PM+_{Reserves}

Veteran Owned Business SPECIALIZING IN RESERVE STUDIES SINCE 1990 A PROFESSIONAL CORPORATION



APRA Association of Professional Reserve Analysts

October 10, 2012

Pinecrest Swim & Tennis Club Mr. Dan Hamad, CPA Daly, Hamad & Associates, PLLC 1037 Sterling Road, Suite 204 Herndon, VA 20170

Dear Mr. Hamad:

Enclosed please find the revised Level I Full Repair and Replacement Reserve Study for Pinecrest Swim & Tennis Club. This revision now includes the sub-total amount of \$350,600 for the Swimming Pool category in the total estimated cost for all components and revises the amount-on-hand the association had on April 1, 2012 from \$90,000 to \$200,000.

Consider this version a "Final Draft." It will become the "Final Report" after review by the Board of Directors (or their representatives) and all concerns have been addressed. If desired I will attend a meeting to discuss this study at a mutual agreeable time. In the meantime, please let me know if there are any questions.

We thank the Board of Directors for selecting **PM+** to do this study and hope you will continue to call upon **PM+** for your future reserve studies.

Sincerely,

Will O'Beyon

Will O'Bryan Intern – Reserve Analyst

Enclosure: Study - PDF File

-1.04

Mario B. "Ben" Ginnetti, PRA, RS, P.E. President



Veteran Owned Business SPECIALIZING IN RESERVE STUDIES SINCE 1990

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APRA Association of Professional Reserve Analysts

RESERVE STUDY Level I, Full Study

PINECREST SWIM & TENNIS CLUB

Herndon, Virginia

Prepared for:

Board of Directors

Date:

October 10, 2012



Mario B. "Ben" Ginnetti, PRA, RS, P.E.

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Engineer

Table of Contents

| Contents | Page |
|--|-----------|
| Executive Summary | 1 |
| Study Information | 3 |
| Maintenance/Repair/Replacement "Tips" | 5 |
| Level of Service and Engineer's Qualification | 7 |
| Common and Limited Common Elements | 9 |
| Reading and Understanding the Tables and Charts | |
| Photographs & Comments | 12 |
| Appendix A | |
| Table of Repair/Replacement Reserves and Years 1 – 10 Expense Projection | A1 |
| Years 11 – 30 Expense Projection | A3 |
| Funding Plans - 30 Year Projection | A5 |
| Property Comparison | A6 |
| Excel Spreadsheet Items | No Page # |

Executive Summary

- This study was prepared by comparing "Your Funding" plan to the two Community Association Institute (CAI) recommended methods for preparing reserve studies; "Cash Flow Method" and "Component Method." The Cash Flow Method is also known as the Pooling Method.
- The following relevant data was used in preparing this study:

| 1st Study Year FY13 | \$200,000 | AOH at Start of Fiscal Year |
|------------------------------|-----------|-----------------------------|
| FY Begins 01-Apr-12 | \$50,000 | Your Contribution in FY13♦ |
| Inspection Date(s) 31-Jul-12 | 2.42% | Inflation 🔶 |
| # Families 500 | 3.95% | Interest ♦♦ |

- AOH (cash amount on hand at start of fiscal year) and current year contribution were supplied by management and are considered best information available as of the proposal acceptance date. They are not audited amounts.
- ♦♦ Interest and inflation factors¹ best project the future needs of the property. Inflation is based on the last ten year average for the Consumer Price Index (CPI); interest on savings is based on the ten year average of the Constant Maturity Yield for the 10-Year U.S. Treasury note.
- The following table summarizes our findings of the funding needed to meet the property's reserve requirement and compares your current funding to the two recognized methods for funding the reserves (detail information can be found in "Funding Plans - 30 Year Projection" chart, columns (13) through (18):

| | | <u>FY13</u> | |
|--------------|--------------------|---------------|-------------|
| | Con | tribution Sur | nmary |
| | Yours ² | Cash Flow | Component |
| | | Method | Method |
| Contribution | \$50,000 | \$57,410 | \$114,760 |
| Avg/Owner | \$100 | \$115 | \$230 |
| | | 30-Yr Averag | <u>e</u> |
| Contribution | \$72,250 | \$82,950 | \$109,570 |
| Avg/Owner | \$145 | \$166 | \$219 |
| | 30-Yr Mini | mum/Maxim | um Balance |
| | (\$381,920) | \$187,680 | \$330,590 |
| | \$294,940 | \$455,840 | \$1,816,790 |

- Analysis:
 - Your contribution will need to be increased to meet the reserve needs of the property.
 - The cash flow method requires the less contribution throughout the life of the study than the component method plan and is the preferred method for funding the reserves. It provides the most consistency in the annual contribution, from one year to the next year. Future contribution increases can be mostly attributable to inflation.
 - The component method requires the greatest contribution and yearly contributions can be expected to fluctuate considerably from year to year, making it less practical as a funding plan. If this method is chosen, the reserve tables should be updated more frequently, preferably annually.

1. Although the factors used may not prove to be precise they should be reasonable predictors of cost increases and contributions needed to support the reserve requirement over the life of the study.

2. If the study is being done for other than the current fiscal year, inflation is applied to your current contribution.

R/R Study - Pinecrest Swim & Tennis Club October 10, 2012

- In the funding plan we recommend, column (16) portrays the year end balances, both minimum and maximum, we expect will be available, based on the assumptions in this study. These amounts are calculated to assure: 1) funds are available for needed work, 2) there is always a minimum amount of savings available to provide for unforeseen contingencies, and 3) when studies are updated there is not a substantial increase needed to meet the reserve requirement. To prevent against substantial increases PM+ studies take into consideration the first thirty years of the study and an additional twenty years, making the "look at" period a total of fifty years. The 50-year projection is to assure our recommended contribution is based on a sound analysis of the reserve needs of the property.
- Recommendation:
 - Because the cash flow method requires the least contribution and yearly contribution increases are mostly inflation adjustments, we recommend the association fund their reserves using this method.

Study Information

Introduction

The purpose of this study is to design a **Table of Repair/Replacement Reserves** for the common and limited common elements of the property based on the current condition of the components. If the property is to preserve the owner's investment and its quality of life features, a reserve of funds is necessary to do future work.

In addition to the above, Properties located in the state of Virginia are required by Virginia Statutes, 2003 Condominium and Property Owner's Association Act, to conduct reserve studies at least every five years, review the results of the study at least annually and make adjustments as necessary unless the condominium instruments/declaration imposes more stringent requirements. Your attention is called to Sections 55-79.83:1 and 55-514.1 of the Statutes for the complete text.

This study is the first engagement for the property by **PM+**. **PM+** has neither collaborated with nor provided consulting advice to others on issues pertaining to the property.

In developing the table we consider items that have a predictable life cycle as well as those that will most likely need annual maintenance and repairs to keep them in serviceable condition. They are as follows:

Predictable life cycle (Non # sign items).

These components have a predictable life cycle (an average useful life). At the end of its useful life total replacement will be needed.

Annual Allowances (Items preceded by the # sign).

We reserve an average annual amount for these items. These items are typically "life of the property" or long lasting components that do not have a predictable life cycle. We assume the association will keep these components in satisfactory condition with timely spot repairs.

The following considerations should be taken into account to properly manage the reserves: 1) properly funded reserves avoids "special assessments", 2) each owner should pay their fair share for the time they use the component, 3) when reserve funds are available the Association is more inclined not to defer work deferral results in additional deterioration and "catch-up" costs to restore the item to a good condition, 4) government mortgage guarantees agencies, i.e. FHA, require a current reserve study to be available before backing a loan, and 5) some state laws require them. In addition to these considerations, a new factor has recently become apparent. Years ago owners were poorly informed on the importance of the reserves and paid very little attention to whether or not a property had an adequate plan for funding the reserves. With the inclusion of reserve tables in resale packages and other publicity, many potential buyers are now verifying the reserve status before they buy.

Although we use generally accepted techniques and the best information available, it is possible actual costs and useful life can vary from our estimates. We recognize that possibility and attempt with our methodology to arrive at the overall funding recommendation that will avoid, or minimize the need for a special assessment to do reserve work.

R/R Study - Pinecrest Swim & Tennis Club October 10, 2012

Unless otherwise noted, this study does not take into consideration any work the association may need to correct hazardous or defective conditions, such as issues with asbestos, radon, lead, mold, FRT, etc., nor will it fund major projects to repair/replace facades, building tension cables, utilities and other essential systems. Projects of this nature require the services of engineers or other consultants to determine scope, timing and projects costs. If requested, once costs and project timing are known, we will provide a revised study at no additional cost.

This purpose of this study is to determine the funding needed to support the property's reserve requirement and recommended a funding plan to meet that requirement. No other use is intended.

For any reserve projects in progress on the date(s) of our visit our observation of the work should not be considered a project audit or quality control inspection. We leave that to others to determine.

In order for the Table to be an effective budget management tool it will need periodic updates. Because reserves on hand, current costs, quality of maintenance, acts of God, vandalism, and useful life can vary from year to year, a periodic review will assure it remains an effective management tool.

