

CITY OF ROCHESTER HILLS



EVALUATION OF FUNDING STRATEGIES FOR LOCAL ROAD RECONSTRUCTION AND MAINTENANCE



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June 30, 2004

Community Development Viability Committee
City of Rochester Hills
1000 Rochester Hills Drive
Rochester Hills, MI 48309-3033

Dear Committee Members:

We have compiled our Evaluation of Funding Strategies for Local Road Reconstruction and Maintenance. This final report presents the findings from this review and our conclusions regarding future funding for the City's neighborhood streets.

The CDV Committee is charged with the responsibility of developing sound and prudent financial options to solve the pending issues surrounding the local roads system. Related, we have attempted to find the most realistic funding solution for your consideration. Chief among these, we are suggesting that the Committee consider recommending that the City seek a dedicated roads millage. This and other related issues are discussed in-depth in the body of this report.

We appreciate the cooperation extended to us by the administrative staff of the City, particularly Roger Rousse, Julie Jenuwine and Paul Shumejko. Each provided invaluable information for conducting the analysis.

We have sincerely enjoyed this opportunity to work with the City on this important project. Should you have questions concerning this report, please do not hesitate to contact me at (517) 787-6503.

Very truly yours,

REHMANN ROBSON

Mark W. Nottley, Principal
Governmental Consulting Division

**CITY OF ROCHESTER HILLS
EVALUATION OF FUNDING STRATEGIES
FOR LOCAL ROAD RECONSTRUCTION AND MAINTENANCE**

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Appendix A: Future Financial Forecast for the Rochester Hills Local Road Fund

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SECTION I

EXECUTIVE SUMMARY

SECTION I

EXECUTIVE SUMMARY

BACKGROUND

In October 2003, Rehmann Robson was retained by the City of Rochester Hills to evaluate funding strategies for the local roads system. Like most Michigan municipalities, the City has historically struggled to assure adequate funding for the maintenance and reconstruction of neighborhood streets. The City has increasingly realized that the local roads funding problem is becoming critical; threatening the quality of the road system.

In conducting the study, our task has been threefold:

1. Determine the precise needs of the local streets network – and related costs.
2. Evaluate all available funding options and conclude on an appropriate mix of revenue – possibly to include a dedicated local streets millage.
3. Outline an approach for educating the public regarding the needs of the local streets system and the need to move quickly to address a growing problem that will affect quality of life, and potentially, residential property values.

SUMMARY OF FINDINGS AND RECOMMENDATIONS

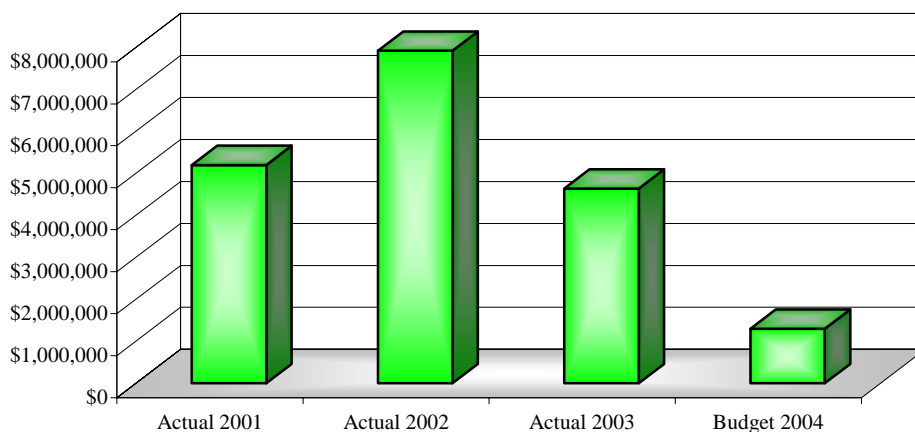
The body of the report is divided into four sections. Each section of the report is designed to build on the findings of the previous section. Key findings, on a section-by-section basis include the following:

Section II: Overview of the Local Roads Issue

Section II explores the local roads issue on a more macro basis. Local roads funding is not a problem unique to Rochester Hills – and in fact an estimated 140 communities currently have a dedicated roads millage. As seen in Table 1, the City of Rochester Hills has traditionally subsidized Local Road Fund operations and construction significantly – but financial limitations are now apparent – and these subsidies will be ending.

Table 1
Total Local Road Transfer-In

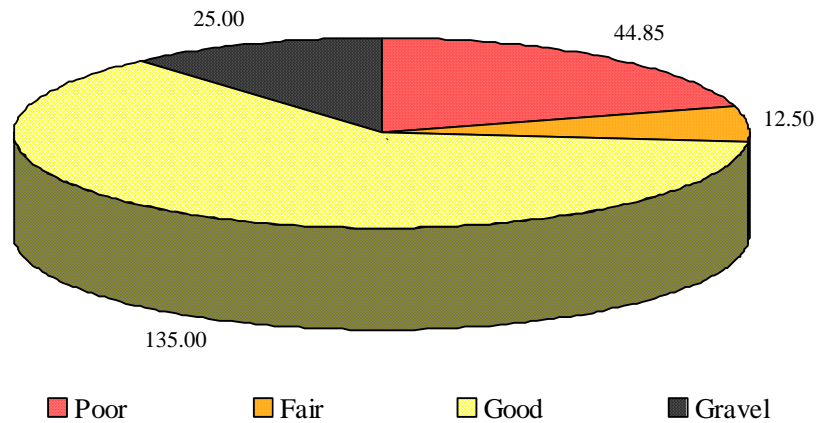
(Source: City of Rochester Hills)



Section III: Evaluation of Local Road Needs and Related Financial Requirements

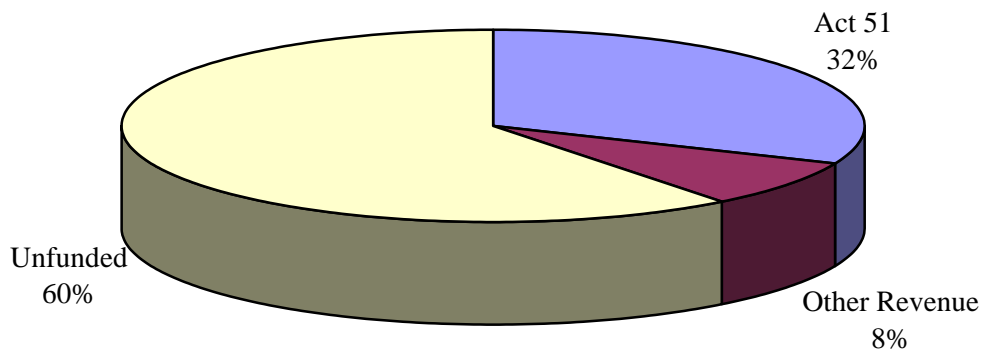
Section III explores and concludes on the current and emerging reconstruction/heavy maintenance needs of the local streets system. As seen in Table 2, it is estimated that nearly 45 miles of the local (neighborhood) street system is in poor condition. This percentage, and associated costs will grow exponentially if action is not forthcoming. The cost to upgrade poor quality roads, and institute a pre-emptive program to assure a continuing acceptable quality level on all roads, is estimated at \$58 million over ten years.

Table 2
Current Local Road Conditions in Miles
(Based on 2004 PMS Data)



Additional funding will also be needed for the ongoing **routine maintenance** activities such as plowing, salting, drain cleaning, etc. Related, we have developed a ten-year financial forecast of future revenues and expenses. As seen in Table 3, we are estimating that 60% (i.e. just over \$45 million) of needed expenditures will not have a funded source.

Table 3
Funding Sources for Local Road Operating Needs



In summary, to satisfy both the construction, and maintenance needs of the local roads system, the City will require an additional \$103 million, for which there is no current funding source.

In conclusion, we are suggesting that the City must move quickly to avert a serious, and growing problem in local streets. Summarily, the City must find the means to dedicate a level of funding to the following:

- Reconstruction of current roads that are in poor condition
- A multi-year program for addressing road maintenance needs to perpetually maintain the neighborhood streets system at a high quality level (i.e. addressing future roads needs before they become more expensive reconstructive problems)
- Ongoing routine maintenance activities.

The total costs associated with the program are estimated at \$103 million over ten years – a daunting amount that the City simply cannot afford with current millage levels and revenue collections.

Section IV: Evaluation of Funding Options

In Section IV available funding options are examined. General Fund and Major Road subsidies have been used in the past to subsidize local streets funding, but as discussed in Section IV, the financial wherewithal to continue these subsidies is simply not there.

From State and Federal sources, only one revenue source can be realistically anticipated: the monies provided through Act 51 State-shared revenues for local roads. We have concluded that this “foundation” must be supplemented by an additional revenue source – ideally a voted millage dedicated to local/neighborhood streets.

As with most communities, it can be presumed that Rochester Hills residents do not desire higher taxes. However, superior communities must assure sufficient revenues for quality services and infrastructure, if property values and quality of life are to be maintained. Related, as seen in Table 4, Rochester Hills residents enjoy one of the lowest millage levels among similar-sized cities in Southwest Michigan. Residents may wish to consider this fact when weighing the City’s request for a local streets dedicated millage.

Table 4

| City | Population | 2002 Total City Tax Levy |
|------------------|------------|--------------------------|
| Farmington Hills | 82,111 | 11.41 |
| Pontiac | 66,337 | 20.12 |
| Rochester Hills | 68,825 | 9.37 |
| Royal Oak | 60,062 | 11.68 |
| Southfield | 78,296 | 16.85 |
| St. Clair Shores | 63,096 | 15.01 |
| Taylor | 65,868 | 23.58 |
| Troy | 80,959 | 10.05 |
| Average | 70,694 | 14.76 |

Source: State of Michigan, State Tax Commission

In regard to millage amounts, the total local road reconstruction and maintenance requirements specified in Section III of the report would require one or the other of the following levies:

- 5 year millage: 4.4743 mills
- 10 year millage: 2.9213 mills.

Section V: Outline for a Public Education Strategy

Prior to requesting a dedicated local streets millage, it is critical that the City of Rochester Hills make a best effort to inform its citizens of the facts surrounding the local roads issue, including:

- The consequences of not acting promptly to address the problem of funding and roads deterioration
- The benefits to be gleaned from a dedicated road millage.

Toward this end, the City must undertake a balanced public education program designed simply to inform. Section V outlines the rudiments of such a program.

SECTION II

OVERVIEW OF THE LOCAL ROADS ISSUE

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OVERVIEW OF THE LOCAL ROADS ISSUE

By definition, “local roads” refers to those secondary streets that service a community’s residential, or less traveled thoroughfares. As was the case in Rochester Hills, many of these roads were typically constructed during a community’s growth stages by the various developers who then passed the costs on to the lot-, or home-buyer.

In regard to ongoing maintenance of these residential and secondary streets, the State of Michigan provides annual funding to local governments by returning a portion of gasoline and weight taxes to each city, village and county (i.e. Act 51 payment). The amount of this payment varies from year-to-year depending on the amount of gas and weight tax collection; as well as a community’s population and proportion of the total road system to be funded.

Communities have historically found the State’s Act 51 allotment to be insufficient for their local streets maintenance needs. Related, many have enacted voter-approved millages that are earmarked specifically for residential streets maintenance and upkeep. According to the Michigan Municipal League (MML), municipalities with these dedicated road millages currently total 140 in Michigan.

In many cases these road millages were enacted at, or near, a city’s incorporation. In these situations, the cities were better positioned to absorb ongoing developmental costs while assuring a more complete and future-minded approach to maintaining the developed street system.

Apparently, as seen in Exhibit 1, a millage of this type has been an ongoing consideration in Rochester Hills; both prior to, and following City incorporation in 1984. The issue most recently surfaced in 1998, when a two-mill request for neighborhood streets repair and maintenance was defeated.

Exhibit 1

| <u>Election Date</u> | <u>Election Type</u> | <u>Proposal</u> | <u>Outcome</u> |
|----------------------|----------------------|---|----------------|
| 8/4/1998 | primary | 2 mills for 15 years to repair, maintain and improve | failed by 66% |
| 11/5/1996 | general | 3 mills for local road improvement | failed by 67% |
| 8/4/1992 | primary | 1/2 mill for 9 years | failed by 65% |
| 11/5/1991 | general | 1/4 mill for 10 years | failed by 50% |
| 11/6/1990 | general | Major Road Bond | failed by 55% |
| 8/5/1986 | primary | 1 mill for 10 years | passed by 54% |
| 11/2/1982 | general | 1/2 mill for 20 years | failed by 54% |
| 8/7/1980 | primary | 1/2 mill for five years - chloride and repair & maintenance (renewal) | passed by 59% |
| 8/7/1980 | primary | 1/2 mill for five years - chloride and repair & maintenance (new) | failed by 61% |

In fact, the City has historically found the means to subsidize and, at least partially, “bail out” the local streets maintenance and reconstructive needs. Related, as seen in Exhibit 2, significant amounts of subsidy have gone into the Local Road Fund. Much of this has been diverted from Major Road Fund monies (i.e. normally used to maintain or rebuild the collector roads and main arterials under City responsibility) or, as seen in Exhibit 3, from the City’s General Fund.

Exhibit 2
Total Local Road Fund Transfers-In

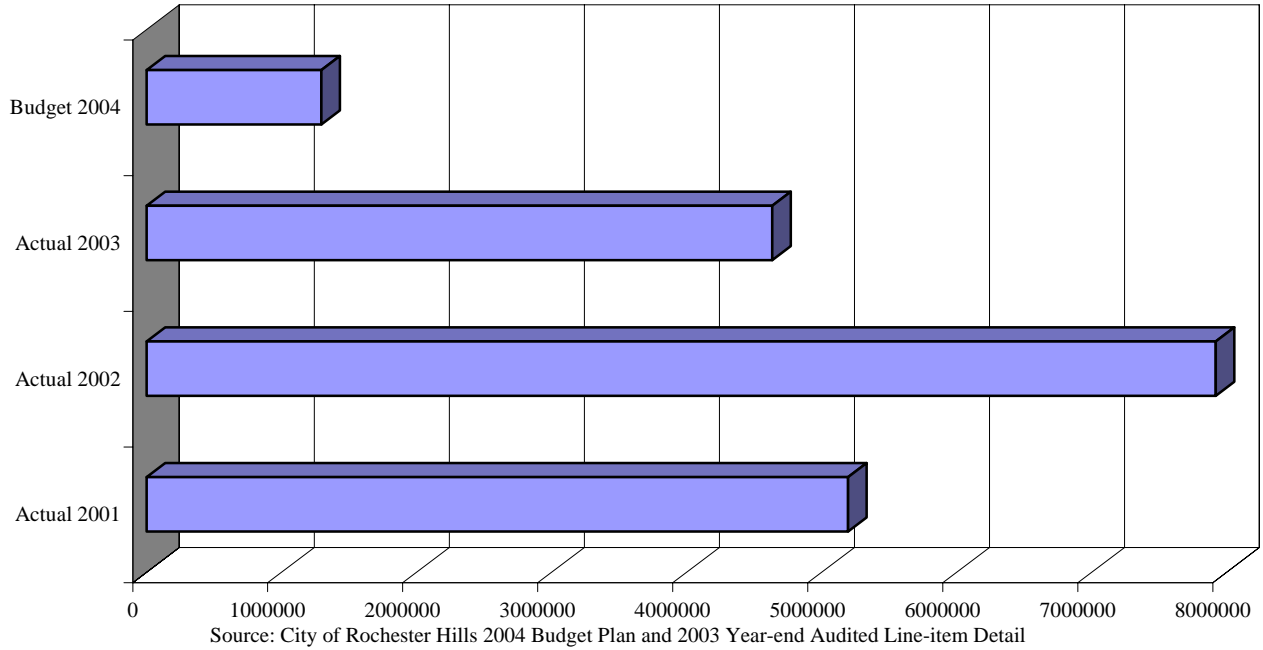
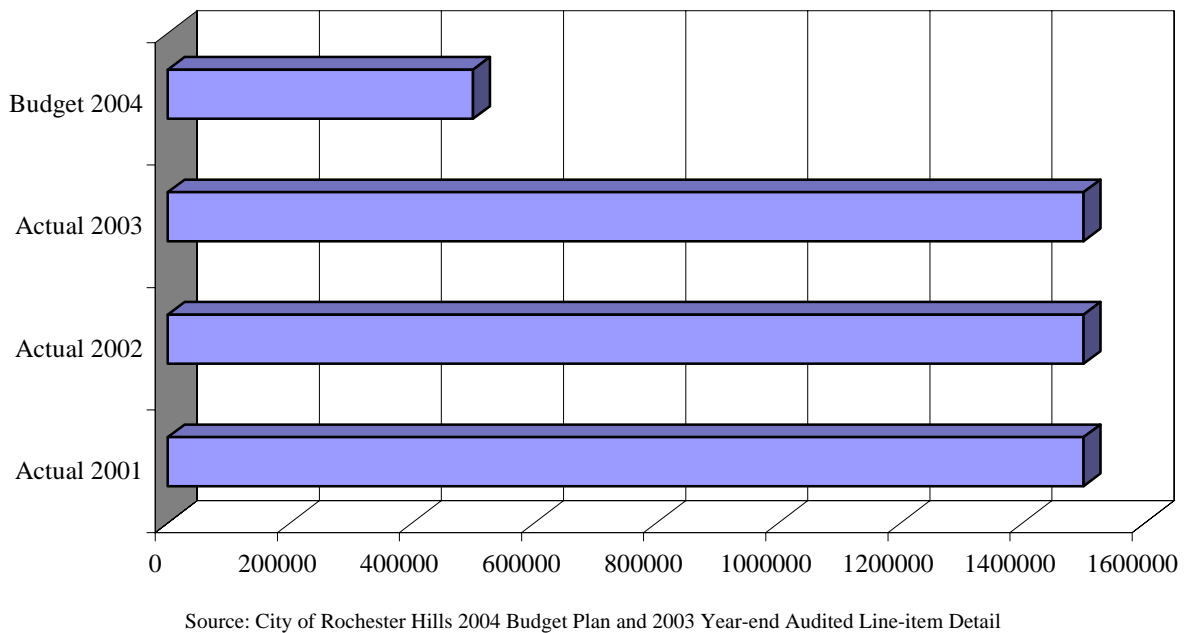


