

# REPLACEMENT RESERVE REPORT FY 2015

## TOWNHOUSES OF BAYSHORE

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TOWNHOUSES OF BAYSHORE

Community Management by:

**SEASCAPE PROPERTY MANAGEMENT**

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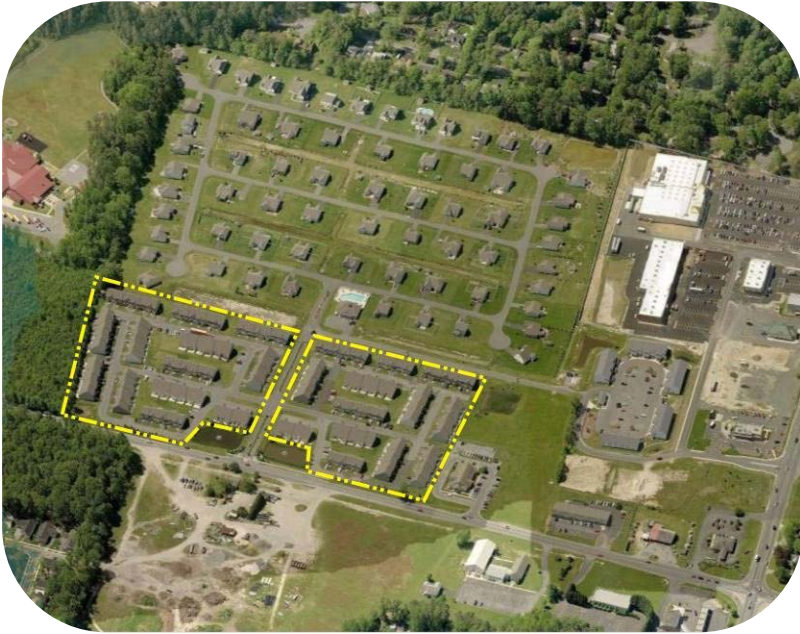
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# REPLACEMENT RESERVE REPORT

## TOWNHOUSES OF BAYSHORE

MILLSBORO, DELAWARE



**Description.** Townhouses of Bayshore is a condominium association located on Bayshore Drive in Millsboro, Delaware. Constructed in 2005, the community consists of 26 buildings containing a total of 146 units. The survey examined the common elements of the property, including:

- Asphalt parking.
- Townhouse roofs and siding.

Townhouse doors, windows, and interiors are the responsibility of the unit owners. The roadways serving the townhouses are part of the property owners association reserves.

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**Level of Service.** This study has been performed as a Level 2 Update with Site Visit/On-Site Review as defined under the National Reserve Study Standards that have been adopted by the Community Associations Institute. As such, the component inventory is based on the study that was performed in 2008 by Miller Dodson Associates. The inventory was adjusted to reflect changes as provided by the Community Manager or adjustments were made based on the site visit and visual inspection performed by the Analyst. The included fund status and funding plan have been developed from analysis of the adjusted inventory.

To aid in the understanding of this report and its concepts and practices, on our web site, we have developed [videos](#) addressing frequently asked topics. In addition, there are posted [links](#) covering a variety of subjects under the resources page of our web site at [mdareserves.com](http://mdareserves.com).

**Purpose.** The purpose of this Replacement Reserve Study is to provide Townhouses of Bayshore (hereinafter called the Association) with an inventory of the common community facilities and infrastructure components that require periodic replacement. The Study includes a general view of the condition of these items and an effective financial plan to fund projected periodic replacements.

- **Inventory of Items Owned by the Association.** Section B lists the Projected Replacements of the commonly owned items that require periodic replacement using funding from Replacement Reserves. The Replacement Reserve Inventory also provides information about excluded items, which are items whose replacements are not scheduled for funding from Replacement Reserves.
- **Condition of Items Owned by the Association.** Section B includes our estimates of the normal economic life and the remaining economic life for the projected replacements. Section C provides a year-by-year listing of the projected replacements. Section D provides additional detail for items that are unique or deserving of attention because of their condition or the manner in which they have been treated in this study.
- **Financial Plan.** The Association has a fiduciary responsibility to protect the appearance, value, and safety of the property and it is therefore essential the Association have a financial plan that provides funding for the projected replacements. In conformance with American Institute of Certified Public Accountant guidelines; Section A evaluates the current funding of Replacement Reserves as reported by the Association and recommends annual funding of Replacement Reserves by two generally accepted accounting methods; the Cash Flow Method and the Component Method. Section A includes graphic and tabular presentations of these methods and current Association funding. An Executive Summary of these calculations is provided on Page A1.

**Basis.** The data contained in this Replacement Reserve Study is based upon the following:

- The Request for Proposal submitted and executed by the Association.
- Miller - Dodson performed a visual evaluation on November 14, 2014 to determine a remaining useful life and replacement cost for the commonly owned elements of this facility.
- This study contains additional recommendations to address inflation for the Cash Flow Method only. For this recommendation, Miller - Dodson uses the Producers Price Index (PPI), which gauges inflation in manufacturing and construction. Please see page A6 and A7 for further details.

**To-Scale Drawings.** Site plans by Design Consultants Group dated May 2002 were used in the development of the previous study. We recommend the Association assemble and maintain a library of site and building plans of the entire facility. Record drawings should be scanned into an electronic format for safe storage and ease of distribution. Upon request for a nominal fee, Miller - Dodson can provide scanning services.

**Current Funding.** This reserve study has been prepared for Fiscal Year 2015 covering the period from January 1, 2015 to December 31, 2015. The Replacement Reserves on deposit as of January 1, 2015 are reported to be \$ 311,456. The planned contribution for the fiscal year is \$ 56,472. The balance and contribution figures have been supplied by the property management agent and confirmation or audit of these figures is beyond the scope of the study. For the purposes of this study, it is assumed that the annual contribution will be deposited at the end of each month.

**Acknowledgement.** Miller - Dodson Associates would like to acknowledge the assistance and input of the Community Manager, Mr. Doug Nichols who provided very helpful insight into the current operations of the property.

**Analyst's Credentials.** Mr. Gregory S. Gilbert holds a Bachelors Degree in Architecture from the Georgia Institute of Technology and a Master of Architecture from the University of Oklahoma. Mr. Gilbert is a licensed Architect. Mr. Gilbert's experience includes the design of residential homes, fire stations, and most recently educational projects. He has also done over twenty feasibility studies for the U. S. Navy, Boards of Education, and retail developers. All of these feasibility studies included performing existing condition surveys to look for maintenance issues, code violations and general conditions of the structure to determine if and how the buildings can be renovated or modified. He is currently a Reserve Analyst for Miller - Dodson Associates.

Respectfully submitted,



Gregory S. Gilbert, AIA  
Reserve Analyst

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## EXECUTIVE SUMMARY

The Townhouses of Bayshore Replacement Reserve Inventory identifies 10 Projected Replacements for funding from Replacement Reserves, with an estimated one-time replacement cost of \$2,002,092.

The Replacement Reserve Analysis calculates recommended funding of Replacement Reserves by the two generally accepted methods, the Cash Flow Method and the Component Method. The Analysis also evaluates current funding of Replacement Reserves, as reported by the Association. The calculations and evaluation are summarized below:

### **\$69,080 CASH FLOW METHOD MINIMUM ANNUAL FUNDING OF REPLACEMENT RESERVES IN THE STUDY YEAR, 2015.**

\$39.43 Per unit (average), minimum monthly funding of Replacement Reserves

The Cash Flow Method (CFM) calculates Minimum Annual Funding of Replacement Reserves that will fund Projected Replacements identified in the Replacement Reserve Inventory from a common pool of Replacement Reserves and prevent Replacement Reserves from dropping below a Minimum Recommended Balance.

CFM - Minimum Annual Funding remains the same between peaks in cumulative expenditures called Peak Years.

The first Peak Year occurs in 2040 and the CFM - Minimum Annual Funding of Replacement Reserves in 2041 declines to \$49,640 (\$28.33 per unit, per month), after the completion of \$2,007,437 of replacements in 2015 to 2040.

A subsequent Peak Year and decline in the Cash Flow Method, Minimum Annual Funding, occurs in 2041.

### **\$77,801 COMPONENT METHOD RECOMMENDED ANNUAL FUNDING OF REPLACEMENT RESERVES IN THE STUDY YEAR, 2015.**

\$44.41 Per unit (average), recommended monthly funding of Replacement Reserves

The Component Method is a very conservative funding model developed by HUD in the early 1980's.

The Component Method treats each projected replacement in the Replacement Reserve Inventory as a separate account. Deposits are made to each individual account, where funds are held for exclusive use by that item.

Based on this funding model, the Association has a Current Funding Objective of \$450,808.

The Association reports having \$311,456 on deposit, which is 69.1% funded.

### **\$56,472 CURRENT ANNUAL FUNDING OF REPLACEMENT RESERVES (as reported by the Association).**

\$32.23 Per unit (average), reported current monthly funding of Replacement Reserves

The evaluation of Current Funding, as reported by the Association, has calculated that if the Association continues to fund Replacement Reserves at the current level, there will NOT be adequate funds for Projected Replacements in 5 years of the 30-year Study Period, and a maximum shortfall of \$-227,709 occurs in 2040.

Pages A2 and A3 explain the Study Year, Study Period, Adjustments (interest & inflation), Beginning Balance, and Projected Replacements. Pages A4 to A9 explain in more detail the calculations associated with the Cash Flow Method, Component Method, and Current Funding.

## REPLACEMENT RESERVE STATUS AND FUNDING PLAN

Current funding of Replacement Reserves is inadequate to fund Projected Replacements.

We recommend the Association adopt a Replacement Reserve Funding Plan based on the Cash Flow Method or the Component Method, to ensure that adequate funding is available throughout the 30-Year Study Period for the \$2,059,121 of Projected Replacements listed in the Townhouses of Bayshore Replacement Reserve Inventory.

The Funding Plan should be professionally updated every three to five years or after completion of each major replacement project. The Board of Directors has a fiduciary responsibility to review the Funding Plan annually and should consider annual increases in Replacement Reserve funding at least equal to the Producer Price Index.

## REPLACEMENT RESERVE ANALYSIS - GENERAL INFORMATION

The Townhouses of Bayshore Replacement Reserve Analysis calculations of recommended funding of Replacement Reserves by the Cash Flow Method and the Component Method, and the evaluation of the Current Funding, are based upon the same General Information; including the Study Year, Study Period, Beginning Balance, and Projected Replacements.

### STUDY YEAR

The Association reports that their accounting year begins on January 1, and the Study Year, the first year evaluated by the Replacement Reserve Analysis, begins on January 1, 2015.

### STUDY PERIOD

The Replacement Reserve Analysis evaluates the funding of Replacement Reserves over a 30-year Study Period that begins on January 1, 2015.

### BEGINNING BALANCE

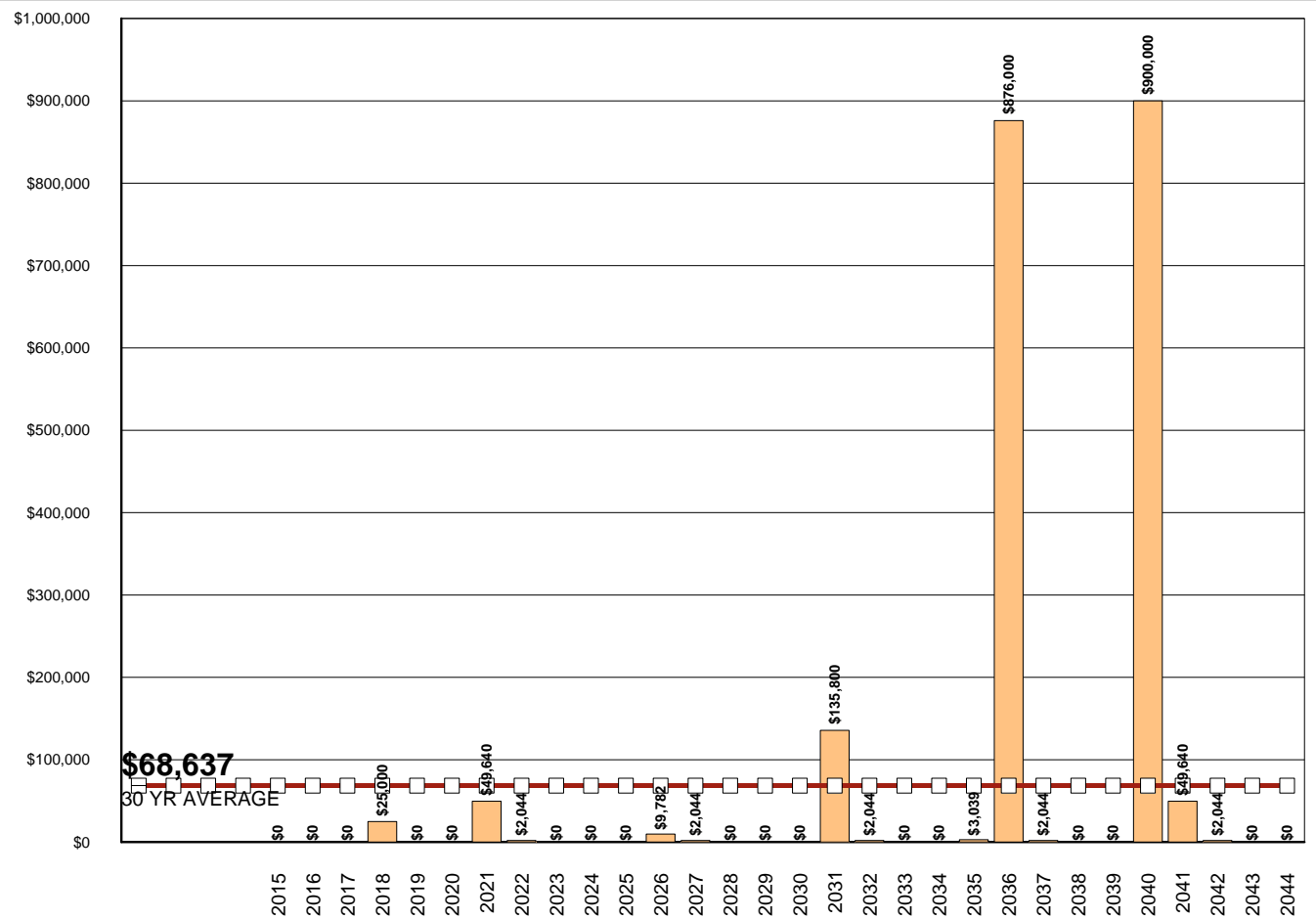
The Association reports Replacement Reserves on Deposit totaling \$311,456 at the start of the Study Year.

