

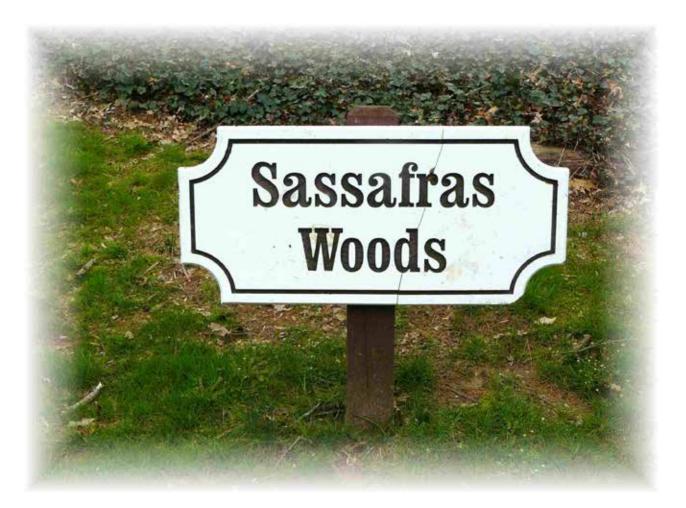


Condition Assessment Reserve Fund Plan Update 2020 Sassafras Woods

MASON & MASON

CAPITAL RESERVE ANALYSTS. INC.

Burke, Virginia



Prepared for: The Board of Trustees Burke Centre Conservancy





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March 31, 2020

Mr. Bob Bray, Finance Administrator Burke Centre Conservancy 6060 Burke Centre Parkway Burke, Virginia 22015-3702

RE: CONDITION ASSESSMENT AND RESERVE FUND PLAN UPDATE 2020 Sassafras Woods Cluster Burke, Virginia Project No. 8903#31

Dear Mr. Bray:

Mason & Mason Capital Reserve Analysts, Inc. has completed the report for Sassafras Woods.

As outlined in our proposal, the report is being submitted to you and the Board of Directors for review and comment. A review of the Summary of Key Issues iii, and Sections 1 and 2 will provide you with our findings and financial analyses. We will be happy to meet with the Board to help them fully understand the issues. If no changes are necessary, please consider this version the final report. If changes are requested, Mason & Mason will make the revisions and re-issue the report. We encourage the Board to complete this process expeditiously and will support the effort.

We genuinely appreciate the opportunity to work with you and the Cluster.

Sincerely,

Mason & Mason Capital Reserve Analysts, Inc.

James G. Mason III, R.S. Vice President



James G. Mason, R.S. Principal



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FOREWORD

PLEASE READ THIS FIRST

This report contains information the Board requires to fulfill its fiduciary responsibilities with respect to the financial health of the Association. Even if you are already familiar with the concepts of capital reserve planning, it requires some study. The information in this report is vital to your Association's financial health. Unless you understand it, your Association may not follow it. This may lead to underfunding and financial stress at some time in the future.

Our years of experience providing reserve analysis to both first-time and multi-update return clients have compelled us to develop a logical funding approach, which is based on generational equity and fairness to common-interest property owners that helps ensure realistic reserve funding levels.

Our approach is neither standard, nor is it necessarily easy to understand without first becoming familiar with some basic concepts. Section 3 explains these concepts in more detail. We want you to understand them because a well-informed Association makes the best decisions for its common-property owners.

SUMMARY OF KEY ISSUES

Different readers will look for different things from this report. Perhaps the homeowner will just be looking for the high points. A prospective buyer may be looking at the general financial condition of the Association's reserves. A Board member should probe deeper in order to understand the financial tools that will be helpful in fulfilling their fiduciary responsibilities to the Association.

The Summary of Key Issues presents a recapitulation of the most important findings of Sassafras Woods' Reserve Fund Plan Update. Each is discussed in greater detail in the body of the report. We encourage the reader to "go deeper" into the report, and we have written it in a way that's understandable to a first-time reader.

Analyzing the capital reserves reveals that:

 The reserve fund is fully funded through 2019. Our goal is to maintain fully funded status through the end of the 20-year period (2039).

In order to maintain fully funded status, the Board should:

- Reduce the annual contribution in 2021 from \$12,161 to \$10,060, and plan on annual adjustments of 1.00% thereafter.
- This represents a reduction from \$12.35 to \$10.22 (a net reduction of \$2.13) per residence, per month (based on 82 Townhomes).

Supporting data are contained in the body of this report, and we encourage the reader to take the time to understand it.

VISUAL EVALUATION METHODOLOGY

The first step in the process is collection of specific data on each of your community's commonly held components. This information includes quantity and condition of each included component. We collect most of this data during the on-site field survey. When this information is not available in the field, we may obtain it by discussion with those knowledgeable through management or service activities.

The field survey or condition assessment is visual and non-invasive. We don't perform destructive testing to uncover hidden conditions; perform operational testing of mechanical, electrical, plumbing, fire and life safety protection; or perform code compliance analysis.

We make no warranty that every defect has been identified. Our scope of work doesn't include an evaluation of moisture penetration, mold, indoor air quality, or other environmental issues. While we may identify safety, hazards observed during the course of the field survey, this report shouldn't be considered a safety evaluation of components.

Replacement costs are sometimes based on published references, such as R. S. Means. However, our opinions of replacement costs usually include removal and disposal and are usually based on experience with similar projects including information provided by local contractors and reported client experience. Actual construction costs can vary significantly due to seasonal considerations, material availability, labor, economy of scale, and other factors beyond our control.

Projected useful service lives are based on statistical data and our opinion of their current visual condition. No guarantee of component service life expectancies are expressed or implied and none should be inferred by this report. Your actual experience in replacing components may differ significantly from the projections in the report, because of conditions beyond our control or that were not visually apparent at the time of the survey.

1. INTRODUCTION

1.1 Background: Sassafras Woods Cluster is comprised of 82 townhomes within twelve buildings located on Sassafras Woods Court off Ward's Grove Circle north of Burke Centre Parkway in Burke, Virginia. The Cluster was constructed circa 1977. The street layout includes concrete sidewalks, curbs and gutters, and 20 parking bays providing 185 spaces. Site features include concrete steps, metal handrailings, mailbox modules, and a storm water drainage system.

We are providing the Condition Assessment and Reserve Fund Plan Update based on Proposal Acceptance Agreement No. 8903#31 dated October 9, 2019. Our services are subject to all terms and conditions specified therein.

Mason & Mason did not review the declarations, covenants, or other organization documents pertaining to the establishment and governance of the Cluster. Ultimately, the establishment, management, and expenditure of reserves are within the discretion of the Cluster and its Board of Directors pursuant to their organizational documents and subject to the laws of the applicable jurisdiction. We are not financially associated with Burke Centre Conservancy Management or the Cluster, and therefore do not have any conflicts of interest that would bias this report. Information provided by Management is deemed reliable. This report is not intended to be an audit or a forensic investigation. This report is not a mandate but is intended to be a guide for future planning.