Exhibit 3
General Fund Transfers into Local Road Fund



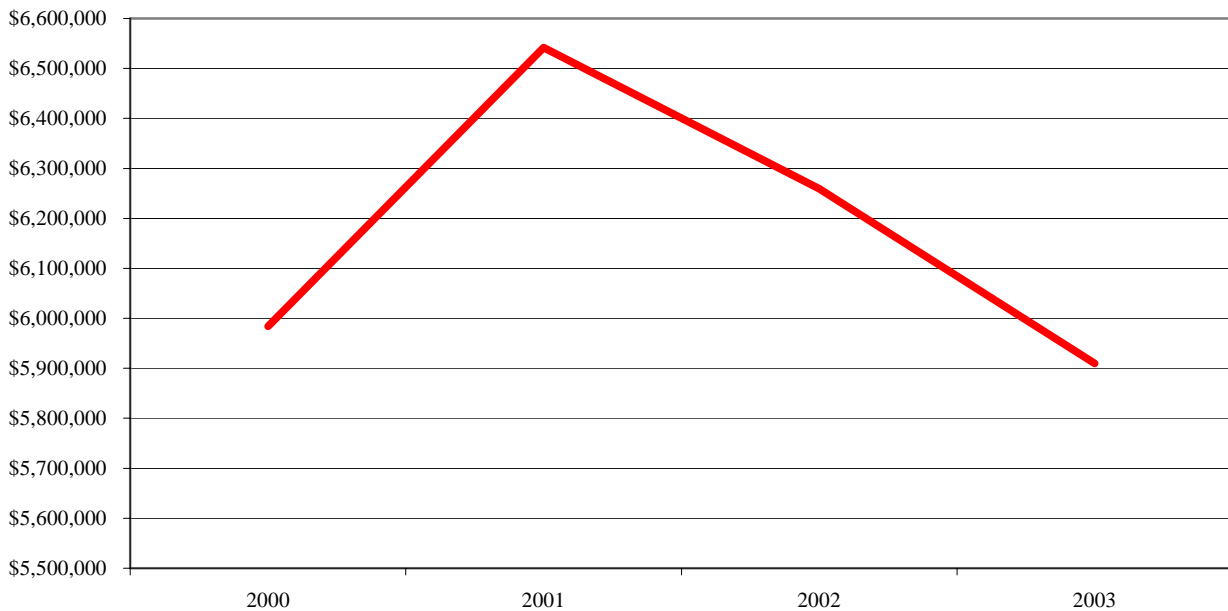
In regard to the General Fund, the City has historically maintained prudent fiscal policies. Related, the City's total millage levy was 9.3681 mills in 2003; one of the lowest total operating tax levies among southeastern Michigan's incorporated communities. Ongoing tax base growth, as well as fiscal austerity, has allowed the City to operate at this rather modest millage level, while still subsidizing maintenance and upkeep of the local streets network.

However, the City is now approaching full development and, in turn, limitations on new property tax growth. This fact, coupled with the prevailing economic climate for municipal government is limiting the General Fund's financial wherewithal. More specifically:

- As seen in Exhibit 4, reductions in Rochester Hills' State revenue sharing, a major General Fund revenue source (i.e. 27% in 2003) have been ongoing. This situation is expected to continue as the State government struggles financially.
- The impact of Proposal A has been felt heavily by Michigan's cities including Rochester Hills. Under Proposal A, annual property tax increases are limited to the lower of 5% or the rate of inflation. Related, recent annual increases have been lower than 2%.

Exhibit 4

State Shared Revenue Trends for Rochester Hills



Source: City of Rochester Hills 2004 Budget Plan

The evidence of these impacts can be seen in the City's financial results and budget estimates for the General Fund. Related, the City realized a \$279,871 operating loss for the General Fund in fiscal year 2003. To make up for this loss, a corresponding amount of the City's reserves (i.e. General Fund fund balance) were expended. Continuing this trend, an additional \$206,367 in operating loss is budgeted for fiscal year 2004.

Faced with these ongoing losses, the City has determined that it can no longer divert General Fund monies to subsidize local streets maintenance and repair. However, the need for neighborhood streets funding still persists, and will increase, if basic preventive maintenance and reconstruction activities are reduced or eliminated. In this situation, the City has retained our services to assist in structuring a multi-year approach

for financing future maintenance, upkeep and reconstruction of the neighborhood streets system. In brief, this has included the following tasks:

1. Evaluate and determine the precise needs of the neighborhood streets system - both maintenance-related and reconstructive needs
2. Evaluate available funding options
3. Develop a multi-year financial estimate that specifies the operating needs (and related costs) of the neighborhood streets system and the expected revenues that are available or forthcoming.
4. If, as anticipated, a financial shortfall exists, specify the precise amount, and correspondingly, the amount of dedicated millage that would be required to meet the needs of the Local Road Fund.
5. Outline a fair and balanced approach for educating the public regarding the study's findings.

The results of this analysis are included in the following sections of the report. In evaluating these issues we have attempted to provide the City, and its residents with an accurate, objective, third-party opinion that can serve as a basis for decision-making on the important issue of local streets.

SUMMARY OF SECTION II

Local road funding is a problem for municipalities state-wide. The City of Rochester Hills has historically subsidized local streets maintenance but can no longer afford this luxury. Our task is to determine the needs of the community and an alternative funding source(s) for this important service area. In the following section we evaluate the needs of the local road system, and related financial requirements.

SECTION III

EVALUATION OF LOCAL ROAD NEEDS AND RELATED FINANCIAL REQUIREMENTS

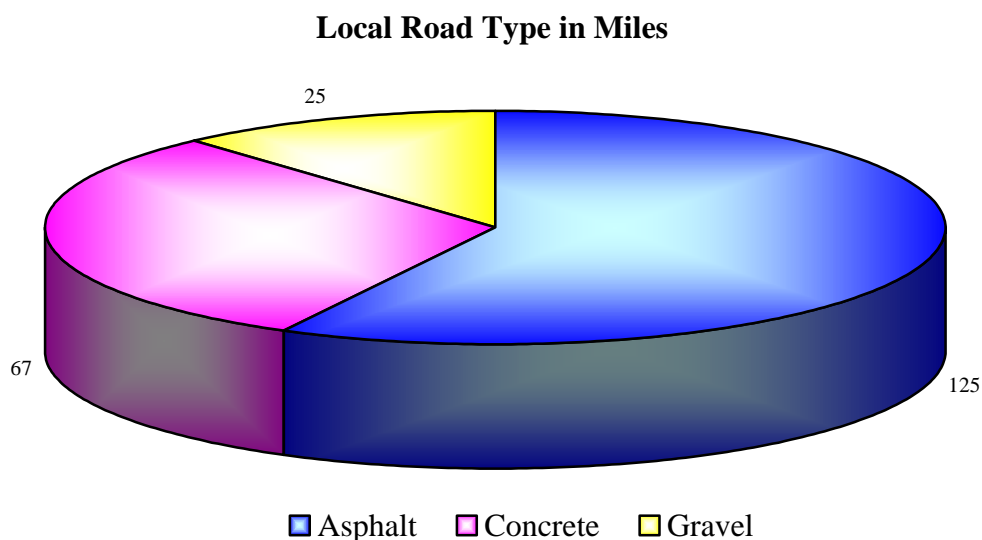
SECTION III

EVALUATION OF LOCAL ROAD NEEDS AND RELATED FINANCIAL REQUIREMENTS

As discussed, the City of Rochester Hills is nearing “built out” status after twenty plus years of strong growth as a community. The development of the local road network has been substantial during the prior twenty years as the City responded to its growth and infrastructure needs. The City is now almost fully in a “maintenance mode”, having developed an extensive local road network.

Related, the City of Rochester Hills currently owns, and has responsibility for 217.3 miles of local roads. As seen in Exhibit 5, this includes a combination of asphalt, concrete and gravel roads.

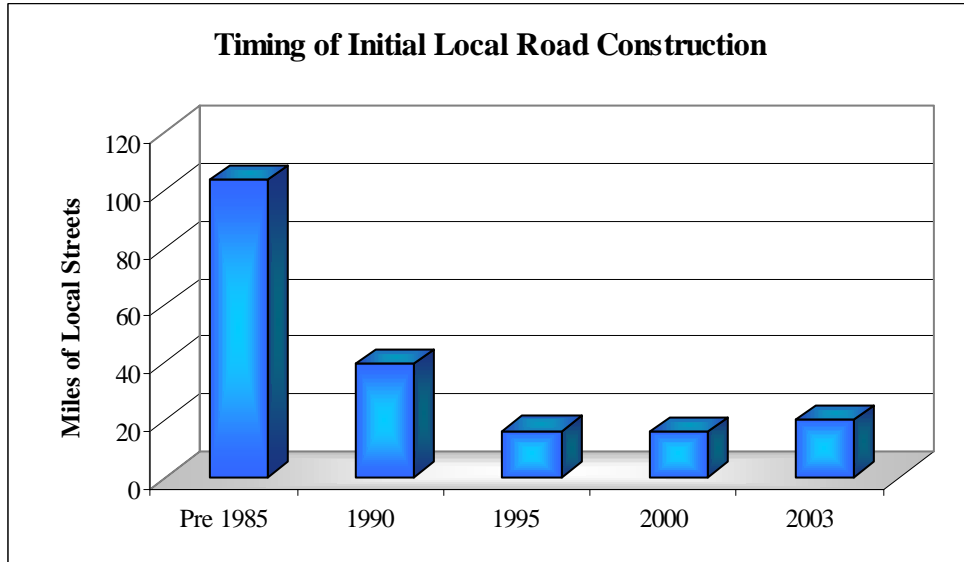
Exhibit 5



Source: City of Rochester Hills engineering staff

The history of local road development is a critical issue when considering the City’s current needs and the existing backlog of current construction needs. As seen in Exhibit 6, many of the local roads were paved, or constructed prior to incorporation of the City in 1985. Another growth splurge is evident from 1985 to 1990. As a result, many roads are becoming aged and in need of expensive reconstruction at a similar point-in-time.

Exhibit 6



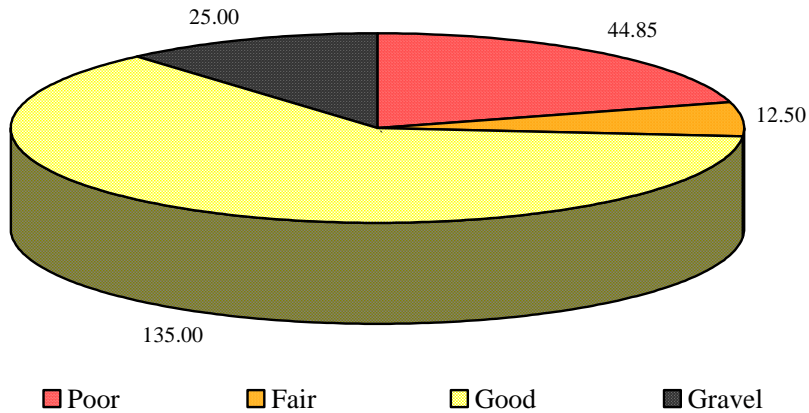
Source: City of Rochester Hills engineering staff

To account for the condition and maintenance needs of the local road system, the City utilizes a pavement management system (PMS) to analyze road conditions. The PMS is a database that ranks each road based on structural stability and ride quality. The assessment is performed by a third-party vendor that utilizes specialized equipment to rate the condition of each individual road.

In conducting the analysis we have worked closely with the City to assure an accounting of the road inventory that is both accurate and reliable. The most recent assessment of road condition, completed in January 2004, is illustrated in Exhibit 7.

Exhibit 7

Current Local Road Conditions in Miles
(Based on 2004 PMS Data)



Source: City of Rochester Hills engineering staff
Note: Miles differ slightly from those presented in Exhibits 10 and 11 due to PMS interpretation.

As seen in the exhibit, the PMS rates 44.85 miles, or more than 25% of paved residential streets in poor condition.

The narrative and visual illustration of each level of road condition, as defined by the PMS, is as follows:

- **ASPHALT Pavement Condition Definitions and Illustrations:**

Good



- **Good** - Pavement ranges in condition from “new” condition to that of having a recent maintenance overlay. Typically, little or no maintenance is required. Pavement may show some initial signs of aging, but is structurally sound.

Fair



- **Fair** - Moderate to significant surface aging is evident. Structural condition of the pavement is still sound, but would benefit from a nonstructural maintenance overlay.

Poor



- **Poor** – Deterioration, to severe deterioration, begins to appear. Pavement may be completely failed. Needs reconstruction with extensive base repair.

- **CONCRETE Pavement Condition Definitions and Illustrations:**

Good



- **Good** - Pavement ranges in condition from “new” condition to that of having some minor recent joint repair. Typically, little or no maintenance is required. Pavement may show some initial signs of minor surface scaling and/or minor transverse cracks, but is structurally sound.

Fair



- **Fair** - Evidence of joint and/or crack spalling and/or faulting. Some partial depth joint repair is needed. Miscellaneous sections of full depth slab replacement is necessary.

Poor



- **Poor** – Deterioration, to severe deterioration, begins to appear. Extensive potholes are present and almost total loss of pavement integrity. Severe and extensive settlements of frost heaves. Needs reconstruction with extensive base repair.

In assessing this information, two issues must be considered. Specifically:

- What financial resources are required to correct current, identified problems?
- What, if any cost, is associated with delay?

In regard to the former, we have consulted with the City’s engineering staff to determine the costs associated with a multi-year program to improve those roads classified as poor; and assure that all residential streets maintain a minimum of a fair rating.

As seen in the following Exhibit 8, improving those residential streets currently classified as poor or fair would require an estimated outlay of \$52,340,640 in today’s dollars. Implementing this program over 10 years results in a cost of over \$58,000,000 when accounting for inflation.

Exhibit 8

| <u>Cost per Mile for Overlay & Reconstruction</u> | |
|--|----------------------|
| Concrete Reconstruction | \$ 1,214,400 |
| Asphalt Reconstruction | \$ 910,800 |
| Asphalt Overlay | \$ 121,440 |
| <u>Road Conditions (Based on 2004 PMS Data)</u> | |
| Miles Asphalt Reconstruction | 12.00 |
| Miles Concrete Reconstruction | 32.85 |
| Miles Asphalt Repair | 12.50 |
| <u>Total Costs for Overlay & Reconstruction</u> | |
| Concrete Reconstruction | \$ 39,893,040 |
| Asphalt Reconstruction | \$ 10,929,600 |
| Asphalt Overlay | \$ 1,518,000 |
| Total Costs for Overlay & Reconstruction | \$ 52,340,640 |

Source: City of Rochester Hills engineering staff

A second, and larger issue is simply the longer-range goal of assuring that the system maintains a uniform, and acceptable level of road quality on an ongoing basis. Until now, this goal has been thwarted by the lack of available funds.

This is not to say the problem has not been recognized and partially addressed. As previously seen in Exhibits 3 - 4, significant amounts have been transferred to the Local Road Fund from the Major Road Fund and the General Fund, and a \$3,000,000 transfer from the Capital Improvement Fund was received in fiscal year 2001. The City has attempted to use these monies to craft a pre-emptive maintenance program, but the monies have proven to be insufficient.

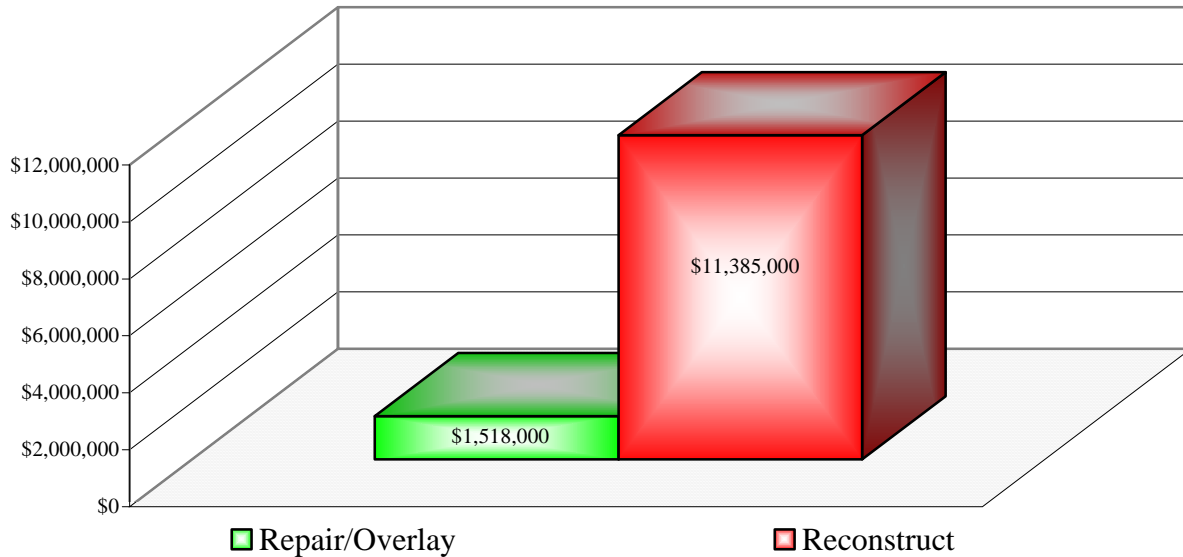
Current road inadequacies aside, a pre-emptive approach must be an integral component of any reconstructive program, albeit, with an adequate funding level. Simply put, the delay of road maintenance has associated costs. This is true for much of the current road inventory requiring reconstruction, as well as the roads classified as fair or good.