### ADJUSTMENTS AND INFLATION

The short term consequences of 4.50% inflation and no constant annual increase in Reserve funding on the Cash Flow Method, as calculated by a proprietary model developed by Miller + Dodson Associates. are shown on Pages A6 and A7. Other calculations in this Analysis do not account for inflation or a constant annual increase. The calculations in this Analysis do not account for interest earned on Replacement Reserves.

### Graph #1. Annual Expenditures for Projected Replacements

This bar graph summarizes annual expenditures for the \$2,059,121 of Projected Replacements identified in the Replacement Reserve Inventory over the 30-year Study Period. The red line shows the average annual expenditure of \$68,637.





**PROJECTED REPLACEMENTS**

The Townhouses of Bayshore Replacement Reserve Inventory (Section B) identifies 10 Projected Replacements with a one-time Replacement Cost of \$2,002,092 and replacements totaling \$2,059,121 in the 30-year Study Period. Projected Replacements are the replacement of commonly-owned items that:

- require periodic replacement and
- whose replacement is to be funded from Replacement Reserves.

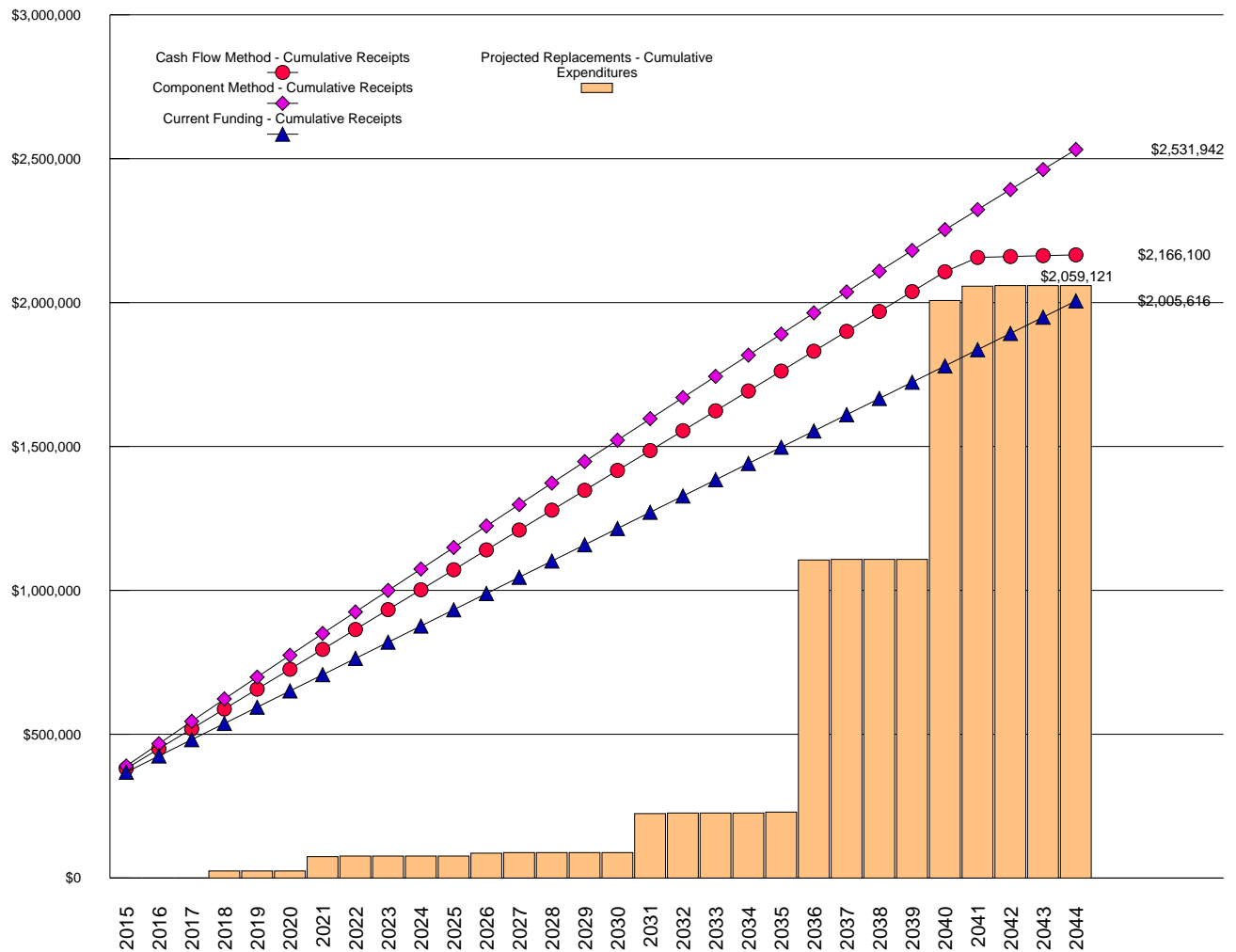
The accuracy of the Townhouses of Bayshore Replacement Reserve Analysis is dependent upon expenditures from Replacement Reserves being made ONLY for the 10 Projected Replacements specifically listed in the Replacement Reserve Inventory.

To further assist in the identification of items not appropriately funded from Replacement Reserves, the Replacement Reserve Inventory identifies 36 Excluded Items. The rationale behind the exclusion of items from funding by Replacement Reserves is discussed in detail on Page B1.

The Section B - Replacement Reserve Inventory, contains Tables that list each Projected Replacement (and any Excluded Items) broken down into 9 major categories (Pages B3 to B10). Tables are also included that list each Projected Replacement by year for each of the 30 years of the Study Period beginning on Page C1.

**Graph #2. Comparison of Cumulative Replacement Reserve Funding and Expenditures**

The line graph shows Replacement Reserves - Cumulative Receipts over the 30-year Study Period by the Cash Flow Method (red circles), Component Method (purple diamonds), and the Current Funding Plan as reported by the Association (blue triangles). The bar graph shows the Cumulative Expenditures necessary to fund the Project Replacements listed in the Replacement Reserve Inventory (Section B) and summarized in Graph #1.



### CASH FLOW METHOD



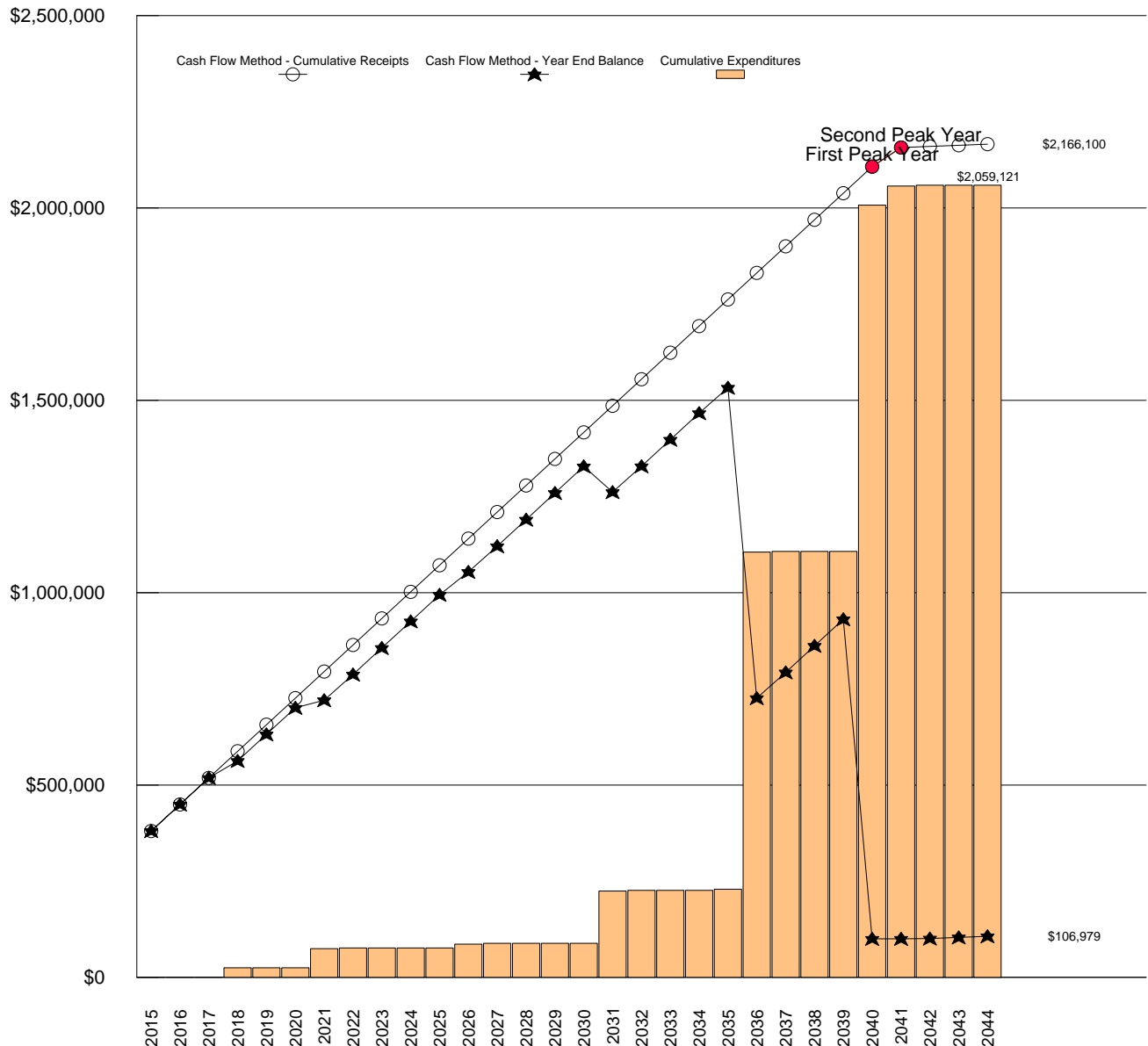
**\$69,080 CASH FLOW METHOD MINIMUM ANNUAL FUNDING OF REPLACEMENT RESERVES IN THE STUDY YEAR, 2015.**

\$39.43 Per unit (average), minimum monthly funding of Replacement Reserves

General. The Cash Flow Method (also referred to as the Straight Line Method) is founded on the concept that the Replacement Reserve Account is solvent if cumulative receipts always exceed cumulative expenditures. The Cash Flow Method calculates a MINIMUM annual deposit to Replacement Reserves that will:

- Fund all Projected Replacements listed in the Replacement Reserve Inventory (see Section B)
- Prevent Replacement Reserves from dropping below the Minimum Recommended Balance (see Page A-5)
- Allow a constant annual funding level between peaks in cumulative expenditures