Maintenance/Repair/Replacement "Tips" and Reserve Considerations

There are three levels of care needed to maximize the useful life of equipment and property components: 1) Maintenance, 2) Repair and 3) Replacement.

Maintenance is taking care of an item by doing such tasks as sealing pavement cracks to prevent water from undermining the base, painting to prevent metal corrosion or wood rot, lubricating moving parts on mechanical equipment, fan belt adjustments, etc. It involves the least expenditure of funds and is the best way to maximize useful life. Repair is replacing a portion of an item, such as, a section of pavement, a part of a roof, an air conditioning compressor, etc. It's usually more expensive than maintenance. The most costly is replacement. It involves the entire replacement of the item.

The application of good maintenance and repair techniques can be explained by the following example: An asphalt parking lot of 1000 square yards develops a 10 foot long crack in the surface. The crack can be sealed for about a dollar a linear foot. By doing so, water will not seep through the asphalt causing damage to the base course. That simple maintenance action extended the useful life of the pavement at minimum cost. Assume the crack was not sealed and it grew to a 12' by 12' base damaged area. Cost of repairs would be approximately 60 times as much as fixing the crack. If the damaged area was not repaired and eventually the entire lot had to be replaced it would cost considerably more. Therefore, the prudent thing to do is good maintenance. It's the least costly of the three levels of work.

Prior to totally replacing an item, e.g., a roof, a fence, an air conditioner, etc., all measures should be taken to extend the useful life of the item with repairs. If the roof is leaking don't automatically think the entire roof needs to be replaced. Most leaks occur around penetrations and flashed areas and they can be repaired for less than replacing the entire roof. Fence posts almost always rot out at ground level before the rest of the fence. Posts can be replaced without purchasing a complete new fence. The same applies to most mechanical/electrical equipment. Tube leaks frequently occur in boilers; compressor failures occur in air conditioners and circuit breakers wear out in electric panels. These kinds of failures are repairable without replacing the entire item. The reserve table should be used as an aid in establishing budgets - not as a work plan. When used as a budget management tool its effectiveness will be recognized when funds are readily available to do work - when it must be done. Do not use the remaining useful life data as a work plan. It should be treated as a "window of probable expectancy", based on statistical information, historical trends, conditions at time of survey and experience of when repair or replacement is most likely to be needed. Actual work should not be done until needed. For example, if paving is estimated to need replacement in five years but it's not a problem at that time, put it off until it is a problem. Conversely, if repairs are necessary sooner, do them sooner.

When contracting for services, seek competitive bids and purchase only what's necessary to restore the item to its "like original" condition. Include state-of-the-art improvements but avoid over buying or substantially enhancing an item beyond its original condition. Such improvements are not included in the cost estimates.

Catastrophic failures to such items as footers, foundations, floors, exterior walls and total replacement of utility systems, etc., are not included in the table. They are not included because they are not predictable and it is rare that these items have to be replaced in total. We do recommend a reasonable annual amount be set aside for some repairs and reflect that in the reserve table.

R/R Study - Pinecrest Swim & Tennis Club October 10, 2012

Funding for reserves should be fair to all owners; past, present and future. The worst case scenario for a property is to have no money set aside to pay for repairs/replacements forcing the current owners to pay the total cost. Additionally, having insufficient reserves also presents some injustices as illustrated by the following example:

Mr. and Mrs. "X" owned a unit at the property for the first ten years of its existence when reserve funding was suppressed and insufficient to take care of future problems. Mr. and Mrs. "X" sell their unit and leave. Five years after they leave the pavement and sidewalks need to be repaired. Mr. & Mrs. "Y" now own the unit and receive notice they are to be "specially assessed" to pay for the repair costs.

For demonstration purposes let's say the pavement and sidewalk repairs costs \$150,000 and the association has \$50,000 in the reserve account. Let's also assume there are 100 units at this property.

Over the last fifteen years, past and present owners set aside \$50,000 to take care of the \$150,000 expenditure. Expressed in \$/year that equates to \$3,333/yr or \$33.33 per owner per year.

Mr. & Mrs. "X" had the benefit of good paving and sidewalks for 10 years at a total cost to them of \$333.30. Unfortunately for Mr. & Mrs. "Y", they only used the items for five years, but it will cost them \$1166.50 for their share of the repairs.

Calculations for the above are as follows:

5 years they lived there X \$33.33/yr = \$166.50

The difference between amount in reserves and repair costs divided by number of unit owners:

| (\$150,000-50,000)/100 | = | \$ <u>1000.00</u> |
|------------------------------|---|-------------------|
| Total cost to Mr. & Mrs. "Y" | = | \$1166.50 |

Or, said another way:

Mr. and Mrs. "X" used the items for 66% of their useful life but only paid 22% of the repair cost.

Mr. and Mrs. "Y" used the items for 34% of their useful life but had to pay 78% of the cost.

For funding to be fair all owners should contribute their share of the costs for the period of time they use the item.

Where we describe preventive maintenance recommendations in this study they are intended to be general in nature and the most common tasks needed to extend item useful life. They are not all inclusive; we do not imply that is all that is necessary for good maintenance. Manufactures brochures, service specialty companies and other qualified sources should be consulted to establish the full array of actions needed for proper preventive maintenance.

Level of Service and Engineer's Qualification

This is a Level I, <u>Full Study</u> (with on-site visit) as defined by <u>CAI's National Reserve Study Standards and</u> <u>the Association of Professional Reserve Analysts (APRA)</u>. The association requested this study be a Level I, Full Study in the proposal acceptance.

This study was compiled in accordance with generally accepted standards and represents our professional opinion on the items, timing and dollar amounts that should be budgeted for repair and replacement. The contents of this study comply with the proposal acceptance. In compiling this study we used information obtained from field measurements, observations and management (information provided by management is considered to be reliable). We also took into consideration construction features, current conditions and component age. Testing was not performed, nor was demolition done or panels removed to determine conditions that are not obvious. Based on our observations and the information gained during the visit this study contains, to the best of our ability, all material issues required to determine the funding needed to meet the property's reserve requirement.

This reserve study was done in its entirety by Mario B. "Ben" Ginnetti, a registered professional engineer (**P.E.**) licensed to practice engineering in the states of Virginia, Maryland and the District of Columbia, and Will O'Bryan, intern. Mr. Ginnetti is also a CAI Certified Reserve Specialist (**RS**) and a Professional Reserve Analyst (**PRA**).

Age, Units and Style

Constructed in the mid 1970's. Swimming pool and racquet club configuration.

"Cash flow" and "Component" Method Studies

This study was calculated using both the Cash flow and Component methods. A synopsis of each method is as follows:

Cash flow method - This method develops the funding plan by having the annual contributions offset the variable annual expenses. All expenses are averaged over the life of the study to calculate the annual contribution needed to support the reserve requirement.

Component method - This method develops the funding plan by dividing the remaining useful life into the balance needed to fund the item for <u>only</u> the next cycle of work. The individual item contributions are then added to calculate the total annual contribution needed to support the reserve requirement for that year.

Because of averaging the cash flow method provides a more consistent annual contribution from one update to another and the annual contribution can be calculated so that a special assessment is not anticipated over the life of the study. With the component method, annual contributions can vary significantly from year to year depending on where the components are in their life cycle. If the component method is chosen the <u>reserve tables should be updated more frequently</u>, preferably annually.

Funding Goals

The following represent the basic categories of Funding Plan goals as defined by the Community Association Institute (CAI) for reserve studies:

- Baseline Funding Establishing a Reserve funding goal of keeping the Reserve cash balance above zero.
- Component Full Funding Setting a Reserve funding goal of attaining and maintaining cumulative Reserves at or near 100% funded.
- Statutory Funding Establishing a Reserve funding goal of setting aside the specific minimum amount of reserves required by local statutes or financing agencies.
- Threshold Funding Establishing a Reserve funding goal of keeping the Reserve balance above a specified dollar or Percent Funded amount. Depending on the threshold, this may be more or less conservative than "Fully Funding." <u>This study complies with this goal</u>.

Common and Limited Common Elements (Major Components)

<u>Building Envelope</u> Peaked Roof Doors Brick Façade with Wood Panels Painting-Funded from Operating Account

Pavements/Sidewalks Asphalt Pavements Concrete Curbs & Gutters Concrete and Asphalt Sidewalks

<u>Tennis Courts</u> Asphalt Courts Pole Lights Chain Link Fencing

Multi-Purpose Courts Asphalt

Tot-Lots Metal & Plastic

Swimming Pool Bathhouse Adult Pool Wading Pool Concrete Deck Chain Link Fence Lighting Pool Furniture Pool Cover Water Slide <u>Mechanical/Electrical</u> Hot Water Heaters Exhaust Fans Common Mechanical/Plumbing/Electrical Systems Ancillary Equipment

Retaining Walls/Fencing Wood Retaining Wall Wood and Chain Link Fencing

Other Property Features Awnings Refrigerators and Freezer Pole Mounted Site Lights Signs Storm Drainage Hand Railing Picnic Tables/Benches Barbeque Stoves Mature Trees/ Shrubbery

Reading and Understanding the Tables and Charts

General Comment

The Repair and Replacement Table shows the common or limited common element, average and remaining useful life and estimated cost for work. This information, for the most part, is self-explanatory; however, when we believe more information is needed, we provide comments or use photographs.