To demonstrate this, one only need look at the potential impact of delaying maintenance on those residential streets now classified as “fair” by the PMS system. Specifically, there are currently 12.5 miles of local asphalt roads listed in fair condition. A protective overlay for these roads would cost approximately \$1,518,000, and would extend the life of the roads approximately 8 - 12 years. If, however, those roads are not treated now, they will continue to deteriorate and require more extensive reconstruction. The cost to reconstruct 12.5 miles of roads would be \$11,385,000 (without consideration

of price inflation). Thus, the cost savings associated with pre-emptive maintenance of these roads could be in excess of \$9.8 million. This cost differential is estimated in the following Exhibit 9.

Exhibit 9

Cost to Repair vs. Reconstruct: 12.5 Miles of Asphalt Road
(using today's cost estimates without adjustments for inflation)



Source: City of Rochester Hills engineering staff

Thus, to be effective and successful, Rochester Hills' local road reconstruction program must contain two elements. Specifically:

- A strategy and funding mechanism for reconstruction of the current inventory of subpar roads
- A funded, ongoing preventive maintenance program that serves to lengthen the useful life of a road at the most efficient point-in-time.

Summarily, Rochester Hills' road reconstruction program should include the existing needs, listed in Exhibit 8, as well as sufficient monies to fund a pre-emptive repair program that will address reconstruction needs before they become larger more expensive problems. To accomplish this, the City's engineering staff, utilizing the PMS roads inventory system, have developed cost schedules for five and ten year funding scenarios, as seen below in Exhibits 10 and 11.

Exhibit 10 - Five –year Local Road Rehabilitation Plan

| Year | | Concrete Poor | Asphalt Poor | Concrete Fair | Asphalt Fair | Total Cost for Year |
|-------------|------------------------|--------------------------|---------------------|--------------------------|---------------------|--------------------------------|
| 1 | Miles at Start of Year | 28.6 | 12 | 15 | 10.8 | |
| | Miles Rehabbed | 0 | 5.46 | 15 | 10.8 | |
| | Cost to Rehab | \$0 | \$4,972,968 | \$4,554,000 | \$1,311,552 | \$10,838,520 |
| | Miles Left to Rehab | 28.6 | 6.54 | 0 | 0 | |
| 2 | Miles at Start of Year | 28.6 | 6.54 | 1.74 | 2.46 | |
| | Miles Rehabbed | 3.34 | 6.54 | 1.74 | 2.46 | |
| | Cost to Rehab | \$4,056,096 | \$5,956,632 | \$528,264 | \$298,742 | \$10,839,734 |
| | Miles Left to Rehab | 25.26 | 0 | 0 | 0 | |
| 3 | Miles at Start of Year | 25.26 | 0 | 0.86 | 1.55 | |
| | Miles Rehabbed | 8.56 | 0 | 0.86 | 1.55 | |
| | Cost to Rehab | \$10,395,264 | \$0 | \$261,096 | \$188,232 | \$10,844,592 |
| | Miles Left to Rehab | 16.7 | 0 | 0 | 0 | |
| 4 | Miles at Start of Year | 16.7 | 0 | 1.84 | 2.42 | |
| | Miles Rehabbed | 8.22 | | 1.84 | 2.42 | |
| | Cost to Rehab | \$9,982,368 | \$0 | \$558,624 | \$293,885 | \$10,834,877 |
| | Miles Left to Rehab | 8.48 | 0 | 0 | 0 | |
| 5 | Miles at Start of Year | 8.48 | 0 | 0.44 | 2.84 | |
| | Miles Rehabbed | 8.48 | | 0.44 | 2.84 | |
| | Cost to Rehab | \$10,298,112 | \$0 | \$133,584 | \$344,890 | \$10,776,586 |
| | Miles Left to Rehab | 0 | 0 | 0 | 0 | |

Road repair strategy is based on:

- 1) Repairing those roads in fair condition prior to those in poor condition.
- 2) Replacement of existing roads with in-kind materials.

Source: City of Rochester Hills engineering staff, with modifications based on review.

Note: Miles at start of year 1, differ slightly from totals presented in the body of the report, due to PMS data interpretation.

Exhibit 11-Ten –year Local Road Rehabilitation Plan

| Year | | Concrete Poor | Asphalt Poor | Concrete Fair | Asphalt Fair | Total Cost for Year |
|-------------|------------------------|----------------------|---------------------|----------------------|---------------------|----------------------------|
| 1 | Miles at Start of Year | 28.6 | 12 | 15 | 10.8 | |
| | Miles Rehabbed | 0 | 0 | 15 | 10.8 | |
| | Cost to Rehab | \$0 | \$0 | \$4,554,000 | \$1,311,552 | \$5,865,552 |
| | Miles Left to Rehab | 28.6 | 12 | 0 | 0 | |
| 2 | Miles at Start of Year | 28.6 | 12 | 1.74 | 2.46 | |
| | Miles Rehabbed | 0 | 5.52 | 1.74 | 2.46 | |
| | Cost to Rehab | \$0 | \$5,027,616 | \$528,264 | \$298,742 | \$5,854,622 |
| | Miles Left to Rehab | 28.6 | 6.48 | 0 | 0 | |
| 3 | Miles at Start of Year | 28.6 | 6.48 | 0.68 | 1.55 | |
| | Miles Rehabbed | 0 | 5.99 | 0.68 | 1.55 | |
| | Cost to Rehab | \$0 | \$5,455,692 | \$206,448 | \$188,232 | \$5,850,372 |
| | Miles Left to Rehab | 28.6 | 0.49 | 0 | 0 | |
| 4 | Miles at Start of Year | 28.6 | 0.49 | 1.84 | 2.42 | |
| | Miles Rehabbed | 3.75 | 0.49 | 1.84 | 2.42 | |
| | Cost to Rehab | \$4,554,000 | \$446,292 | \$558,624 | \$293,885 | \$5,852,801 |
| | Miles Left to Rehab | 24.85 | 0 | 0 | 0 | |
| 5 | Miles at Start of Year | 24.85 | 0 | 0.44 | 2.84 | |
| | Miles Rehabbed | 4.42 | 0 | 0.44 | 2.84 | |
| | Cost to Rehab | \$5,367,648 | \$0 | \$133,584 | \$344,890 | \$5,846,122 |
| | Miles Left to Rehab | 20.43 | 0 | 0 | 0 | |
| 6 | Miles at Start of Year | 20.43 | 0 | 0.42 | 2.94 | |
| | Miles Rehabbed | 4.42 | 0 | 0.42 | 2.94 | |
| | Cost to Rehab | \$5,367,648 | \$0 | \$127,512 | \$357,034 | \$5,852,194 |
| | Miles Left to Rehab | 16.01 | 0 | 0 | 0 | |
| 7 | Miles at Start of Year | 16.01 | 0 | 0.96 | 3.58 | |
| | Miles Rehabbed | 4.22 | 0 | 0.96 | 3.58 | |
| | Cost to Rehab | \$5,124,768 | \$0 | \$291,456 | \$434,755 | \$5,850,979 |
| | Miles Left to Rehab | 11.79 | 0 | 0 | 0 | |
| 8 | Miles at Start of Year | 11.79 | 0 | 0.64 | 5.49 | |
| | Miles Rehabbed | 4.11 | 0 | 0.64 | 5.49 | |
| | Cost to Rehab | \$4,991,184 | \$0 | \$194,304 | \$666,706 | \$5,852,194 |
| | Miles Left to Rehab | 7.68 | 0 | 0 | 0 | |
| 9 | Miles at Start of Year | 7.68 | 0 | 0.48 | 5.78 | |
| | Miles Rehabbed | 4.12 | 0 | 0.48 | 5.78 | |
| | Cost to Rehab | \$5,003,328 | \$0 | \$145,728 | \$701,923 | \$5,850,979 |
| | Miles Left to Rehab | 3.56 | 0 | 0 | 0 | |
| 10 | Miles at Start of Year | 3.56 | 0 | 0.74 | 8.5 | |
| | Miles Rehabbed | 3.56 | 0 | 0.74 | 8.5 | |
| | Cost to Rehab | \$4,323,264 | \$0 | \$224,664 | \$1,032,240 | \$5,580,168 |
| | Miles Left to Rehab | 0 | 0 | 0 | 0 | |

Exhibit 10 notes also apply to Exhibit 11.

Key features of Exhibit 10 and 11 include the following:

- Existing subpar roads are all replaced on a set schedule over the selected time period
- Roads classified as “fair” are repaired prior to deteriorating to poor condition.

Related, the overriding philosophy of the approach is that the roads are repaired at a lower cost before they ever deteriorate into poor condition.

Summarily, the schedules illustrated in Exhibit 10 and 11 address two key issues, including:

- Capital funding requirements for repairing all current subpar roads
- A strategy and funding source for assuring that all roads are maintained at an acceptable level in future years
- The total cost for this program is estimated at \$58,255,983 over ten years

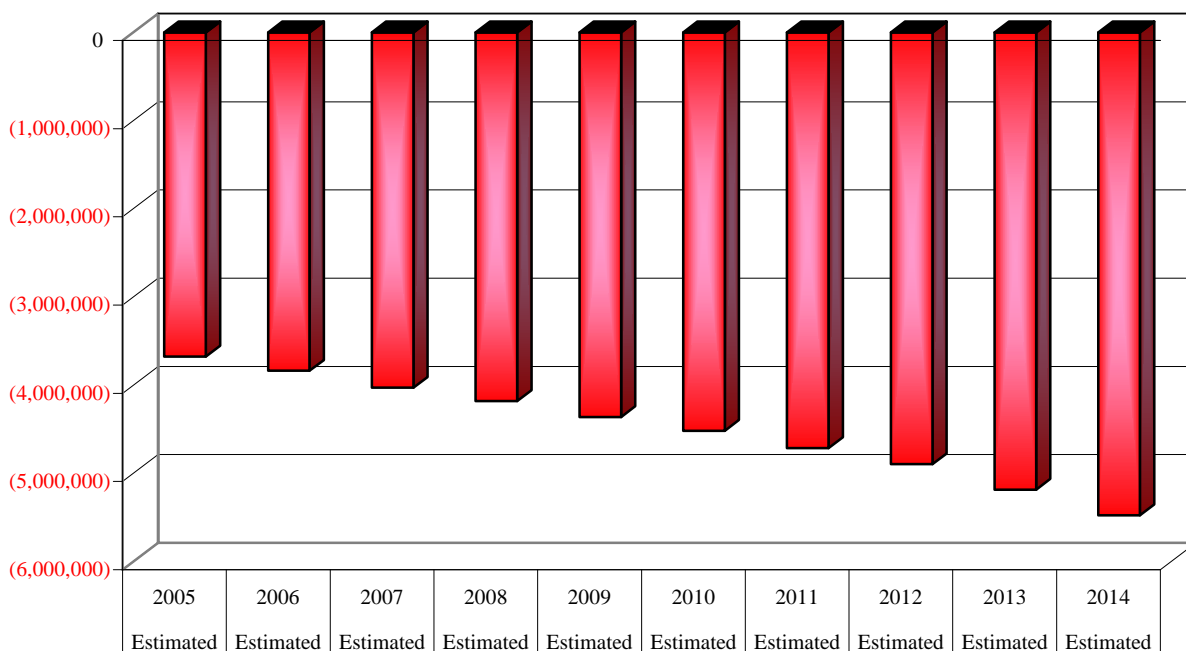
A third issue related to local roads involves funding for basic ongoing road maintenance tasks such as salting, plowing, line striping, signs, etc. These activities and others are reflected in the various operating activities in the Local Road Fund budget.

In regard to funding for ongoing maintenance, we have evaluated financial trends for the City’s Local Road Fund. To aid in this task, we have developed and utilized a financial model (included in Appendix A). The model has been developed to estimate future revenues and expenditures for the Local Road Fund on a year-by-year basis for the period, fiscal year 2005 through fiscal year 2014.

The “bottom-line” results of the analysis are included in the following Exhibit 12.

Exhibit 12

Estimated Operating Loss for 2005-14



As seen in the exhibit, and in greater detail in Appendix A, the Local Road Fund is estimated to realize ongoing operating losses in each of ten future fiscal years, amounting to a combined deficit of \$45,233,446. With shortfalls of this magnitude, the City will not be able to continue road maintenance activities at current levels. While the precise impact cannot be established, it can be presumed that routine services such as street plowing and salting, pothole patching, sweeping and storm drain maintenance will be reduced significantly. It is likely that this impact will be felt as early as the winter season of 2005. Consequently, the financial health of the Local Road Fund must also be assured for these key maintenance activities.

SUMMARY OF SECTION III

In summary, the local road system in Rochester Hills is beset with a mounting backlog of deteriorating residential streets. If the deterioration is allowed to persist, the cost of reconstruction will increase dramatically - while ride quality and road appearance worsen.

Compounding the problem is the anticipated shortage in road maintenance funding. If, as expected, funding shortfalls persist, basic services, such as plowing, salting and routine maintenance will be scaled back.

To rectify this situation both for the long- and short-term, the City must find the means to dedicate a significant level of funding to the following three primary activity areas:

- Reconstruction of current roads that are in poor condition
- A multi-year program for pre-emptively addressing road repaving/repair needs at the most cost-efficient point-in-time
- Funding for ongoing maintenance services that is adequate to meet community needs and service expectations.

The total estimate for the ten-year road reconstruction program illustrated in Exhibit 11 is \$58,255,983. This does not include the monies needed to maintain the Local Road Fund budget above and beyond annual Act 51 allocations. This amount is estimated to be \$45,233,446. In summary, the total amount required to cover operations and support a reconstruction program over a ten-year period is estimated to be \$103,489,429.

In the following section we examine potential funding sources.

SECTION IV
EVALUATION OF FUNDING OPTIONS

SECTION IV

EVALUATION OF FUNDING OPTIONS

As discussed in Section II, funding for local road maintenance and reconstruction is an issue for all communities, due to the relative inadequacy of State revenue sharing.

In this section, we examine potential funding sources for Rochester Hills' local roads, noting the advantages, disadvantages and limitations of each. Options that are considered include:

- Act 51 allocation
- Major Road Fund subsidy
- Special Assessment Districts (SADs)
- General Fund subsidy
- Dedicated local road millage.

Each is discussed separately below:

ACT 51 ALLOCATION

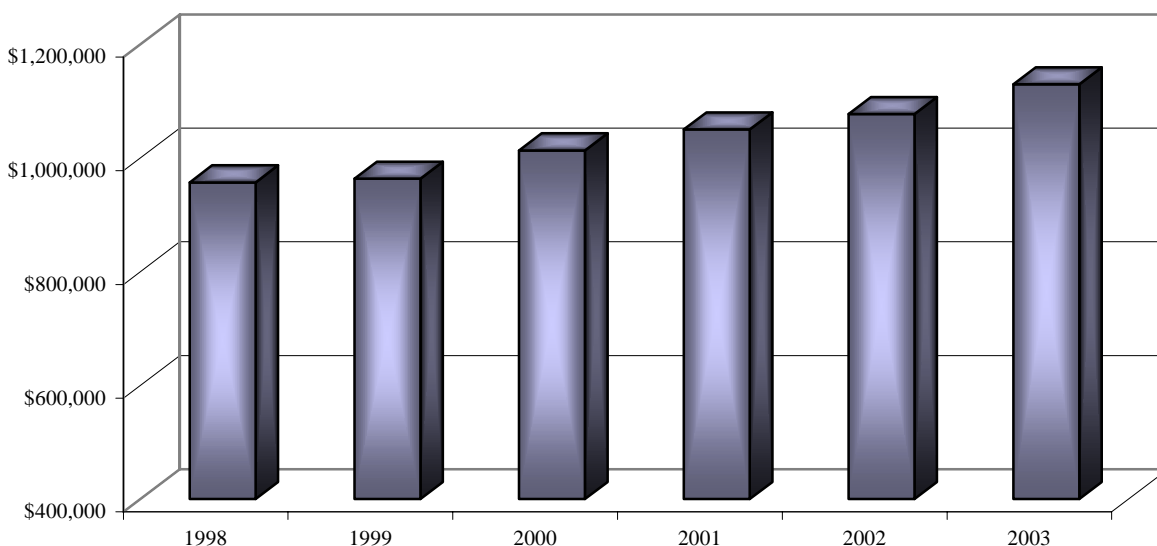
Annual Act 51 allocations from the State to the local governments are the budgetary foundation for funding local road reconstruction and maintenance. However, these funds are limited and typically insufficient to meet ongoing need.

As discussed earlier, many communities have addressed the funding deficit through a local road millage. Others, like Rochester Hills, have subsidized the local road budget through the transfer of monies from the General Fund and/or Major Road Fund. This approach is dependent on financial wherewithal, and in the current fiscal environment, is becoming less common.

One issue related to the inadequacy of Act 51 funding is simply the slow growth in year-to-year allocations. As seen in Exhibit 13, Act 51 dollars to Rochester Hills have been increasing between 1% to 5% over the prior six years - an amount insufficient to keep pace with increasing maintenance needs and costs.

Exhibit 13

Historic Act 51 Funding for Local Roads



Source: City of Rochester Hills

Secondly, a large portion of Rochester Hills local road budget is used to satisfy ongoing bond requirements; \$730,036 is budgeted for this purpose in FY 2003-04. This is equal to approximately 60% of the Local Road Act 51 allocation for the year – leaving limited funds for actual maintenance activities.

In conclusion, relying exclusively on Act 51 dollars for local road funding is not a viable option for Rochester Hills. As discussed in Section III, these monies will be insufficient to balance the ongoing Local Road Fund budget, let alone the \$58 million needed for reconstruction and pre-emptive repair.

The Act 51 allocation does serve as a beginning point for local streets funding. But other sources must also be identified and utilized.