**Graph #3. Cash Flow Method - Cumulative Receipts and Expenditures Graph**



**CASH FLOW METHOD (cont'd)**

- Replacement Reserves - Minimum Recommended Balance. The Minimum Recommended Balance is \$100,105, which is 5.0 percent of the one-time replacement cost of the Projected Replacements listed in the Replacement Reserve Inventory. Unless otherwise noted in the Comments on Page A-9, the Minimum Recommended Balance has been established by the Analyst based upon an evaluation of the types of items included in the Replacement Reserve Inventory.
- Peak Years. The Cash Flow Method calculates a constant annual funding of Replacement Reserves between peaks in cumulative expenditures called Peak Years. In Peak Years, Replacement Reserves on Deposit decline to the Replacement Reserves - Minimum Recommended Balance discussed in the paragraph above.  
 First Peak Year. The First Peak Year occurs in 2040, after the completion of \$2,007,437 of replacements in 2015 to 2040. The Cash Flow Method - Minimum Annual Funding of Replacement Reserves declines from \$69,080 in 2040 to \$49,640 in 2041.  
 Subsequent Peak Year. A subsequent Peak Year and decline in the Cash Flow Method - Minimum Annual Funding, occurs in: 2041.
- Study Period. The Cash Flow Method calculates the recommended contributions to Replacement Reserves over the 30-year Study Period. These calculations are based upon a 40-year projection of expenditures for Projected Replacements to avoid the Replacement Reserve balance dropping to the Minimum Recommended Balance in the final year of the Study Period.
- Failure to Fund. The Cash Flow Method calculates a MINIMUM annual funding of Replacement Reserves. Failure to fund Replacement Reserves at the minimum level calculated by the Cash Flow Method will result in Replacement Reserves not being available for the Projected Replacements listed in the Replacement Reserve Inventory and/or Replacement Reserves dropping below the Minimum Recommended Balance.
- Adjustment to the Cash Flow Method for interest and inflation. The funding recommendations on Pages A4 and A5 do not account for interest earned on Replacement Reserves, the effects of inflation of the cost of Projected Replacements, or a constant annual increase in Annual Funding of Replacement Reserves.
- Comparison of Cash Flow Funding and Average Annual Expenditure. The Average Annual Expenditure for Projected Replacements listed in the Reserve Inventory over the 30-year Study Period is \$68,637 (see Graph #1). The Cash Flow Method - Minimum Annual Funding of Replacement Reserves in the Study Year is \$69,080. This is 100.6 percent of the Average Annual Expenditure, indicating that the Association is building Replacement Reserves in advance of the first Peak Year in 2040.

**Table #1. Cash Flow Method Data - Years 1 through 30**

Year	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Beginning balance	\$311,456									
Minimum annual funding	\$69,080	\$69,080	\$69,080	\$69,080	\$69,080	\$69,080	\$69,080	\$69,080	\$69,080	\$69,080
Expenditures				\$25,000			\$49,640	\$2,044		
Year end balance	\$380,536	\$449,616	\$518,697	\$562,777	\$631,857	\$700,937	\$720,377	\$787,414	\$856,494	\$925,574
Minimum recommended balance	\$100,105	\$100,105	\$100,105	\$100,105	\$100,105	\$100,105	\$100,105	\$100,105	\$100,105	\$100,105
Cumulative expenditures	\$76,684	\$86,466	\$88,510	\$88,510	\$88,510	\$88,510	\$224,310	\$226,354	\$226,354	\$226,354
Cumulative receipts	\$380,536	\$449,616	\$518,697	\$587,777	\$656,857	\$725,937	\$795,017	\$864,098	\$933,178	\$1,002,258
Year	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034
Minimum annual funding	\$69,080	\$69,080	\$69,080	\$69,080	\$69,080	\$69,080	\$69,080	\$69,080	\$69,080	\$69,080
Expenditures		\$9,782	\$2,044				\$135,800	\$2,044		
Year end balance	\$994,654	\$1,053,952	\$1,120,989	\$1,190,069	\$1,259,149	\$1,328,229	\$1,261,510	\$1,328,546	\$1,397,626	\$1,466,706
Minimum recommended balance	\$100,105	\$100,105	\$100,105	\$100,105	\$100,105	\$100,105	\$100,105	\$100,105	\$100,105	\$100,105
Cumulative expenditures	\$76,684	\$86,466	\$88,510	\$88,510	\$88,510	\$88,510	\$224,310	\$226,354	\$226,354	\$226,354
Cumulative receipts	\$1,071,338	\$1,140,418	\$1,209,499	\$1,278,579	\$1,347,659	\$1,416,739	\$1,485,820	\$1,554,900	\$1,623,980	\$1,693,060
Year	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044
Minimum annual funding	\$69,080	\$69,080	\$69,080	\$69,080	\$69,080	\$69,080	\$49,640	\$2,973	\$2,973	\$2,973
Expenditures	\$3,039	\$876,000	\$2,044			\$900,000	\$49,640	\$2,044		
Year end balance	\$1,532,748	\$725,828	\$792,864	\$861,944	\$931,024	\$100,105	\$100,105	\$101,034	\$104,007	\$106,979
Minimum recommended balance	\$100,105	\$100,105	\$100,105	\$100,105	\$100,105	\$100,105	\$100,105	\$100,105	\$100,105	\$100,105
Cumulative expenditures	\$229,393	\$1,105,393	\$1,107,437	\$1,107,437	\$1,107,437	\$2,007,437	\$2,057,077	\$2,059,121	\$2,059,121	\$2,059,121
Cumulative receipts	\$1,762,140	\$1,831,221	\$1,900,301	\$1,969,381	\$2,038,461	\$2,107,541	\$2,157,181	\$2,160,154	\$2,163,127	\$2,166,100
						First Peak Year	Second Peak Year			

**CASH FLOW METHOD - INFLATION ADJUSTED FUNDING****The Miller + Dodson Model**

General. The Cash Flow Method funding recommendations shown on pages A4 and A5 have been calculated in today's dollars with no adjustment for inflation. Recent swings in construction costs demonstrate the risk facing an Association that does not consider the effects of inflation when funding Replacement Reserves.

Cash Flow Method - Inflation Adjusted Funding. Below is an outline of the proprietary model developed by Miller + Dodson Associates to forecast the short-term consequences of inflation on Replacement Reserves.

- Study Year. The Unit Replacement Costs in the Study Year (listed in Section B Inventory) reflect current construction costs. Appropriate adjustments to account for any time lag between when the Study is conducted and the Study Year have been made by the Reserve Analyst.
- Year Two Inflation Adjusted Funding calculation. The Year Two Starting Balance is calculated assuming Association compliance with the Study Year funding and replacement data listed on Page A7. Next, the Projected Replacement Costs are adjusted using the Construction Cost Inflation Rate (see detailed information below).  
The adjusted data is then evaluated using the Cash Flow Method, calculating the Year Two Inflation Adjusted Minimum Annual Funding of Replacement Reserves.
- Year Three Inflation Adjusted Funding Calculation. The same methodology has been used to develop the Inflation Adjusted Cash Flow Method Minimum Annual Funding of Replacement Reserves in Year Three. Simple compounding has been used to calculate the Year Three Projected Replacement Costs.
- Year Four and Beyond. We have not calculated adjusted funding recommendations beyond the third year of the Study nor do we believe it is appropriate to do so. Inflation adjusted funding recommendations are not intended to be a substitute for the periodic evaluation of the common elements by an experienced Reserve Analyst. We recommend the common elements of the community be evaluated by a Reserve Analyst every 3 to 5 years and at the completion of each major replacement project.

Base Construction Cost Inflation Rate. We have utilized a 4.50 percent base rate of inflation in our calculation of second and third year inflation adjusted funding. The rate of inflation is based upon our review of the Producer Price Indexes for Construction Materials, Structure Types & Subcontractors as published by the Bureau of Labor Statistics and our experience with recent pricing trends in your area."

Assumptions. Cash Flow Method, Inflation Adjusted Funding in Year Two and Year Three is calculated based upon three assumptions discussed below and quantified on Page A7. Prior to approving a budget based upon the calculations, the Association should review the accuracy of the assumptions. If discrepancies are noted, contact Miller + Dodson Associates to arrange for a Replacement Reserve Study Update.

- Replacement Reserve Funding. We have assumed the Association will fund Replacement Reserves as recommended in the Study.
- Scheduled Replacements. We have assumed the Association will make Scheduled Replacements as discussed in the Study (listed on Page C2) and that the cost of these replacements is in substantial compliance with the estimated replacement costs. We have further assumed that no Replacement Reserves will be used to fund replacements other than those specifically listed in the Replacement Reserve Inventory.
- Construction Cost Inflation Rate evaluation. Prior to approving a budget based upon the Year Two and Year Three Adjusted Replacement Reserve Funding calculations, the 4.50 percent base rate of inflation used in our should be compared to rates published by the Bureau of Labor Statistics. If a significant discrepancy (over 1 percent) is noted, contact Miller Dodson Associates prior to using the funding calculations.

Interest. The recommended funding calculations above do not account for interest earned on Replacement Reserves. In 2015, based on a 1.50 percent interest rate, we estimate the Association will earn \$5,190 on an average balance of \$345,996, \$6,255 on an average balance of \$416,973 in 2016, and \$7,379 on \$491,912 in 2017.

Should the Association earn and choose to attribute 100 percent of the interest to Reserves, the 2015 the minimum funding could be reduced from \$69,080 to \$63,890 (a 7.51 percent reduction), \$72,874 to \$66,619 in 2016 (a 8.58 percent reduction), and \$77,003 to \$69,625 in 2017 (a 9.58 percent reduction).

**CASH FLOW METHOD  
THREE-YEAR FUNDING RECOMMENDATIONS WITH INFLATION  
ADJUSTMENT**

**2015 - STUDY YEAR**

**● \$69,080 MINIMUM ANNUAL FUNDING**  
\$39.43 Per unit (average), minimum monthly funding of Replacement Reserves  
The \$69,080 funding of Replacement Reserves in the Study Year has been calculated using current construction costs (listed in Section B Inventory). The Analyst has adjusted the costs to account for any time lag between the preparation of the Study and the Study Year.

**2016 - YEAR TWO**

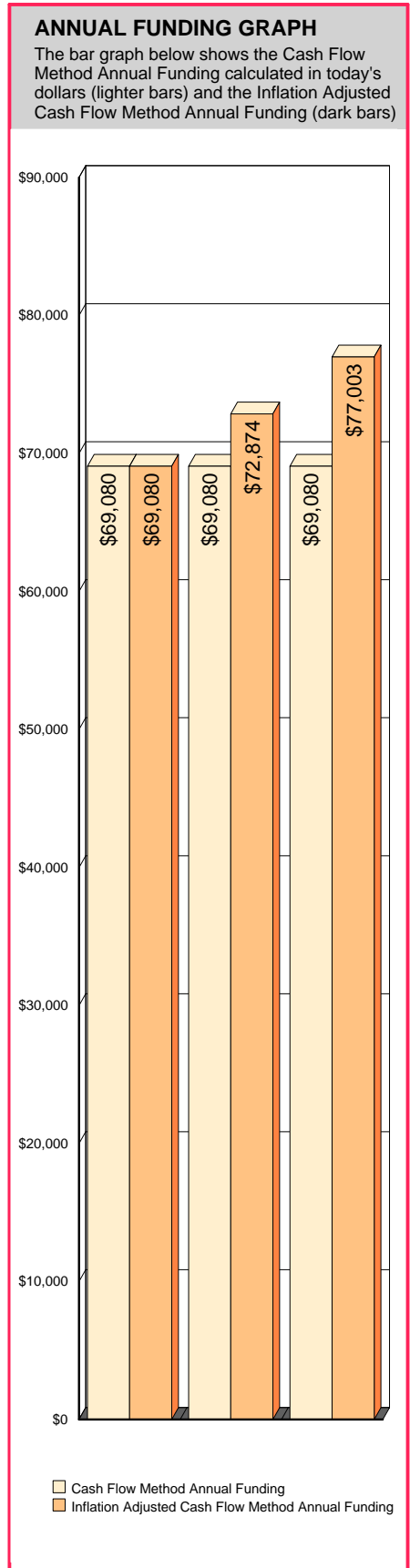
**● \$72,874 INFLATION ADJUSTED MINIMUM ANNUAL FUNDING**  
\$41.59 Per unit (average), minimum monthly funding of Replacement Reserves  
The \$72,874 inflation adjusted funding of Replacement Reserves in 2016 represents a 5.49 percent increase over the non-inflation adjusted funding recommendation of \$69,080 in the Study Year.  
The specific assumptions used to calculate the Year Two Inflation Adjusted Funding are listed below. If the assumptions are inaccurate, do not use the data and contact Miller Dodson Associates to arrange for a Replacement Reserve Study Update. The assumptions are:

- Replacement Reserves on Deposit totaling \$380,536 on January 1, 2016.
- No Expenditures from Replacement Reserves.
- An average annual Construction Cost Inflation Rate of 4.50 percent over the previous 12 month period.