Table of Repair & Replacement Reserves

Column

- (1) The various property components and major items of equipment we believe the community should include in the reserves. Where a 15%, 30%, etc., is shown means that total replacement of that item is not anticipated. These items generally have an indefinite life span and only need partial repairs. Items preceded by the pound (#) sign are budgeted for a year at a time. Typically, these items need annual repairs. These items should be adjusted at each update based on historical trends and the amount of work anticipated the following year. If we have omitted or added any items that are not common or limited common area responsibility, please inform us so we can provide a revised table. It also applies if the association accomplishes the work from their annual operating expense and a reserve set-aside is not needed.
- (2) Approximate quantity and unit of measure. The following abbreviations are used; however, they may not all appear in this study:

AC – Acres AOH - Amount-On-Hand AnAvg - Annual Average BLD - Building EA - Each CY - Cubic Yards LF - Linear Feet LS - Lump Sum

- HP Horsepower
- RC Replacement Cost
- SF Square Feet
- SY Square Yards
- TN Tons
- UN Units
- > Greater Than
- < Less Than
- (3) The components average useful life (Avg). Leading publications on useful life data, our own experiences and historical trends are used to determine the average useful life.
- (4) Our best estimate of the remaining useful life (RUL). Some items in the table may not fail precisely as shown. We use the remaining useful life in conjunction with the estimated cost to calculate the annual contribution needed to fund the component.
- (5) Current cost estimates are in current dollars. Estimates are based on similar work in the greater Washington area, association experience, industry publications, such as R.S. Means and Home-Tech, contractors and other reliable sources. It assumes the association will competitively seek bids and obtain a fair price in today's market. Some work, such as, balconies, roofing, garages, fa-çade, boiler and chiller replacements, etc. may need the services of an engineer or architect to determine scope and oversee repairs. Those estimates take precedence over those shown in the table. Conditions that are not obvious from observations, such as excessive deterioration in materials and systems could result in higher costs than shown.
- (6) Distribution of the funds the association had (is projected to have) at the start of their fiscal year or the amount we were requested to use. The program distributes a prorated amount to each item.
- (7) The amount needed to fund the balance of the requirement.
- (8) The contribution needed to fund the 1st year applying the cash flow method. This value is the product of the reserve components and the Funding Plans 30 Year Projection chart. The annual

contribution is calculated so that the reserve balance never falls below the "X" axis and there is always a minimum balance for unforeseen contingencies.

(9) The contribution needed to fund the 1st year applying the component method.

Fiscal Years 1 - 10 Expense Projection - The actual cash out-lays the association should be prepared to fund in the first ten years of the study.

Fiscal Years 11 - 30 Expense Projection - The actual cash out-lays the association should be prepared to fund in the next twenty years of the study. Note - these projections are needed to verify the association is funding the reserves to avoid a "Special Assessment" over the life of the study.

Average Contribution Per Owner - The average contribution needed per owner to fund the 1st year reserve contribution. This amount is not indicative of each owner's individual contribution.

Funding Plans - 30 Year Projection

Column

- (10) Fiscal Year.
- (11) Projected annual expenses.
- (12) Cumulative expenses over 30-years.
- (13) 30-year projected contribution if your current funding plan continues, inflation applied.
- (14) Projected year-end balances based on your current contributions, interest applied.
- (15) 30-year projected contribution if the cash flow method is implemented to fund the reserves, inflation applied.
- (16) Projected year-end balances based on the cash flow method, interest applied.
- (17) 30-year projected contribution if the component method is implemented to fund the reserves, inflation applied.
- (18) Projected year-end balances based on the component method, interest applied.

<u>Graphs</u>

Graphs depict the projected contributions and year end balances for each plan. The contribution objective should be to have a consistent contribution, year after year, that can be maintained with inflation adjustments. Avoid fluctuating contributions as they can impose financial hardships on owners. The plot objective for the reserve balance is to have the year end balances always above the "X" axis. If it falls below, it indicates a special assessment or loan will be needed to support the reserves.

Summary

- 30-Year Annual Average Average contribution needed to fund each funding plan.
- 30-Year Average/Owner Average contribution per owner for each funding plan.
- 30-Year Minimum Balance Projected minimum balance for each funding plan. An amount to be held in reserve to fund unforeseen contingencies. Expressed as a percentage.

Property Comparison (Not shown in some studies)

The "Property Comparison" chart compares the property's current funding to the last 100 properties we have studied. The comparison shows the maximums, minimums and property averages compared to your property. Three comparisons are made:

- % Funded Ratio of the <u>current</u> to the <u>ideal</u> Reserve Balance for each component in the Reserve Table. The ratio is a product of the "used-up" life, useful life and component cost.
- Reserve Depletion Factor Number of years amount-on-hand will fund (It's the same as the "go broke" date if no more money is added to the reserves).
- Cost Per Owner Average contribution per owner needed to meet the reserve requirement. Dollar amounts will vary from property to property based on construction features, common/limited common elements, past contributions to the reserves and other factors that may not result in a true comparison.

PHOTOGRAPHS & COMMENTS



Pinecrest Swim & Tennis Club is located in Herndon, Virginia.



Front view of the building that houses the bathrooms, lifeguard room, and pool equipment.



Rear view of the building.



The club has two swimming pools. The larger pool contains 5985 square feet.....



.....The wading pool is a 300 square foot facility.



Bathrooms are in fair condition, but we assume they will need a future upgrade.



Pool filtration system that serves both pools.



Water slide will eventually need to be replaced. We reserve for its replacement.



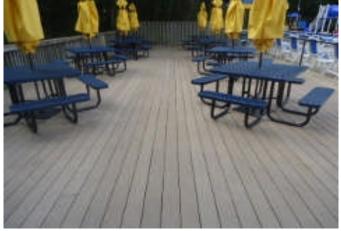
We also reserve for diving boards.



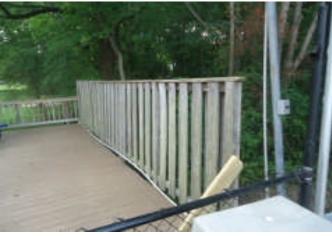
Tot lot is a metal and plastic unit that should achieve a useful life of at least 25 years.



Pool furniture was recently replaced.



A sun deck is available adjacent to the pool. Decking is composite material. Composite material has a longer useful life than wood and requires far less maintenance than natural wood.



Board on board fence on one end of the sun deck is in fair condition.



We also reserve for the wood retaining wall and railing that is placed on and near the sun deck.



General maintenance consisting of spot repairs to rails and fence and tying up loose areas will extend the overall useful life of the fence.



The club has three tennis courts. These courts were recently repaired and color coated.



Twelve light fixtures illuminate the court.



There is also one multi-purpose court with a basketball standard. Likewise, this court was recently repaired and color coated.



The property and swimming pool are enclosed by fencing. Fence consists of both chain link and board on board.



Board on board fence located on the south property line.



A large parking lot consisting of approximately 138 square yards is available for vehicle parking.



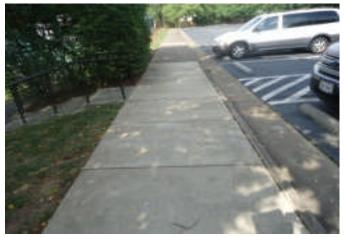
The lot is showing wearing surface and perhaps base failures. We assume the association will find it necessary to overlay the lot in about three years.



We also reserve for bumper blocks.....



.....and concrete repairs to be made as needed.



We also reserve for concrete sidewalk repairs.



The pool equipment room door was recently replaced. We reserve for the remaining doors to be replaced when needed.



Small section of fencing outside both the men's and ladies' room is in good condition at this time.



We also provide for miscellaneous replacement of equipment, such as this bleacher.....



.....lighting fixtures.....



.....and signs.