MAJOR ROAD FUND SUBSIDY

The City of Rochester Hills receives Act 51 State revenue sharing for two road categories, including:

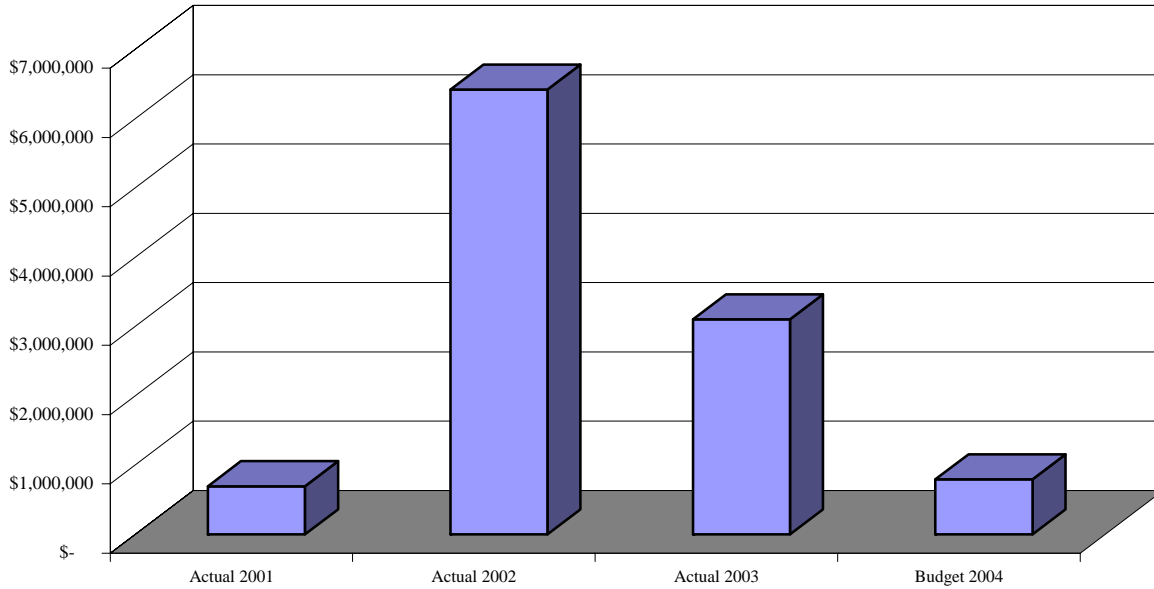
- Local roads - the subject of this study
- Major roads - the primary collector and arterial roads that are under the City’s jurisdiction

Under State law, the recipients of Act 51 monies have the option of utilizing some of the Major Road Fund allocation for local roads operation. Traditionally, this “transfer” of funds has been limited to 25% of the annual allocation - an amount that has been increased through recent legislation.

Historically, the City of Rochester Hills has made an annual “major to local” transfer in an effort to increase funding for neighborhood streets maintenance and repair. As seen in Exhibit 14, these transfers accounted for more than \$9.5 million in financial subsidy to the Local Road Fund in fiscal years 2002 and 2003.

Exhibit 14

Major Road Fund Transfer into Local Road Fund



Source: City of Rochester Hills 2004 Budget and 2003 Audited Year-end Numbers

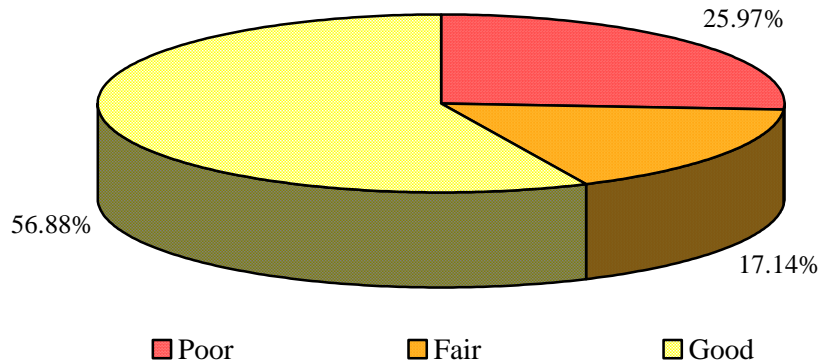
However, as seen in the exhibit, the amount of subsidy was reduced to a budgeted amount of approximately \$800,000 in the current fiscal year. The City is also strongly considering an end to this subsidy in 2005.

The reason is simply the mounting needs in the major road system. The Major Road Fund currently enjoys financial health. However, as seen in the following Exhibit 15, an estimated 26% of the City's major road inventory is categorized in "poor" condition.

Exhibit 15

Current Major Road Conditions

(Based on 2004 PMS Data)



Source: City of Rochester Hills engineering staff

The City is actively seeking to remedy this situation through an aggressive effort to secure Federal and State funds for road construction. This effort has been successful to a limited degree but has also required a significant commitment in City matching funds. As seen in Exhibit 16, these project commitments will

more than deplete the Major Road Fund fund balance in coming years and draw heavily on future revenue streams. In this situation, the Major Road Fund will be hard pressed to maintain its current service levels, let alone subsidize local road operations.

Exhibit 16

| Major Road Fund | |
|------------------------|---------------------------------------|
| Current Fund Balance | \$ 12,681,996* based on 2003 year end |
| Committed for Projects | |
| 2004 | \$ 3,340,000 |
| 2005 | \$ 4,079,000 |
| 2006 | \$ 4,685,417 |
| 2007 | \$ 1,793,150 |
| 2008 | \$ 5,662,125 |
| 2009 | <u>\$ 2,826,300</u> |
| | <u>\$ 22,385,992</u> |

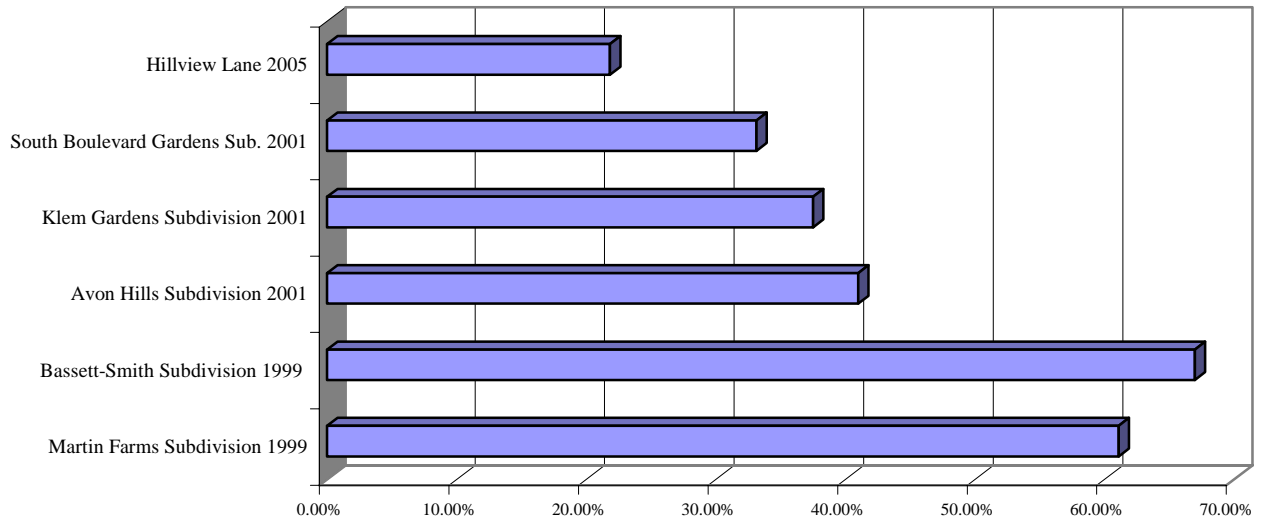
SPECIAL ASSESSMENT DISTRICTS (SAD)

Historically, Rochester Hills has created Special Assessment Districts (SADs) as a method of upgrading from gravel to paved surface. The funding responsibility for SADs was shared between the City and property-owner. The City would “cap” the portion to be paid by the property-owner - historically this cap was set at \$4,000.

As seen in Exhibit 17, the City currently has six SADs (one of which still requires final approval). The property-owner’s share is capped at \$4,000, and the City’s share of the total projects has increased with new, more recent SADs. The City has recently increased the property owners cap to \$4,770, but there have been no SADs initiated with this new cap.

Exhibit 17

Percentage of SADs Paid by Residents



Source: City of Rochester Hills engineering staff

Despite the potential cost advantage to the public, SADs, as a road funding approach, has not been particularly popular among City property-owners. Apparently many SADs have been initiated by property-owners but not supported by the majority in a proposed district. In this situation, the road upgrade cannot go forward. For this reason, and simply because of the City's lessening ability to support these special projects, the City is not encouraging continued funding for the SADs option.

Presuming that SADs was fairly well supported, this approach would be, at best, a piecemeal road upgrade strategy. More specifically:

- SADs have financial implications. City residents pay a portion, but a significant cost burden is still incurred. In the current environment, the extra costs associated with SADs would be difficult for the City to absorb.
- SADs do not lend itself to an overall planned road reconstruction program. Project initiation is at the whim of the property-owners in a particular area, and, as such, the SADs approach does not allow the City to proceed with a comprehensive program of prioritization and repair.

FEDERAL AND STATE FUNDING

As discussed, State funding (i.e. Act 51) provides ongoing revenues for the City's Local Road Fund. Ideally, there would be other sources from which to draw earmarked, grant-specific funding for local road construction. However, that is not the case. Federal and State allotments for local streets are simply not available.

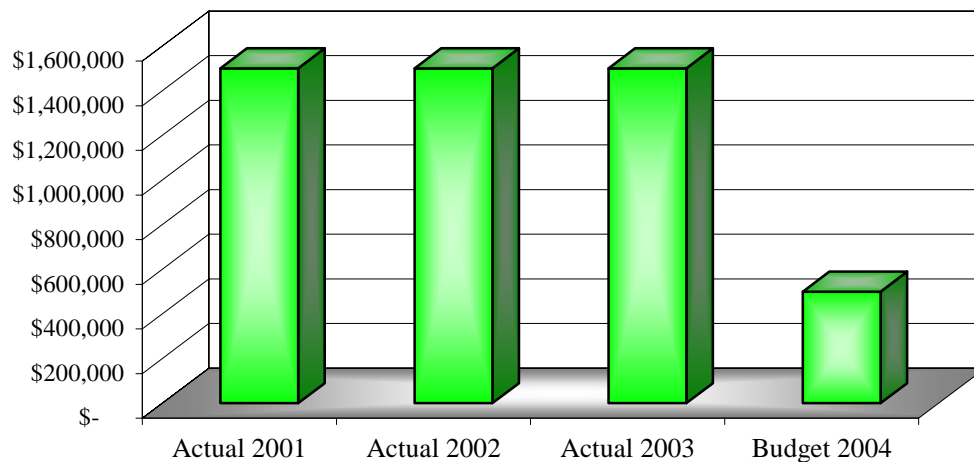
Some grant funding is available for major road projects, though many of these offerings are highly competitive. As discussed, the City is currently securing matching funds for a number of future major streets projects. However, due to the requirement for a City match (as seen in Exhibit 16), these projects will serve to lessen, not increase the Major Road Fund's ability to assist in local road funding.

GENERAL FUND SUBSIDY

As discussed in Section II, the City has historically subsidized the Local Road Fund. As seen in Exhibit 18, the amount of General Fund monies transferred to the Local Road Fund has been extensive in the past; but has been significantly curtailed in the current fiscal year. Facing the prospect of ongoing operating deficits (such as those incurred or budgeted in the last two years) the City has indicated that the subsidy may be entirely eliminated in 2005.

Exhibit 18

General Fund Transfer into Local Roads



Source: City of Rochester Hills 2004 Budget and 2003 Audited Year-end Line Item Detail

The elimination of the General Fund Subsidy will have a profound impact on the already worsening health of the Local Road Fund, particularly in combination with the elimination of the Major Road Fund subsidy. This impact can be seen in the following 2004 budget numbers:

- 2004 Local Road Fund Operating Deficit as budgeted: (\$1,892,555)
- Local Road Fund Deficit without planned G/F subsidy: (\$2,392,555)
- Local Road Fund Deficit without G/F subsidy and without planned Major Road Fund subsidy: (\$3,187,122)

As previously discussed, the inability of the General Fund to continue local streets subsidies is not a result of fiscal mismanagement. Simply put, Rochester Hills' General Fund generates a finite amount of dollars. The City's 2003 total operating levy of 9.3681 is among the lowest in southeastern Michigan. Additionally, as seen in Exhibits 19 and 20, the City's tax levy was the lowest levy among other similar-

sized Detroit area cities (i.e. 60,000 - 80,000 population) in 2002 (the latest State Tax Commission summary available).

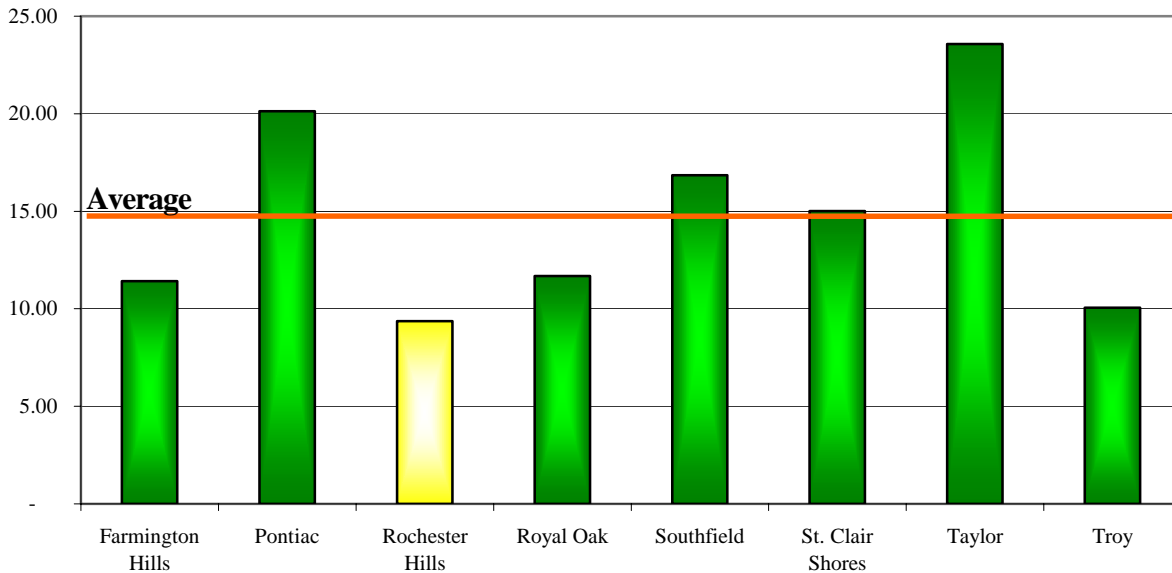
Exhibit 19

| City | Population | 2002 Total City Tax Levy |
|------------------|------------|--------------------------|
| Farmington Hills | 82,111 | 11.41 |
| Pontiac | 66,337 | 20.12 |
| Rochester Hills | 68,825 | 9.37 |
| Royal Oak | 60,062 | 11.68 |
| Southfield | 78,296 | 16.85 |
| St. Clair Shores | 63,096 | 15.01 |
| Taylor | 65,868 | 23.58 |
| Troy | 80,959 | 10.05 |
| Average | 70,694 | 14.76 |

Source: State of Michigan, State Tax Commission

Exhibit 20

Southeast Michigan Cities Total Millage Rate - 2002



Source: State of Michigan, State Tax Commission

Related to this, the funding of the local streets system is not a one-time phenomenon - a multi-year commitment will be required. Barring any new additional tax levies, the growth rate of the General Fund will incrementally decline, making subsidization of other activity areas like local roads extremely difficult.

The reason for this is simply the impending "built out" status of the community. Lacking new construction (and corresponding increases in tax revenues) the City's revenue generating capability is, and

will be, significantly diminished. Maturing communities like Rochester Hills are particularly impacted by the Headlee Amendment and Proposal A - two constitutional devices for limiting property tax growth. Moreover, continued reductions in State revenue sharing are likely, and will impact the City's ability to fund operations beyond those that comprise the General Fund.

DEDICATED MILLAGE OF LOCAL STREETS

As previously mentioned, a dedicated millage for local streets is a fairly common funding practice for Michigan's municipalities. Related, MML reports that an estimated 140 municipalities currently levy this tax.

As seen in Exhibit 19 above, Rochester Hills, property-owners have historically enjoyed low rates of taxation. Ongoing additions to the tax base have provided the means to accomplish this; a condition that is now ending as the community becomes full.

In the previous pages, we have listed and described all potential funding sources for the local streets system. Among these, only the Act 51 allocation from the State of Michigan can be seen as a viable and reliable revenue source. Neither the Major Road Fund or General Fund can afford continued subsidization, and intergovernmental assistance is simply not available.

In this situation, we have concluded that a dedicated local streets millage is the only alternative if the City of Rochester Hills is to maintain a high level of road quality and maintenance practices. Ideally, this millage would be sufficient to accomplish the following:

- Supplement the Act 51 revenues, and thus assure adequate funding for ongoing road maintenance.
- Fund a comprehensive road reconstruction program that will bring all currently substandard neighborhood streets up to a satisfactory level.
- Provide sufficient funding for a pre-emptive road repair program designed to minimize long-term reconstruction costs by extending the life of the roads with less costly preventive repair strategies.