**2017 - YEAR THREE**

**● \$77,003 INFLATION ADJUSTED MINIMUM ANNUAL FUNDING**  
\$43.95 Per unit (average), minimum monthly funding of Replacement Reserves  
The \$77,003 inflation adjusted funding of Replacement Reserves in 2017 represents a 11.47 percent increase over the non-inflation adjusted funding recommendation of \$69,080 in the Study Year.  
The specific assumptions used to calculate the Year Two Inflation Adjusted Funding are listed below. If the assumptions are inaccurate, do not use the data and contact Miller Dodson Associates to arrange for a Replacement Reserve Study Update. The assumptions are:

- Replacement Reserves on Deposit totaling \$453,410 on January 1, 2016.
- No Expenditures from Replacement Reserves.
- An average annual Construction Cost Inflation Rate of 4.50 percent over the previous 24 month period.



### COMPONENT METHOD

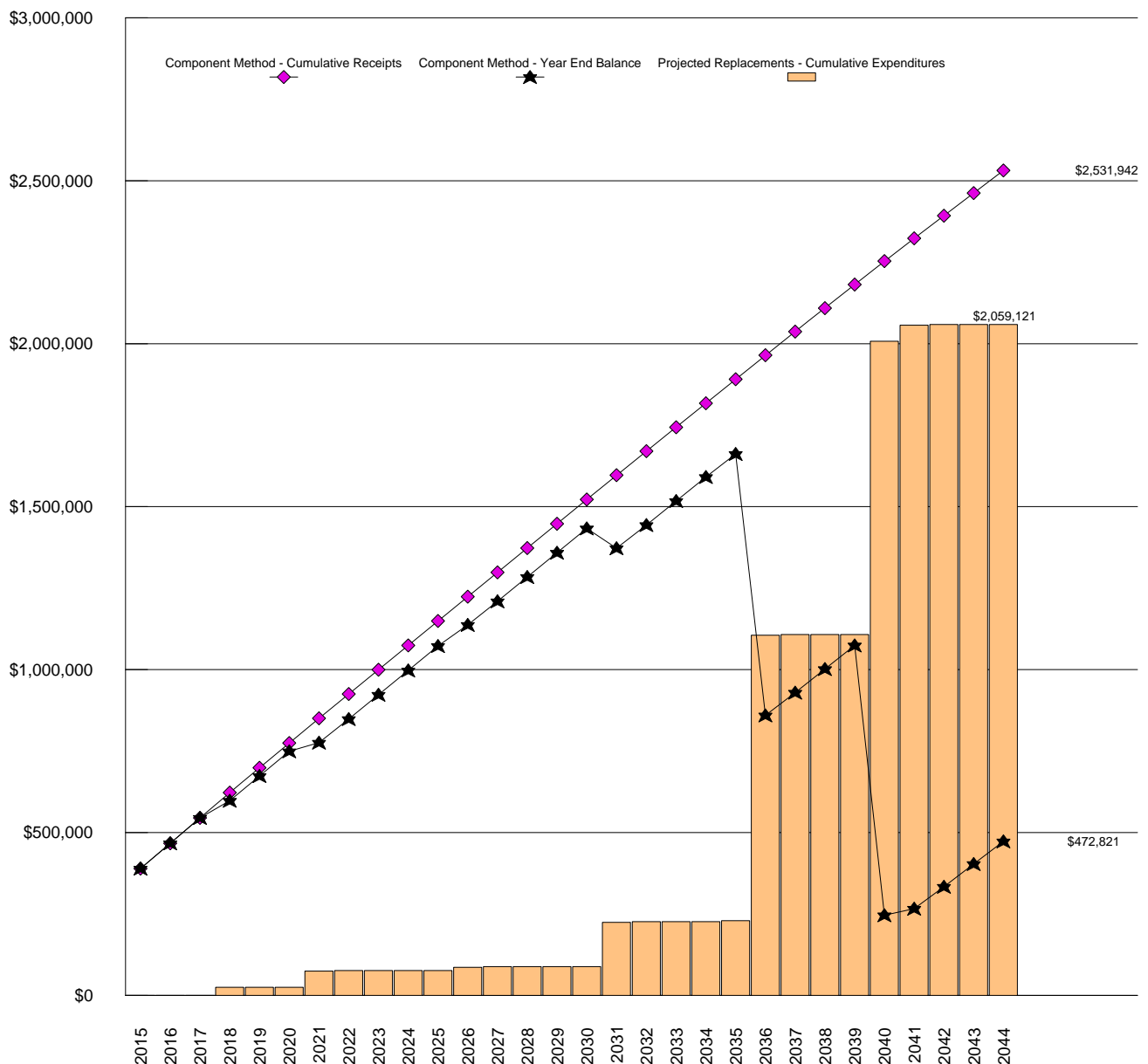


**\$77,801 COMPONENT METHOD RECOMMENDED ANNUAL FUNDING OF REPLACEMENT RESERVES IN THE STUDY YEAR, 2015.**

\$44.41 Per unit (average), recommended monthly funding of Replacement Reserves

General. The Component Method (also referred to as the Full Funded Method) is a very conservative mathematical model developed by HUD in the early 1980s. Each of the 10 Projected Replacements listed in the Replacement Reserve Inventory is treated as a separate account. The Beginning Balance is allocated to each of the individual accounts, as is all subsequent funding of Replacement Reserves. These funds are "locked" in these individual accounts and are not available to fund other Projected Replacements. The calculation of Recommended Annual Funding of Replacement Reserves is a multi-step process outlined in more detail on Page A9.

**Graph #4. Component Method - Cumulative Receipts and Expenditures Graph**



**COMPONENT METHOD (cont'd)**

- **Current Funding Objective.** A Current Funding Objective is calculated for each of the Projected Replacements listed in the Replacement Reserve Inventory. Replacement Cost is divided by the Normal Economic Life to determine the nominal annual contribution. The Remaining Economic Life is then subtracted from the Normal Economic Life to calculate the number of years that the nominal annual contribution should have been made. The two values are then multiplied to determine the Current Funding Objective. This is repeated for each of the 10 Projected Replacements. The total, \$450,808, is the Current Funding Objective.

For an example, consider a very simple Replacement Reserve Inventory with one Projected Replacement, a fence with a \$1,000 Replacement Cost, a Normal Economic Life of 10 years, and a Remaining Economic Life of 2 years. A contribution to Replacement Reserves of \$100 (\$1,000 + 10 years) should have been made in each of the previous 8 years (10 years - 2 years). The result is a Current Funding Objective of \$800 (8 years x \$100 per year).

- **Funding Percentage.** The Funding Percentage is calculated by dividing the Beginning Balance (\$311,456) by the Current Funding Objective (\$450,808). At Townhouses of Bayshore the Funding Percentage is 69.1%
- **Allocation of the Beginning Balance.** The Beginning Balance is divided among the 10 Projected Replacements in the Replacement Reserve Inventory. The Current Funding Objective for each Projected Replacement is multiplied by the Funding Percentage and these funds are then "locked" into the account of each item.

If we relate this calculation back to our fence example, it means that the Association has not accumulated \$800 in Reserves (the Funding Objective), but rather at 69.1 percent funded, there is \$553 in the account for the fence.

- **Annual Funding.** The Recommended Annual Funding of Replacement Reserves is then calculated for each Projected Replacement. The funds allocated to the account of the Projected Replacement are subtracted from the Replacement Cost. The result is then divided by the number of years until replacement, and the result is the annual funding for each of the Projected Replacements. The sum of these is \$77,801, the Component Method Recommended Annual Funding of Replacement Reserves in the Study Year (2015).

In our fence example, the \$553 in the account is subtracted from the \$1,000 Total Replacement Cost and divided by the 2 years that remain before replacement, resulting in an annual deposit of \$224. Next year, the deposit remains \$224, but in the third year, the fence is replaced and the annual funding adjusts to \$100.

- **Adjustment to the Component Method for interest and inflation.** The calculations in the Replacement Reserve Analysis do not account for interest earned on Replacement Reserves, inflation, or a constant annual increase in Annual Funding of Replacement Reserves. The Component Method is a very conservative method and if the Analysis is updated regularly, adequate funding will be maintained without the need for adjustments.

**Table #2. Component Method Data - Years 1 through 30**

Year	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Beginning balance	\$311,456									
Recommended annual funding	\$77,801	\$77,801	\$77,801	\$77,801	\$75,947	\$75,947	\$75,947	\$74,522	\$74,675	\$74,675
Expenditures				\$25,000			\$49,640	\$2,044		
Year end balance	\$389,257	\$467,059	\$544,860	\$597,662	\$673,608	\$749,555	\$775,862	\$848,340	\$923,015	\$997,690
Cumulative Expenditures				\$25,000	\$25,000	\$25,000	\$74,640	\$76,684	\$76,684	\$76,684
Cumulative Receipts	\$389,257	\$467,059	\$544,860	\$622,662	\$698,608	\$774,555	\$850,502	\$925,024	\$999,699	\$1,074,374
Year	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034
Recommended annual funding	\$74,675	\$74,675	\$74,574	\$74,574	\$74,574	\$74,574	\$74,574	\$73,595	\$73,595	\$73,595
Expenditures		\$9,782	\$2,044				\$135,800	\$2,044		
Year end balance	\$1,072,365	\$1,137,258	\$1,209,789	\$1,284,363	\$1,358,937	\$1,433,512	\$1,372,286	\$1,443,837	\$1,517,432	\$1,591,027
Cumulative Expenditures	\$76,684	\$86,466	\$88,510	\$88,510	\$88,510	\$88,510	\$224,310	\$226,354	\$226,354	\$226,354
Cumulative Receipts	\$1,149,049	\$1,223,724	\$1,298,299	\$1,372,873	\$1,447,447	\$1,522,022	\$1,596,596	\$1,670,191	\$1,743,786	\$1,817,381
Year	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044
Recommended annual funding	\$73,595	\$73,754	\$72,277	\$72,277	\$72,277	\$72,277	\$69,526	\$69,526	\$69,526	\$69,526
Expenditures	\$3,039	\$876,000	\$2,044			\$900,000	\$49,640	\$2,044		
Year end balance	\$1,661,583	\$859,338	\$929,571	\$1,001,848	\$1,074,125	\$246,402	\$266,288	\$333,770	\$403,295	\$472,821
Cumulative Expenditures	\$229,393	\$1,105,393	\$1,107,437	\$1,107,437	\$1,107,437	\$2,007,437	\$2,057,077	\$2,059,121	\$2,059,121	\$2,059,121
Cumulative Receipts	\$1,890,976	\$1,964,730	\$2,037,007	\$2,109,285	\$2,181,562	\$2,253,839	\$2,323,365	\$2,392,890	\$2,462,416	\$2,531,942

### CURRENT FUNDING



**\$56,472 CURRENT ANNUAL FUNDING OF REPLACEMENT RESERVES**  
**(as reported by the Association).**

\$32.23 Per unit (average), reported current monthly funding of Replacement Reserves

General. Our evaluation of the Current Association Funding assumes that the Association will continue to fund Replacement Reserves at the current level of \$56,472 per year in each of the 30 years of the Study Period.

