	<b>(10,736)</b>	<b>(10,738)</b>	<b>(10,736)</b>	<b>(10,736)</b>	<b>(10,736)</b>	<b>(10,738)</b>	<b>(10,736)</b>
<b>ROADS FUNDING FROM MUNICIPAL LEVY (C) - (G)</b>		<b>61,682</b>	<b>69,704</b>	<b>77,399</b>	<b>85,499</b>	<b>94,021</b>	<b>102,980</b>	<b>111,466</b>	<b>120,373</b>	<b>129,718</b>	<b>139,519</b>	<b>149,534</b>
Total increase in roads funding from municipal levy:												
- Operating			1,925	2,005	2,092	2,181	2,272	1,437	1,481	1,526	1,572	1,617
- Capital			6,097	5,690	6,008	6,341	6,687	7,049	7,426	7,819	8,229	8,398
			8,022	7,695	8,100	8,522	8,959	8,486	8,907	9,345	9,801	10,015
Percentage increase in roads funding from municipal levy:												
- Operating			3.1%	2.9%	2.7%	2.6%	2.4%	1.4%	1.3%	1.3%	1.2%	1.2%
- Capital			9.9%	8.2%	7.8%	7.4%	7.1%	6.8%	6.7%	6.5%	6.3%	6.0%
			13.0%	11.0%	10.5%	10.0%	9.5%	8.2%	8.0%	7.8%	7.6%	7.2%
Percentage increase in municipal levy:												
- Operating			0.9%	0.9%	0.9%	0.9%	0.9%	0.6%	0.6%	0.6%	0.6%	0.6%
- Capital			2.9%	2.6%	2.6%	2.7%	2.7%	2.8%	2.8%	2.9%	2.9%	2.9%
			3.8%	3.5%	3.5%	3.6%	3.6%	3.3%	3.4%	3.4%	3.5%	3.4%
Average annual tax increase											3.5%	

## Notes:

- (1) Represents contributions to capital for Maley Drive project costs and debt servicing costs.  
(2) Under this scenario, growth projects totalling \$247 million are anticipated to be undertaken during the financial planning period.  
(3) Maley Drive and other growth projects are reflected on a net basis, with the cost of the projects netted against grant revenues and debt proceeds. Accordingly, the financial model reflects the debt servicing cost associated with growth-related borrowings.

## CITY OF GREATER SUDBURY

Schedule 2

Statement of Projected Roads Operating Costs  
For the Years Ending December 31  
(in thousands)

Reference	Budget 2012	2013	2014	2015	2016	2017	Projected	2018	2019	2020	2021	2022
Administration	(note 1)	\$ 462	476	490	505	520	536	552	569	586	604	622
Summer maintenance	(note 1)	13,926	14,344	14,774	15,217	15,674	16,144	16,628	17,127	17,641	18,170	18,715
Winter maintenance	(note 1)	15,283	15,741	16,213	16,699	17,200	17,716	18,247	18,794	19,358	19,939	20,537
Streetlighting	(note 1)	2,363	2,434	2,507	2,582	2,659	2,739	2,821	2,906	2,993	3,083	3,175
Engineering	(note 1)	4,966	5,115	5,268	5,426	5,589	5,757	5,930	6,108	6,291	6,480	6,674
Other	(note 1)	458	472	486	501	516	531	547	563	580	597	615
Operating costs before undernoted items		37,458	38,582	39,738	40,930	42,158	43,423	44,725	46,067	47,449	48,873	50,338
Service level increases for summer roads maintenance (note 2):												
Cumulative annual increase, beginning of year		-	-	801	1,650	2,550	3,503	4,510	4,645	4,784	4,928	5,076
Inflationary increase on prior year's cumulative increase		-	-	24	50	77	105	135	139	144	148	152
Current year's increase		-	801	825	850	876	902	-	-	-	-	-
Cumulative annual increase, end of year		-	801	1,650	2,550	3,503	4,510	4,645	4,784	4,928	5,076	5,228
Total projected roads operating costs	\$	37,458	39,383	41,388	43,480	45,661	47,933	49,370	50,851	52,377	53,949	55,566

Notes:

- (1) Based on the approved 2012 budget levels, adjusted for inflation at a rate of 3% per year. Amounts included all operating costs except for transfer to capital fund.  
(2) Represents the incremental summer maintenance costs required as per the City's zero-based budget analysis. For the purpose of our analysis, we have assumed a five-year phase-in period.

## CITY OF GREATER SUDBURY

Statement of Projected Roads Capital Financing Requirement  
For the Years Ending December 31  
(in thousands)