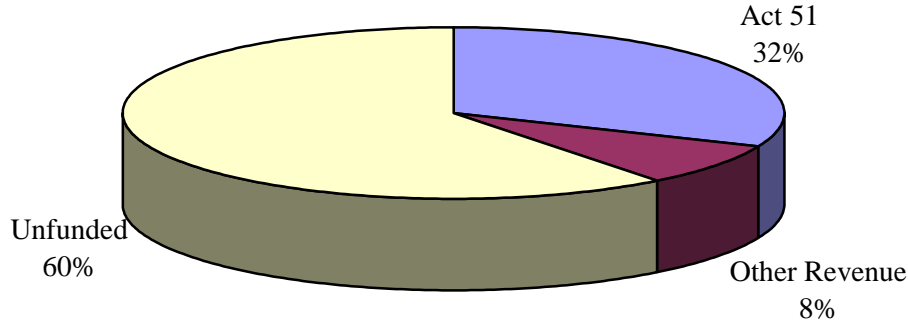
To determine the financial requirements for such a millage, we have developed five and ten year financial forecasts for the Local Road Fund. This analysis, contained in Appendix A, evaluates and estimates the following:

- Local Road Fund "bottom line" results for the period 2005-2014 - for maintenance only.
- Bottom-line results if all necessary construction was performed in accordance with the cost estimates contained in Exhibits 10 and 11.
- The amount of millage required to fund both local roads operating cost and necessary construction.

In regard to maintenance operations only, (without construction), we have estimated that the Local Road Fund will realize a significant annual operating deficit in each fiscal year for the period 2005-2014; totaling just over \$45 million or roughly 60% of the budget. This financial outcome is illustrated (as an average of 2005 to 2014) in Exhibit 21 below.

Exhibit 21

Funding Sources for Local Road Operating Needs



While this deficit is significant, it accounts for none of the construction costs that are required to maintain the road system. If these costs, (summarized in Exhibits 10 and 11) are included, the true needs of the Local Road Fund can be estimated at more than \$103 million over ten years. Net of all other revenues, we have estimated that one or the other of the following ad valorem property tax levies would be necessary to meet the needs of the local road system, including maintenance and reconstruction.

- Amount required over 5 years: 4.4743 mills
- (or) amount required over 10 years: 2.9213 mills

In regard to tax equity, a millage spread over a ten-year period would appear to be the better choice. Specifically:

- Property-ownership will change in many cases. A ten-year millage will assure greater uniformity between those who pay, and those who benefit from either road use, or other benefits such as enhanced property values.
- A millage spread over ten years will allow sufficient time to implement and accomplish all facets of the comprehensive road program. The number of substandard roads that need reconstruction is simply too massive to remedy in a 5 year period.

SUMMARY OF SECTION IV

In summary, the Local Road Fund has only one reliable revenue source going forward: the State’s annual Act 51 Local Road Fund allocation. This revenue source is wholly inadequate to meet the future maintenance and/or construction needs of Rochester Hills.

The General Fund and Major Road Fund have traditionally subsidized the Local Road Fund budget, but are no longer financially able to afford the subsidy. Moreover, the reconstructive needs of the local streets system are mounting, threatening the quality of the street infrastructure and potentially, quality-of-life and property values.

In this situation, dedicated local streets funding is sorely needed. A dedicated millage for neighborhood streets appears to be the only viable funding option. Based on our financial analysis, contained in Appendix A, the maintenance and construction needs of the local streets system could be accomplished through either of the following:

- A five-year dedicated local streets millage of 4.4743
- (or) a ten-year dedicated local streets millage of 2.9213.

SECTION V

OUTLINE FOR A PUBLIC EDUCATION STRATEGY

SECTION V

OUTLINE FOR A PUBLIC EDUCATION STRATEGY

As discussed in the previous section, the City of Rochester Hills must secure dedicated funding for maintenance and reconstruction of the local roads system. In the absence of this funding, the City can anticipate a continued deterioration of neighborhood streets, and the potential for drastic cuts in routine streets maintenance. Faced with this prospect, we are suggesting that the City seek a dedicated local streets millage, estimated at 2.9106 mills over ten years.

While millage requests are never popular, they are sometimes necessary to assure the continuation of high quality services or infrastructure. Unfortunately, in many cases, the rationale for a millage, or related necessity of the funds, is not clearly articulated. In these cases, property-owners will generally vote no.

Consequently it is critical that the City of Rochester Hills fully inform its citizens of the facts surrounding the local roads issue, prior to requesting local streets dedicated funding. As well, the City must clearly illustrate the value to be gleaned.

The value of having a sound, well-maintained local street system is apparent to most everyone. Ride quality and appearance are both enhanced in a well-maintained system, as is pedestrian and driver safety. Moreover, communities with superior public services and amenities generally enjoy superior home values. While this cannot necessarily be quantified for roads, it would appear to be a logical conclusion that an attractive, well-maintained local street adds value to the associated properties. Some evidence of this is seen in Exhibit 22.

Exhibit 22 – Millage-related Information

| City | Voted Millage | Year | Focus of Millage | Next Years Increase in Taxable Value |
|------------------|---------------|------|------------------|--------------------------------------|
| Lincoln Park | 2.9 | 2000 | Streets | 12.00% |
| Southgate | 2 | 2000 | Streets | 8.90% |
| Utica | 1.3 | 2000 | Streets | 7.30% |
| St. Clair Shores | 2 | 1999 | Infrastructure | 14.00% |
| Birmingham | 0.7 | 2000 | Infrastructure | 14.00% |

Source: Applicable Cities

Citizens should also be full informed of the potential ramifications of not acting promptly to resolve the local streets issue. The Local Road Fund deficits that we have estimated in this report may vary somewhat in amount, but will definitely occur without a new revenue source and inflow. The construction backlog noted in the report is real and growing. Related, in performing public education, the

City must also assure that citizens fully understand the needs that exist, and the consequences of failing to act.

Summarily, the City should recognize that the public education process should be balanced, comprehensive and as far-reaching as possible, within existing time constraints. Lacking this level of effort, the City will be challenged to convince property-owners to pay additional taxes for a poorly-defined purpose.

In developing the public education process the City should consider the following specific steps:

TASK 1: APPOINT A PROJECT MANAGER

To date, the City has used a committee structure to evaluate the issue of local roads needs and funding. This Community Development Viability (CDV) Committee has now concurred on the need to seek a local streets millage.

At the CDV committee meeting of May 27, a project manager was appointed from the City's administrative staff. This individual should have responsibility for directing and coordinating all public education efforts. However, the public education process cannot be a one-person effort. Volunteers must be identified and coordinated, staff time must be allocated and neighborhood groups must be mobilized to assist. Coordination of these, and other resources is the important, and necessary, responsibility of the project manager.

TASK 2: CLEARLY DEFINE LEGAL PARAMETERS

Public entities are permitted to provide public education regarding the specifics of a millage request. However, there are legal parameters determining the distinction between public education and "proactive campaigning", such as those cited in PA 388 of 1976.

Consequently, it is necessary for the City to secure legal assistance and assure the following:

- An understanding of the general legal limitations of the public education process
- Pre-emptive legal review of materials and planned activities to assure compliance.
- Integration of legal parameters into all phases of the public education process

TASK 3: COMMISSION A COMMUNITY ATTITUDINAL SURVEY (OPTIONAL)

Many public education processes begin with a community survey intended to determine the underlying community sentiment regarding the target issue. In the case of local roads, this survey would be intended to determine community attitudes regarding such issues as:

- The public perception of road condition
- The perception of the City's financial wherewithal
- The options that the citizens see as available to address the problem

If the survey is conducted properly (i.e. statistically significant sample) the feedback would allow the City to develop, and deliver a more meaningful public education package. Additionally, the survey could inquire where residents get their news, allowing the City to concentrate public education efforts most efficiently.

In conducting project research, we identified a number of survey research firms that provide this service. The timeline to conduct such a survey was estimated at 4-6 weeks with estimated costs ranging from \$6,000 - \$8,000.

TASK 4: DEVELOP A SPECIFIC PUBLIC EDUCATION MESSAGE

The development of a concise and meaningful public education message should be a next step. The community attitudinal assessment would be extremely useful to this task, by allowing the City of develop the precise message to address the underlying community issues and/or concerns.

Whether a survey is completed or not, a message should still be developed, to include:

- A clear definition of the issue and objective (e.g. assure top quality residential streets into the future)
- Specification of benefits to be derived (e.g. neighborhood quality, property values, safe streets)

TASK 5: DEVELOP AN INITIAL PUBLIC EDUCATION KIT

As a first step in the implementation of the public education process, an informational kit should be developed. The kit should include:

- A 3-4 page summary of facts
- A brochure summarizing the key issues
- A slide presentation
- A press kit
- Form letters for dissemination to civic organizations, homeowners associations and others

The contents of this report can be used to create most of the elements within the informational kit. As an example, the study's executive summary section may serve as the basis for a summary of facts, or the Power Point presentation used by our project team during the study's focus group session may have continuing utility as an educational slide presentation.

TASK 6: DEVELOP A SPECIFIC PUBLIC EDUCATION ACTIVITIES PLAN

The specifics of a public education initiative will become clearer as the previous tasks are accomplished. Having completed these tasks, the project manager (under the Committee's direction) should focus on the creation of a public education activities plan. This should first include:

- Identification and organization of volunteer groups and supporters
- Identification of key civic organizations and related contacts

- Identification of city resources and staff that will be utilized (within legal parameters)
- Identification of key media outlets

Having accomplished the above, the project manager must determine specific tasks to be performed within the confines of structured work plans, possibly utilizing task forces. Specific tasks will likely include:

- Public presentations regarding the roads issue
- Dissemination of literature and educational kits to citizens and groups
- Public Access programming
- Newspaper and newsletter articles
- Press conferences
- Solicitation of endorsements from community groups and individuals
- Creation and display of flyers and posters
- One-on-one discussions with community members and leaders
- One-on-one phone calls
- Public education meetings.

The public education initiative must be structured to conclude prior to the November 4, 2004 election date. However, some initiatives, such as education of the absentee ballot voter group must be timed for earlier completion. These and other timing issues must also be determined by the project manager, subject to the input and direction of the CDV Committee.

To structure the public education process, the project manager should incorporate the above activities into a concise plan that specifies:

- Activities
- Objectives of the activities
- Responsibilities
- Timelines.

An example is included on the following Exhibit 23. Additionally, the tasks should then be slotted into a public education timeline that coincides with the election. An example is included in Exhibit 24.

Lastly, it should be noted that coordination of the public education effort may pose a daunting task for the project manager, given his existing job duties and responsibilities. Related, professional assistance may be both necessary and advantageous.

APPENDIX A

**FUTURE FINANCIAL FORECAST FOR THE
ROCHESTER HILLS LOCAL ROAD FUND**

APPENDIX A

ASSUMPTIONS USED IN DEVELOPING A FINANCIAL PROJECTION FOR THE LOCAL ROAD FUND

In the following pages (i.e. Schedules 1-7), we have developed five- and ten-year future financial forecasts for the Local Road Fund. These forecasts are used to estimate the following financial outcomes:

- The estimated financial condition of the Local Road Fund in each future fiscal year under the current operating scenario.
- The estimated financial condition of the Local Road Fund in each future fiscal year if the City were to undertake a road rehabilitation program as specified in Exhibits 10 and 11 (i.e. either five- or ten-year duration, see body of the report).
- The millage amount required to fund:
 - Operating deficits only – either five- or ten-year
 - Operating deficits and a five-year schedule for reconstructive upgrade of the road system
 - Operating deficits and a ten-year schedule for reconstructive upgrade of the road system.

The following assumptions form the basics for the five-year and ten-year future financial forecasts for the Local Road Fund.

GENERAL ASSUMPTIONS

1. Historic data for fiscal years 2001-2003 have been compiled consistent with the City's audited financial reports.
2. Fiscal year 2004 data are the City's budget estimates.
3. Data have been collected, and financial estimates have been developed utilizing a number of expert sources, both internal and external. Internal sources have included the Finance Department, Public Service Department and members of City Administration. External sources include various State of Michigan Departments including Treasury, Transportation and Management and Budget, as well as the United States Congressional Budget Office (CBO).
4. Annual inflation factors through 2014 are based on estimates obtained from the CBO. CBO estimates for future years are as follows:
 - 2005: 1.7%
 - 2006: 2.0%
 - 2007-2014: 2.2% per annum

5. Full-time staffing and service levels are assumed to remain relatively constant for the period covered by the financial forecast.
6. It is assumed that the Local Road Fund will not receive any interfund transfers (i.e. subsidies) from the General Fund or Major Road Fund for the period covered by the financial forecasts.

EXPLANATION OF SCHEDULES AND/OR RELATED ASSUMPTIONS

The interaction of the various spreadsheets that comprise the financial model is illustrated in Table A. A description of the specific Schedule pages is as follows.

Schedules 1 and 2

Schedules 1 and 2 are the summary schedules of estimated financial requirements for the Local Road Fund for a future ten-year, or five-year period respectively. Related to this, the financial results presented in the schedules are generated in other secondary schedules.

Schedules 1 and 2 also provide an estimated annual millage amount that would be required to:

- Fund a complete road reconstruction program over five- or ten-years
- Assure sufficient operating revenue to sustain routine services at current levels
- Fund a combination of the above (i.e. operations net of other revenues, and a road reconstruction program) over five- or ten-years.

In regard to total millage requirements, we have attempted to be as specific as possible in defining the specific ongoing millage amount that would be required. Accordingly, the required funding, and millage amount is averaged over the multi-year period following consideration of, and reduction for, the Headlee Amendment's annual impact.

Schedule 3

Schedule 3 summarizes the annual amounts required to fund only the City's construction and rehabilitation program for the Local Road system, over a five- year or ten-year period. Essentially the Schedule adds an inflationary factor (i.e. the CBO assumed rate) to the City's five-year and ten-year Local Road rehabilitation plan (i.e. Exhibits 10 and 11), and then calculates a required millage. This information is then linked to Schedules 1 and 2 for further calculation as discussed above.

Schedule 4

Schedule 4 summarizes the financial requirements of the Local Road Fund for the period fiscal year 2005-2014. Related:

- Schedule 4 is a summary schedule that draws information from the following schedules.
- An operational deficit is estimated for each future fiscal year.

- The deficits are used to calculate annual estimates millage amounts that would be required to eliminate the deficits and fund operations at current levels.
- The annual millage requirements are linked to Schedules 1 and 2 in combination with the Schedule 3 data to calculate the full required millage amount.

Schedule 5

Schedule 5 lists the primary assumptions used in developing the financial model. Schedule 5 can be used as a Master Assumption page to quickly and easily change assumptions to the model (and outcomes) without performing line-item detail changes in supporting Schedules 6-8.

The assumptions illustrated in Schedule 5 have been developed from information obtained from sources listed in the preceding general assumptions subsection.

Schedule 6

Schedule 6 is the line-item detail for the Local Road Fund. As such, this Schedule forms the basis for the summation of Local Road Fund financial requirements contained in Schedule 4. As seen in Schedules 6, the assumption is used to forecast each line-item is illustrated in the far right of the pages. In some cases, these assumptions are drawn from Schedule 5. These are identified by the particular reference/title used in Schedule 5 (e.g. CBO inflation rate assumption etc.). Other line items are driven by a specific assumption. In this case, the assumption is specified, and should be self-explanatory.

One exception is the Total Compensation line item. This line-item, as presented, includes all employee benefits and wages. At the City's request, we have calculated our presumed increase in the compensation on a confidential basis, so as not to compromise the City's position in future labor negotiations.

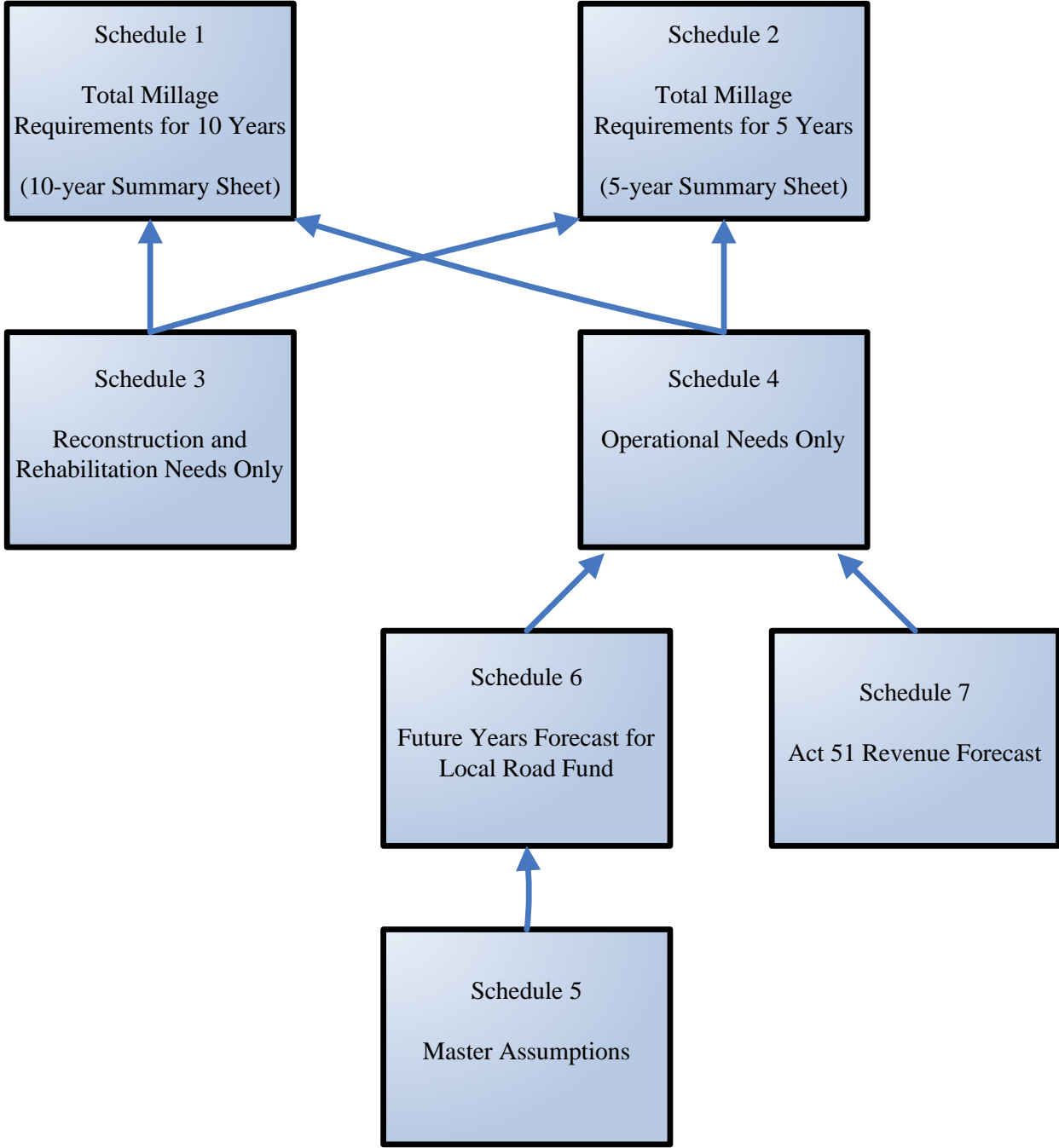
The financial forecast presented in Schedule 6 forms the basis for the summary forecasts contained in Schedule 4.