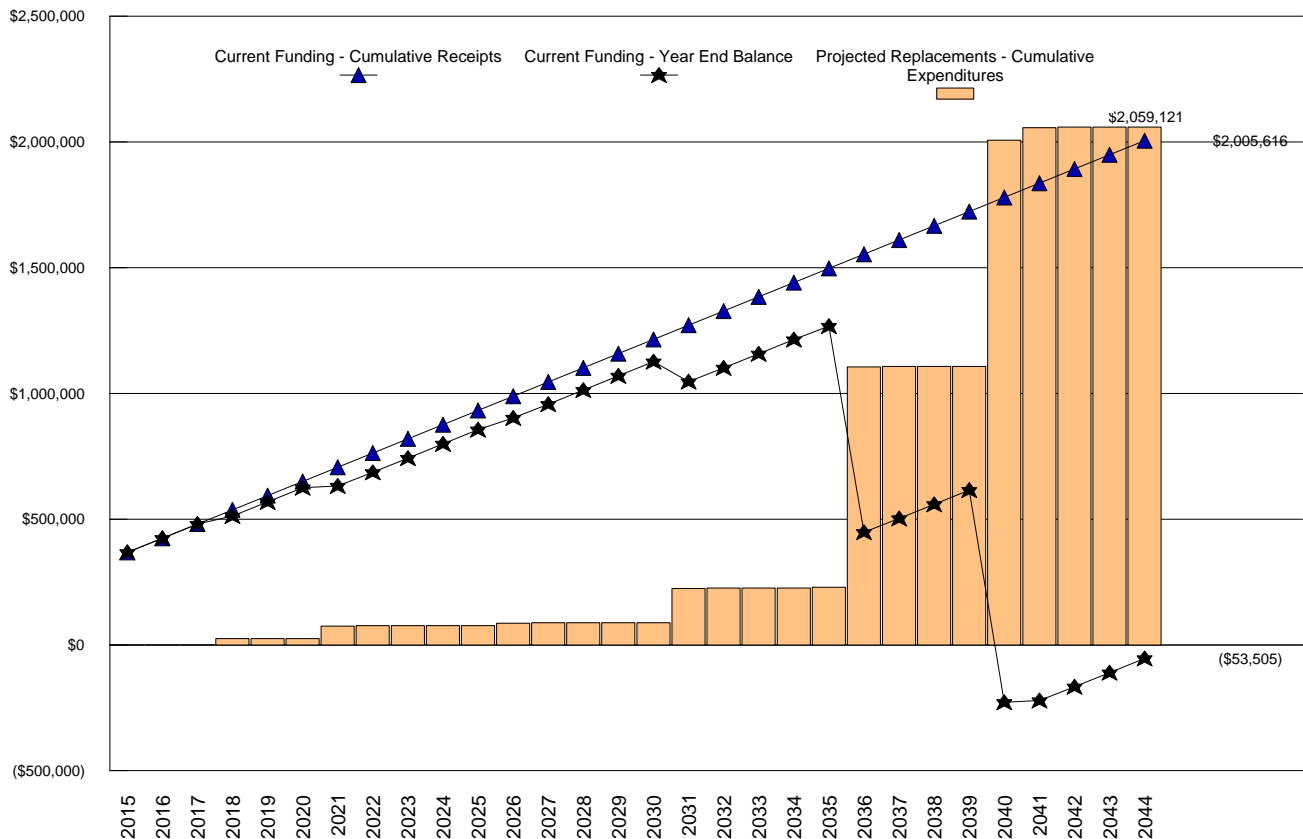
Our evaluation is based upon this Replacement Reserve Funding Level, a \$311,456 Beginning Balance, the Projected Annual Replacement Expenditures shown in Graph #1 and listed in the Replacement Reserve Inventory, and any interest, inflation rate, or constant annual increase in annual contribution adjustments discussed below.

- Evaluation. Our calculations have determined that Current Annual Funding of Replacement Reserves, as reported by the Association, is inadequate to fund Projected Replacement beginning in 2040.

The Current Annual Funding of Replacement Reserves results in insufficient funds to make Projected Replacements in 5 years of the 30-year Study Period, and a maximum shortfall of \$-227,709 occurs in 2040.

- Adjustment to the Current Association Funding for interest and inflation. The Calculations in the Replacement Reserve Analysis do not account for interest earned on Replacement Reserves, the effects of inflation of the cost of Projected Replacements, or a constant annual increase in Annual Funding of Replacement Reserves.
- Comparison of Current Association Funding and Average Annual Expenditure. The average annual expenditure for Projected Replacements listed in the Reserve Inventory over the 30-year Study Period is \$68,637 (see Graph #1). Current Association annual funding of Replacement Reserves is \$56,472, or approximately 82 percent of the Average Annual Expenditure.

**Graph #5. Current Association Funding - Cumulative Receipts and Expenditures Graph**





CURRENT FUNDING (cont'd)

Table #3. Current Funding Data - Years 1 through 30

Year	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Beginning balance	\$311,456									
Annual deposit	\$56,472	\$56,472	\$56,472	\$56,472	\$56,472	\$56,472	\$56,472	\$56,472	\$56,472	\$56,472
Expenditures				\$25,000			\$49,640	\$2,044		
Year end balance	\$367,928	\$424,400	\$480,872	\$512,344	\$568,816	\$625,288	\$632,120	\$686,548	\$743,020	\$799,492
Cumulative Expenditures				\$25,000	\$25,000	\$25,000	\$74,640	\$76,684	\$76,684	\$76,684
Cumulative Receipts	\$367,928	\$424,400	\$480,872	\$537,344	\$593,816	\$650,288	\$706,760	\$763,232	\$819,704	\$876,176
Year	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034
Annual deposit	\$56,472	\$56,472	\$56,472	\$56,472	\$56,472	\$56,472	\$56,472	\$56,472	\$56,472	\$56,472
Expenditures		\$9,782	\$2,044				\$135,800	\$2,044		
Year end balance	\$855,964	\$902,654	\$957,082	\$1,013,554	\$1,070,026	\$1,126,498	\$1,047,170	\$1,101,598	\$1,158,070	\$1,214,542
Cumulative expenditures	\$76,684	\$86,466	\$88,510	\$88,510	\$88,510	\$88,510	\$224,310	\$226,354	\$226,354	\$226,354
Cumulative receipts	\$932,648	\$989,120	\$1,045,592	\$1,102,064	\$1,158,536	\$1,215,008	\$1,271,480	\$1,327,952	\$1,384,424	\$1,440,896
Year	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044
Annual deposit	\$56,472	\$56,472	\$56,472	\$56,472	\$56,472	\$56,472	\$56,472	\$56,472	\$56,472	\$56,472
Expenditures	\$3,039	\$876,000	\$2,044			\$900,000	\$49,640	\$2,044		
Year end balance	\$1,267,975	\$448,447	\$502,875	\$559,347	\$615,819	(\$227,709)	(\$220,877)	(\$166,449)	(\$109,977)	(\$53,505)
Cumulative Expenditures	\$229,393	\$1,105,393	\$1,107,437	\$1,107,437	\$1,107,437	\$2,007,437	\$2,057,077	\$2,059,121	\$2,059,121	\$2,059,121
Cumulative Receipts	\$1,497,368	\$1,553,840	\$1,610,312	\$1,666,784	\$1,723,256	\$1,779,728	\$1,836,200	\$1,892,672	\$1,949,144	\$2,005,616

COMMENTS ON THE REPLACEMENT RESERVE ANALYSIS

- This Replacement Reserve Study has been developed in compliance with the Community Associations Institute, National Reserve Study Standards, for a Level Two - Update (with site visit and on-site review).
- Townhouses of Bayshore has 146 units. The type of property is a condominium association.
- Our calculations assume that Replacement Reserves are not subject to tax.

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## REPLACEMENT RESERVE INVENTORY GENERAL INFORMATION

Townhouses of Bayshore - Replacement Reserve Inventory identifies 46 items. Two types of items are identified, Projected Replacements and Excluded Items:

- **PROJECTED REPLACEMENTS.** 10 of the items are Projected Replacements and the periodic replacements of these items are scheduled for funding from Replacement Reserves. The Projected Replacements have an estimated one-time replacement cost of \$2,002,092. Replacements totaling \$2,059,121 are scheduled in the Replacement Reserve Inventory over the 30-year Study Period.

Projected Replacements are the replacement of commonly owned physical assets that require periodic replacement and whose replacement is to be funded from Replacement Reserves.

- **EXCLUDED ITEMS.** 36 of the items are Excluded Items, and expenditures for these items are NOT scheduled for funding from Replacement Reserves. The accuracy of the calculations made in the Replacement Reserve Analysis is dependent on expenditures NOT being made for Excluded Items. The Excluded Items are listed in the Replacement Reserve Inventory to identify specific items and categories of items that are not to be funded from Replacement Reserves. There are multiple categories of items that are typically excluded from funding by Replacement Reserves, including but not limited to:

**Tax Code.** The United States Tax Code grants very favorable tax status to Replacement Reserves, conditioned on expenditures being made within certain guidelines. These guidelines typically exclude maintenance activities, minor repairs and capital improvements.

**Value.** Items with a replacement cost of less than \$1,000 and/or a normal economic life of less than 3 years are typically excluded from funding from Replacement Reserves. This exclusion is made to accurately reflect how Replacement Reserves are administered. If the Association has selected an alternative level, it will be noted in the Replacement Reserve Inventory - General Comments on Page B2.

**Long-lived Items.** Items that when properly maintained, can be assumed to have a life equal to the property as a whole, are typically excluded from the Replacement Reserve Inventory.

**Unit improvements.** Items located on property owned by a single unit and where the items serve a single unit are generally assumed to be the responsibility of that unit, not the Association.

**Other non-common improvements.** Items owned by the local government, public and private utility companies, the United States Postal Service, Master Associations, state and local highway authorities, etc., may be installed on property that is owned by the Association. These types of items are generally not the responsibility of the Association and are excluded from the Replacement Reserve Inventory.

The rationale for the exclusion of an item from funding by Replacement Reserves is discussed in more detail in the 'Comments' sections of the Section B - Replacement Reserve Inventory.

- **CATEGORIES.** The 46 items included in the Townhouses of Bayshore Replacement Reserve Inventory are divided into 9 major categories. Each category is printed on a separate page, Pages B3 to B10.
- **LEVEL OF SERVICE.** This Replacement Reserve Inventory has been developed in compliance with the standards established for a Level Two - Update (with site visit and on-site review), as defined by the National Reserve Study Standards, established in 1998 by Community Associations Institute, which states:

*Level II Studies are based entirely on the component inventory from a prior study. This information is adjusted to reflect changes to the inventory that are provided by the Association, and the quantities are adjusted accordingly from field measurement and/or quantity takeoffs from to-scale drawings that are made available to us. The condition of all components is ascertained from a site visit and the visual inspection of each component by the analyst. The Remaining Economic Life and replacement cost of components are provided based in part on these observations. The fund status and Funding Plan are derived from analysis of this data.*

## REPLACEMENT RESERVE INVENTORY - GENERAL INFORMATION (cont'd)

- **INVENTORY DATA.** Each of the 10 Projected Replacements listed in the Replacement Reserve Inventory includes the following data:

**Item Number.** The Item Number is assigned sequentially and is intended for identification purposes only.

**Item Description.** We have named each item included in the Inventory. Where the name of the item and the category are not sufficient to specifically identify the item, we have included additional information in the Comments section at the bottom of the page.

**Units.** We have used standard abbreviations to identify the number of units including SF-square feet, LF-lineal feet, SY-square yard, LS-lump sum, EA-each, and PR-pair. Nonstandard abbreviations are noted in the Comments section on the page on which the abbreviation is used.

**Number of Units.** The methods used to develop the quantities are discussed in "Level of Service" above.

**Unit Replacement Cost.** We use three sources to develop the unit cost data shown in the Inventory; actual replacement cost data provided by the client, industry standard estimating manuals, and a cost database that we have developed based upon our detailed interviews with contractors and service providers who are specialists in their respective lines of work. In addition, trends in the Producers Price Index (PPI), labor rates, and transportation costs are monitored and considered. This cost database is reviewed and updated regularly by Miller Dodson and biannually by an independent professional cost estimating firm.

**Normal Economic Life (Yrs).** The number of years that a new and properly installed item should be expected to remain in service.

**Remaining Economic Life (Yrs).** The estimated number of years before an item will need to be replaced. In "normal" conditions, this could be calculated by subtracting the age of the item from the Normal Economic Life of the item, but only rarely do physical assets age "normally". Some items may have longer or shorter lives depending on many factors such as environment, initial quality of the item, maintenance, etc.

**Total Replacement Cost.** This is calculated by multiplying the Unit Replacement Cost by the Number of Units.

Each of the 36 Excluded Items includes the Item Description, Units, and Number of Units. Many of the Excluded Items are listed as a 'Lump Sum' with a quantity of 1. For the Excluded Items, this indicates that all of the items identified by the 'Item Description' are excluded from funding by Replacement Reserves.

- **REVIEW OF EXPENDITURES.** This Replacement Reserve Study should be reviewed by an accounting professional representing the Association prior to implementation.
- **PARTIAL FUNDING.** Items may have been included in the Replacement Reserve Inventory at less than 100 percent of their full quantity and/or replacement cost. This is done on items that will never be replaced in their entirety, but which may require periodic replacements over an extended period of time. The assumptions that provide the basis for any partial funding are noted on in the Comments section.
- **REMAINING ECONOMIC LIFE GREATER THAN 40 YEARS.** The calculations do not include funding for initial replacements beyond 40 years. These replacements are included in this Study for tracking and evaluation. They should be included for funding in future Studies, when they enter the 40-year window.

**GENERAL SITE IMPROVEMENTS**

**PROJECTED REPLACEMENTS**

ITEM #	ITEM DESCRIPTION	UNIT	NUMBER OF UNITS	UNIT REPLACEMENT COST (\$)	NORMAL ECONOMIC LIFE (YRS)	REMAINING ECONOMIC LIFE (YRS)	REPLACEMENT COST (\$)
1	Pedestal mount mail boxes (aluminum)	ea	146	\$67.00	20	11	\$9,782
2	Segmental retaining wall (10%)	sf	63	\$12.50	50	35	\$788

GENERAL SITE IMPROVEMENTS - Replacement Costs - Subtotal \$10,570

**GENERAL SITE IMPROVEMENTS**

**COMMENTS**

Empty area for comments.