Schedule 3

References	Projected											
	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	
Sustainable capital investment requirement, beginning of year	(note 1)	\$ 69,986	72,086	74,249	76,476	78,770	81,133	83,597	86,074	88,556	91,316	94,065
Inflationary adjustment	(note 2)	2,100	2,183	2,227	2,294	2,363	2,434	2,507	2,582	2,660	2,739	2,822
Sustainable capital investment requirement, end of year		72,086	74,249	76,476	78,770	81,133	83,567	86,074	88,556	91,316	94,065	96,877
Less:												
Provision for Federal and Provincial gas tax grants	Schedule 1	(7,959)	(7,885)	(7,885)	(7,885)	(7,885)	(7,885)	(7,885)	(7,885)	(7,885)	(7,885)	(7,885)
Contributions from reserves and other non-taxation capital revenue	Schedule 1	(3,800)	(2,000)	(2,000)	(2,000)	(2,000)	(2,000)	(2,000)	(2,000)	(2,000)	(2,000)	(2,000)
Net local requirement for roads capital before phase-in provisions		60,327	64,364	66,591	68,885	71,248	73,682	76,189	78,771	81,431	84,170	86,999
Phase-in percentage	(note 3)	37.3%	43.6%	48.9%	56.2%	62.5%	68.9%	75.1%	81.4%	87.7%	94.0%	100.0%
Net roads capital spending before debt	(note 4)	22,490	28,063	33,229	38,713	44,530	50,693	57,218	64,120	71,415	79,120	86,992
Less: Debt financing		-	-	-	-	-	-	-	-	-	-	-
Contribution to capital fund		\$ 22,490	28,063	33,229	38,713	44,530	50,693	57,218	64,120	71,415	79,120	86,992
Estimated replacement value of roads infrastructure, prior year:												
Land	(note 5)	11,411	11,753	12,106	12,469	12,843	13,228	13,625	14,034	14,455	14,899	15,336
Trains	(note 5)	23,598	23,598	24,038	24,759	25,502	26,267	27,055	27,867	28,703	29,564	30,451
Streetscape	(note 5)	14,141	14,141	14,581	15,021	15,461	15,901	16,341	16,781	17,221	17,661	18,101
Bridges and culverts	(note 5)	252,009	250,069	268,911	276,360	284,651	293,191	301,967	311,047	320,378	329,989	339,889
Gravel roads	(note 5)	183,691	173,564	173,564	178,771	184,134	189,658	195,348	201,204	207,244	213,461	219,855
Arterial roads (urban and rural)	(note 5)	623,652	642,362	661,633	681,482	701,926	722,994	744,674	767,014	790,024	813,725	838,137
Collector roads (urban and rural)	(note 5)	593,335	590,235	597,642	615,571	634,038	653,069	672,651	692,831	713,616	735,024	757,075
Local roads (urban and rural)	(note 5)	1,176,728	1,212,030	1,248,391	1,285,943	1,324,418	1,364,151	1,405,076	1,447,228	1,490,645	1,535,384	1,581,475
Traffic signals and signs	(note 5)	22,868	23,552	24,238	24,988	25,737	26,508	27,291	28,119	28,983	30,772	32,727
Inflationary increase		2,654,773	2,940,416	3,028,628	3,119,467	3,213,072	3,309,464	3,408,748	3,511,010	3,616,340	3,724,830	3,836,575
Estimated replacement value of roads infrastructure, current year		85,643	88,212	90,859	93,585	96,392	99,284	102,262	105,300	108,400	111,745	115,097
Contribution to capital fund		2,940,416	3,028,628	3,119,467	3,213,072	3,309,464	3,408,748	3,511,010	3,616,340	3,724,830	3,836,575	3,951,672
Future year financing	Schedule 1	22,490	28,063	33,229	38,713	44,530	50,693	57,218	64,120	71,415	79,120	86,992
Capital expenditures and other non-taxation capital revenue	Schedule 1	700	(350)	(2,000)	(1,500)	2,000	2,000	2,000	2,000	2,000	2,000	2,000
Federal and Provincial gas tax grants	Schedule 1	7,959	7,885	7,885	7,885	7,885	7,885	7,885	7,885	7,885	7,885	7,885
Total capital financing		\$ 34,949	37,568	42,814	48,448	54,415	60,578	67,103	74,005	81,300	89,005	96,877
Capital financing as a percentage of replacement value		1.2%	1.2%	1.4%	1.5%	1.6%	1.9%	2.0%	2.2%	2.3%	2.5%	2.7%
Projected replacement cycle (in years)		84	81	73	66	61	56	52	49	46	43	41

Notes:

- (1) KPMG calculation based on estimated replacement value and useful lives of municipal road infrastructure.
- (2) Assumed to be 3% per year.
- (3) Assumes a 10-year capital phase-in period.
- (4) For the purposes of our analysis, no debt financing has been considered for capital expenditures relating to existing infrastructure.
- (5) Based on tangible capital asset information provided by the City.

## Financial Planning for Roads Restrictions

The financial plan outlined in this report represents a forecast of the financial performance of the City's roads services under a series of assumptions that are documented within the plan. The financial plan does not represent a formal, multi-year budget for roads. The approval of operating and capital budgets for roads is undertaken as part of the City's overall annual budgeting process. Accordingly, the financial performance outlined in this document is subject to change based on future decisions of Council with respect to operating and capital costs, tax increases and unforeseen revenues and expenses. It is the intention of the City to adjust the financial plan on an annual basis to reflect the most recent budgetary decisions made by Council.

The information contained in this report has been compiled from information provided by the City. We have not audited, reviewed or otherwise attempted to verify the accuracy or completeness of such information. Readers are cautioned that this information may not be appropriate for their purposes. We reserve the right (but will be under no obligation) to amend this report and advise accordingly in the event that, in our opinion, new material information comes to our attention that may be contrary to or different from that which is set out in this document. Comments in this report should not be interpreted to be legal advice or opinion.

The contents of this report reflect our understanding of the facts derived from the examination of documents provided to us. This report includes or makes reference to future oriented financial information. We have not audited or otherwise reviewed the financial information or supporting assumptions and as such, express no opinion as to the reasonableness of the information provided.

The individuals that prepared this report did so to the best of their knowledge, acting independently and objectively. KPMG LLP's compensation is not contingent on any action or event resulting from the use of this report.

This report, including any attached appendices, must be considered in its entirety by the reader.





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