Schedule 7

Schedule 7 estimated future years' revenues derived from Act 51 funding for the Local Road Fund. Related assumptions are listed with the Department of Transportation Act 51 Funding Formula used as a starting point.

The results of the Schedule 7 forecast, are used in conjunction with the Schedule 6 line-item revenue forecast to specify the revenues from available revenue sources line-item contained in Schedule 4.

Table A
Illustrations of Financial Model Interactions



Schedule 1
City of Rochester Hills
Ten-year Estimation of Revenues, Expenses and Associated Millage Requirements for Local Road Fund

| Fiscal Year: | Actual 2001 | Actual 2002 | Actual 2003 | Budget 2004 | Estimated 2005 | Estimated 2006 | Estimated 2007 | Estimated 2008 | Estimated 2009 | Estimated 2010 | Estimated 2011 | Estimated 2012 | Estimated 2013 | Estimated 2014 |
|--|------------------|------------------|------------------|------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|
| Local Road Fund | | | | | | | | | | | | | | |
| REVENUES | | | | | | | | | | | | | | |
| Revenues from Local Roads Budget | 6,917,433 | 9,517,146 | 6,100,752 | 2,776,597 | 1,491,532 | 1,523,971 | 1,564,695 | 1,610,167 | 1,661,629 | 1,711,976 | 1,849,504 | 1,919,416 | 1,960,012 | 2,051,193 |
| Revenue from Combined Millage | - | - | - | - | 9,438,045 | 9,810,848 | 10,174,094 | 10,525,609 | 10,889,269 | 11,238,542 | 11,599,019 | 11,971,057 | 12,355,029 | 12,751,316 |
| Total Revenues | 6,917,433 | 9,517,146 | 6,100,752 | 2,776,597 | 10,929,577 | 11,334,819 | 11,738,789 | 12,135,776 | 12,550,898 | 12,950,518 | 13,448,523 | 13,890,473 | 14,315,041 | 14,802,509 |
| EXPENDITURES | | | | | | | | | | | | | | |
| Transfer Out | 3,097,332 | 5,032,863 | 762,060 | 768,836 | 764,061 | 798,748 | 856,173 | 860,567 | 888,042 | 862,743 | 862,743 | 836,443 | 859,643 | 905,455 |
| Construction | 113,719 | 809,704 | 2,207,307 | 306,870 | 509,430 | 532,518 | 556,801 | 583,053 | 611,506 | 642,429 | 676,124 | 712,935 | 753,255 | 797,529 |
| Routine Maintenance | 1,387,594 | 1,373,321 | 1,525,715 | 1,787,985 | 1,850,974 | 1,921,555 | 1,999,457 | 2,083,422 | 2,174,176 | 2,272,551 | 2,379,489 | 2,496,067 | 2,623,512 | 2,763,224 |
| Traffic Services | 374,003 | 432,523 | 518,198 | 546,448 | 570,942 | 598,246 | 628,326 | 661,160 | 697,099 | 736,542 | 779,944 | 827,822 | 880,770 | 939,465 |
| Winter Maintenance | 462,572 | 395,957 | 630,157 | 673,800 | 697,759 | 724,642 | 754,347 | 786,401 | 821,092 | 858,744 | 899,728 | 944,465 | 993,437 | 1,047,194 |
| Administration | 814,974 | 779,518 | 724,448 | 585,213 | 810,980 | 831,259 | 854,576 | 880,373 | 907,625 | 936,488 | 967,137 | 999,773 | 1,034,626 | 1,071,955 |
| Construction Budgeted (see Const. Mill Need page) | - | - | - | - | 5,965,266 | 6,073,234 | 6,202,339 | 6,341,422 | 6,473,537 | 6,622,827 | 6,767,124 | 6,917,437 | 7,068,153 | 6,889,307 |
| Total Expenditures | 6,250,194 | 8,823,886 | 6,367,885 | 4,669,152 | 11,169,411 | 11,480,202 | 11,852,019 | 12,196,399 | 12,573,079 | 12,932,324 | 13,332,289 | 13,734,941 | 14,213,396 | 14,414,130 |
| Revenues Over (Under) Expenditures | 667,239 | 693,260 | (267,134) | (1,892,555) | (239,834) | (145,383) | (113,229) | (60,623) | (22,181) | 18,195 | 116,234 | 155,531 | 101,645 | 388,380 |
| Beginning Fund Balance | | | 4,112,892 | 3,845,759 | 1,953,204 | 1,713,370 | 1,567,987 | 1,454,758 | 1,394,135 | 1,371,954 | 1,390,148 | 1,506,382 | 1,661,913 | 1,763,559 |
| Ending Fund Balance | | 4,112,892 | 3,845,759 | 1,953,204 | 1,713,370 | 1,567,987 | 1,454,758 | 1,394,135 | 1,371,954 | 1,390,148 | 1,506,382 | 1,661,913 | 1,763,559 | 2,151,939 |
| ASSUMPTIONS | | | | | Estimated 2005 | Estimated 2006 | Estimated 2007 | Estimated 2008 | Estimated 2009 | Estimated 2010 | Estimated 2011 | Estimated 2012 | Estimated 2013 | Estimated 2014 |
| TV ASSUMPTIONS (from Assumptions Page) | | | | | | | | | | | | | | |
| Total Taxable Value | | | | | 3,230,824,070 | 3,392,365,274 | 3,553,502,624 | 3,713,410,242 | 3,880,513,703 | 4,045,435,535 | 4,217,366,546 | 4,396,604,624 | 4,583,460,320 | 4,778,257,384 |
| MILLAGE ASSUMPTIONS | | | | | | | | | | | | | | |
| Revenue Shortage in Dollars | | | | | 3,712,612 | 3,882,997 | 4,084,985 | 4,244,810 | 4,437,913 | 4,597,521 | 4,715,660 | 4,898,089 | 5,185,230 | 5,473,629 |
| Operating Millage Needed to Cover Shortage | | | | | 1.1491 | 1.1446 | 1.1496 | 1.1431 | 1.1436 | 1.1365 | 1.1182 | 1.1141 | 1.1313 | 1.1455 |
| Construction Dollars Needed | | | | | 5,965,266 | 6,073,234 | 6,202,339 | 6,341,422 | 6,473,537 | 6,622,827 | 6,767,124 | 6,917,437 | 7,068,153 | 6,889,307 |
| Construction Millage Needed to Cover Need | | | | | 1.8464 | 1.7903 | 1.7454 | 1.7077 | 1.6682 | 1.6371 | 1.6046 | 1.5734 | 1.5421 | 1.4418 |
| Total Combined Millage Required | | | | | 2.9955 | 2.9349 | 2.8950 | 2.8508 | 2.8119 | 2.7736 | 2.7227 | 2.6874 | 2.6734 | 2.5873 |
| Operating Millage Needed (based on average) | 1.1376 | | | | | | | | | | | | | |
| Construction Millage Needed (based on average) | 1.6557 | | | | | | | | | | | | | |
| Total Combined Millage Required (based on average) | 2.7932 | | | | | | | | | | | | | |
| Original Millage Requested to Meet Average Need | 2.9213 | | Avg | 2.7932 | | | | | | | | | | |
| Millage Assessed after Headlee Rollback | | | | | 2.9213 | 2.8920 | 2.8631 | 2.8345 | 2.8061 | 2.7781 | 2.7503 | 2.7228 | 2.6956 | 2.6686 |

Schedule 2
City of Rochester Hills
Five-year Estimation of Revenues, Expenses and Associated Millage Requirements for Local Road Fund

| Fiscal Year: | Actual 2001 | Actual 2002 | Actual 2003 | Budget 2004 | Estimated 2005 | Estimated 2006 | Estimated 2007 | Estimated 2008 | Estimated 2009 | | |
|--|-------------------------|-------------------------|-------------------------|-------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|--------|--------|
| Local Road Fund | | | | | | | | | | | |
| REVENUES | | | | | | | | | | | |
| Revenues from Local Roads Budget | 6,917,433 | 9,517,146 | 6,100,752 | 2,776,597 | 1,491,532 | 1,523,971 | 1,564,695 | 1,610,167 | 1,661,629 | | |
| <u>Revenue from Combined Millage</u> | <u>-</u> | <u>-</u> | <u>-</u> | <u>-</u> | <u>14,455,676</u> | <u>15,026,675</u> | <u>15,583,038</u> | <u>16,121,432</u> | <u>16,678,427</u> | | |
| Total Revenues | <u>6,917,433</u> | <u>9,517,146</u> | <u>6,100,752</u> | <u>2,776,597</u> | <u>15,947,209</u> | <u>16,550,647</u> | <u>17,147,733</u> | <u>17,731,599</u> | <u>18,340,056</u> | | |
| EXPENDITURES | | | | | | | | | | | |
| Transfer Out | 3,097,332 | 5,032,863 | 762,060 | 768,836 | 764,061 | 798,748 | 856,173 | 860,567 | 888,042 | | |
| Construction | 113,719 | 809,704 | 2,207,307 | 306,870 | 509,430 | 532,518 | 556,801 | 583,053 | 611,506 | | |
| Routine Maintenance | 1,387,594 | 1,373,321 | 1,525,715 | 1,787,985 | 1,850,974 | 1,921,555 | 1,999,457 | 2,083,422 | 2,174,176 | | |
| Traffic Services | 374,003 | 432,523 | 518,198 | 546,448 | 570,942 | 598,246 | 628,326 | 661,160 | 697,099 | | |
| Winter Maintenance | 462,572 | 395,957 | 630,157 | 673,800 | 697,759 | 724,642 | 754,347 | 786,401 | 821,092 | | |
| Administration | 814,974 | 779,518 | 724,448 | 585,213 | 810,980 | 831,259 | 854,576 | 880,373 | 907,625 | | |
| <u>Construction Budgeted (see Const. Mill Need page)</u> | <u>-</u> | <u>-</u> | <u>-</u> | <u>-</u> | <u>11,022,775</u> | <u>11,244,490</u> | <u>11,497,019</u> | <u>11,739,427</u> | <u>11,933,147</u> | | |
| Total Expenditures | <u>6,250,194</u> | <u>8,823,886</u> | <u>6,367,885</u> | <u>4,669,152</u> | <u>16,226,920</u> | <u>16,651,458</u> | <u>17,146,698</u> | <u>17,594,404</u> | <u>18,032,689</u> | | |
| Revenues Over (Under) Expenditures | 667,239 | 693,260 | (267,134) | (1,892,555) | (279,711) | (100,811) | 1,035 | 137,195 | 307,368 | | |
| Beginning Fund Balance | | | 4,112,892 | 3,845,759 | 1,953,204 | 1,673,493 | 1,572,682 | 1,573,716 | 1,710,912 | | |
| Ending Fund Balance | | 4,112,892 | 3,845,759 | 1,953,204 | 1,673,493 | 1,572,682 | 1,573,716 | 1,710,912 | 2,018,279 | | |
| ASSUMPTIONS | | | | | Estimated 2005 | Estimated 2006 | Estimated 2007 | Estimated 2008 | Estimated 2009 | | |
| TV ASSUMPTIONS (from Assumptions Page) | | | | | | | | | | | |
| Total Taxable Value | | | | | 3,230,824,070 | 3,392,365,274 | 3,553,502,624 | 3,713,410,242 | 3,880,513,703 | | |
| MILLAGE ASSUMPTIONS | | | | | | | | | | | |
| Revenue Shortage in Dollars | | | | | 3,712,612 | 3,882,997 | 4,084,985 | 4,244,810 | 4,437,913 | | |
| Operating Millage Needed to Cover Shortage | | | | | 1.1491 | 1.1446 | 1.1496 | 1.1431 | 1.1436 | | |
| Construction Dollars Needed | | | | | 11,022,775 | 11,244,490 | 11,497,019 | 11,739,427 | 11,933,147 | | |
| Construction Millage Needed to Cover Need | | | | | 3.4118 | 3.3146 | 3.2354 | 3.1614 | 3.0751 | | |
| Total Combined Millage Required | | | | | 4.5609 | 4.4593 | 4.3850 | 4.3045 | 4.2188 | | |
| Operating Millage Needed (based on average) | | | | | 1.1460 | | | | | | |
| Construction Millage Needed (based on average) | | | | | 3.2397 | | | | | | |
| Total Combined Millage Required (based on average) | | | | | 4.3857 | | | | | | |
| Original Millage Requested to Meet Average Need | | | | | 4.4743 | | | | | | |
| Millage Assessed after Headlee Rollback | | | | | | Avg 4.3857 | 4.4743 | 4.4296 | 4.3853 | 4.3414 | 4.2980 |

**Schedule 3
City of Rochester Hills**

Summary of Required 5 and 10 Year Millage Amounts for Construction and Rehabilitation ONLY of the Local Road System from 2005 to 2014

Fiscal Year:

| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|--|------|------|------|------|------|------|------|------|------|------|
| | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 |

Scenario 1 - Five Year

| | | | | | | | | | | |
|------------------------|----------------------|----------------------|----------------------|----------------------|----------------------|--|--|--|--|--|
| Base Amount | \$ 10,838,520 | \$ 10,839,734 | \$ 10,844,592 | \$ 10,834,877 | \$ 10,776,586 | | | | | |
| Inflationary Increase | 184,255 | 404,756 | 652,427 | 904,550 | 1,156,562 | | | | | |
| Total | \$ 11,022,775 | \$ 11,244,490 | \$ 11,497,019 | \$ 11,739,427 | \$ 11,933,147 | | | | | |
| Millage Needed | 3.41 | 3.31 | 3.24 | 3.16 | 3.08 | | | | | |
| Average Millage Needed | 3.2397 | | | | | | | | | |

Fiscal Year:

| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|--|------|------|------|------|------|------|------|------|------|------|
| | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 |

Scenario 2 - Ten Year

| | | | | | | | | | | |
|------------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| Base Amount | \$ 5,865,552 | \$ 5,854,622 | \$ 5,850,372 | \$ 5,852,801 | \$ 5,846,122 | \$ 5,852,194 | \$ 5,850,979 | \$ 5,852,194 | \$ 5,850,979 | \$ 5,580,168 |
| Inflationary Increase | 99,714 | 218,612 | 351,967 | 488,621 | 627,416 | 770,633 | 916,145 | 1,065,243 | 1,217,174 | 1,309,139 |
| Total | \$ 5,965,266 | \$ 6,073,234 | \$ 6,202,339 | \$ 6,341,422 | \$ 6,473,537 | \$ 6,622,827 | \$ 6,767,124 | \$ 6,917,437 | \$ 7,068,153 | \$ 6,889,307 |
| Millage Needed | 1.85 | 1.79 | 1.75 | 1.71 | 1.67 | 1.64 | 1.60 | 1.57 | 1.54 | 1.44 |
| Average Millage Needed | 1.6557 | | | | | | | | | |