**TOWNHOUSE EXTERIORS**  
**PROJECTED REPLACEMENTS**

ITEM #	ITEM DESCRIPTION	UNIT	NUMBER OF UNITS	UNIT REPLACEMENT COST (\$)	NORMAL ECONOMIC LIFE (YRS)	REMAINING ECONOMIC LIFE (YRS)	REPLACEMENT COST (\$)
3	Asphalt shingle roof	sf	253,100	\$3.46	25	21	\$876,000
4	Metal roof	sf	5,100	\$8.00	40	16	\$40,800
5	Gutter & downspout	ft	14,400	\$6.60	25	16	\$95,000
6	Vinyl siding and trim	sf	128,700	\$6.99	35	25	\$900,000
7	Brick tuckpointing (10%)	sf	1,105	\$2.75	10	20	\$3,039
8	Asphalt driveway pavement	sf	29,200	\$1.70	20	6	\$49,640
9	Asphalt driveway pavement (sealcoat)	sf	29,200	\$0.07	5	7	\$2,044
10	Grading	ls	1	\$25,000.00	100	3	\$25,000

TOWNHOUSE EXTERIORS - Replacement Costs - Subtotal \$1,991,523

**TOWNHOUSE EXTERIORS**  
**COMMENTS**

- The building's primary structural components appear to be in good condition. The performance of the foundation was assessed by examining the exterior perimeter of the building and visible portions of the foundation for signs of differential settlement. No significant misalignment of exterior walls or window/door frames indicating significant differential settlement was observed. Concrete foundations have a very long life expectancy and are not typically included in Reserve Studies.
- 11/21/14. Changed cost of downspouts and gutters and vinyl siding.

**LONG-LIFE EXCLUSIONS**

**EXCLUDED ITEMS**

ITEM #	ITEM DESCRIPTION	UNIT	NUMBER OF UNITS	UNIT REPLACEMENT COST (\$)	NORMAL ECONOMIC LIFE (YRS)	REMAINING ECONOMIC LIFE (YRS)	REPLACEMENT COST (\$)
	Building foundation(s)	ls	1				EXCLUDED
	Concrete floor slabs (interior)	ls	1				EXCLUDED
	Wall, floor, & roof structure	ls	1				EXCLUDED

**LONG-LIFE EXCLUSIONS**

**COMMENTS**

- Long Life Exclusions. Components that when properly maintained, can be assumed to have a life equal to the property as a whole, are normally excluded from the Replacement Reserve Inventory. Examples of items excluded from funding by Replacement Reserves by this standard are listed above.
- Exterior masonry is generally assumed to have an unlimited economic life but periodic repointing is required and we have included this for funding in the Replacement Reserve Inventory.
- The list above exemplifies exclusions by the cited standard(s) and is not intended to be comprehensive.

**UNIT IMPROVEMENTS EXCLUSIONS**

**EXCLUDED ITEMS**

ITEM #	ITEM DESCRIPTION	UNIT	NUMBER OF UNITS	UNIT REPLACEMENT COST (\$)	NORMAL ECONOMIC LIFE (YRS)	REMAINING ECONOMIC LIFE (YRS)	REPLACEMENT COST (\$)
	Domestic water pipes serving one unit	ls	1				EXCLUDED
	Sanitary sewers serving one unit	ls	1				EXCLUDED
	Electrical wiring serving one unit	ls	1				EXCLUDED
	Cable TV service serving one unit	ls	1				EXCLUDED
	Telephone service serving one unit	ls	1				EXCLUDED
	Gas service serving one unit	ls	1				EXCLUDED
	Fence on an individual lot	ls	1				EXCLUDED
	Unit interior	ls	1				EXCLUDED
	Unit doors	ls	1				EXCLUDED
	Unit windows	ls	1				EXCLUDED

**UNIT IMPROVEMENTS EXCLUSIONS**

**COMMENTS**

- Unit improvement Exclusions. We understand that the elements of the project that relate to a single unit are the responsibility of that unit owner. Examples of items excluded from funding by Replacement Reserves by this standard are listed above.
- The list above exemplifies exclusions by the cited standard(s) and is not intended to be comprehensive.



**UTILITY EXCLUSIONS**

**EXCLUDED ITEMS**

ITEM #	ITEM DESCRIPTION	UNIT	NUMBER OF UNITS	UNIT REPLACEMENT COST (\$)	NORMAL ECONOMIC LIFE (YRS)	REMAINING ECONOMIC LIFE (YRS)	REPLACEMENT COST (\$)
	Primary electric feeds	ls	1				EXCLUDED
	Electric transformers	ls	1				EXCLUDED
	Cable TV systems and structures	ls	1				EXCLUDED
	Telephone cables and structures	ls	1				EXCLUDED
	Gas mains and meters	ls	1				EXCLUDED
	Water mains and meters	ls	1				EXCLUDED
	Sanitary sewers	ls	1				EXCLUDED
	Sewage pumping stations	ls	1				EXCLUDED

**UTILITY EXCLUSIONS**

**COMMENTS**

- Utility Exclusions. Many improvements owned by utility companies are on property owned by the Association. We have assumed that repair, maintenance, and replacements of these components will be done at the expense of the appropriate utility company. Examples of items excluded from funding Replacement Reserves by this standard are listed above.
  
- The list above exemplifies exclusions by the cited standard(s) and is not intended to be comprehensive.

**MAINTENANCE AND REPAIR EXCLUSIONS**

**EXCLUDED ITEMS**

ITEM #	ITEM DESCRIPTION	UNIT	NUMBER OF UNITS	UNIT REPLACEMENT COST (\$)	NORMAL ECONOMIC LIFE (YRS)	REMAINING ECONOMIC LIFE (YRS)	REPLACEMENT COST (\$)
	Exterior painting	ls	1				EXCLUDED
	Interior painting	ls	1				EXCLUDED
	Janitorial service	ls	1				EXCLUDED
	Repair services	ls	1				EXCLUDED
	Partial replacements	ls	1				EXCLUDED
	Capital improvements	ls	1				EXCLUDED

**MAINTENANCE AND REPAIR EXCLUSIONS**

**COMMENTS**

- Maintenance activities, one-time-only repairs, and capital improvements. These activities are NOT appropriately funded from Replacement Reserves. The inclusion of such component in the Replacement Reserve Inventory could jeopardize the special tax status of ALL Replacement Reserves, exposing the Association to significant tax liabilities. We recommend that the Board of Directors discuss these exclusions and Revenue Ruling 75-370 with a Certified Public Accountant.
- Examples of items excluded from funding by Replacement Reserves by this standard are listed above.
- The list above exemplifies exclusions by the cited standard(s) and is not intended to be comprehensive.

**GOVERNMENT EXCLUSIONS**

**EXCLUDED ITEMS**

ITEM #	ITEM DESCRIPTION	UNIT	NUMBER OF UNITS	UNIT REPLACEMENT COST (\$)	NORMAL ECONOMIC LIFE (YRS)	REMAINING ECONOMIC LIFE (YRS)	REPLACEMENT COST (\$)
	Government, roadways & parking	ls	1				EXCLUDED
	Government, sidewalks & curbs	ls	1				EXCLUDED
	Government, lighting	ls	1				EXCLUDED
	Government, stormwater mgmt.	ls	1				EXCLUDED
	Government, ponds	ls	1				EXCLUDED
	Government, mailboxes	ls	1				EXCLUDED

**GOVERNMENT EXCLUSIONS**

**COMMENTS**

- Government Exclusions. We have assumed that some of the improvements installed on property owned by the Association will be maintained by the state, county, or local government, or other association or other responsible entity. Examples of items excluded from funding by Replacement Reserves by this standard are listed above.
- The list above exemplifies exclusions by the cited standard(s) and is not intended to be comprehensive.

**IRRIGATION SYSTEM EXCLUSIONS**

**EXCLUDED ITEMS**

ITEM #	ITEM DESCRIPTION	UNIT	NUMBER OF UNITS	UNIT REPLACEMENT COST (\$)	NORMAL ECONOMIC LIFE (YRS)	REMAINING ECONOMIC LIFE (YRS)	REPLACEMENT COST (\$)
	Subsurface irrigation pipe	ls	1				EXCLUDED
	Subsurface irrigation valve	ls	1				EXCLUDED
	Subsurface irrigation control wiring	ls	1				EXCLUDED

**IRRIGATION SYSTEM EXCLUSIONS**

**COMMENTS**

- Irrigation System Exclusions. We have not included funding for the maintenance, repair, and periodic replacement of the components of the irrigation systems. These systems should be inspected each spring when the systems are brought on line and each fall when they are winterized. Repairs/replacements should be made in conjunction with these inspections. However, we have provided an allowance for the replacement of the control system, electrical service and system enclosures.

## PROJECTED ANNUAL REPLACEMENTS GENERAL INFORMATION

CALENDAR OF ANNUAL REPLACEMENTS. The 10 Projected Replacements in the Townhouses of Bayshore Replacement Reserve Inventory whose replacement is scheduled to be funded from Replacement Reserves are broken down on a year-by-year basis, beginning on Page C2.

### REPLACEMENT RESERVE ANALYSIS AND INVENTORY POLICIES, PROCEDURES, AND ADMINISTRATION

- **REVISIONS.** Revisions will be made to the Replacement Reserve Analysis and Replacement Reserve Inventory in accordance with the written instructions of the Board of Directors. No additional charge is incurred for the first revision, if requested in writing within three months of the date of the Replacement Reserve Study. It is our policy to provide revisions in electronic (Adobe PDF) format only.
- **TAX CODE.** The United States Tax Code grants favorable tax status to a common interest development (CID) meeting certain guidelines for their Replacement Reserve. If a CID files their taxes as a 'Corporation' on Form 1120 (IRC Section 277), these guidelines typically require maintenance activities, partial replacements, minor replacements, capital improvements, and one-time only replacements to be excluded from Reserves. A CID cannot commingle planning for maintenance activities with capital replacement activities in the Reserves (Revenue Ruling 75-370). Funds for maintenance activities and capital replacements activities must be held in separate accounts. If a CID files taxes as an "Exempt Homeowners Association" using Form 1120H (IRC Section 528), the CID does not have to segregate these activities. However, because the CID may elect to change their method of filing from year to year within the Study Period, we advise using the more restrictive approach. We further recommend that the CID consult with their Accountant and consider creating separate and independent accounts and reserves for large maintenance items, such as painting.
- **CONFLICT OF INTEREST.** Neither Miller - Dodson Associates nor the Reserve Analyst has any prior or existing relationship with this Association which would represent a real or perceived conflict of interest.
- **RELIANCE ON DATA PROVIDED BY THE CLIENT.** Information provided by an official representative of the Association regarding financial, physical conditions, quality, or historical issues is deemed reliable.
- **INTENT.** This Replacement Reserve Study is a reflection of the information provided by the Association and the visual evaluations of the Analyst. It has been prepared for the sole use of the Association and is not for the purpose of performing an audit, quality/forensic analyses, or background checks of historical records.
- **PREVIOUS REPLACEMENTS.** Information provided to Miller - Dodson Associates regarding prior replacements is considered to be accurate and reliable. Our visual evaluation is not a project audit or quality inspection.
- **UPDATING.** In the first two or possibly three years after the completion of a Level One Replacement Reserve Study, we recommend the Association review and revise the Replacement Reserve Analysis and Inventory annually to take into account replacements which have occurred and known changes in replacement costs. This can frequently be handled as a Level Two or Level Three Study (as defined by the Community Associations Institute), unless the Association has completed major replacement projects. A full analysis (Level One) based on a comprehensive visual evaluation of the site should be accomplished every three to five years or after each major replacement project.
- **EXPERIENCE WITH FUTURE REPLACEMENTS.** The Calendar of Annual Projected Replacements, lists replacements we have projected to occur over the next thirty years, begins on Page C2. Actual experience in replacing the items may differ significantly from the cost estimates and time frames shown because of conditions beyond our control. These differences may be caused by maintenance practices, inflation, variations in pricing and market conditions, future technological developments, regulatory actions, acts of God, and luck. Some items may function normally during our visual evaluation and then fail without notice.
- **REVIEW OF THE REPLACEMENT RESERVE STUDY.** For this study to be effective, it should be reviewed by the Townhouses of Bayshore Board of Directors, those responsible for the management of the items included in the Replacement Reserve Inventory, and the accounting professionals employed by the Association.