COMMENTS CONTINUED

The following additional comments are offered to clarify our assumptions or call to your attention items of concern.

| BATHHOUSE | Best information available indicates the roofs were replaced circa 1994. Assuming the shingles have an average useful life of 20 years, replacement should be needed in about three years. Our experience supports not all roofs will need to be replaced at the same time; therefore, we reserve for the replacement to span a period of four years. The Association should establish priorities for replacement, doing the roofs that need it the most in the first year and so on for the remaining roofs. Also, although we reserve for the roofs to be replaced, replacement should not occur until minor repairs are no longer effective and there is no other alternative than to replace the |
|---|---|
| ROOFING-SHINGLES | The shingles appear to have been on the building for quite some time. We assume they will need to be replaced within the next two years. |
| POOL(S) WHITECOAT | Whitecoating is normally needed about every seven years on a covered pool. Although we allow for this work to occur on that schedule, the decision to whitecoat should be evaluated each year after the pool is drained. |
| FILTER/PUMPS/WATER LINES COPING/TILES/WALLS&FLOORS | Allows for filter replacement and usually encountered pump and water line problems. We budget a reasonable amount at every other whitecoating cycle to correct minor problems usually found in the pool shell. Major catastrophic repairs caused by high water table flotation or major wall/floor failures are not budgeted for in the reserves because this work is not predictable. If failures do occur they are sometimes covered by insurance, if not, repairs may need to be funded from other sources at that time. |
| CANOPIES REPLACE CONCRETE DECK-20% SITE LIGHTING POOL COVERS | Replaced in 2011. We reserve for the next time replacement is most likely to be needed. We assume the pool deck will need to be replaced after 50 years of use. Provides for the replacement of the lights that illuminate the pool area at the end of their useful life. Pool covers normally have a useful life of about ten years and are a good investment because they keep debris out of the pool and provide a measure of safety from animals falling into the water. |
| PAVEMENTS | There are two considerations that apply to asphalt pavements: 1) Implement a preventive maintenance program - preventive maintenance consist of sealing open cracks (equal to or greater than 1/8"), repair wearing surface/base/sub-base areas that have failed (distinguished by "alligator" or "chicken wire" cracking), applying a seal coat to the entire surface and repaint all traffic markings. An additional benefit of the seal coat and traffic markings is the pavement will look uniform and that enhances property appearance. Funding for this work is identified as "Preventive Maintenance" in the reserve table. Although we allow for this work to be done every four years, if cracks open or asphalt failures occur sooner they should be repaired at that time. The contingency built into the funding plan should be more than adequate to fund these repairs in the off years. If additional funds are needed in the scheduled years, likewise, the contingency should be used. 2) Be prepared to repave all asphalt around the time period shown in the table. Although we allow for 100% of the asphalt to be repaived our experience supports a smaller percentage of the base/sub-base will need repairs. We show that percentage in the "Base Course/Concrete Repairs" entry. When repaving, there are two possible courses of action; 1) mill only near the gutter pans to preserve proper drainage and then place a 1-1/2" of compacted asphalt throughout, and 2) total milling of all the asphalt cost is dictated by the price of oil. Actual cost could be higher or lower depending on the cost of oil at the time work is done and how many base failures need repair to support the overlay. |
| TENNIS/MULTI-PURPOSE COURTS 10' CHAIN LINK FENCE | Fence useful life can be extended by painting to control rust, stretching fabric, straightening posts and adding tie wires to hold the fabric tight, when needed. |
| TOT-LOTS | Metal and plastic unit is in good condition. To extend useful life of the equipment repair components as needed, i.e., periodically check nuts, bolts and other fasteners to assure they are holding the components properly. Keep the running surface filled with "loose fill materials" to absorb the shock when children fall or jump. Children falling on non-absorbing materials cause 70% of tot-lot injuries. |

TOT LOT(S)

COMMENTS CONTINUED Tot-lot replacements costs can vary greatly - we use an average cost. To extend useful life of the equipment

| | repair components as needed, i.e., protectively coat metal surfaces to prevent deterioration/corrosion, periodically check nuts, bolts and other fasteners to assure they are holding the components properly. Keep the running surface filled with "loose fill materials" to absorb the shock when children fall or jump. Children falling on non-absorbing materials cause 70% of tot-lot injuries. |
|---|---|
| RETAINING WALLS/FENCING | |
| WOOD RETAINING WALLS | Wood retaining walls typically have accelerated deterioration in the top member of the wall. In some cases these members can be replaced without replacing the entire wall. When total replacement is needed, consider installing a modular block system. These systems have a longer useful life and require less maintenance. |
| 6' BOARD FENCE (PERIMETER) | We saw leaning post and loose boards. Spot repairs to loose members, straightening posts and applying a preservative or paint can extend useful life. |
| CHAIN LINK FENCE (PERIMETER AND POOL) | Fence useful life can be extended by painting to control rust, stretching fabric, straightening posts and adding tie wires to hold the fabric tight, when needed. |
| OTHER PROPERTY FEATURES | |
| REFRIGERATORS AND FREEZER | Exact failure cannot be predicted. We assume replacement could be needed between five and fifteen years from now. |
| PICNIC TABLES/BENCHES | We reserve for their replacement and assume units costing approximately \$900 each will be purchased. |
| ASPHALT PATH | This path serves the tennis courts and the tot lot. It is currently in fair condition but will need to be overlaid in the future. |
| ANNUAL ALLOWANCES | The below listed components are non-cyclical items that typically experience some kind of failure each year or every few years. We reserve a reasonable amount of money each year to keep them in good repair. Funding from other sources may be needed if major repairs are needed. |
| FACADE/CAULK/WATERPROOFING CURBS/GUTTERS/SIDEWALKS/STEPS | Minor repairs to bricks, wood siding, sealing doors, walls, and other openings to keep buildings weather tight. Curbs, gutters, sidewalks and steps will deteriorate, heave, settle, be damaged by vehicles or sustain other types of damage. Defective areas should be corrected as needed. |
| POOL DECK/COPING & TILE | Deck, coping and tiles will need joint and crack sealing and spot repairs to keep them in good condition to meet safety and health department requirements. |
| MECHANICAL/PLUMBING/ELECTRICAL | A annual expenditure to keep in good repair common area mechanical, plumbing and electric systems that are not reserved for elsewhere. Motors, pumps, gauges, valves, controls, fire, security, mechanical system, plumbing pipes, electric faults and other kinds of system deterioration will need repair as problems occur. |
| TREES/LANDSCAPE IMPROVEMENTS | Tree care and landscape needs can become expensive. Reserves for removal/replacement of diseased and dead units. |
| MISCELLANEOUS ITEMS | Repairs to interior doors, small lighting fixtures, drainage improvements, and other items that are not reserved for elsewhere. |

EXCLUSIONS

ADA ACCESSIBLE SWIMMING POOL

We make no allowance for making the pools ADA accessible as the pools are not considered to be for public use. If this assumption is incorrect please advise and we will revise the study.