Mason & Mason provided a Level I Condition Assessment and Reserve Fund Plan for Sassafras Woods Cluster in 2006, and Level II Updates in 2010 and 2015. This report is an additional Level II Update and includes a new condition assessment. All common components were visually observed. Measurements and quantities were generally accepted from the previous report except where changes have occurred. The update report is a stand-alone document and reference to the previous report should not be necessary.

James G. Mason III, R. S. conducted the field evaluation for this report on March 18, 2020. The sky was overcast, and the temperature was approximately 51 degrees F. Precipitation had not occurred for several days prior to the site visit. The pavements and grounds were generally dry and clean of debris.

1.2 Principal Findings: The common assets appear to be in overall continuing good condition. The community is approaching a 45-year benchmark in terms of replacement of major systems. The asphalt drivelanes and parking bays were restored circa 2013 and are in continuing good condition. The next asphalt restoration project should include full-depth repair of deflected pavements, profile milling to a depth of two inches and new compacted asphalt. The next pavement maintenance cycle is scheduled in about five years. Pavement maintenance should include full-depth repairs, crack filling, and seal coating and should performed every six years.

The concrete sidewalks and the curbs and gutters range from fair to continuing good condition with a few deficiencies observed, requiring repair near-term. The liability and costs associated with personal injury lawsuits resulting primarily from sidewalk and curb tripping hazards are too great to defer repair. It is our opinion that deficiencies, which pose a hazard to pedestrians should be corrected as soon as practicable.

The steps and the metal handrailings are in continuing good condition, and we have extended the railing service life by a few additional years. We observed a minor amount of erosion, especially near address 10240, which should be mitigated with the use of the Storm Water Drainage System Allowance, near-term. Mailbox modules are in generally fair condition and scheduled for replacement in about seven years.

The pricing provided by Management indicates that moderate price reductions have occurred since 2015 resulting in a slightly lower than projected level of contribution. Currently the reserve fund appears to be fully funded for the current cycle and the contributions should be slightly lowered to address generational equity issues, while maintaining fully funded status long-term. The Association has adequate reserve funding and should be proactive in making the necessary common component repairs and replacements.

In order to maintain the physical attributes that preserve property values and provide a safe environment for occupants and guests, a series of capital expenditures should be anticipated. Consequently, we have scheduled near-, mid-, and late-term restoration and replacement projects based on anticipated need from our experience with similar properties.

Generally, our approach is to group appropriately related component replacement items into projects. This creates a more realistic model and allows a grouping timeline that is more convenient to schedule and logical to accomplish. Please see the Table 1 Discussion, Column 18, and the Asphalt Pavement Report in Section 7, for specific information.

2. FINANCIAL ANALYSIS

We track the annual inflation rate among our clients based on their reported costs for typical services. The average rate of inflation since the 2008 recession has been 1.46% according to the U.S. Labor Department and is similar in our experience with clients. Substantially higher inflation rates have not materialized since then. So, we are using a 2% annual rate of inflation in our calculations. Interest income has also remained low since 2008, and many smaller Associations and Condominiums are earning less than 2% on savings accounts. So, we are using a 1.5% interest income rate of return in our calculations. However, unlike reserves, interest income is taxable, which may reduce the net gain even further. We anticipate increasingly volatile economic conditions near to mid-term. It is prudent to keep a close watch on the economy and be ready to respond by updating the reserve fund plan as economic changes dictate.

2.1 Calculation Basics: The Cluster is on a calendar fiscal year. Management reported that the audited reserve fund balance, including cash and securities, as of December 31, 2019, was \$115,044. We have used 2.00% annual inflation and 1.50% annual interest income in our calculations. The total expenditures for the twenty-year period for both the Cash Flow Method and Component Method are projected to be \$251,795.

2.2 Current Funding Analysis, Cash Flow Method (Table 3): The 2020 annual contribution to reserves has been set at \$12,161 with a presumed 2.0% annual increase. At this level, the total for all annual contributions for the twenty-year period would be \$295,480, and the total interest income is projected to be \$46,375. This funding results in unnecessarily high balances throughout the twenty-year period and over funds the reserves.

2.3 Alternative Funding Analysis, Cash Flow Method, Hybrid Approach (Table 3.1): This plan provides the annual contributions necessary to maintain balances more consistent with the fully funded status by reducing the annual contribution to \$10,060 in 2021 and providing a 1.00% annual adjustment thereafter in subsequent years. This plan allows for a gradual increase over time after the initial reduction and addresses generational equity issues. The total for all annual contributions for the twenty-year period would be \$221,510, and the total interest income is projected to be \$36,535. The fully funded balance in 2039 is \$121,294.

2.4 Funding Analysis, Component Method (Table 4): This method of funding would require variable annual contributions, averaging \$11,270 over the twenty-year period. The total for all annual contributions would be \$225,398, and the total interest income is projected to be \$32,647. The fully funded balance in 2039 is \$121,294. The Component Method model considers the current reserve fund balance in computing individual component contributions for current cycles.

3. METHODS OF FUNDING

Once the data are compiled, our proprietary software produces two distinct funding methods. These are the **Component Method and Cash Flow Method**. Each of these methods is used in analyzing your Association's reserve status and each plays a role in the Board's decision on how to fund reserves. While we provide the guidance, the choice of funding method is ultimately the prerogative of the Board. Considering the vulnerability of the Association's assets, its risk tolerance, and its ability to fund contributions, the Board should decide how the Association will fund its reserves and at what level.

3.1 Component Method: As reserve analysts, we recognize the value of Component Method calculations as they address both future replacement costs and the time remaining to fund them. This is the foundation of the savings concept. You will see the term "fully funded." This simply means you are on schedule, in any given year, to accrue sufficient funds by the component's replacement date. It does not mean you must have 100% of the funds ahead of time. Simplified Example: A component projected to cost \$1,000 at the end of its 10-year life cycle would require a \$100 annual contribution in each of the 10 years. As long as you follow this contribution plan, the component is "fully funded."

Prior to determining the actual required annual contribution, a complex calculation apportions the existing reserve fund to each component. Each component's remaining unfunded balance forms the basis for the required contribution going forward.

Funds set aside for replacement of individual components are not normally used for the replacement of other components, even though the funds reside in the same bank account. In rare cases where a reserve fund is actually overfunded, \$0 will be displayed on the Component Method tables, indicating that the component is fully funded for that cycle.

While the time basis for the report is a 20-year period, the Component Method allows for inclusion of long-life components that may require replacement after the specified period. This allows for funding of long-life components contemporaneously, which is fundamentally fair if they are serving the current owners. This is in contrast to saying, "if it doesn't require replacement within our 20-year period, we're going to ignore it."

Due to replacement cycle time and cost differentials, the Component Method typically results in annual contribution fluctuations, which often makes it difficult for a Board to implement. However, its guidance is essential and invaluable for understanding funding liabilities and making informed recommendations. Table 4 shows these calculations, as well as projects interest income, expenses with inflation, and yearly balances, which will be "fully funded."