**PROJECTED REPLACEMENTS - YEARS ONE TO FIFTEEN**

Item	2015	\$
No Scheduled Replacements		

Item	2016	\$
No Scheduled Replacements		

Item	2017	\$
No Scheduled Replacements		

Item	2018	\$
10 Grading		\$25,000
Total Scheduled Replacements		\$25,000

Item	2019	\$
No Scheduled Replacements		

Item	2020	\$
No Scheduled Replacements		

Item	2021	\$
8 Asphalt driveway pavement		\$49,640
Total Scheduled Replacements		\$49,640

Item	2022	\$
9 Asphalt driveway pavement		\$2,044
Total Scheduled Replacements		\$2,044

Item	2023	\$
No Scheduled Replacements		

Item	2024	\$
No Scheduled Replacements		

Item	2025	\$
No Scheduled Replacements		

Item	2026	\$
1 Pedestal mount mail boxes (		\$9,782
Total Scheduled Replacements		\$9,782

Item	2027	\$
9 Asphalt driveway pavement		\$2,044
Total Scheduled Replacements		\$2,044

Item	2028	\$
No Scheduled Replacements		

Item	2029	\$
No Scheduled Replacements		

**PROJECTED REPLACEMENTS - YEARS SIXTEEN TO THIRTY**

Item	2030	\$
No Scheduled Replacements		

Item	2031	\$
4	Metal roof	\$40,800
5	Gutter & downspout	\$95,000
Total Scheduled Replacements		\$135,800

Item	2032	\$
9	Asphalt driveway pavement	\$2,044
Total Scheduled Replacements		\$2,044

Item	2033	\$
No Scheduled Replacements		

Item	2034	\$
No Scheduled Replacements		

Item	2035	\$
7	Brick tuckpointing (10%)	\$3,039
Total Scheduled Replacements		\$3,039

Item	2036	\$
3	Asphalt shingle roof	\$876,000
Total Scheduled Replacements		\$876,000

Item	2037	\$
9	Asphalt driveway pavement	\$2,044
Total Scheduled Replacements		\$2,044

Item	2038	\$
No Scheduled Replacements		

Item	2039	\$
No Scheduled Replacements		

Item	2040	\$
6	Vinyl siding and trim	\$900,000
Total Scheduled Replacements		\$900,000

Item	2041	\$
8	Asphalt driveway pavement	\$49,640
Total Scheduled Replacements		\$49,640

Item	2042	\$
9	Asphalt driveway pavement	\$2,044
Total Scheduled Replacements		\$2,044

Item	2043	\$
No Scheduled Replacements		

Item	2044	\$
No Scheduled Replacements		

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## CONDITION ASSESSMENT

**General Comments.** Miller - Dodson Associates conducted a Reserve Study at Townhouses of Bayshore in November 2014. Townhouses of Bayshore is in generally good condition for a condominium constructed in 2005. A review of the Replacement Reserve Inventory will show that we are anticipating most of the components achieving their normal economic lives.

The following comments pertain to the larger, more significant components in the Replacement Reserve Inventory and to those items that are unique or deserving of attention because of their condition or the manner in which they have been treated in the Replacement Reserve Analysis or Inventory.

### General Condition Statements.

**Excellent.** 100% to 90% of Normal Economic Life expected, with no appreciable wear or defects.

**Good.** 90% to 60% of Normal Economic Life expected, minor wear or cosmetic defects found. Normal maintenance should be expected. If performed properly, normal maintenance may increase the useful life of a component. Otherwise, the component is wearing normally.

**Fair.** 60% to 30% of Normal Economic Life expected, moderate wear with defects found. Repair actions should be taken to extend the life of the component or to correct repairable defects and distress. Otherwise, the component is wearing normally.

**Marginal.** 30% to 10% of Normal Economic Life expected, with moderate to significant wear or distress found. Repair actions are expected to be cost effective for localized issues, but normal wear and use are evident. The component is reaching the end of the Normal Economic Life.

**Poor.** 10% to 0% of Normal Economic Life expected, with significant distress and wear. Left unattended, additional damage to underlying structures is likely to occur. Further maintenance is unlikely to be cost effective.

## SITE COMPONENTS

**Asphalt Pavement.** The Association is responsible for the driveways. In general, the Association's asphalt pavements of the main roadways are in fair condition, with minor cracking. The major issue is the connection between the driveways and the roadways. These driveways are scheduled to be replaced with the roadways to allow for a proper transition between the two.

As a rule of thumb, asphalt should be overlaid when approximately 5% of the surface area is cracked or otherwise deteriorated. The normal service life of asphalt pavement is typically 18 to 20 years.



Typical driveway

In order to maintain the condition of the pavement throughout the community and to ensure the longest life of the asphalt, we recommend a systematic and comprehensive maintenance program that includes:

- **Cleaning.** Long-term exposure to oil or gas breaks down asphalt. Because this asphalt pavement is generally not used for long-term parking, it is unlikely that frequent cleaning will be necessary. When necessary, spill areas should be cleaned or patched if deterioration has penetrated the asphalt. This is a maintenance activity, and we have assumed that it will not be funded from Reserves.

- **Crack Repair.** All cracks should be repaired with an appropriate compound to prevent water infiltration through the asphalt into the base. This repair should be done annually. Crack repair is normally considered a maintenance activity and is not funded from Reserves. Areas of extensive cracking or deterioration that cannot be made watertight should be cut out and patched.
- **Seal Coating.** The asphalt should be seal coated every five to seven years. For this maintenance, activity to be effective in extending the life of the asphalt, cleaning and crack repair should be performed first.

For seal coating, several different products are available. The older, more traditional seal coating products are simply paints. They coat the surface of the asphalt and they are minimally effective. However, the newer coating materials, such as those from Total Asphalt Management, Asphalt Restoration Technologies, Inc., and others, are penetrating. They are engineered, so to speak, to 'remoisturize' the pavement. Asphalt pavement is intended to be flexible. Over time, the volatile chemicals in the pavement dry, the pavement becomes brittle, and degradation follows in the forms of cracking and potholes. Remoisturizing the pavement can return its flexibility and extend the life of the pavement.

Lastly, the resource links provided on our website may provide insight into the general terms and concerns, including maintenance related advantages and disadvantages, which may help the Association better manage the asphalt pavements throughout the community: <http://mdareserves.com/resources/links/site-components>.

**Retaining Walls.** The Association maintains segmental block retaining walls. The retaining walls are in good condition.

Retaining walls in general are designed to provide slope stabilization and soil retention by means of a structural system. Typically, walls that are three feet high or more require some level of design.

Movement and displacement of any retaining wall is a sign of general settlement or failure. This typically is in the form of leaning and bowing, and can involve the entire wall or localized sections of the wall. Typically, these types of movements are gradual and may require the replacement of the wall. Movement of retaining walls located near other buildings or structures may negatively affect the stability of the adjacent structure. These conditions can become extremely costly if not properly identified, monitored, and addressed.

Segmental block retaining walls can have an extended useful life, and if stable, are likely to only require localized resetting of displaced blocks, typically near the top of the wall. This study assumes that resetting will be performed incrementally as needed.

When and if it becomes necessary to replace these walls, we recommend the Association consider one of the segmental block retaining wall systems. These systems are very low maintenance. If over time the wall experiences movement, sections of the walls can be re-stacked at a very small portion of the cost of a new wall. Segmental block retaining walls can have a service life of 80 years or more. As a general source of information about retaining walls, we offer several links from our website at <http://mdareserves.com/resources/links/site-components>.

Retaining wall replacement can be costly, and early planning on the part of the Association can help to reduce the impact of this work on the community's budget in the future. We therefore recommend having a Professional Engineer inspect the walls and develop preliminary replacement alternatives and recommendations based on the site conditions, replacement costs, and recommended replacement wall types. This information can then be incorporated into future updates to the Reserve Study.

**Mailboxes.** The cluster mailboxes located throughout the community are in good condition. Mailboxes should be maintained to the extent that rust does not develop on the structure or pedestal. All mail slot doors remain intact and hinges and locks remain operable. Our replacement estimate assumes that these units will be replaced with fiberglass or composite units.



Mailbox cluster

## BUILDING EXTERIORS

**Building Roofing.** The townhouses are roofed in asphalt shingles, and standing seam metal roofs system that is are in generally good condition.



Front of townhouse unit



Rear of townhouse unit

Asphalt shingle roofs can have a useful life of 20 to 50 years depending on the weight and quality of the shingle. Weathered, curled, and missing shingles are all indications that the shingles may be nearing the end of their useful life.

Metal roofing can be standing seam, rolled seam, or shingle with a normal economic life of 50 to 100 years. In some cases, recoating or repainting can extend the useful life of a metal roof.

Annual inspections are recommended, with cleaning, repair, and mitigation of vegetation performed as needed. Access, inspection, and repair work should be performed by contractors and personnel with the appropriate access equipment who are experienced in the types of roofing used for the facility.

For additional information on roofs and roof maintenance, please see the appropriate links on our web site at <http://mdareserves.com/resources/links/building-exterior>.

**Gutters and Downspouts.** The buildings have aluminum gutters and downspouts. The gutters and downspouts are in good condition.

A gutter and downspout system will remove rainwater from the area of the building roof, siding, and foundation. This will protect building's exterior surfaces from water damage. Gutters should run the full length of all drip edges of the building roof. Even with full gutters, it is important to inspect the function of the gutters during heavy rain to identify any deficiencies. It may be necessary to periodically adjust the slope of sections, repair connections, replace hangers, and install shrouds to the gutters. Downspouts should be securely attached to the side of the structure. Any broken straps should be replaced. The area of the outlet should be inspected to

promote run-off in the desired direction. Long straight runs should have an elbow at the bottom. Splash blocks should be installed to fray the water out-letting from the downspout.

It is recommended that all gutters be cleaned at least twice each year. If there are a large number of trees located close to a building, consider installing a gutter debris shield that will let water into the gutters but will filter out leaves, twigs, and other debris.

**Siding and Trim.** The exterior(s) of the townhouses are clad in vinyl siding, trim and brick. The siding, brick, and trim materials are in generally good condition.

Vinyl siding and trim can have an extended useful life if not damaged by impact, heat, or other physical reasons. However, the coatings and finishes typically have a useful life and over time begin to weather, chalk, and show their age. For these reasons, we have modeled for the replacement of the siding and trim every 25 years.

Brick masonry is used as the main exterior cladding of the building. As masonry weathers, the mortar joints will become damaged by water penetration. As additional water gains access to the joints, repeated freeze-thaw cycles gradually increase the damage to the mortar joints. If allowed to progress, even the masonry units such as brick, block, and stone can have their surfaces affected and masonry units can become loose.

In general, masonry is considered a long-life item and is therefore excluded from reserve funding. However, because weather and other conditions result in the slow deterioration of the mortar in masonry joints, we have included funding in this study for repointing. Repointing is the process of raking and cutting out damaged sections of mortar and replacing them with new mortar.

Periodic repointing and local replacement of damaged masonry units will limit the damage done by moisture penetration. For this study, we assume that 10% of the masonry will require repointing every 10 years after approximately 30 years. For additional information about masonry and repointing, please view the relevant links at <http://mdareserves.com/resources/links/building-exterior>.

**Windows and Doors.** For Associations where the unit owner is responsible for the replacement of their own windows and exterior doors, we recommend for the Association consider offering the unit owners an option to have their replacements performed in conjunction with the Association's work. This can be performed either by separate agreement between the unit owner and the Association's selected contractor or by back charging the unit owner.

Window and door units play an integral part in a facility's overall comfort, efficiency, and energy use. The quality of the installed units and the care taken in their installation and maintenance are major factors in their effectiveness and useful life. These units can have a useful life of 20 to 35 years or more depending on their use and other factors mentioned above.

In general, we recommend coordinating the replacement of these units with other exterior work, such as siding and roof replacements. The weather tightness of the building envelope often requires transitional flashing and caulking that should be performed in coordination with each other. Warranties and advantages in 'economy of scale' can often result in lower overall replacement costs and results that are more reliable. Lastly, coordinated replacements offer the opportunity to correct initial construction defects and improve the effectiveness of details with improved construction techniques and materials.

For more information, please see our links at <http://mdareserves.com/resources/links/building-exterior>.

**Vinyl Window Shutters.** The Association maintains the window shutters on the units. Although there are several different sizes of window shutters, we have used an average price for their replacement.

Vinyl window shutters have a service life of 15 to 20 years. Their actual life depends on a number of factors, including the quality of the shutter, how well it was installed, and its exposure to sunlight and wind.

This Condition Assessment is based upon our visual survey of the property. The sole purpose of the visual survey was an evaluation of the common elements of the property to ascertain the remaining useful life and the replacement costs of these common elements. Our evaluation assumed that all components met building code requirements in force at the time of construction. Our visual survey was conducted with care by experienced persons, but no warranty or guarantee is expressed or implied.

End of Condition Assessment

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## CASH FLOW METHOD ACCOUNTING SUMMARY

This Townhouses of Bayshore - Cash Flow Method Accounting Summary is an attachment to the Townhouses of Bayshore - Replacement Reserve Study dated Revised November 21, 2014 and is for use by accounting and reserve professionals experienced in Association funding and accounting principles. This Summary consists of four reports, the 2015, 2016, and 2017 Cash Flow Method Category Funding Reports (3) and a Three-Year Replacement Funding Report.