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Appendix A

TABLE OF REPAIR & REPLACEMENT RESERVES

| TABLE | | | ALFLA | CEIVI | IENT RESER | (VES | | | | 1 | | | | | | | | © 2002 - 2 | 012 by MBG |
|---------------------------------------|---------------|----|-------|-------|----------------------|---------------------|-------------------|---------------------|---------|--------|---------|--------|---------|------------|---------|---------|------|------------|------------|
| ITEM | APPRO QUAN | | AVG | REM | ESTIMATED COST IN | DISTR'BTN OF AOH | BALANCE NEEDED | FY CONTRI | BUTION | | | FISCA | AL YEAR | S 1 - 10 E | EXPENSI | E PROJE | | | |
| | | | (YR | RS) | CURRENT \$ | AS OF | | CASH FLOW (METH | | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 |
| (1) | (2) | | (3) | (4) | (5) | 01-Apr-12 (6) | RESERVE (7) | (8) | (9) | | | | | | | | | | |
| BATHHOUSE | | | | | | | | | | | | | | | | | | | |
| ROOFING-SHINGLES | 1,488 | SF | 20 | 2 | \$6,700 | \$1,930 | \$4,770 | \$1,190 | \$2,390 | \$0 | \$6,860 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| ENTRANCE DOORS | 5 | EA | 25 | 15 | 10,300 | 2,960 | 7,340 | 240 | 490 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| RENOVATE BATHHOUSE | | LS | 20 | 10 | 50,000 | 14,390 | 35,610 | 1,780 | 3,560 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 62,010 |
| POOL(S) | | | | | | | | | | | | | | | | | | | |
| WHITECOAT-ADULT POOL | 5,985 | SF | 7 | 4 | 35,910 | 10,340 | 25,570 | 3,200 | 6,390 | 0 | 0 | 0 | 38,580 | 0 | 0 | 0 | 0 | 0 | 0 |
| WHITECOAT-WADING POOL | 300 | SF | 7 | 4 | 1,800 | 520 | 1,280 | 160 | 320 | 0 | 0 | 0 | 1,930 | 0 | 0 | 0 | 0 | 0 | 0 |
| FILTER/PUMPS/WATER LINES | | LS | 15 | 7 | 18,000 | 5,180 | 12,820 | 920 | 1,830 | 0 | 0 | 0 | 0 | 0 | 0 | 20,780 | 0 | 0 | 0 |
| COPING/TILES/WALLS&FLOORS | | LS | 14 | 11 | 54,010 | 15,550 | 38,460 | 1,750 | 3,500 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| HOT WATER HEATER | 1 | EA | 15 | 3 | 6,000 | 1,730 | 4,270 | 710 | 1,420 | 0 | 0 | 6,290 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| REPLACE CONCRETE DECK-20% | 2,223 | SF | 10 | 10 | 24,450 | 7,040 | 17,410 | 870 | 1,740 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 30,320 |
| RESURFACE SUN DECK | 1,500 | SF | 50 | 30 | 30,000 | 8,630 | 21,370 | 360 | 710 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| SUN DECK RAILS | 80 | LF | 30 | 20 | 4,800 | 1,380 | 3,420 | 90 | 170 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| WATER SLIDE | | LS | 15 | 11 | 19,000 | 5,470 | 13,530 | 620 | 1,230 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| POOL FURNITURE | | LS | 6 | 5 | 29,000 | 8,350 | 20,650 | 2,070 | 4,130 | 0 | 0 | 0 | 0 | 31,910 | 0 | 0 | 0 | 0 | 0 |
| CANOPIES | | LS | 10 | 9 | 15,000 | 4,320 | 10,680 | 590 | 1,190 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 18,160 | 0 |
| SITE LIGHTING | 12 | EA | 30 | 7 | 22,800 | 6,560 | 16,240 | 1,160 | 2,320 | 0 | 0 | 0 | 0 | 0 | 0 | 26,320 | 0 | 0 | 0 |
| ADULT POOL COVER | 5,985 | SF | 10 | 5 | 20,950 | 6,030 | 14,920 | 1,490 | 2,980 | 0 | 0 | 0 | 0 | 23,050 | 0 | 0 | 0 | 0 | 0 |
| WADING POOL COVER | 300 | SF | 10 | 5 | 1,880 | 540 | 1,340 | 130 | 270 | 0 | 0 | 0 | 0 | 2,070 | 0 | 0 | 0 | 0 | 0 |
| TOTAL SWIMMING POOL | | | | | 350,600 | 100,920 | 249,680 | 17,330 | 34,640 | | | | | | | | | | |
| PAVEMENTS | | | | | | | | | | | | | | | | | | | |
| PREVENTIVE MAINTENANCE | 3,138 | SY | 4 | 7 | 6,280 | 1,810 | 4,470 | 320 | 640 | 0 | 0 | 0 | 0 | 0 | 0 | 7,250 | 0 | 0 | 0 |
| PAVEMENT OVERLAY | 3,138 | SY | 13 | 3 | 40,790 | 11,740 | 29,050 | 4,840 | 9,680 | 0 | 0 | 42,790 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| BASE COURSE/CONCRETE RPRS @ 20% | 628 | SY | 13 | 3 | 21,970 | 6,320 | 15,650 | 2,610 | 5,220 | 0 | 0 | 23,050 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | | 40.070 | 40.470 | | | | | | | | | | | | |
| TOTAL PAVEMENTS | | | | | 69,040 | 19,870 | 49,170 | 7,770 | 15,540 | | | | | | | | | | |
| TENNIS/MULTI-PURPOSE COURTS | | | | | | | | | | | | | | | | | | | |
| RESURFACE-TENNIS & MULTI-PURPOSE | 4 | EA | 5 | 5 | 17,500 | 5,040 | 12,460 | 1,250 | 2,490 | 0 | 0 | 0 | 0 | 19,260 | 0 | 0 | 0 | 0 | 21,700 |
| COURT REPAIRS | 4 | EA | 20 | 1 | 60,000 | 17,270 | 42,730 | 21,370 | 42,730 | 60,000 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| LIGHTS/POSTS | 12 | EA | 30 | 15 | 45,600 | 13,120 | 32,480 | 1,080 | 2,170 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 10' CHAIN LINK FENCE | 560 | LF | 30 | 15 | 23,520 | 6,770 | 16,750 | 560 | 1,120 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| TOTAL TENNIS/MULTI-PURPOSE COURTS | | | | | 146,620 | 42,200 | 104,420 | 24,260 | 48,510 | | | | | | | | | | |
| TOT-LOTS | | | | | | | | | | | | | | | | | | | |
| TOT LOT(S) | 1 | EA | 25 | 17 | 27,000 | 7,770 | 19,230 | 570 | 1,130 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 101 201(3) | I | LA | 25 | 17 | 27,000 | | | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| TOTAL TOT-LOTS | | | | | 27,000 | 7,770 | 19,230 | 570 | 1,130 | | | | | | | | | | |
| RETAINING WALLS/FENCING | | | | | | | | | | | | | | | | | | | |
| WOOD RETAINING WALLS | 60 | SF | 40 | 10 | 3,300 | 950 | 2,350 | 120 | 240 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4,090 |
| 6' BOARD FENCE (PERIMETER) | 300 | LF | 15 | 5 | 9,600 | 2,760 | 6,840 | 680 | 1,370 | 0 | 0 | 0 | 0 | 10,560 | 0 | 0 | 0 | 0 | 4,000 0 |
| 6' B ON B FENCE (POOL AREA) | 45 | LF | 30 | 15 | 1,440 | 410 | 1,030 | 30 | 70 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 6' CHAIN LINK FENCE (PERIM. AND POOL) | | LF | 30 | | 40,920 | 11,780 | 29,140 | 970 | 1,940 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | ., | | | | ,020 | ,. 50 | _0,0 | 0.0 | ., | Ĭ | 5 | 5 | • | 5 | 5 | ÷ | • | Ĵ | · |

TABLE OF REPAIR & REPLACEMENT RESERVES

| ITEM | | | | | ESTIMATED | DISTR'BTN | BALANCE | FY13 CONTRIBUTION | | © 2002 - 2012 by ME FISCAL YEARS 1 - 10 EXPENSE PROJECTION | | | | | | | | | | | | |
|--------------------------------|----------|----|-------------|-----|-----------------------|------------------------------|------------------------------|-------------------------------|-----------------|---|----------|----------|----------|-----------|----------|----------|----------|----------|-----------|--|--|--|
| | QUANTITY | | AVGI (YR | | COST IN CURRENT \$ | OF AOH AS OF 01-Apr-12 | NEEDED TO FUND RESERVE | CONTRI CASH FLOW (METH | COMPONENT | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | | | |
| (1) | (2) | | (3) | (4) | (5) | (6) | (7) | (8) | (9) | | | | | | | | | | | | | |
| 3' CHAIN LINK FENCE (POOL) | 105 | LF | 30 | 15 | 2,000 | 580 | 1,420 | 50 | 90 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | |
| TOTAL RETAINING WALLS/FENCING | | | | | 57,260 | 16,480 | 40,780 | 1,850 | 3,710 | | | | | | | | | | | | | |
| OTHER PROPERTY FEATURES | | | | | | | | | | | | | | | | | | | | | | |
| REFRIGERATOR-OLDER | 1 | EA | 15 | 5 | 800 | 230 | 570 | 60 | 110 | 0 | 0 | 0 | 0 | 880 | 0 | 0 | 0 | 0 | 0 | | | |
| REFRIGERATOR-NEWER | 1 | EA | 15 | 14 | 800 | 230 | 570 | 20 | 40 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | |
| FREEZER | 1 | EA | 15 | 5 | 800 | 230 | 570 | 60 | 110 | 0 | 0 | 0 | 0 | 880 | 0 | 0 | 0 | 0 | 0 | | | |
| PICNIC TABLES/BENCHES | 10 | EA | 20 | 15 | 9,000 | 2,590 | 6,410 | 210 | 430 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | |
| ASPHALT PATH | 1,080 | SF | 30 | 15 | 19,440 | 5,600 | 13,840 | 460 | 920 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | |
| TOTAL OTHER PROPERTY FEATURES | | | | | 30,840 | 8,880 | 21,960 | 810 | 1,610 | | | | | | | | | | | | | |
| ANNUAL ALLOWANCES | | | | | | | | | | | | | | | | | | | | | | |
| FACADE/CAULK/WATERPROOFING | | LS | 1 | 1 | 1,000 | 290 | 710 | 360 | 710 | 1,000 | 1,020 | 1,050 | 1,070 | 1,100 | 1,130 | 1,150 | 1,180 | 1,210 | 1,240 | | | |
| CURBS/GUTTERS/SIDEWALKS/STEPS | | LS | 1 | 1 | 1,000 | 290 | 710 | 360 | 710 | 1,000 | 1,020 | 1,050 | 1,070 | 1,100 | 1,130 | 1,150 | 1,180 | 1,210 | 1,240 | | | |
| POOL DECK/COPING & TILE | | LS | 1 | 1 | 2,500 | 720 | 1,780 | 890 | 1,780 | 2,500 | 2,560 | 2,620 | 2,690 | 2,750 | 2,820 | 2,890 | 2,960 | 3,030 | 3,100 | | | |
| MECHANICAL/PLUMBING/ELECTRICAL | | LS | 1 | 1 | 3,000 | 860 | 2,140 | 1,070 | 2,140 | 3,000 | 3,070 | 3,150 | 3,220 | 3,300 | 3,380 | 3,460 | 3,550 | 3,630 | 3,720 | | | |
| TREES/LANDSCAPE IMPROVEMENTS | | LS | 1 | 1 | 3,000 | 860 | 2,140 | 1,070 | 2,140 | 3,000 | 3,070 | 3,150 | 3,220 | 3,300 | 3,380 | 3,460 | 3,550 | 3,630 | 3,720 | | | |
| MISCELLANEOUS ITEMS | | LS | 1 | 1 | 3,000 | 860 | 2,140 | 1,070 | 2,140 | 3,000 | 3,070 | 3,150 | 3,220 | 3,300 | 3,380 | 3,460 | 3,550 | 3,630 | 3,720 | | | |
| TOTAL ANNUAL ALLOWANCES | | | | | 13,500 | 3,880 | 9,620 | 4,820 | 9,620 | | | | | | | | | | | | | |
| TOTAL RESERVES | | | | | \$694,860 | \$200,000 | \$494,860 | \$57,410 | \$114,760 | \$73,500 | \$20,670 | \$86,300 | \$55,000 | \$103,460 | \$15,220 | \$69,920 | \$15,970 | \$34,500 | \$134,860 | | | |
| | | | | | RAGE CONTR | ====== | ====== | ====== \$115 | ====== \$230 | ====== | ====== | ====== | ====== | ====== | ====== | ====== | ====== | ====== | ====== | | | |

Notes:

All dollars rounded to nearest \$10. Totals may not add due to rounding.