3.2 Cash Flow Method: The Cash Flow Method is easier to implement. It is a simple 20-year spread sheet that includes the starting balance, current contribution, interest income, inflation rate, projected expenses, and resulting yearly balances. The Cash Flow Method pools the contributions allocated to each of the Association's common components into a single "account."

Table 3 shows these calculations. This table reflects the information you provided on your reserve fund balance and current contribution. It also shows projected yearly positive or negative balances. The Cash Flow Method doesn't include replacement funding for anything beyond the 20-year period, thus leaving a potential shortfall in funding and failing to address generational equity if not specifically set to do so. It doesn't provide any real guidance beyond the basic information. There are several variations on cash flow goals such as Threshold Funding (just enough to stay positive) and Percentage Funding (a predetermined level based on some arbitrary percentage), but these schemes don't address the reality of fully funding, and typically are just a way of passing the obligation on to the next generation.

3.3 Hybrid Approach: Please note that this is not a method, rather a way (approach) for us to utilize the Cash Flow Method, while ensuring the appropriate funding levels are achieved long-term. Our Hybrid Approach uses the projected fully funded balance at the end of the 20-year period from Table 4 as a funding goal. We then set up Cash Flow funding plans. Table 3 is your "where we are now" Cash Flow spreadsheet modeling your reserve balance and current contribution. Table 3.1 (and possibly others) provides alternative(s) to this that meet the fully funded goal from Table 4.

We usually establish a new Cash Flow contribution that requires only small annual inflationary increases to reach the fully funded goal at the end of the 20-year period. This has the added effect of establishing a funding plan that addresses inflation. The contribution in the first year, adjusted for inflation, is equal to the contribution in the last year, based on inflated dollars (future value of money). This approach will also allow underfunded Associations the time to catch up, mitigating undue hardships. It balances the risk of temporary underfunding with the benefit of consistent predictable increasing contributions. The combination of the Component and Cash Flow Methods (Hybrid Approach) provides the advantages of both methods.

4. RESERVE PROGRAMMING

The Mason & Mason proprietary software used to produce the financial tables (Tables 1 through 4) have been under continual refinement for over a decade. It is unique in the industry as it provides comprehensive modeling through Microsoft Access and Excel that addresses the many challenges of reserve funding, allows analysts and clients to run "what if" scenarios, provides an easy to understand matrix of views and functions, and is easily provided to clients through e-mail.

4.1 Interest Income on Reserve Funds: Most Associations invest at least part of their reserve funds. Small Associations may simply use a savings account or certificates of deposit, while large Associations may have multiple investments with short-, medium-, and long-term instruments. One issue that is difficult to quantify is the percentage of funds invested. Some Associations invest a fairly substantial portion, while others hold back due to current cash outflow obligations. Some Associations do not reinvest the investment proceeds in their reserves; rather they divert the cash into their operations fund. We do not agree with this approach as it has the effect of requiring additional reserve contributions to make up for the difference. There is also the issue of changing rates over the 20-year period. In the recent past we have seen large swings in relatively short time periods. While reserve funds are not usually taxable by the IRS, the investment income generated by the reserve fund is taxable in most

situations. Even with all these potential pitfalls, investment income still represents a substantial source of additional funds and for this reason should not be ignored. There is no way to make "one size fits all" with any accuracy for the individual Association. Our approach to this dilemma is to use lower approximations that compensate for less than 100% of funds invested. We feel this is still better than not recognizing it, and periodic updates allow for adjustments based on experience. The rate can be set at any level, including zero, for Associations desiring to not recognize interest. The rate should reflect, as accurately as possible, the actual composite rate of return on all securities and other instruments of investment including allowances for taxes.

The interest income displayed on Table 3 and Table 4 is the summation of the beginning reserve fund interest accrual and the interest earned on the contributions minus the interest lost by withdrawing the capital expenditures. This method of calculation, while not exact, approximates the averages of the three principal components of a reserve fund for each twelve-month period.

4.2 Future Replacement Costs (Inflation): Inflation is a fact of life. In order to replicate future financial conditions as accurately as possible, inflation on replacement costs should be recognized. The financial tables have been programmed to calculate inflation based upon a pre-determined rate. This rate can be set at any level, including zero. A plan that doesn't include inflation is a 1-year plan, and any data beyond that first year won't reflect reality.

4.3 Simultaneous Funding: This is a method of calculating funding for multiple replacement cycles of a single component over a period of time from the same starting date. Simple Example: Funding for a re-roofing project, while, at the same time, funding for a second, subsequent re-roofing project. This method serves a special purpose if multiple-phase projects are all near-term but will result in higher annual contribution requirements and leads to generational equity issues otherwise. We use this type of programming only in special circumstances.

4.4 Sequential Funding: This is a method of calculating funding for multiple replacement cycles of a single component over a period of time where each funding cycle begins when the previous cycle ends. Simple Example: Funding for the second reroofing project begins after the completion of the initial re-roofing project. This method of funding appears to be fundamentally equitable. We use this type of programming except in special circumstances.

4.5 Normal Replacement: Components are scheduled for complete replacement at the end of their useful service lives. Simple Example: An entrance sign is generally replaced all at once.

4.6 Cyclic Replacement: Components are replaced in stages over a period of time. Simple Example: Deficient sidewalk panels are typically replaced individually as a small percentage, rather than the complete system.

4.7 Minor Components: A minimum component value is usually established for inclusion in the reserve fund. Components of insignificant value in relation to the scale of the Association shouldn't be included and should be deferred to the operations budget. A small Association might exclude components with aggregate values less than \$1,000, while a large Association might exclude components with aggregate values of less than \$10,000. Including many small components tends to over complicate the plan and doesn't provide any relative value or utility.

4.8 Long Life Components: Almost all Associations have some components with long or very long useful service lives typically ranging between thirty and sixty years. Traditionally, this type of component has been ignored completely. Simple Example: Single replacement components such as entrance monuments should be programmed for full replacement at their statistical service life. This allows for all common property owners to pay their fair share during the time the component serves them. This also has the added effect of reducing the funding burden significantly as it is carried over many years.

4.9 Projected Useful Service Life: Useful service lives of components are established using construction industry standards and our local experience as a guideline. Useful service lives can vary greatly due to initial quality and installation, inappropriate materials, maintenance practices or lack thereof, environment, parts attrition, and obsolescence. By visual observation, the projected useful service life may be shortened or extended due to the present condition. The projected useful service life is not a mandate, but a guideline, for anticipating when a component will require replacement and how many years remain to fund it.

4.10 Generational Equity: As the term applies to reserves, it is the state of fairness between and over the generations relating to responsibility for assets you are utilizing during your time of ownership. It is neither reasonable, nor good business to defer current liabilities to future owners. This practice is not only unfair; it can also have a very negative impact on future property values.

5. UPDATING THE RESERVE FUND PLAN

A reserve fund plan should be periodically updated to remain a viable planning tool. Changing financial conditions and widely varying aging patterns of components dictate that revisions should be undertaken periodically from one to five years, depending upon the complexity of the common assets and the age of the community. Weather, which is unpredictable, plays a large part in the aging process.