Schedule 5
City of Rochester Hills
Assumptions Page
For Local Road Fund Financial Model for 2005 to 2014

| Fiscal Year: | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 |
|--|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| MODEL-WIDE ASSUMPTIONS | | | | | | | | | | |
| Population | 72,587 | 73,363 | 74,148 | 74,942 | 75,744 | 75,744 | 75,744 | 75,744 | 75,744 | 75,744 |
| CBO Inflation Rate | 1.7% | 2.0% | 2.2% | 2.2% | 2.2% | 2.2% | 2.2% | 2.2% | 2.2% | 2.2% |
| Headlee Rollback | 99.25% | 99.00% | 99.00% | 99.00% | 99.00% | 99.00% | 99.00% | 99.00% | 99.00% | 99.00% |
| REVENUE ASSUMPTIONS | | | | | | | | | | |
| % Transfer from Major Roads | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% |
| Licenses & Permits | 3.0% | 3.0% | 3.0% | 3.0% | 3.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% |
| State Funds - Local Roads (enter % increase or decrease) | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% |
| Interest & Dividend Earnings | 2.5% | 2.5% | 2.5% | 2.5% | 2.5% | 2.5% | 2.5% | 2.5% | 2.5% | 2.5% |
| Interest - SAD - (enter actual amounts) | \$ 19,931 | \$ 17,937 | \$ 16,144 | \$ 14,529 | \$ 13,076 | \$ 11,769 | \$ 10,592 | \$ 9,533 | \$ 8,579 | \$ 7,721 |
| SAD - (enter actual amounts) | \$ 37,253 | \$ 46,566 | \$ 58,207 | \$ 72,759 | \$ 90,948 | \$ 113,686 | \$ 142,107 | \$ 177,634 | \$ 222,042 | \$ 277,553 |
| Transfer In - General Fund | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - |
| Miscellaneous Revenue (enter % increase or decrease) | 6.0% | 6.0% | 6.0% | 6.0% | 6.0% | 6.0% | 6.0% | 6.0% | 6.0% | 6.0% |
| Bonds Proceeds (enter actual amount) | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - |
| Transfers In - Capital Improvement Fund | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - |
| EXPENSE ASSUMPTIONS | | | | | | | | | | |
| Transfer Out - Major Roads | | | | | | | | | | |
| Transfer Out - Local Road Imp. 2001 Bond | \$ 192,287.50 | \$ 189,037.50 | \$ 235,587.50 | \$ 230,187.50 | \$ 224,487.50 | \$ 268,487.50 | \$ 260,487.50 | \$ 252,287.50 | \$ 268,787.50 | \$ 284,000.00 |
| Transfer Out - SAD 2001 Bond | \$ 123,050.00 | \$ 120,050.00 | \$ 117,050.00 | \$ 114,050.00 | \$ 111,050.00 | \$ 108,050.00 | \$ 130,050.00 | \$ 125,950.00 | \$ 121,650.00 | \$ 142,250.00 |
| Transfer Out - SAD 2002 Bond | \$ 346,360.50 | \$ 366,110.50 | \$ 385,110.50 | \$ 403,079.70 | \$ 444,329.70 | \$ 433,455.30 | \$ 472,205.30 | \$ 458,205.30 | \$ 469,205.30 | \$ 479,205.30 |
| Transfer Out - Local Road Imp. 1987 Bond | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - |
| Transfer Out - Local Road Imp. 1988 Bond | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - |
| Transfer Out - Local Road Imp. 1994 Bond | \$ 62,875.00 | \$ 60,300.00 | \$ 57,725.00 | \$ 55,150.00 | \$ 52,725.00 | \$ - | \$ - | \$ - | \$ - | \$ - |
| Transfer Out - Local Road Imp. 1995 Bond | \$ 39,487.50 | \$ 63,250.00 | \$ 60,700.00 | \$ 58,100.00 | \$ 55,450.00 | \$ 52,750.00 | \$ - | \$ - | \$ - | \$ - |
| PROPERTY TAX ESTIMATION ASSUMPTIONS | | | | | | | | | | |
| Percentage Increase to TV | | 5.00% | 4.75% | 4.50% | 4.50% | 4.25% | 4.25% | 4.25% | 4.25% | 4.25% |
| Total Taxable Value | \$ 3,230,824,070 | \$ 3,392,365,274 | \$ 3,553,502,624 | \$ 3,713,410,242 | \$ 3,880,513,703 | \$ 4,045,435,535 | \$ 4,217,366,546 | \$ 4,396,604,624 | \$ 4,583,460,320 | \$ 4,778,257,384 |

Schedule 6
City of Rochester Hills
Local Road Fund Actual, Budgeted, and Estimated Revenues and Expenditures for 2001-2014

| Fiscal Year: | Actual 2001 | Actual 2002 | Actual 2003 | Budget 2004 | Estimated 2005 | Estimated 2006 | Estimated 2007 | Estimated 2008 | Estimated 2009 | Estimated 2010 | Estimated 2011 | Estimated 2012 | Estimated 2013 | Estimated 2014 | Comments | |
|--|------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-----------|---|
| REVENUE CATEGORY | | | | | | | | | | | | | | | | |
| License & Permits - Other | 30,357 | 24,782 | 30,041 | 36,000 | 37,080 | 38,192 | 39,338 | 40,518 | 41,734 | 41,734 | 41,734 | 41,734 | 41,734 | 41,734 | 41,734 | License & Permit assumption |
| Fed/State - FEMA Reimbursement | 58,532 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | flat line |
| State Transportation Funds | 1,050,405 | 1,077,452 | 1,129,565 | 1,155,185 | 1,207,514 | 1,235,486 | 1,266,573 | 1,298,429 | 1,331,074 | 1,360,358 | 1,469,995 | 1,502,335 | 1,535,386 | 1,569,165 | 1,569,165 | Act 51 worksheet |
| State Funds - Local Roads | 37,361 | 38,824 | 38,849 | 41,898 | - | - | - | - | - | - | - | - | - | - | - | flat line as Build MI is now part of ACT 51 formula |
| Contributions - Rochester Community Schools | - | 40,000 | 40,807 | 40,000 | 40,000 | 40,000 | 40,000 | 40,000 | 40,000 | 40,000 | 40,000 | 40,000 | 40,000 | 40,000 | 40,000 | per contract |
| Charge for Service - Admin Fees | 10,066 | 7,260 | 9,019 | 6,000 | 6,102 | 6,224 | 6,361 | 6,501 | 6,644 | 6,790 | 6,939 | 7,092 | 7,248 | 7,408 | 7,408 | CBO Inflation Rate assumption |
| Charge for Service - Legal Review Fees | 990 | 90 | 180 | 500 | 509 | 519 | 530 | 542 | 554 | 566 | 578 | 591 | 604 | 617 | 617 | CBO Inflation Rate assumption |
| Charge for Service - City Engineer Department | 67,301 | 74,740 | 38,010 | 50,000 | 60,017 | 61,217 | 62,564 | 63,941 | 65,347 | 65,347 | 65,347 | 65,347 | 65,347 | 65,347 | 65,347 | (avg of 01-03) then CBO then flat post 09 |
| Charge for Service - Labor | 77 | - | 75 | - | - | - | - | - | - | - | - | - | - | - | - | CBO Inflation Rate assumption |
| Charge for Service - Engineering Consultant | 15,480 | 5,640 | 13,567 | 15,000 | 11,562 | 11,794 | 12,053 | 12,318 | 12,589 | 12,589 | 12,589 | 12,589 | 12,589 | 12,589 | 12,589 | (avg of 01-03) then CBO then flat post 09 |
| Charge for Service - Plan Review | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | CBO Inflation Rate assumption |
| Charge for Service - Labor & Signs | 25,506 | 27,994 | 13,140 | 20,000 | 22,213 | 22,658 | 23,156 | 23,666 | 24,186 | 24,186 | 24,186 | 24,186 | 24,186 | 24,186 | 24,186 | (avg of 01-03) then CBO then flat post 09 |
| Charge for Service - Tree Trimming & Removal | 827 | 100 | 1,321 | 200 | 203 | 207 | 212 | 217 | 221 | 226 | 231 | 236 | 242 | 247 | 247 | CBO Inflation Rate assumption |
| Sales- Driveway Culverts | - | 2,478 | 933 | - | - | - | - | - | - | - | - | - | - | - | - | CBO Inflation Rate assumption |
| Fees - Bid Deposits | 3,775 | 4,980 | 635 | - | - | - | - | - | - | - | - | - | - | - | - | CBO Inflation Rate assumption |
| Rental Equipment | 49 | - | (252) | - | - | - | - | - | - | - | - | - | - | - | - | CBO Inflation Rate assumption |
| Interest & Dividend Earnings | 221,532 | 102,447 | 58,936 | 65,000 | 48,830 | 42,834 | 39,200 | 36,369 | 34,853 | 34,299 | 34,754 | 37,660 | 41,548 | 44,089 | 44,089 | Beg. Fund Balance * Int & Div Earnings assumption |
| Interest - SAD | 40,774 | 35,471 | 27,601 | 22,145 | 19,931 | 17,937 | 16,144 | 14,529 | 13,076 | 11,769 | 10,592 | 9,533 | 8,579 | 7,721 | 7,721 | Interest - SAD assumption |
| SAD | 134,148 | 95,374 | 78,301 | 29,802 | 37,253 | 46,566 | 58,207 | 72,759 | 90,948 | 113,686 | 142,107 | 177,634 | 222,042 | 277,553 | 277,553 | SAD - assumption |
| Reimbursement Sidewalk | 16,259 | (330) | 19,211 | - | - | - | - | - | - | - | - | - | - | - | - | flat line |
| Refunds & Rebates | 8,488 | 12,285 | 9,356 | - | - | - | - | - | - | - | - | - | - | - | - | flat line |
| Miscellaneous Revenue | 435 | 49,440 | (10,371) | 300 | 318 | 337 | 357 | 379 | 401 | 426 | 451 | 478 | 507 | 537 | 537 | Miscellaneous Revenue assumption |
| Bonds Proceeds | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | Bonds Proceeds assumption |
| Transfer In - CDBG | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | flat line |
| Transfer In - General Fund | 1,500,000 | 1,500,000 | 1,500,000 | 500,000 | - | - | - | - | - | - | - | - | - | - | - | Transfer In - General Fund assumption |
| Transfers In - Major Roads | 695,071 | 6,418,119 | 3,101,829 | 794,567 | - | - | - | - | - | - | - | - | - | - | - | Act 51 worksheet |
| Transfers In - Capital Improvement Fund | 3,000,000 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | Transfers In - Capital Improvement Fund assumption |
| TOTAL REVENUES | 6,917,433 | 9,517,146 | 6,100,752 | 2,776,597 | 1,491,532 | 1,523,971 | 1,564,695 | 1,610,167 | 1,661,629 | 1,711,976 | 1,849,504 | 1,919,416 | 1,960,012 | 2,051,193 | | |
| Fund Balance to Balance (see 2004 Adopted Budget) | | | | 1,892,555 | 4,669,152 | | | | | | | | | | | |
| EXPENDITURE CATEGORY | | | | | | | | | | | | | | | | |
| Transfers Out | | | | | | | | | | | | | | | | |
| Transfer Out - Major Roads | 37,361 | 38,824 | 38,849 | 38,800 | - | - | - | - | - | - | - | - | - | - | - | Transfer Out - Major Roads assumption |
| Transfer Out - Local Road Imp. 2001 Bond | - | 141,800 | 163,400 | 170,750 | 192,288 | 189,038 | 235,588 | 230,188 | 224,488 | 268,488 | 260,488 | 252,288 | 268,788 | 284,000 | 284,000 | Transfer Out - Local Road Imp. 2001 Bond assumption |
| Transfer Out - SAD 2001 Bond | - | 110,730 | 128,300 | 126,325 | 123,050 | 120,050 | 117,050 | 114,050 | 111,050 | 108,050 | 130,050 | 125,950 | 121,650 | 142,250 | 142,250 | Transfer Out - SAD 2001 Bond assumption |
| Transfer Out - SAD 2002 Bond | - | - | 294,100 | 326,136 | 346,361 | 366,111 | 385,111 | 403,080 | 444,330 | 433,455 | 472,205 | 458,205 | 469,205 | 479,205 | 479,205 | Transfer Out - SAD 2002 Bond assumption |
| Transfer Out - Local Road Imp. 1987 Bond | 9,336 | 8,672 | - | - | - | - | - | - | - | - | - | - | - | - | - | Transfer Out - Local Road Imp. 1987 Bond assumption |
| Transfer Out - Local Road Imp. 1988 Bond | 20,732 | 19,499 | 18,558 | - | - | - | - | - | - | - | - | - | - | - | - | Transfer Out - Local Road Imp. 1988 Bond assumption |
| Transfer Out - Local Road Imp. 1994 Bond | 46,513 | 70,300 | 67,875 | 65,775 | 62,875 | 60,300 | 57,725 | 55,150 | 52,725 | - | - | - | - | - | - | Transfer Out - Local Road Imp. 1994 Bond assumption |
| Transfer Out - Local Road Imp. 1995 Bond | 44,163 | 43,038 | 41,888 | 41,050 | 39,488 | 63,250 | 60,700 | 58,100 | 55,450 | 52,750 | - | - | - | - | - | Transfer Out - Local Road Imp. 1995 Bond assumption |
| Transfer Out - Local Road Imp. 2001 Const. | 2,502,500 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | Transfer Out - Local Road Imp. 2001 Const. assumption |
| Transfer Out - SAD 2001 Const. | 352,500 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | Transfer Out - SAD 2001 Const. Assumption |
| Transfer Out - Local Road Imp. 2001 Const. | - | 4,600,000 | - | - | - | - | - | - | - | - | - | - | - | - | - | Transfer Out - Local Road Imp. 2001 Const. assumption |
| Transfer Out Fleet | 84,227 | - | 9,090 | - | - | - | - | - | - | - | - | - | - | - | - | Transfer Out Fleet assumption |
| TOTAL LOCAL ROAD TRANSFER OUT | 3,097,332 | 5,032,863 | 762,060 | 768,836 | 764,061 | 798,748 | 856,173 | 860,567 | 888,042 | 862,743 | 862,743 | 836,443 | 859,643 | 905,455 | | |

Schedule 6
City of Rochester Hills
Local Road Fund Actual, Budgeted, and Estimated Revenues and Expenditures for 2001-2014

| Fiscal Year: | Actual 2001 | Actual 2002 | Actual 2003 | Budget 2004 | Estimated 2005 | Estimated 2006 | Estimated 2007 | Estimated 2008 | Estimated 2009 | Estimated 2010 | Estimated 2011 | Estimated 2012 | Estimated 2013 | Estimated 2014 | Comments |
|--------------------------------------|------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|--|
| Construction | | | | | | | | | | | | | | | |
| Total Compensation | 130,294 | 420,460 | 273,108 | 216,970 | 390,585 | 411,296 | 432,912 | 456,438 | 482,106 | 510,182 | 540,968 | 574,805 | 612,086 | 653,255 | based on conf. wage assump. & anticipated construction |
| Clothing | - | 361 | - | - | - | - | - | - | - | - | - | - | - | - | - CBO Inflation Rate assumption |
| Overtime Meal Allowance | 231 | - | - | 500 | 509 | 519 | 530 | 542 | 554 | 566 | 578 | 591 | 604 | 617 | CBO Inflation Rate assumption |
| Operating Supplies | - | 241 | - | 300 | 305 | 311 | 318 | 325 | 332 | 340 | 347 | 355 | 362 | 370 | CBO Inflation Rate assumption |
| Material - Drainage Improvement | - | - | - | 1,000 | 1,017 | 1,037 | 1,060 | 1,083 | 1,107 | 1,132 | 1,157 | 1,182 | 1,208 | 1,235 | CBO Inflation Rate assumption |
| Professional Services | 97,558 | 118,918 | 35,431 | 75,000 | 103,692 | 105,766 | 108,093 | 110,471 | 112,901 | 115,385 | 117,923 | 120,518 | 123,169 | 125,879 | based on anticipated construction then CBO inflation |
| Printing & Publishing | 1,116 | 141 | 1,364 | 1,000 | 1,017 | 1,037 | 1,060 | 1,083 | 1,107 | 1,132 | 1,157 | 1,182 | 1,208 | 1,235 | CBO Inflation Rate assumption |
| Rental Equipment | 9,161 | 8,818 | 7,279 | 12,000 | 12,204 | 12,448 | 12,722 | 13,002 | 13,288 | 13,580 | 13,879 | 14,184 | 14,496 | 14,815 | CBO Inflation Rate assumption |
| Miscellaneous Expense | - | 250 | - | 100 | 102 | 104 | 106 | 108 | 111 | 113 | 116 | 118 | 121 | 123 | CBO Inflation Rate assumption |
| Construction & Improvements | (124,641) | 260,515 | 1,890,126 | - | - | - | - | - | - | - | - | - | - | - | see Construction Millage Need sheet |
| TOTAL CONSTRUCTION | 113,719 | 809,704 | 2,207,307 | 306,870 | 509,430 | 532,518 | 556,801 | 583,053 | 611,506 | 642,429 | 676,124 | 712,935 | 753,255 | 797,529 | |
| Routine Maintenance | | | | | | | | | | | | | | | |
| Total Compensation | 593,252 | 656,713 | 759,679 | 833,470 | 880,232 | 931,398 | 987,517 | 1,049,219 | 1,117,221 | 1,192,343 | 1,275,516 | 1,367,807 | 1,470,430 | 1,584,774 | based on confidential wage assumptions |
| Clothing | 457 | 1,346 | 66 | 800 | 814 | 830 | 848 | 867 | 886 | 905 | 925 | 946 | 966 | 988 | CBO Inflation Rate assumption |
| Overtime Meal Allowance | - | 63 | 174 | 100 | 102 | 104 | 106 | 108 | 111 | 113 | 116 | 118 | 121 | 123 | CBO Inflation Rate assumption |
| Operating Supplies | 4,478 | 5,058 | 4,628 | 6,000 | 6,102 | 6,224 | 6,361 | 6,501 | 6,644 | 6,790 | 6,939 | 7,092 | 7,248 | 7,408 | CBO Inflation Rate assumption |
| Material - Chloride | 49,137 | 83,033 | 76,519 | - | - | - | - | - | - | - | - | - | - | - | flat line |
| Material - Road Maintenance - Paved | 73,629 | 111,484 | 131,116 | 150,000 | 152,550 | 155,601 | 159,024 | 162,523 | 166,098 | 169,752 | 173,487 | 177,304 | 181,204 | 185,191 | CBO Inflation Rate assumption |
| Material - Road Maintenance - Gravel | 101,378 | 23,950 | - | 90,000 | 91,530 | 93,361 | 95,415 | 97,514 | 99,659 | 101,851 | 104,092 | 106,382 | 108,723 | 111,115 | CBO Inflation Rate assumption |
| Professional Services | 306 | 11 | 60 | - | - | - | - | - | - | - | - | - | - | - | flat line |
| Contractual Services | 250 | 8,162 | 11,225 | 206,700 | 210,214 | 214,418 | 219,135 | 223,956 | 228,883 | 233,919 | 239,065 | 244,324 | 249,700 | 255,193 | CBO Inflation Rate assumption |
| Contractual Sidewalk Program | 39,424 | - | - | - | - | - | - | - | - | - | - | - | - | - | CBO Inflation Rate assumption |
| Contractual Tree Trimming Removal | 26,562 | 31,969 | 43,014 | - | - | - | - | - | - | - | - | - | - | - | CBO Inflation Rate assumption |
| Membership Dues | 530 | - | - | - | - | - | - | - | - | - | - | - | - | - | CBO Inflation Rate assumption |
| Travel & Seminars | - | - | - | - | - | - | - | - | - | - | - | - | - | - | CBO Inflation Rate assumption |
| Maintenance - Equipment | 432 | - | (9,696) | - | - | - | - | - | - | - | - | - | - | - | CBO Inflation Rate assumption |
| Routine Maintenance | - | - | - | - | - | - | - | - | - | - | - | - | - | - | CBO Inflation Rate assumption |
| Rental Equipment | 448,145 | 381,919 | 418,711 | 420,000 | 427,140 | 435,683 | 445,268 | 455,064 | 465,075 | 475,307 | 485,764 | 496,450 | 507,372 | 518,534 | CBO Inflation Rate assumption |
| Rental Uniform | 4,341 | 4,256 | - | - | - | - | - | - | - | - | - | - | - | - | CBO Inflation Rate assumption |
| Occupancy Facility Charges | 45,273 | 65,357 | 90,219 | 80,915 | 82,291 | 83,936 | 85,783 | 87,670 | 89,599 | 91,570 | 93,585 | 95,644 | 97,748 | 99,898 | CBO Inflation Rate assumption |
| Miscellaneous | - | - | - | - | - | - | - | - | - | - | - | - | - | - | CBO Inflation Rate assumption |
| TOTAL ROUTINE MAINTENANCE | 1,387,594 | 1,373,321 | 1,525,715 | 1,787,985 | 1,850,974 | 1,921,555 | 1,999,457 | 2,083,422 | 2,174,176 | 2,272,551 | 2,379,489 | 2,496,067 | 2,623,512 | 2,763,224 | |
| Traffic Services | | | | | | | | | | | | | | | |
| Total Compensation | 238,758 | 314,822 | 353,765 | 382,750 | 404,461 | 428,436 | 454,780 | 483,796 | 515,833 | 551,288 | 590,614 | 634,327 | 683,018 | 737,363 | based on confidential wage assumptions |
| Clothing | - | - | 66 | - | - | - | - | - | - | - | - | - | - | - | CBO Inflation Rate assumption |
| Overtime Meal Allowance | - | - | - | 50 | 51 | 52 | 53 | 54 | 55 | 57 | 58 | 59 | 60 | 62 | CBO Inflation Rate assumption |
| Operating Supplies | 70,266 | 35,595 | 54,544 | 75,000 | 76,275 | 77,801 | 79,512 | 81,261 | 83,049 | 84,876 | 86,743 | 88,652 | 90,602 | 92,595 | CBO Inflation Rate assumption |
| Professional Services | 7,439 | 21,053 | 10,894 | 10,000 | 10,170 | 10,373 | 10,602 | 10,835 | 11,073 | 11,317 | 11,566 | 11,820 | 12,080 | 12,346 | CBO Inflation Rate assumption |
| Membership Dues | 120 | 4,777 | 5,667 | 6,500 | 6,611 | 6,743 | 6,891 | 7,043 | 7,198 | 7,356 | 7,518 | 7,683 | 7,852 | 8,025 | CBO Inflation Rate assumption |
| Travel & Seminars | 234 | 26 | 2,276 | 2,500 | 2,543 | 2,593 | 2,650 | 2,709 | 2,768 | 2,829 | 2,891 | 2,955 | 3,020 | 3,087 | CBO Inflation Rate assumption |
| Printing & Publishing | - | 19 | - | 100 | 102 | 104 | 106 | 108 | 111 | 113 | 116 | 118 | 121 | 123 | CBO Inflation Rate assumption |
| Street Lighting | 20,155 | 12,707 | 22,720 | 25,000 | 25,425 | 25,934 | 26,504 | 27,087 | 27,683 | 28,292 | 28,914 | 29,551 | 30,201 | 30,865 | CBO Inflation Rate assumption |
| Rental Equipment | 16,321 | 25,489 | 37,109 | 25,000 | 25,425 | 25,934 | 26,504 | 27,087 | 27,683 | 28,292 | 28,914 | 29,551 | 30,201 | 30,865 | CBO Inflation Rate assumption |
| Occupancy Facility Charges | 13,620 | 11,035 | 13,880 | 12,448 | 12,660 | 12,913 | 13,197 | 13,487 | 13,784 | 14,087 | 14,397 | 14,714 | 15,038 | 15,368 | CBO Inflation Rate assumption |
| Rental Lease Land & Building | 7,000 | 7,000 | 9,200 | 7,000 | 7,119 | 7,261 | 7,421 | 7,584 | 7,751 | 7,922 | 8,096 | 8,274 | 8,456 | 8,642 | CBO Inflation Rate assumption |
| Miscellaneous Expense | 90 | - | - | 100 | 102 | 104 | 106 | 108 | 111 | 113 | 116 | 118 | 121 | 123 | CBO Inflation Rate assumption |
| Equipment Capitalized | - | - | 8,075 | - | - | - | - | - | - | - | - | - | - | - | CBO Inflation Rate assumption |
| TOTAL TRAFFIC MAINTENANCE | 374,003 | 432,523 | 518,198 | 546,448 | 570,942 | 598,246 | 628,326 | 661,160 | 697,099 | 736,542 | 779,944 | 827,822 | 880,770 | 939,465 | |