- An annual allocation. Repairs are usually needed at least once a year.
 One year remaining useful life indicates the useful life of the component is used up, except for # sign items that are treated as annual events.

| WAREAR VAREAR VAREAR< | | | | | | | | | | | | FISCAL | YEARS | 11 - 30 E | XPENSE | PROJE | CTION | | | | | | 9 2002 - 20 |)12 by MBG | |
|--|---|--------|--------|--------|--------|------|------|-------|--------|--------|--------|--------|-------|-----------|--------|---------|--------|------|--------|----------|----------|------|--------------------|------------|--|
| SWAMPAG POOL BATHROUGE Sol | | | | | 2023 | 2024 | 2025 | 2026 | 2027 | 2028 | 2029 | 2030 | 2031 | 2032 | 2033 | 2034 | 2035 | 2036 | 2037 | 2038 | 2039 | 2040 | 2041 | 2042 | |
| BATHBORSE FORMASE-INFLACES 2 2 5 700 50 < <th>50 50 50 50 5</th> | 50 50 50 5 | (3) (4 | (3) (4 | l) | (5) | | | | | | | | | | | | | | | | | | | | |
| ROOFINGASINALES 20 2 50,700 50 60 60 60 | | | | | | | | | | | | | | | | | | | | | | | | | |
| ENTRANCE DOORS 25 15 10.300 | •• | | | AA 700 | ••• | ••• | ••• | ••• | ••• | ••• | ••• | ••• | ••• | ^ | ••• | | ••• | ••• | ••• | ^ | ^ | ••• | ••• | ^ | |
| DERVORATE BATHHOUSE 20 10 50.000 0 </td <td></td> <td></td> <td></td> <td>. ,</td> <td></td> <td>\$0</td> <td>\$0</td> <td>\$0</td> <td>\$0</td> <td>\$0</td> | | | | . , | | | | | | | | | | | | | | | | \$0 | \$0 | \$0 | \$0 | \$0 | |
| POOLS0 POOLS0< | | | | | | | | | | | | | | | | | | | | 0 | 0 | 0 | 0 | (| |
| MHTECOAT-ADULTPOOL 7 4 53:91 0 <td>20 1</td> <td>20 1</td> <td>0 50</td> <td>50,000</td> <td>0</td> <td>100,030</td> | 20 1 | 20 1 | 0 50 | 50,000 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 100,030 | |
| MHTECOLTWOING POOL 7 4 1 200 0 <td>-</td> <td>-</td> <td></td> <td>05.040</td> <td>45.040</td> <td>•</td> <td>•</td> <td>•</td> <td>•</td> <td>0</td> <td>•</td> <td>50.000</td> <td>•</td> <td>•</td> <td>0</td> <td>•</td> <td>0</td> <td>•</td> <td>00 750</td> <td>•</td> <td>•</td> <td>•</td> <td>•</td> <td></td> | - | - | | 05.040 | 45.040 | • | • | • | • | 0 | • | 50.000 | • | • | 0 | • | 0 | • | 00 750 | • | • | • | • | | |
| ILTERPONDATE LINES 15 7 18,000 0 <td></td> <td></td> <td></td> <td></td> <td>,</td> <td></td> <td></td> <td>-</td> <td>-</td> <td></td> <td></td> <td>,</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>,</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>(</td> | | | | | , | | | - | - | | | , | | | | | | | , | 0 | 0 | 0 | 0 | (| |
| Spenkartieswakuskerborks 14 15 54,000 68,600 | | | | | | | - | - | - | | | , | | - | | | | | | 0 | 0 | 0 | 0 | (| |
| OTWATER HEATER 15 3 6.00 | | | | | - | | - | v | - | | - | | | | | | | - | • | 0 | 0 | 0 | 0 | (| |
| DEPLACE CONCRETE DECK 20% 10 0 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-</td> <td>•</td> <td>-</td> <td>-</td> <td>-</td> <td></td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td></td> <td></td> <td>· · .</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>(</td> | | | | | | | - | • | - | - | - | | - | - | - | - | | | · · . | 0 | 0 | 0 | 0 | (| |
| Descuence 50 30 30,000 | | | | | | - | - | - | - | - | | | | - | - | - | | - | - | 0 | 0 | 0 | 0 | (| |
| SUN DECK PAILS 30 20 4.800 | | | | | | - | - | | °, | - | - | | | , | - | | - | | °, | 0 | 0 | 0 | 0 | 48,910 | |
| WATER SLIDE 15 11 19,000 24,130 0 <td></td> <td></td> <td></td> <td></td> <td></td> <td>-</td> <td>-</td> <td></td> <td></td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td></td> <td></td> <td>-</td> <td></td> <td>-</td> <td>°,</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>60,020</td> | | | | | | - | - | | | - | - | - | - | | | - | | - | °, | 0 | 0 | 0 | 0 | 60,020 | |
| PCOLEURNTURE 6 5 2.800 36.830 0 0 0 0 4.2520 0 0 0 0 4.9080 0 </td <td></td> <td></td> <td></td> <td>,</td> <td></td> <td>-</td> <td>-</td> <td></td> <td>°,</td> <td>•</td> <td>v</td> <td>-</td> <td>-</td> <td></td> <td></td> <td>-</td> <td>-</td> <td>•</td> <td>-</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>(</td> | | | | , | | - | - | | °, | • | v | - | - | | | - | - | • | - | 0 | 0 | 0 | 0 | (| |
| CANOPIES 10 9 15.000 | | | | | | - | - | • | - | - | • | - | • | - | - | | - | - | | 34,540 | 0 | 0 | 0 | (| |
| SITE LIGHTING 30 7 22.800 | | | | | , | - | - | - | °, | - | , | - | - | - | - | | , | - | | 0 | 0 | 0 | 56,650 | (| |
| ADULT PODL COVER 10 5 2,950 0 0 0 2,9280 0 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td>-</td> <td>-</td> <td></td> <td>-</td> <td>-</td> <td></td> <td></td> <td>,</td> <td></td> <td>-</td> <td></td> <td></td> <td>-</td> <td>-</td> <td>0</td> <td>0</td> <td>0</td> <td>29,300</td> <td>0</td> | | | | | | - | - | | - | - | | | , | | - | | | - | - | 0 | 0 | 0 | 29,300 | 0 | |
| WADING POOL COVER 10 5 1.880 0 0 0 2,830 0 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>•</td> <td>-</td> <td></td> <td>-</td> <td>-</td> <td></td> <td>-</td> <td></td> <td></td> <td></td> <td>•</td> <td>•</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> | | | | | | | | • | - | | - | - | | - | | | | • | • | 0 | 0 | 0 | 0 | 0 | |
| TOTAL SWIMING POOL 350,600 PAVEMENTS PAVEMENTS MERVENTIVE MAINTENANCE 4 7 6,220 7,980 0 0 8,780 0 0 9,666 0 <td></td> <td></td> <td></td> <td></td> <td></td> <td>-</td> <td>-</td> <td></td> <td></td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td></td> <td></td> <td></td> <td></td> <td>,</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>(</td> | | | | | | - | - | | | - | - | - | - | - | | | | | , | 0 | 0 | 0 | 0 | (| |
| PAVEMENTS PREVENTIVE MAINTENANCE 4 7 6.280 7.980 0 0 0 8.780 0 0 0 9.660 0< | 10 | 10 | | | 0 | 0 | 0 | 0 | 2,630 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3,340 | 0 | 0 | 0 | 0 | 0 | |
| PREVENTVE MAINTENANCE 4 7 6.280 7,380 0 0 8,780 0 0 9,660 0 0 10,630 0 0 PAVEMENT OVERLAY 13 3 21,970 | | | 350 | 50,600 | | | | | | | | | | | | | | | | | | | | | |
| DAVEMENT OVERLAY 13 3 40,790 | | | - / | 0.000 | 7 000 | • | 0 | 0 | 0 700 | 0 | 0 | 0 | 0.000 | • | 0 | 0 | 40.000 | 0 | 0 | 0 | 44.000 | 0 | 0 | 0 | |
| BASE COURSE/CONCRETE RPRS @ 20% 13 3 21,970 0 0 0 0 31,450 | | | | | | | | | | | | | | | | | | | | 0 | 11,690 | 0 | 0 | 0 | |
| TOTAL PAVEMENTS 69,040 TENNISMULTI-PURPOSE COURTS 0 0 0 24,460 0 0 0 27,560 0 0 0 31,070 COURT REPARS 20 1 60,000 | | | | | | | | | | | | | | | | | | | | 0 | 0 | 0 | 79,680 | 0 | |
| TENNISMULTI-PURPOSE COURTS RESURFACE-TENNIS & MULTI-PURPOSE 5 5 17,500 | 13 | 13 | 3 21 | 21,970 | 0 | 0 | 0 | 0 | 0 | 31,450 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 42,910 | 0 | |
| RESURFACE-TENNIS & MULTI-PURPOSE 5 5 17,500 0 0 0 0 24,460 0 0 0 27,560 < | | | 69 | 69,040 | | | | | | | | | | | | | | | | | | | | | |
| COURT REPAIRS 20 1 60,000 LIGHTS/POSTS 0 < | _ | _ | | | | _ | | | | | | | | | | | | | | | | | | | |
| LIGHTS/POSTS 30 15 45,600 10' CHAIN LINK FENCE 30 15 23,520 TOTAL TENNIS/MULTI-PURPOSE COURTS T146,620 TOT-LOTS TOTAL TOTS TOTAL TOT-LOTS TOTAL TOT-LOTS TOTAL TOT-LOTS TOTAL TOT-LOTS TOTAL TOT-LOTS TOTAL TOT-LOTS RETAINING WALLS/FENCING WOOD RETAINING WALLS 40 10 3,300 6' BOARD FENCE (PERIMETER) 15 5 9,600 6' BOARD FENCE (PERIMETER) 15 5 9,600 6' CHAIN LINK FENCE (PERIM AND POOL) 30 15 1,440 | | | | | | | | | | | - | | | , | | | | | , | 0 | 0 | 0 | 0 | 35,010 | |
| 10' CHAIN LINK FENCE 30 15 23,520 0 0 0 32,870 | | | | | | | | | - | | | | | | | | | | - | 0 | 0 | 0 | 0 | 0 | |
| TOTAL TENNIS/MULTI-PURPOSE COURTS 146,620 TOT-LOTS TOT LOT(S) 25 17 27,000 0 0 0 0 0 39,580 | | | | | | | | - | | | | | | | - | | | - | - | 0 | 0 | 0 | 0 | 0 | |
| TOT-LOTS TOT LOT(S) 25 17 27,000 0 0 0 0 0 39,580 0 <t< td=""><td>30 1</td><td>30 1</td><td>5 23</td><td>23,520</td><td>0</td><td>0</td><td>0</td><td>0</td><td>32,870</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>C</td></t<> | 30 1 | 30 1 | 5 23 | 23,520 | 0 | 0 | 0 | 0 | 32,870 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | C | |
| TOT LOT(S) 25 17 27,000 0 0 0 0 0 39,580 0 <td></td> <td>6</td> <td>146</td> <td>46,620</td> <td></td> | | 6 | 146 | 46,620 | | | | | | | | | | | | | | | | | | | | | |
| TOTAL TOT-LOTS 27,000 RETAINING WALLS/FENCING WOOD RETAINING WALLS 40 10 3,300 | | | | | | | | | | | | | | | | | | | | | | | | | |
| RETAINING WALLS/FENCING MOOD RETAINING WALLS 40 10 3,300 | 25 1 | 25 1 | 7 27 | 27,000 | 0 | 0 | 0 | 0 | 0 | 0 | 39,580 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| WOOD RETAINING WALLS 40 10 3,300 | | | 27 | 27,000 | | | | | | | | | | | | | | | | | | | | | |
| 6' BOARD FENCE (PERIMETER) 15 5 9,600 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6' B ON B FENCE (POOL AREA) 30 15 1,440 0 0 0 2,010 | 40 1 | 40 1 | 0 3 | 3,300 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | (| |
| 6' CHAIN LINK FENCE (PERIM. AND POOL) 30 15 40,920 0 0 0 0 57,190 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 15 | 15 | 59 | 9,600 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 15,120 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | (| |
| 3' CHAIN LINK FENCE (POOL) 30 15 2,000 0 0 0 0 2,800 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 30 1 | 30 1 | 5 1 | 1,440 | 0 | 0 | 0 | 0 | 2,010 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | (| |
| | 30 1 | 30 1 | 5 40 | 40,920 | 0 | 0 | 0 | 0 | 57,190 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 0 | 0 | 0 | 0 | (| |
| TOTAL RETAINING WALLS/FENCING 57,260 | 30 1 | 30 1 | 5 2 | 2,000 | 0 | 0 | 0 | 0 | 2,800 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | | | 57 | 57,260 | | | | | | | | | | | | | | | | | | | | | |
| OTHER PROPERTY FEATURES | | | | | | | | | | | | | | | | | | | | | | | | | |
| REFRIGERATOR-OLDER 15 5 800 0 0 0 0 0 0 0 0 0 0 1,260 0 0 0 0 0 | 15 | 15 | 5 | 800 | 0 | 0 | 0 | | 0 | 0 | 0 | 0 | 0 | 1,260 | 0 | | 0 | 0 | | 0 | 0 | 0 | 0 | 0 | |
| REFRIGERATOR-NEWER 15 14 800 0 0 0,000 0 0 0 0 0 0 0 0 0 0 0 0 0 | | | | | 0 | | 0 | 1,090 | | 0 | | | 0 | | | | | 0 | | 0 | 0 | 0 | 1,560 | 0 | |
| | | | | | | | | | | | | | | | | | | | | | | | | 4 | |