Full Updates (Level II) include a site visit to observe current conditions. These updates include adjustments to the component inventory, replacement schedules, annual contributions, balances, replacement costs, inflation rates, and interest income.

We encourage Associations that are undergoing multiple simultaneous or sequential costly restoration projects (usually high-rise buildings) to perform Level III Administrative Updates. Administrative updates do not include a condition assessment. They are accomplished by comparing original projections with actual experience during the interim period as reported by Management. These updates can be performed annually and include adjustments to the replacement schedules, contributions, balances, replacement costs, inflation rates, and interest income. The Level III Administrative Update can be a cost-effective way of keeping current between Level II Full Update cycles. Full Updates (Level II) and Administrative Updates (Level III) help to ensure the integrity of the reserve fund plan.

6. PREVENTIVE MAINTENANCE

The following preventive maintenance practices are suggested to assist the Association in the development of a routine maintenance program. The recommendations are not to be considered the only maintenance required but should be included in an overall program. The development of a maintenance checklist and an annual condition survey will help extend the useful service lives of the Association's assets.

This section includes best maintenance practices or life-extension maintenance for many, but not necessarily all, components in the report. Items for which no maintenance is necessary, appropriate or beyond the purview of this report are not included in this section. We typically include them for townhomes and garden condominiums while mid- and high-rise buildings are generally too complex.

6.1 Asphalt Pavement: Pavement maintenance is the routine work performed to keep a pavement, subjected to normal traffic and the ordinary forces of nature, as close as possible to its as-constructed condition. Asphalt overlays may be used to correct both surface deficiencies and structural deficiencies. Surface deficiencies in asphalt pavement usually are corrected by thin resurfacing, but structural deficiencies require overlays designed on factors such as pavement properties and traffic loading. Any needed full-depth repairs and crack filling should be accomplished prior to overlaying. The edgemill and overlay process includes milling the edges of the pavement at the concrete gutter and feathering the depth of cut toward the center of the drive lane. Milling around meter heads and utility features is sometimes required. The typical useful life for an asphalt overlay is twenty years.

6.2 Asphalt Seal Coating: The purpose is to seal and add new life to a roadway surface. It protects the existing pavement but does not add significant structural strength. A surface treatment can range from a single, light application of emulsified asphalt as a "fog" seal, to a multiple-surface course made up of alternate applications of asphalt and fine aggregate. Seal coating of all asphalt pavements should be performed at approximately six-year intervals, or approximately twice during the service life of the asphalt pavement. Seal coating more often is generally not cost-effective. The material used should be impervious to petroleum products and should be applied after crack filling, oil-spot cleaning, and full-depth repairs have been accomplished. Seal coating is a cost-effective way of extending the life of asphaltic concrete pavement. Seal coating is generally not scheduled for up to five years after an asphalt restoration project.

6.3 Asphalt Full-Depth Repairs: In areas where significant alligator cracking, potholes, or deflection of the pavement surface develops, the existing asphalt surface should be removed to the stone base course and the pavement section replaced with new asphalt. Generally, this type of failure is directly associated with the strength of the base course. When the pavement is first constructed, the stone base consists of a specific grain size distribution that provides strength and rigidity to the pavement section. Over time, the stone base course can become contaminated with fine-grained soil particles from the supporting soils beneath the base course. The most positive repair to such an area is to remove the contaminated base course and replace it with new base stone to the design depth. It is appropriate to perform these types of repairs immediately prior to asphalt restoration projects. Generally, this type of repair should not be required for approximately five years after an asphalt restoration project.

6.4 Asphalt Crack Filling: Cracks that develop throughout the life of the asphalt should be thoroughly cleaned of plant growth and debris (lanced) and then filled with a rubberized asphalt crack sealant. If the crack surfaces are not properly prepared, the sealant will not adhere. Crack filling should be accomplished every three to six years to prevent infiltration of water through the asphalt into the sub-grade, causing damage to the road base. It is appropriate to perform these types of repairs immediately prior to edgemill and overlay. Generally, this type of repair should not be required for approximately five years after an edgemill and overlay project.

6.5 Concrete Sidewalks: When sidewalks are cracked or scaled or sections have settled, the resulting differential or "tripping hazard" can present a liability problem for the Association if personal injury should occur as a result. Tripping hazards should be repaired expeditiously to promote safety and prevent liability problems for the community. Generally, where practical and appropriate, concrete element repairs and replacements are scheduled in the same years to promote cost efficiencies. Replacements are usually scheduled in cycles because the necessity of full replacement at one time is unlikely. Typically, damaged or differentially settled sections can be removed by saw cutting or jack hammer and re-cast. Concrete milling of the differential surfaces is sometimes an appropriate, cost-effective alternative to recasting. Skim coating is not an effective repair for scaled or settled concrete surfaces and, over time, will usually worsen the problem.

6.6 Concrete Curbs and Gutters: Vehicle impacts, differential settlement, construction damage, and cracking and spalling of the concrete will eventually result in the need for replacement of some curb sections. A typical damaged or settled section, usually 10 feet in length, will be removed by saw cutting or jack hammer and re-cast. Replacements are scheduled in cycles because the necessity of full replacement at one time is unlikely.

6.7 Concrete Steps: Concrete steps should be replaced when cracking, deterioration, or settlement occurs. Cracks, which occur at the intersection of treads and risers, should be filled with an appropriate sealant to prevent water infiltration.

6.8 Metal Handrailings: Metal handrailings should be periodically straightened, loose connections repaired, cleaned of rust, primed, and painted to maintain appearance and extend the useful service life. Bases should be periodically cleaned and sealed to prevent moisture infiltration, which will cause damage to the concrete in freeze/thaw cycles. Welding new bases to replace deteriorated bases is a viable alternative to replacing handrailings.

Street Name	Total SY Asphalt Pavement	SY Full- Depth Repairs	Linear Footage Cracks	Parking Spaces	Parking Bays
Sassafras Woods Court	7,726	56	755	185	20
TOTALS	7,726	56	755	185	20

7. ASPHALT PAVEMENT REPORT

All quantities approximate

COMPONENT DATA AND ASSET REPLACEMENT SCHEDULE TABLE 1 EXPLANATION

This table lists the common assets included in the reserve fund plan and provides details of the replacement schedules. A narrative discussion is provided adjacent to each component. Photo references and maintenance protocol reference numbers are also provided. An explanation of each column in the table follows:

- Column 1 Component No. is consistent throughout all tables.
- Column 2 Component is a brief description of the component.
- Column 3 Quantity of the component studied, which may be an exact number, a rough estimate, or simply a (1) if the expenditure forecast is a lump sum allowance for replacement of an unquantified component.
- Column 4 Unit of Measurement used to quantify the component:
- SY = Square Yards SF = Square Feet LF = Linear Feet EA = Each LS = Lump Sum PR = Pair CY = Cubic Yards
- Column 5 Unit Cost used to calculate the required expenditure. This unit cost includes removal of existing components and installation of new components, including materials, labor, and overhead and profit for the contractor.
- Column 6 Total Asset Base is the total value of common assets included in the study in current dollars. In addition to capital assets, this figure includes one cycle of maintenance liability.
- Column 7 Typical Service Life (Yrs) or Cycle is the typical life expectancy of similar components in average conditions or the length of years between replacement cycles, and does not necessarily reflect the conditions observed during the field evaluation. This number is furnished for reference and is not necessarily computed in the system.
- Column 8 1st Cycle Year is the scheduled year of the first projected replacement or repair.
- Column 9 **Percentage of Replacement** is the percentage of component value to be replaced in the first replacement cycle.
- Column 10 Cost for 1st Cycle is the future cost (with inflation) of the replacement. It is the product of Column 6 times Column 9 in future dollars.
- Column 11 2nd Cycle Year is the scheduled year of the second projected replacement or repair. If a second cycle is not listed, it is because the first cycle is beyond the end of the study.
- Column 12 Percentage of Replacement is the percentage of component value to be replaced in the second replacement cycle. This can vary from the percentage of the first cycle for various reasons, such as the increased age of a component may require a larger amount of repair.
- Columns 13 Cycles, Percentage, and Cost repeat as itemized above. Although not shown on the tables, Through 16 the cycles continue throughout the study period and beyond.
- Column 18 Discussion is the description and observed condition of the component and the methodology employed in the decision-making process. Includes the photo reference, (Photo #1, #2, etc.) and Maintenance Protocol reference numbers (7.1, 7.2 etc.) if applicable.

	31. SAS		RAS	an for WOODS nia				AS		PLA(T/				.E		The cells within these Excel spreadsheets only for the client and its management. U
1	nnenent ^{ho.} contenent	Ouent 3		Low Measurent Unit Cost	Total A	558t B85	8 8	ed cyce life cyce vest perce	n ^{VIS} ntage teologicant cost for 10	210 ¹ 15 ¹ 210 ¹ 11	Cycle ^{Veat} Perce	ontage frequences	2nd Cycle 3rd 14	Cycle ^{Vear} Percent	softage (Replace	clients or other purposes is strictly for
<u>1 AS</u> 1.1	PHALT COMPONENTS Asphalt Restoration Project	7,726	SY	\$10.00	\$77,260	18	2031	100%	\$96,063	2049	100%	\$137,202				This component includes one asphalt drivelane and the parking bays of the Clus determined. We understand that the pavement was restored circa 2013, and it sub-base damage or insufficient asphalt depth) was observed. Future restorati asphalt. Core sampling should be used to determine the depth and condition of but not replacement of any inadequate sub-base.
1.2	Asphalt Seal Coat	7,726	SY	\$1.05	\$8,112	6	2025	100%	\$8,957	2037	100%	\$11,359	2043	100%	\$12,792	The asphalt has been seal coated within the last year. Seal coating may help largely a cosmetic issue. To help improve curb appeal after repairs, we have s pavement restoration project when it is not necessary. Crack filling and full-dep benefit from the seal coating. Seal coating projects include re-striping. It sho banned from use in many localities throughout the country due to heavy contam
1.3	Asphalt Repair Allowance	1	LS	\$13,000.00	\$13,000	6	2025	50%	\$7,177	2031	100%	\$16,164	2037	25%	\$4,551	Approximately 56 square yards of deflected pavement (indicative of sub-base of was observed. Repairs are essential in order to achieve the projected remain scheduled every six years throughout the study period, including the year of the for additional details.
2 CO	NCRETE COMPONENT	rs	_			-				-						
2.1	Concrete Sidewalks & Steps	11,854	SF	\$10.00	\$118,540	5	2020	3%	\$3,556	2025	3%	\$3,926	2030	3%	\$4,335	Concrete sidewalks throughout the Cluster are generally 4' or 6' wide. We meas wide at grade differentials. About 288 square feet (2.4% of the total area) is eith replacement of all sections with lesser surface defects. Severely scaled section in each replacement cycle. Cyclic repairs are scheduled, as full replacement at to coincide with work on other concrete components to take advantage of ecor or hazardous surface deficiencies should be addressed as soon as practicable to
2.2	Concrete Curbs & Gutters	4,160	LF	\$26.50	\$110,240	5	2020	2%	\$2,205	2025	2%	\$2,434	2030	2%	\$2,688	The drivelanes and parking bays are lined with standard-profile, cast-in-place, three settled sections observed. Minor chips usually do not justify replaceme appropriate or anticipated. Curb repairs are scheduled to coincide with work of hazards or hazardous surface deficiencies should be addressed as soon as prac
3 SIT	E FEATURES									-						
3.1	Metal Handrailings	55	LF	\$36.00	\$1,980	45	2028	100%	\$2,320	2067	100%	\$5,022				Painted metal handrailings are constructed adjacent to concrete steps throu condition. They have been improved, and due to the better than expected condit maintenance, including cleaning of peeling paint, priming, and painting, sealin handrailings may provide long service life. Bases should be sealed with a non-s and causing freeze/thaw damage.
3.2	Storm Water Drainage System Allowance	1	LS	\$11,000.00	\$11,000	5	2021	100%	\$11,220	2026	100%	\$12,388	2031	100%	\$13,677	Storm water drainage is provided by concrete yard drains, curb drop inlets, and responsibility for some or parts of the system may rest with local governmen catastrophic failure is not anticipated, it is prudent for the community to plan for has primary responsibility. This category may also be used to address loc collection, drainage, and erosion issues throughout the study period and does not be the study period and the study
	Mailbox Modules	8	EA	\$1,900.00	\$15,200	20	2027	100%	\$17,460	2047	100%	\$25,945				Approximately eight metal mailbox modules have been installed at various loca or 12 letter sized boxes and one parcel box for each unit. The mailbox modu Cleaning and painting will help to extend their service life.
4 EN	GINEERING					1				1						
4.1	Cyclic Updates	1	LS	\$1,812.00	\$1,812	5	2020	100%	\$1,812	2025	100%	\$2,001	2030	100%	\$2,209	At the direction of Management, we have included an allowance to cover the cos



eets contain proprietary code and are intended nt. Unauthorized use of the formulae for other ly forbidden and will be considered piracy.