Schedule 6
City of Rochester Hills
Local Road Fund Actual, Budgeted, and Estimated Revenues and Expenditures for 2001-2014

| Fiscal Year: | Actual 2001 | Actual 2002 | Actual 2003 | Budget 2004 | Estimated 2005 | Estimated 2006 | Estimated 2007 | Estimated 2008 | Estimated 2009 | Estimated 2010 | Estimated 2011 | Estimated 2012 | Estimated 2013 | Estimated 2014 | Comments |
|---|------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|--|
| Winter Maintenance | | | | | | | | | | | | | | | |
| Total Compensation | 211,209 | 201,806 | 326,725 | 311,300 | 329,096 | 348,606 | 370,038 | 393,638 | 419,688 | 448,509 | 480,468 | 515,981 | 555,526 | 599,649 | based on confidential wage assumptions |
| Overtime Meal Allowance | 152 | 686 | 992 | 1,000 | 1,017 | 1,037 | 1,060 | 1,083 | 1,107 | 1,132 | 1,157 | 1,182 | 1,208 | 1,235 | CBO Inflation Rate assumption |
| Operating Supplies | 3,238 | 233 | 330 | 1,500 | 1,526 | 1,556 | 1,590 | 1,625 | 1,661 | 1,698 | 1,735 | 1,773 | 1,812 | 1,852 | CBO Inflation Rate assumption |
| Material - Road Maint. - Paved (salt & deicer) | 60,223 | 57,337 | - | 95,000 | 96,615 | 98,547 | 100,715 | 102,931 | 105,196 | 107,510 | 109,875 | 112,292 | 114,763 | 117,288 | CBO Inflation Rate assumption |
| Material - Road Maint. - Gravel (sand & chloride) | 5,432 | (192) | 72,060 | 10,000 | 10,170 | 10,373 | 10,602 | 10,835 | 11,073 | 11,317 | 11,566 | 11,820 | 12,080 | 12,346 | CBO Inflation Rate assumption |
| Professional Services | 20 | - | 18 | - | - | - | - | - | - | - | - | - | - | - | CBO Inflation Rate assumption |
| Contractual Services | - | - | - | 20,000 | 20,340 | 20,747 | 21,203 | 21,670 | 22,146 | 22,634 | 23,132 | 23,640 | 24,161 | 24,692 | CBO Inflation Rate assumption |
| Travel & Seminars | - | - | - | - | - | - | - | - | - | - | - | - | - | - | CBO Inflation Rate assumption |
| Routine Maintenance | - | - | - | - | - | - | - | - | - | - | - | - | - | - | CBO Inflation Rate assumption |
| Rental Equipment | 182,298 | 136,087 | 230,032 | 235,000 | 238,995 | 243,775 | 249,138 | 254,619 | 260,221 | 265,945 | 271,796 | 277,776 | 283,887 | 290,132 | CBO Inflation Rate assumption |
| Miscellaneous Expense | - | - | - | - | - | - | - | - | - | - | - | - | - | - | CBO Inflation Rate assumption |
| TOTAL WINTER MAINTENANCE | 462,572 | 395,957 | 630,157 | 673,800 | 697,759 | 724,642 | 754,347 | 786,401 | 821,092 | 858,744 | 899,728 | 944,465 | 993,437 | 1,047,194 | |
| Administration | | | | | | | | | | | | | | | |
| Total Compensation | 75,228 | 58,732 | 141,618 | 132,070 | 139,898 | 148,509 | 157,994 | 168,467 | 180,057 | 192,913 | 207,203 | 223,121 | 240,888 | 260,754 | based on confidential wage assumptions |
| Clothing | 476 | - | 1,380 | 800 | 814 | 830 | 848 | 867 | 886 | 905 | 925 | 946 | 966 | 988 | CBO Inflation Rate assumption |
| Tuition Refund | - | - | - | 3,150 | 3,204 | 3,268 | 3,340 | 3,413 | 3,488 | 3,565 | 3,643 | 3,723 | 3,805 | 3,889 | CBO Inflation Rate assumption |
| Office Supplies | - | - | 482 | 1,000 | 1,017 | 1,037 | 1,060 | 1,083 | 1,107 | 1,132 | 1,157 | 1,182 | 1,208 | 1,235 | CBO Inflation Rate assumption |
| Operating Supplies | 420 | 1,140 | - | - | - | - | - | - | - | - | - | - | - | - | CBO Inflation Rate assumption |
| Professional Services | 4 | - | - | 20,000 | 20,340 | 20,747 | 21,203 | 21,670 | 22,146 | 22,634 | 23,132 | 23,640 | 24,161 | 24,692 | CBO Inflation Rate assumption |
| Professional Services - Other | - | 6,945 | 18,077 | - | - | - | - | - | - | - | - | - | - | - | CBO Inflation Rate assumption |
| Interfund Charges Admin | 552,719 | 582,832 | 426,631 | 277,141 | 504,732 | 513,312 | 523,578 | 535,097 | 546,869 | 558,900 | 571,196 | 583,762 | 596,605 | 609,730 | avg 02 & 03 then CBO |
| Interfund Charges MIS | 110,448 | 67,430 | 92,047 | 90,838 | 79,739 | 81,094 | 82,716 | 84,536 | 86,395 | 88,296 | 90,239 | 92,224 | 94,253 | 96,326 | avg 02 & 03 then CBO |
| Recording Fees | 758 | 685 | 1,129 | 800 | 814 | 830 | 848 | 867 | 886 | 905 | 925 | 946 | 966 | 988 | CBO Inflation Rate assumption |
| Membership Dues | 4,791 | 1,375 | - | 400 | 407 | 415 | 424 | 433 | 443 | 453 | 463 | 473 | 483 | 494 | CBO Inflation Rate assumption |
| Travel & Seminars | 754 | 294 | - | - | - | - | - | - | - | - | - | - | - | - | CBO Inflation Rate assumption |
| Printing & Publishing | 138 | 716 | 12 | 200 | 203 | 207 | 212 | 217 | 221 | 226 | 231 | 236 | 242 | 247 | CBO Inflation Rate assumption |
| Liability Insurance & Bonds | 19,230 | 18,458 | 21,060 | 21,943 | 22,316 | 22,762 | 23,263 | 23,775 | 24,298 | 24,833 | 25,379 | 25,937 | 26,508 | 27,091 | CBO Inflation Rate assumption |
| Maintenance Equipment | 125 | - | - | 750 | 763 | 778 | 795 | 813 | 830 | 849 | 867 | 887 | 906 | 926 | CBO Inflation Rate assumption |
| Rental Equipment | - | - | - | - | - | - | - | - | - | - | - | - | - | - | CBO Inflation Rate assumption |
| Rental Uniform | - | - | 4,081 | 5,000 | 5,085 | 5,187 | 5,301 | 5,417 | 5,537 | 5,658 | 5,783 | 5,910 | 6,040 | 6,173 | CBO Inflation Rate assumption |
| Occupancy Facility Charges | 49,883 | 40,911 | 17,932 | 31,121 | 31,650 | 32,283 | 32,993 | 33,719 | 34,461 | 35,219 | 35,994 | 36,786 | 37,595 | 38,422 | CBO Inflation Rate assumption |
| Equipment Capitalized | - | - | - | - | - | - | - | - | - | - | - | - | - | - | CBO Inflation Rate assumption |
| TOTAL ADMINISTRATION | 814,974 | 779,518 | 724,448 | 585,213 | 810,980 | 831,259 | 854,576 | 880,373 | 907,625 | 936,488 | 967,137 | 999,773 | 1,034,626 | 1,071,955 | |
| TOTAL EXPENDITURES | 6,250,194 | 8,823,886 | 6,367,885 | 4,669,152 | 5,204,145 | 5,406,968 | 5,649,680 | 5,854,977 | 6,099,541 | 6,309,497 | 6,565,165 | 6,817,505 | 7,145,242 | 7,524,822 | |

Schedule 7
City of Rochester Hills
Estimation of Act 51 Dollars for Local and Major Road Funds for 2004 to 2014

| MASTER ASSUMPTIONS/DATA COMPONENTS | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 |
|---|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Population: | 68,825 | 68,825 | 68,825 | 68,825 | 68,825 | 68,825 | 68,825 | 75,744 | 75,744 | 75,744 | 75,744 |
| Miles of Roads: | | | | | | | | | | | |
| - Trunkline: | 32.28 | 32.28 | 32.28 | 32.28 | 32.28 | 32.28 | 32.28 | 32.28 | 32.28 | 32.28 | 33.28 |
| - Major | 36.66 | 36.66 | 36.66 | 36.66 | 36.66 | 36.66 | 36.66 | 36.66 | 36.66 | 36.66 | 37.66 |
| - Local | 204.29 | 204.29 | 205.79 | 207.29 | 208.79 | 210.29 | 210.29 | 210.29 | 210.29 | 210.29 | 210.29 |
| Major Streets Population Factor | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 |
| Assumed Rate of Annual Growth | | | 2.0% | 2.2% | 2.2% | 2.2% | 2.2% | 2.2% | 2.2% | 2.2% | 2.2% |

Mileage listed varies slightly from that in body of report based on actual miles reported by Michigan Department of Transportation for 2004.

MAJOR STREETS CALCULATION

| | | | | | | | | | | | |
|--|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| Per Capita Distribution | 31.62 | 30.39 | 31.00 | 31.68 | 32.38 | 33.09 | 33.82 | 34.56 | 35.32 | 36.10 | 36.89 |
| TOTAL PER CAPITA AMOUNT | 31.62 | 30.39 | 31.00 | 31.68 | 32.38 | 33.09 | 33.82 | 34.56 | 35.32 | 36.10 | 36.89 |
| Per Mile Distribution | 9,948.00 | 9,509.00 | 9,699.18 | 9,912.56 | 10,130.64 | 10,353.51 | 10,581.29 | 10,814.08 | 11,051.99 | 11,295.13 | 11,543.62 |
| TOTAL PER MILE AMOUNT | 9,948 | 9,509 | 9,699 | 9,913 | 10,131 | 10,354 | 10,581 | 10,814 | 11,052 | 11,295 | 11,544 |
| REVENUE FORMULA: | | | | | | | | | | | |
| population * per capita amount | 2,176,247 | 2,091,592 | 2,133,424 | 2,180,359 | 2,228,327 | 2,277,350 | 2,327,452 | 2,617,783 | 2,675,374 | 2,734,232 | 2,794,385 |
| # of miles * amt. per mile * factor | 1,711,792 | 1,636,252 | 1,668,977 | 1,705,694 | 1,743,219 | 1,781,570 | 1,820,765 | 1,860,822 | 1,901,760 | 1,943,598 | 2,045,230 |
| TOTAL ANNUAL REVENUE | 3,888,039 | 3,727,843 | 3,802,400 | 3,886,053 | 3,971,546 | 4,058,920 | 4,148,217 | 4,478,604 | 4,577,134 | 4,677,831 | 4,839,615 |
| % transfer to Local Roads | | - | - | - | - | - | - | - | - | - | - |
| Total MS Revenue to Transfer to Local Roads | - | - | - | - | - | - | - | - | - | - | - |

LOCAL STREETS CALCULATION

| | | | | | | | | | | | |
|--------------------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| Per Capita Distribution | 10.54 | 10.13 | 10.33 | 10.56 | 10.79 | 11.03 | 11.27 | 11.52 | 11.77 | 12.03 | 12.30 |
| TOTAL PER CAPITA AMOUNT | 10.54 | 10.13 | 10.33 | 10.56 | 10.79 | 11.03 | 11.27 | 11.52 | 11.77 | 12.03 | 12.30 |
| Per Mile Distribution | 2,599.00 | 2,498.00 | 2,547.96 | 2,604.02 | 2,661.30 | 2,719.85 | 2,779.69 | 2,840.84 | 2,903.34 | 2,967.21 | 3,032.49 |
| TOTAL PER MILE AMOUNT | 2,599 | 2,498 | 2,548 | 2,604 | 2,661 | 2,720 | 2,780 | 2,841 | 2,903 | 2,967 | 3,032 |
| REVENUE FORMULA: | | | | | | | | | | | |
| population * per capita amount | 725,416 | 697,197 | 711,141 | 726,786 | 742,776 | 759,117 | 775,817 | 872,594 | 891,791 | 911,411 | 931,462 |
| # of miles * amt. per mile | 530,950 | 510,316 | 524,345 | 539,786 | 555,654 | 571,958 | 584,541 | 597,401 | 610,543 | 623,975 | 637,703 |
| TOTAL ANNUAL REVENUE | 1,256,365 | 1,207,514 | 1,235,486 | 1,266,573 | 1,298,429 | 1,331,074 | 1,360,358 | 1,469,995 | 1,502,335 | 1,535,386 | 1,569,165 |