| ITEM | USEFUL LIF | FE E | STIMATED | | © 2002 - 2012 by MBG FISCAL YEARS 11 - 30 EXPENSE PROJECTION | | | | | | | | | | | | | | | | | | |
|----------------------------------|----------------|------|-----------------------|---------------------|---|-------------------|-------------------|--------------------|--------------------|---------------------|-------------------|-------------------|---------------------|---------------------|--------------------|-------------------|-------------------|--------------------|-------------------|--------------------|-------------------|--------------------|--------------------|
| | AVGRE (YRS) | | COST IN CURRENT \$ | 2023 | 2024 | 2025 | 2026 | 2027 | 2028 | 2029 | 2030 | 2031 | 2032 | 2033 | 2034 | 2035 | 2036 | 2037 | 2038 | 2039 | 2040 | 2041 | 2042 |
| (1) | (3) (| (4) | (5) | | | | | | | | | | | | | | | | | | | | |
| FREEZER | 15 | 5 | 800 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1,260 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| PICNIC TABLES/BENCHES | 20 | 15 | 9,000 | 0 | 0 | 0 | 0 | 12,580 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ASPHALT PATH | 30 | 15 | 19,440 | 0 | 0 | 0 | 0 | 27,170 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| TOTAL OTHER PROPERTY FEATURES | | | 30,840 | | | | | | | | | | | | | | | | | | | | |
| ANNUAL ALLOWANCES | | | | | | | | | | | | | | | | | | | | | | | |
| # FACADE/CAULK/WATERPROOFING | 1 | 1 | 1,000 | 1,270 | 1,300 | 1,330 | 1,360 | 1,400 | 1,430 | 1,470 | 1,500 | 1,540 | 1,580 | 1,610 | 1,650 | 1,690 | 1,730 | 1,780 | 1,820 | 1,860 | 1,910 | 1,950 | 2,000 |
| # CURBS/GUTTERS/SIDEWALKS/STEPS | 1 | 1 | 1,000 | 1,270 | 1,300 | 1,330 | 1,360 | 1,400 | 1,430 | 1,470 | 1,500 | 1,540 | 1,580 | 1,610 | 1,650 | 1,690 | 1,730 | 1,780 | 1,820 | 1,860 | 1,910 | 1,950 | 2,000 |
| # POOL DECK/COPING & TILE | 1 | 1 | 2,500 | 3,180 | 3,250 | 3,330 | 3,410 | 3,490 | 3,580 | 3,670 | 3,750 | 3,840 | 3,940 | 4,030 | 4,130 | 4,230 | 4,330 | 4,440 | 4,550 | 4,660 | 4,770 | 4,880 | 5,000 |
| # MECHANICAL/PLUMBING/ELECTRICAL | 1 | 1 | 3,000 | 3,810 | 3,900 | 4,000 | 4,090 | 4,190 | 4,290 | 4,400 | 4,500 | 4,610 | 4,730 | 4,840 | 4,960 | 5,080 | 5,200 | 5,330 | 5,450 | 5,590 | 5,720 | 5,860 | 6,000 |
| # TREES/LANDSCAPE IMPROVEMENTS | 1 | 1 | 3,000 | 3,810 | 3,900 | 4,000 | 4,090 | 4,190 | 4,290 | 4,400 | 4,500 | 4,610 | 4,730 | 4,840 | 4,960 | 5,080 | 5,200 | 5,330 | 5,450 | 5,590 | 5,720 | 5,860 | 6,000 |
| # MISCELLANEOUS ITEMS | 1 | 1 | 3,000 | 3,810 | 3,900 | 4,000 | 4,090 | 4,190 | 4,290 | 4,400 | 4,500 | 4,610 | 4,730 | 4,840 | 4,960 | 5,080 | 5,200 | 5,330 | 5,450 | 5,590 | 5,720 | 5,860 | 6,000 |
| TOTAL ANNUAL ALLOWANCES | | | 13,500 | | | | | | | | | | | | | | | | | | | | |
| TOTAL RESERVES | | | \$344,260 ====== | \$202,590 ====== | \$17,550 ====== | \$17,990 ===== | \$19,490 ===== | \$296,760 ===== | \$109,150 ===== | \$101,910 ====== | \$85,880 ===== | \$53,480 ===== | \$112,560 ====== | \$118,560 ====== | \$63,120 ====== | \$82,560 ===== | \$23,390 ===== | \$258,420 ===== | \$59,080 ===== | \$36,840 ====== | \$25,750 ===== | \$236,460 ===== | \$270,970 ===== |