SSION

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Cluster. Neither the depth nor the sub-base of the pavement could be visually I it is in good condition. A minor amount of deflected cracking (indicative of ration includes profile milling to a depth of two inches and new compacted on of the sub-base and pavement prior to restoration. Costs include striping,

elp prevent water infiltration into the sub-base through micro-cracks, but is *re* scheduled seal coating projects every six years, except in the year of the depth repairs should be completed prior to application to achieve maximum should be understood that coal-tar based seal coating products have been tamination of ground water.

se damage), and about 755 linear feet of longitudinal or transverse cracking aining service life of the pavement. Full-depth repairs and crack filling are the asphalt restoration project. See the Asphalt Pavement Report, Section 7,

easured approximately 2,277 linear feet of sidewalks and counted 58 steps 4' either cracked, settled or heaved between sections. We have not scheduled tions will tend to deteriorate more quickly over time and should be replaced at one time is not appropriate or anticipated. Concrete repairs are scheduled conomies of scale in packaging concrete restoration work. Any trip hazards ble to prevent personal injury.

ce, concrete curbs and gutters. They are in continuing good condition with ement. Cyclic repairs are scheduled, as full replacement at one time is not rk on other concrete components to maximize economies of scale. Any trip practicable to prevent personal injury.

nroughout the Cluster. The handrailings are generally in continuing good ndition, we are extending the service life by a few years. With proper, diligent aling bases, and repairing deteriorated areas by welding replacement parts, n-shrinking solid grout to prevent water infiltrating the concrete components

and underground structures, leading storm water offsite. We understand that nent. Though storm water drainage systems are a long life component and n for localized repairs and repairs to ancillary damage, even if a public entity localized erosion issues. This line item addresses potential storm water as not represent a single expense or action already identified as necessary.

ocations. The units are pedestal mounted to concrete pads and have either 6 odules are post office box construction and are in generally fair condition.

cost of future updates, which are performed on a five-year basis.

CALENDAR OF EXPENDITURES TABLE 2 EXPLANATION

This table is a yearly plan of action of replacements and costs. A description of the columns in the table follows:

Column 1	Year is the year of the projected replacement and expenditure.
Column 2	Component No. itemizes the components and is consistent throughout the tables.
Column 3	Component is a brief description of the component.
Column 4	Present Cost is the cost for the cycle in today's dollars.
Column 5	Future Cost (Inflated) is the cost for the cycle in future dollars.
Column 6	Total Annual Expenditures gives the total expenditures by year.
Column 7	Action is an area provided for the Board to make notations as to action taken on each component.

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CALENDAR OF EXPENDITURES

TABLE 22020 Through 2039

YEAR	COMPONENT NO.	COMPONENT	PRESENT COST 2020	FUTURE COST (INFLATED)	TOTAL ANNUAL EXPENDITURES	
1	2	3	4	5	6	
2020					2020	
	2.1	Concrete Sidewalks & Steps	\$3,556	\$3,556	TOTAL EXPENDITURES	
	2.2	Concrete Curbs & Gutters	\$2,205	\$2,205		
	4.1	Cyclic Updates	\$1,812	\$1,812		
					\$7,573	
2021					2021	
	3.2	Storm Water Drainage System Allowance	\$11,000	\$11,220	TOTAL EXPENDITURES	
					\$11,220	
2022					2022	
					NO EXPENDITURES	
2023						
2024					NO EXPENDITURES	
2024					2024 NO EXPENDITURES	
2025					2025	
2025	1.2	Asphalt Seal Coat	\$8,112	\$8,957	TOTAL EXPENDITURES	
	1.2	Asphalt Sear Coat Asphalt Repair Allowance	\$6,500	\$7,177	TOTAL EXPENDITORES	
	2.1	Concrete Sidewalks & Steps	\$3,556	\$3,926		
	2.2	Concrete Curbs & Gutters	\$2,205	\$2,434		
	4.1	Cyclic Updates	\$1,812	\$2,001		
			· · · · · ·	<i> </i>	\$24,494	
2026					2026	
	3.2	Storm Water Drainage System Allowance	\$11,000	\$12,388	TOTAL EXPENDITURES	_
					\$12,388	
2027					2027	
	3.3	Mailbox Modules	\$15,200	\$17,460	TOTAL EXPENDITURES	
					\$17,460	
2028					2028	
	3.1	Metal Handrailings	\$1,980	\$2,320	TOTAL EXPENDITURES	
					\$2,320	
2029					2029	
					NO EXPENDITURES	
2030	0.4	Concrete Cidewalles & Ctone	<u> </u>	¢4.005		
	<u>2.1</u> 2.2	Concrete Sidewalks & Steps Concrete Curbs & Gutters	\$3,556 \$2,205	\$4,335 \$2,688	TOTAL EXPENDITURES	
	4.1	Cyclic Updates	\$2,205 \$1,812	\$2,000		
	4.1	Cyclic Opdates	\$1,012	φ2,203	\$9,231	
2031					2031	
2001	1.1	Asphalt Restoration Project	\$77,260	\$96,063	TOTAL EXPENDITURES	
	1.3	Asphalt Repair Allowance	\$13,000	\$16,164		
	3.2	Storm Water Drainage System Allowance	\$11,000	\$13,677		
			+,	÷··;•··	\$125,904	
2032					2032	
					NO EXPENDITURES	
2033					2033	
					NO EXPENDITURES	
2034					2034	
					NO EXPENDITURES	



ACTION 7

CALENDAR OF EXPENDITURES

 TABLE 2

 2020 Through 2039

			PRESENT COST	FUTURE COST	TOTAL ANNUAL	
YEAR	COMPONENT NO.	COMPONENT	2020	(INFLATED)	EXPENDITURES	
1	2	3	4	5	6	
2035					2035	
	2.1	Concrete Sidewalks & Steps	\$3,556	\$4,786	TOTAL EXPENDITURES	
	2.2	Concrete Curbs & Gutters	\$2,205	\$2,967		
	4.1	Cyclic Updates	\$1,812	\$2,439		
					\$10,192	
2036					2036	
	3.2	Storm Water Drainage System Allowance	\$11,000	\$15,101	TOTAL EXPENDITURES	
					\$15,101	
2037					2037	
	1.2	Asphalt Seal Coat	\$8,112	\$11,359	TOTAL EXPENDITURES	
	1.3	Asphalt Repair Allowance	\$3,250	\$4,551		
					\$15,910	
2038					2038	
					NO EXPENDITURES	
2039					2039	
					NO EXPENDITURES	





ACTION

7

CURRENT FUNDING ANALYSIS CASH FLOW METHOD TABLE 3.0 EXPLANATION and, if applicable, ALTERNATIVE FUNDING ANALYSIS CASH FLOW METHOD TABLE 3.1, 3.2, 3,3 (etc.) EXPLANATION

Table 3.0 shows the financial picture over the twenty-year study period, using the current annual contribution and the reserve fund balance reported at the beginning of the study year. If the results of the study indicate a need to increase the annual contribution to maintain adequate balances throughout the study period, Table 3.1, and possibly, 3.2 will be provided for consideration. Alternatives might also be provided if a community is over-funded and desires to adjust the annual contribution downward.

Alternative funding may be achieved by increasing the annual contribution to a fixed yearly amount or by applying an annual escalation factor to increase contributions over time, or a combination of both methods. An inflation factor and interest income factor may be included in the calculations on this page.