FUNDING PLANS - 30 YEAR PROJECTION

| | | | | | | ng Plans — | | | # Units = 500 © 2002 - 2012 | by MBG |
|--------------|--------------------|------------------------|-------------------|------------------------|--------------------|--------------------|--------------------|------------------------|--|------------------------|
| <u>FY</u> | Expe | enses | Yo | ours | Cash Flo | w Method | Compone | ent Method | Contribution | |
| | | Cumulative | Contr'btn | Balance | Contr'btn | Balance | Contr'btn | Balance | \$200,000 | |
| (10) | (11) | (12) | (13) | (14) | (15) | (16) | (17) | (18) | | |
| | | | | | | | | | \$180,000 | |
| AOH | | | | \$200,000 | | \$200,000 | | \$200,000 | \$160,000 | |
| 2013 | 73,500 | 73,500 | 50,000 | 183,470 | 57,410 | 191,170 | 114,760 | 250,790 | | |
| 2014 | 20,670 | 94,170 | 51,210 | 222,460 | 58,800 | 238,360 | 87,910 | 330,590 | \$140,000 | |
| 2015 | 86,300 | 180,470 | 52,450 | 196,060 | 60,220 | 220,670 | 106,360 | 364,500 | \$120,000 | |
| 2016 | 55,000 | 235,470 | 53,720 | 202,470 | 61,680 | 236,330 | 90,800 | 416,110 | \$100,000 | |
| 2017 | 103,460 | 338,930 | 55,020 | 160,110 | 63,170 | 203,780 | 97,070 | 425,900 | | |
| 2018 | 15,220 | 354,150 | 56,350 | 209,190 | 64,700 | 263,260 | 70,660 | 500,350 | \$80,000 | |
| 2019 | 69,920 | 424,070 | 57,710 | 204,760 | 66,270 | 269,860 | 85,530 | 536,340 | \$60,000 | |
| 2020 | 15,970 | 440,040 | 59,110 | 257,690 | 67,870 | 334,470 | 73,800 | 617,640 | | |
| 2021 | 34,500 | 474,540 | 60,540 | 294,940 | 69,510 | 384,070 | 87,360 | 696,980 | \$40,000 | |
| 2022 | 134,860 | 609,400 | 62,010 | 230,860 | 71,190 | 333,060 | 109,440 | 698,090 | \$20,000 | |
| 2023 | 202,590 | 811,990 | 63,510 | 95,410 | 72,910 | 211,410 | 122,650 | 642,570 | | |
| 2024 | 17,550 | 829,540 | 65,050 | 148,550 | 74,670 | 279,140 | 78,760 | 731,580 | \$0 + * * * * * * * * * * | ' , ' |
| 2025 | 17,990 | 847,530 | 66,620 | 204,970 | 76,480 | 350,970 | 87,700 | 832,940 | 2013 2016 2019 2022 2025 2028 2031 2034 2037 2040 | |
| 2026 | 19,490 | 867,020 | 68,230 | 263,730 | 78,330 | 426,000 | 103,390 | 953,060 | | |
| 2027 | 296,760 | 1,163,780 | 69,880 | 38,310 | 80,230 | 217,740 | 142,410 | 830,260 | | |
| 2028 | 109,150 | 1,272,930 | 71,570 | 760 | 82,170 | 198,300 | 122,660 | 877,100 | Reserve Balance | |
| 2029 | 101,910 | 1,374,840 | 73,300 | (28,950) | 84,160 | 187,680 | 115,140 | 925,500 | \$2,000,000 | |
| 2030 | 85,880 | 1,460,720 | 75,070 | (41,330) | 86,200 | 195,430 | 107,480 | 984,510 | | |
| 2031 | 53,480 | 1,514,200 | 76,890 | (18,630) | 88,290 | 239,330 | 102,570 | 1,074,430 | | |
| 2032 | 112,560 | 1,626,760 | 78,750 | (54,510) | 90,430 | 225,780 | 119,000 | 1,123,560 | \$1.500,000 | |
| 2033 | 118,560 | 1,745,320 | 80,660 | (96,060) | 92,620 | 207,730 | 117,840 | 1,167,190 | | |
| 2034 | 63,120 | 1,808,440 | 82,610 | (79,590) | 94,860 | 248,930 | 101,450 | 1,253,140 | | |
| 2035 | 82,560 | 1,891,000 | 84,610 | (80,600) | 97,160 | 273,940 | 107,270 | 1,328,330 1,468,280 | \$1,000,000 | |
| 2036 | 23,390 | 1,914,390 | 86,660 | (18,010) | 99,510 | 363,890 | 107,550 150.680 | | | |
| 2037 2038 | 258,420 59,080 | 2,172,810 2,231,890 | 88,760 90,910 | (195,080) (169,700) | 101,920 104,390 | 215,580 271,200 | 150,680 | 1,414,280 1,519,200 | | |
| 2038 | 59,080 36,840 | 2,231,890 2,268,730 | 90,910 93,110 | (169,700) (117,910) | 104,390 | 354,760 | 106,270 | 1,651,540 | \$500,000 | |
| 2039 | 36,640 25,750 | 2,208,730 2,294,480 | 93,110 95,360 | (117,910) (50,210) | 106,920 | 354,760 455,840 | 106,420 | 1,651,540 | | |
| | | | | · · / | | | | | | |
| 2041 2042 | 236,460 270,970 | 2,530,940 2,801,910 | 97,670 100,030 | (196,470) (381,920) | 112,160 114,870 | 344,640 195,990 | 166,260 175,840 | 1,815,580 1,788,410 | \$0 + + + + + + + + + + + + + + + + + + + | · - · · · [|
| 2042 | | | 100,030 | (301,920) | 114,070 | 190,990 | 175,640 | 1,700,410 | | |
| | | <u>SUMMARY</u> | | | | | | | ¢500.000 | |
| | | ual Average = | | | \$82,950 | | \$109,570 | | -\$500,000 2013 2016 2019 2022 2025 2028 2031 2034 2037 2040 | |
| | | rage/Owner = | \$145 | (0004.000) | \$166 | A407.000 | \$219 | **** | 2013 2010 2019 2022 2023 2020 2031 2034 2037 2040 | |
| | | um Balance = | | (\$381,920) | | \$187,680 | | \$330,590 | YoursCash Flow MethodComponent Method | |
| 30-Y | ear Maxim | um Balance = | | \$294,940 | | \$455,840 | | \$1,816,790 | | |

Notes:

* An annual average cost. Some expenditures may be needed in earlier years, some in later years, depending on when the actual work is done.

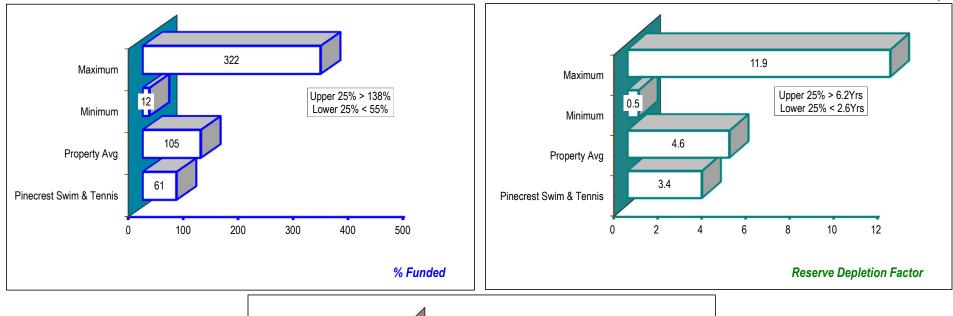
Data is a projection based on this point in time. The projection will change as useful life, current costs and amount-on-hand vary.

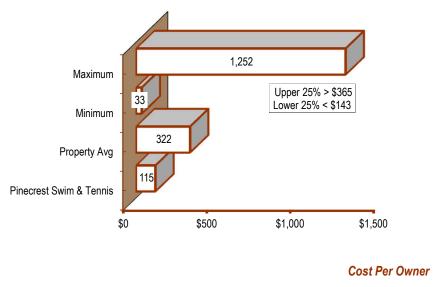
Data should be considered a more accurate projection for years 1 - 5 than the out-years.

Minimum balance does not include the first year.

PROPERTY COMPARISON Sample Size = 100 HOA's/POA's







Legend:

This comparison only compares the first study year to other properties.

% Funded -- Used-up life divided by Useful Life times Current Cost.

Reserve Depletion Factor -- Number of years the amount-on-hand will fund if no more is contributed to the reserves.

Cost Per Owner - The average cost per owner to meet the reserve requirement compared to other properties.