A description of the columns in the table follows:

- Column 1 Year
- Column 2 Total Asset Base of all common capital assets included in the reserve fund with costs adjusted for inflation.
- Column 3 Beginning Reserve Fund Balance is the reserve fund balance after all activity in the prior year is completed.
- Column 4 Annual Contribution, on Table 3, is the amount contributed annually to the reserve fund as reported by the Board of Directors. On the Alternative Funding Analysis tables (3.1, 3.2, etc.), the annual contribution is projected to maintain positive balances throughout the study period.
- Column 5 Interest Income, which is indicated in the heading of the table, is applied to the reserve fund balance and is accrued monthly throughout each year after the yearly expenditures are deducted. The interest income percentage may be varied to reflect actual experience of the community investments.
- Column 6 Capital Expenditures are annual totals of expenditures for each year of the study period adjusted by the inflation percentage listed in the heading of the table.
- Column 7 Ending Reserve Fund Balance is the result of the beginning reserve fund balance plus the annual contribution, plus interest income, less capital expenditures for the year.
- Column 8 Balance to Asset Base Ratio, expressed as a percentage, is the ratio between the ending reserve fund balance and the total asset base for that year. The ratio is useful to the analysts in understanding general financial condition, but there is no standard ratio as each community's condition and complexity varies.

CURRENT FUNDING ANALYSIS CASH FLOW METHOD TABLE 3



In Dollars 115,044 12,161 2.00% 2.00% VEAR TOTAL ASSET BEGINNING RESERVE FUND BALANCE ANNUAL CONTRIBUTION INTEREST INCOME CAPITAL EXPEND 1 2 3 4 5 6 2020 357,144 115,044 12,161 1,775 7,573 2021 364,287 121,407 12,404 1,844 11,220 2022 371,573 124,435 12,652 1,983 0 2023 379,004 139,070 12,905 2,206 0 2024 386,584 154,181 13,163 2,436 0 2025 394,316 169,761 13,427 2,474 24,495 2026 402,202 161,187 13,695 2,463 17,460 2029 426,820 178,413 14,534 2,813 0 2029 426,820 178,413 14,534 2,813 0 2029 426,820 178,413 14,534	1.50% ENDING RESERVE FUND BALANCE 7 121,407
YEARBASEFUND BALANCEANNUAL CONTRIBUTIONINTEREST INCOMECAPITAL EXPEND1234562020357,144115,04412,1611,7757,5732021364,287121,40712,4041,84411,2202022371,573124,43512,6521,98302023379,004139,07012,9052,20602024386,584154,18113,1632,43602025394,316169,78113,4272,47424,4952026402,202161,18713,6952,44512,3882027410,247164,93913,9692,46317,4602028418,451163,91214,2492,5732,3202030435,357195,76014,8243,0029,2322031444,064204,35515,1212,185125,9042032452,94595,75615,4231,57202033462,004112,75115,7321,8310	DITURES BALANCE
2020357,144115,04412,1611,7757,5732021364,287121,40712,4041,84411,2202022371,573124,43512,6521,98302023379,004139,07012,9052,20602024386,584154,18113,1632,43602025394,316169,78113,4272,47424,4952026402,202161,18713,6952,44512,3882027410,247164,93913,9692,46317,4602028418,451163,91214,2492,5732,3202030435,357195,76014,8243,0029,2322031444,064204,35515,1212,185125,9042032452,94595,75615,4231,57202033462,004112,75115,7321,8310	
2021364,287121,40712,4041,84411,2202022371,573124,43512,6521,98302023379,004139,07012,9052,20602024386,584154,18113,1632,43602025394,316169,78113,4272,47424,4952026402,202161,18713,6952,44512,3882027410,247164,93913,9692,46317,4602028418,451163,91214,2492,5732,3202030435,357195,76014,8243,0029,2322031444,064204,35515,1212,185125,9042033462,004112,75115,7321,8310	121.407
2022371,573124,43512,6521,98302023379,004139,07012,9052,20602024386,584154,18113,1632,43602025394,316169,78113,4272,47424,4952026402,202161,18713,6952,44512,3882027410,247164,93913,9692,46317,4602028418,451163,91214,2492,5732,3202029426,820178,41314,5342,81302030435,357195,76014,8243,0029,2322031444,064204,35515,1212,185125,9042032452,94595,75615,4231,57202033462,004112,75115,7321,8310	,
2023379,004139,07012,9052,20602024386,584154,18113,1632,43602025394,316169,78113,4272,47424,4952026402,202161,18713,6952,44512,3882027410,247164,93913,9692,46317,4602028418,451163,91214,2492,5732,3202029426,820178,41314,5342,81302030435,357195,76014,8243,0029,2322031444,064204,35515,1212,185125,9042032452,94595,75615,4231,57202033462,004112,75115,7321,8310	124,435
2024386,584154,18113,1632,43602025394,316169,78113,4272,47424,4952026402,202161,18713,6952,44512,3882027410,247164,93913,9692,46317,4602028418,451163,91214,2492,5732,3202029426,820178,41314,5342,81302030435,357195,76014,8243,0029,2322031444,064204,35515,1212,185125,9042032452,94595,75615,4231,57202033462,004112,75115,7321,8310	139,070
2025394,316169,78113,4272,47424,4952026402,202161,18713,6952,44512,3882027410,247164,93913,9692,46317,4602028418,451163,91214,2492,5732,3202029426,820178,41314,5342,81302030435,357195,76014,8243,0029,2322031444,064204,35515,1212,185125,9042032452,94595,75615,4231,57202033462,004112,75115,7321,8310	154,181
2026402,202161,18713,6952,44512,3882027410,247164,93913,9692,46317,4602028418,451163,91214,2492,5732,3202029426,820178,41314,5342,81302030435,357195,76014,8243,0029,2322031444,064204,35515,1212,185125,9042032452,94595,75615,4231,57202033462,004112,75115,7321,8310	169,781
2027410,247164,93913,9692,46317,4602028418,451163,91214,2492,5732,3202029426,820178,41314,5342,81302030435,357195,76014,8243,0029,2322031444,064204,35515,1212,185125,9042032452,94595,75615,4231,57202033462,004112,75115,7321,8310	161,187
2028418,451163,91214,2492,5732,3202029426,820178,41314,5342,81302030435,357195,76014,8243,0029,2322031444,064204,35515,1212,185125,9042032452,94595,75615,4231,57202033462,004112,75115,7321,8310	164,939
2029426,820178,41314,5342,81302030435,357195,76014,8243,0029,2322031444,064204,35515,1212,185125,9042032452,94595,75615,4231,57202033462,004112,75115,7321,8310	163,912
2030435,357195,76014,8243,0029,2322031444,064204,35515,1212,185125,9042032452,94595,75615,4231,57202033462,004112,75115,7321,8310	178,413
2031 444,064 204,355 15,121 2,185 125,904 2032 452,945 95,756 15,423 1,572 0 2033 462,004 112,751 15,732 1,831 0	195,760
2032452,94595,75615,4231,57202033462,004112,75115,7321,8310	204,355
2033 462,004 112,751 15,732 1,831 0	95,756
	112,751
2034 471,244 130,314 16,046 2,099 0	130,314
	148,459
2035 480,669 148,459 16,367 2,293 10,192	156,927
2036 490,283 156,927 16,694 2,383 15,101	160,904
2037 500,088 160,904 17,028 2,440 15,910	164,462
2038 510,090 164,462 17,369 2,626 0	194 457
2039 520,292 184,457 17,716 2,931 O	184,457
	205,104

STUDY PERIOD TOTALS

295,480 46,375 251,795

ALTERNATIVE FUNDING ANALYSIS CASH FLOW METHOD HYBRID APPROACH TABLE 3.1



		Beginning Reserve Fund Balance:	Annual Contribution To Reserves:	Contribution Percentage Increase:	Annual Inflation Factor:	Annual Interest Income Factor:
In Dollars		115,044	12,161	1.00%	2.00%	1.50%
YEAR	TOTAL ASSET BASE	BEGINNING RESERVE FUND BALANCE	ANNUAL CONTRIBUTION	INTEREST INCOME	CAPITAL EXPENDITURES	ENDING RESERVE FUND BALANCE
1	2	3	4	5	6	7
2020	357,144	115,044	12,161	1,775	7,573	121,407
2021	364,287	121,407	10,060	1,824	11,220	122,071
2022	371,573	122,071	10,160	1,927	0	134,158
2023	379,004	134,158	10,262	2,110	0	146,530
2024	386,584	146,530	10,364	2,298	0	159,192
2025	394,316	159,192	10,468	2,290	24,495	147,455
2026	402,202	147,455	10,573	2,213	12,388	147,853
2027	410,247	147,853	10,678	2,178	17,460	143,249
2028	418,451	143,249	10,785	2,233	2,320	153,947
2029	426,820	153,947	10,893	2,414	0	167,254
2030	435,357	167,254	11,002	2,541	9,232	171,565
2031	444,064	171,565	11,112	1,657	125,904	58,430
2032	452,945	58,430	11,223	974	0	70,627
2033	462,004	70,627	11,335	1,159	0	83,122
2034	471,244	83,122	11,449	1,349	0	95,919
2035	480,669	95,919	11,563	1,460	10,192	98,751
2036	490,283	98,751	11,679	1,464	15,101	96,792
2037	500,088	96,792	11,796	1,429	15,910	94,107
2038	510,090	94,107	11,914	1,519	0	107,539
2039	520,292	107,539	12,033	1,722	0	121,294
STU	DY PERIOD TOTALS		221,510	36,535	251,795	FULLY FUNDED BALANCE GOAL

FUNDING ANALYSIS COMPONENT METHOD TABLE 4 EXPLANATION

Table 4 is a yearly list of annual contributions toward each component, which must be made to achieve 100% funding. The reserve fund balance is the balance at the beginning of the study year. The beginning reserve fund balance is applied, proportionately, to each component prior to calculating the yearly contribution for each component. Future costs (inflation) are factored into the replacement cycles. The annual contribution for each year is calculated in the bottom row of the study labeled **Annual Component Contribution Totals**. Interest and inflation are calculated at the same annual rates as the Cash Flow Method (Table 3).

- Column 1 Component Number is consistent throughout the tables.
- Column 2 Component is a brief description of the component.
- Columns **3 22** Years lists the annual contribution amount toward each component throughout the twenty-year study period, which is totaled at the bottom of the component table.

COMPONENT METHOD SUMMARY

The component method summary computes the beginning reserve fund balance, the annual component contribution, the annual expenditures, and interest income. It then provides the ending reserve fund balance for each year of the study.

FUNDING ANALYSIS COMPONENT METHOD TABLE 4



Beginning Reserve Fund Balance:

	In Dollars		115,	044																	
Component Number	COMPONENT	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039
1 ASPHA	LT COMPONENTS																				
1.1	Asphalt Restoration Project	1,075	1,075	1,075	1,075	1,075	1,075	1,075	1,075	1,075	1,075	1,075	6,636	6,636	6,636	6,636	6,636	6,636	6,636	6,636	6,636
1.2	Asphalt Seal Coat	231	231	231	231	231	863	863	863	863	863	863	863	863	863	863	863	863	2,036	2,036	2,036
1.3	Asphalt Repair Allowance	185	185	185	185	185	2,573	2,573	2,573	2,573	2,573	2,573	724	724	724	724	724	724	1,632	1,632	1,632
2 CONCR	ETE COMPONENTS																				
2.1	Concrete Sidewalks & Steps	1,228	756	756	756	756	834	834	834	834	834	921	921	921	921	921	1,017	1,017	1,017	1,017	1,017
2.2	Concrete Curbs & Gutters	761	469	469	469	469	517	517	517	517	517	571	571	571	571	571	631	631	631	631	631
3 SITE FE	ATURES																				
3.1	Metal Handrailings	37	37	37	37	37	37	37	37	95	95	95	95	95	95	95	95	95	95	95	95
3.2	Storm Water Drainage System Allowance	1,490	2,384	2,384	2,384	2,384	2,384	2,633	2,633	2,633	2,633	2,633	2,907	2,907	2,907	2,907	2,907	3,209	3,209	3,209	3,209
3.3	Mailbox Modules	317	317	317	317	317	317	317	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112	1,112
4 ENGINE	ERING																				
4.1	Cyclic Updates	626	385	385	385	385	425	425	425	425	425	469	469	469	469	469	518	518	518	518	518
ANNU	AL COMPONENT CONTRIBUTION TOTALS	5,950	5,839	5,839	5,839	5,839	9,025	9,274	10,069	10,127	10,127	10,312	14,298	14,298	14,298	14,298	14,503	14,805	16,886	16,886	16,886
COMPON	IENT METHOD SUMMARY	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039
I	BEGINNING RESERVE FUND BALANCE	115,044	115,207	111,614	119,186	126,873	134,676	121,314	120,108	114,613	124,234	136,320	139,543	30,161	45,031	60,126	75,449	81,018	82,066	84,420	102,719
PLU	JS ANNUAL COMPONENT CONTRIBUTION	5,950	5,839	5,839	5,839	5,839	9,025	9,274	10,069	10,127	10,127	10,312	14,298	14,298	14,298	14,298	14,503	14,805	16,886	16,886	16,886
	CAPITAL EXPENDITURES	7,573	11,220	0	0	0	24,495	12,388	17,460	2,320	0	9,232	125,904	0	0	0	10,192	15,101	15,910	0	0
	SUBTOTAL	113,421	109,826	117,453	125,025	132,712	119,206	118,200	112,717	122,420	134,361	137,400	27,937	44,459	59,329	74,424	79,760	80,722	83,042	101,306	119,605
	PLUS INTEREST INCOME @ 1.50%	1,786	1,788	1,733	1,848	1,964	2,108	1,908	1,896	1,814	1,959	2,143	2,224	572	797	1,025	1,258	1,345	1,377	1,413	1,689
FU	ILLY FUNDED RESERVE FUND BALANCE	115,207	111,614	119,186	126,873	134,676	121,314	120,108	114,613	124,234	136,320	139,543	30,161	45,031	60,126	75,449	81,018	82,066	84,420	102,719	121,294

PERCENT FUNDED FOR CURRENT CYCLE

TOTAL CONTRIBUTIONS 251,795 225,398

TOTAL EXPENDITURES

185%

STUDY PERIOD TOTAL INTEREST 32,647

AVERAGE ANNUAL CONTRIBUTION	11,270
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ULLY FUNDED

BALANCE GOA