- CASH FLOW METHOD CATEGORY FUNDING REPORT, 2015, 2016, and 2017. Each of the 10 Projected Replacements listed in the Townhouses of Bayshore Replacement Reserve Inventory has been assigned to one of 2 categories. The following information is summarized by category in each report:
  - Normal Economic Life and Remaining Economic Life of the Projected Replacements.
  - Cost of all Scheduled Replacements in each category.
  - Replacement Reserves on Deposit allocated to the category at the beginning and end of the report period.
  - Cost of Projected Replacements in the report period.
  - Recommended Replacement Reserve Funding allocated to the category during the report period as calculated by the Cash Flow Method.
- THREE-YEAR REPLACEMENT FUNDING REPORT. This report details the allocation of the \$311,456 Beginning Balance (at the start of the Study Year) and the \$207,241 of additional Replacement Reserve Funding in 2015 through 2017 (as calculated in the Replacement Reserve Analysis) to each of the 10 Projected Replacements listed in the Replacement Reserve Inventory. These allocations have been made using Chronological Allocation, a method developed by Miller Dodson Associates, Inc., and discussed below. The calculated data includes:
  - Identification and estimated cost of each Projected Replacement schedule in years 2015 through 2017.
  - Allocation of the \$311,456 Beginning Balance to the Projected Replacements by Chronological Allocation.
  - Allocation of the \$207,241 of additional Replacement Reserve Funding recommended in the Replacement Reserve Analysis in years 2015 through 2017, by Chronological Allocation.
- CHRONOLOGICAL ALLOCATION. Chronological Allocation assigns Replacement Reserves to Projected Replacements on a "first come, first serve" basis in keeping with the basic philosophy of the Cash Flow Method. The Chronological Allocation methodology is outlined below.
  - The first step is the allocation of the \$311,456 Beginning Balance to the Projected Replacements in the Study Year. Remaining unallocated funds are next allocated to the Projected Replacements in subsequent years in chronological order until the total of Projected Replacements in the next year is greater than the unallocated funds. Projected Replacements in this year are partially funded with each replacement receiving percentage funding. The percentage of funding is calculated by dividing the unallocated funds by the total of Projected Replacements in the partially funded year.

At Townhouses of Bayshore the Beginning Balance funds all Scheduled Replacements in the Study Year through 2035 and provides partial funding (9%) of replacements scheduled in 2036.
  - The next step is the allocation of the \$69,080 of 2015 Cash Flow Method Reserve Funding calculated in the Replacement Reserve Analysis. These funds are first allocated to fund the partially funded Projected Replacements and then to subsequent years in chronological order as outlined above.

At Townhouses of Bayshore the Beginning Balance and the 2015 Replacement Reserve Funding, funds replacements through 2035 and partial funds (17.3%) replacements in 2036.
  - Allocations of the 2016 and 2017 Reserve Funding are done using the same methodology.
  - The Three-Year Replacement Funding Report details component by component allocations made by Chronological Allocation.

### 2015 - CASH FLOW METHOD CATEGORY FUNDING REPORT

Each of the 10 Projected Replacements included in the Townhouses of Bayshore Replacement Reserve Inventory has been assigned to one of the 2 categories listed in TABLE CF-1 below. This calculated data is a summary of data provided in the Three-Year Replacement Funding Report and Replacement Reserve Inventory. The accuracy of this data is dependent upon many factors including the following critical financial data:

- A Beginning Balance of \$311,456 as of the first day of the Study Year, January 1, 2015.
- Total reserve funding (including the Beginning Balance) of \$380,536 in the Study Year.
- No expenditures from Replacement Reserves other than those specifically listed in the Replacement Reserve Inventory.

If any of these critical factors are inaccurate, do not use the data and please contact Miller Dodson Associates to arrange for an update of the Replacement Reserve Study.

2015 - CASH FLOW METHOD CATEGORY FUNDING - TABLE CF-1								
CATEGORY	NORMAL ECONOMIC LIFE	REMAINING ECONOMIC LIFE	ESTIMATED REPLACEMENT COST	2015 BEGINNING BALANCE	2015 RESERVE FUNDING	2015 PROJECTED REPLACEMENTS	2015 END OF YEAR BALANCE	
GENERAL SITE IMPROVEMENTS	20 to 50 years	11 to 35 years	\$10,570	\$9,782			\$9,782	
TOWNHOUSE EXTERIORS	5 to 100 years	3 to 25 years	\$1,991,523	\$301,674	\$69,080		\$370,754	



### 2016 - CASH FLOW METHOD CATEGORY FUNDING REPORT

Each of the 10 Projected Replacements included in the Townhouses of Bayshore Replacement Reserve Inventory has been assigned to one of the 2 categories listed in TABLE CF-2 below. This calculated data is a summary of data provided in the Three-Year Replacement Funding Report and Replacement Reserve Inventory. The accuracy of this data is dependent upon many factors including the following critical financial data:

- Replacement Reserves on Deposit totaling \$380,536 on January 1, 2016.
- Total reserve funding (including the Beginning Balance) of \$449,616 in 2015 through 2016.
- No expenditures from Replacement Reserves other than those specifically listed in the Replacement Reserve Inventory.

If any of these critical factors are inaccurate, do not use the data and please contact Miller Dodson Associates to arrange for an update of the Replacement Reserve Study.

2016 - CASH FLOW METHOD CATEGORY FUNDING - TABLE CF-2								
CATEGORY	NORMAL ECONOMIC LIFE	REMAINING ECONOMIC LIFE	ESTIMATED REPLACEMENT COST	2016 BEGINNING BALANCE	2016 RESERVE FUNDING	2016 PROJECTED REPLACEMENTS	2016 END OF YEAR BALANCE	
GENERAL SITE IMPROVEMENTS	20 to 50 years	10 to 34 years	\$10,570	\$9,782			\$9,782	
TOWNHOUSE EXTERIORS	5 to 100 years	2 to 24 years	\$1,991,523	\$370,754	\$69,080		\$439,834	

### 2017 - CASH FLOW METHOD CATEGORY FUNDING REPORT

Each of the 10 Projected Replacements included in the Townhouses of Bayshore Replacement Reserve Inventory has been assigned to one of the 2 categories listed in TABLE CF-3 below. This calculated data is a summary of data provided in the Three-Year Replacement Funding Report and Replacement Reserve Inventory. The accuracy of this data is dependent upon many factors including the following critical financial data:

- Replacement Reserves on Deposit totaling \$449,616 on January 1, 2017.
- Total Replacement Reserve funding (including the Beginning Balance) of \$518,697 in 2015 to 2017.
- No expenditures from Replacement Reserves other than those specifically listed in the Replacement Reserve Inventory.

If any of these critical factors are inaccurate, do not use the data and please contact Miller Dodson Associates to arrange for an update of the Replacement Reserve Study.

#### 2017 - CASH FLOW METHOD CATEGORY FUNDING - TABLE CF-3

CATEGORY	NORMAL ECONOMIC LIFE	REMAINING ECONOMIC LIFE	ESTIMATED REPLACEMENT COST	2017 BEGINNING BALANCE	2017 RESERVE FUNDING	2017 PROJECTED REPLACEMENTS	2017 END OF YEAR BALANCE
GENERAL SITE IMPROVEMENTS	20 to 50 years	9 to 33 years	\$10,570	\$9,782			\$9,782
TOWNHOUSE EXTERIORS	5 to 100 years	1 to 23 years	\$1,991,523	\$439,834	\$69,080		\$508,915

### CASH FLOW METHOD - THREE-YEAR REPLACEMENT FUNDING REPORT

TABLE 4 below details the allocation of the \$311,456 Beginning Balance, as reported by the Association and the \$207,241 of Replacement Reserve Funding calculated by the Cash Flow Method in 2015 to 2017, to the 10 Projected Replacements listed in the Replacement Reserve Inventory. These allocations have been made by Chronological Allocation, a method developed by Miller Dodson Associates, Inc., and outlined on Page CF-1. The accuracy of the allocations is dependent upon many factors including the following critical financial data:

- Replacement Reserves on Deposit totaling \$311,456 on January 1, 2015.
- Replacement Reserves on Deposit totaling \$380,536 on January 1, 2016.
- Replacement Reserves on Deposit totaling \$449,616 on January 1, 2017.
- Total Replacement Reserve funding (including the Beginning Balance) of \$518,697 in 2015 to 2017.
- No expenditures from Replacement Reserves other than those specifically listed in the Replacement Reserve Inventory.
- 

If any of these critical factors are inaccurate, do not use the data and please contact Miller Dodson Associates, Inc., to arrange for an update of the Replacement Reserve Study.

#### CASH FLOW METHOD - THREE-YEAR REPLACEMENT FUNDING - TABLE CF-4

Item #	Description of Projected Replacement	Estimated Replacement Costs	Allocation of Beginning Balance	2015 Reserve Funding	2015 Projected Replacements	2015 End of Year Balance	2016 Reserve Funding	2016 Projected Replacements	2016 End of Year Balance	2017 Reserve Funding	2017 Projected Replacements	2017 End of Year Balance
GENERAL SITE IMPROVEMENTS												
1	Pedestal mount mail boxes (aluminum)	9,782	9,782			9,782			9,782			9,782
2	Segmental retaining wall (10%)	788										
TOWNHOUSE EXTERIORS												
3	Asphalt shingle roof	876,000	82,063	69,080		151,143	69,080		220,224	69,080		289,304
4	Metal roof	40,800	40,800			40,800			40,800			40,800
5	Gutter & downspout	95,000	95,000			95,000			95,000			95,000
6	Vinyl siding and trim	900,000										
7	Brick tuckpointing (10%)	3,039	3,039			3,039			3,039			3,039
8	Asphalt driveway pavement	49,640	49,640			49,640			49,640			49,640
9	Asphalt driveway pavement (sealcoat)	2,044	6,132			6,132			6,132			6,132
10	Grading	25,000	25,000			25,000			25,000			25,000

## COMPONENT METHOD ACCOUNTING SUMMARY

This Townhouses of Bayshore - Component Method Accounting Summary is an attachment to the Townhouses of Bayshore - Replacement Reserve Study dated Revised November 21, 2014 and is for use by accounting and reserve professionals experienced in Association funding and accounting principals. This Summary consists of four reports, the 2015, 2016, and 2017 Cash Flow Method Category Funding Reports (3) and a Three-Year Replacement Funding Report.

- COMPONENT METHOD CATEGORY FUNDING REPORT, 2015, 2016, and 2017. Each of the 10 Projected Replacements listed in the Townhouses of Bayshore Replacement Reserve Inventory has been assigned to one of 2 categories. The following information is summarized by category in each report:
  - Normal Economic Life and Remaining Economic Life of the Projected Replacements.
  - Cost of all Scheduled Replacements in each category.
  - Replacement Reserves on Deposit allocated to the category at the beginning and end of the report period.
  - Cost of Projected Replacements in the report period.
  - Recommended Replacement Reserve Funding allocated to the category during the report period as calculated by the Component Method.
- THREE-YEAR REPLACEMENT FUNDING REPORT. This report details the allocation of the \$311,456 Beginning Balance (at the start of the Study Year) and the \$233,404 of additional Replacement Reserve funding in 2015 through 2017 (as calculated in the Replacement Reserve Analysis) to each of the 10 Projected Replacements listed in the Replacement Reserve Inventory. These allocations have been made using the Component Method as outlined in the Replacement Reserve Analysis. The calculated data includes:
  - Identification and estimated cost of each Projected Replacement schedule in years 2015 through 2017.
  - Allocation of the \$311,456 Beginning Balance to the Projected Replacements by the Component Method.
  - Allocation of the \$233,404 of additional Replacement Reserve Funding recommended in the Replacement Reserve Analysis in years 2015 through 2017, by the Component Method.

### 2015 - COMPONENT METHOD CATEGORY FUNDING REPORT

Each of the 10 Projected Replacements included in the Townhouses of Bayshore Replacement Reserve Inventory has been assigned to one of the 2 categories listed in TABLE CM-1 below. This calculated data is a summary of data provided in the Three-Year Replacement Funding Report and Replacement Reserve Inventory. The accuracy of this data is dependent upon many factors including the following critical financial data:

- A Beginning Balance of \$311,456 as of the first day of the Study Year, January 1, 2015.
- Total reserve funding (including the Beginning Balance) of \$389,257 in the Study Year.
- No expenditures from Replacement Reserves other than those specifically listed in the Replacement Reserve Inventory.

If any of these critical factors are inaccurate, do not use the data and please contact Miller Dodson Associates to arrange for an update of the Replacement Reserve Study.

2015 - COMPONENT METHOD CATEGORY FUNDING - TABLE CM-1								
CATEGORY	NORMAL ECONOMIC LIFE	REMAINING ECONOMIC LIFE	ESTIMATED REPLACEMENT COST	2015 BEGINNING BALANCE	2015 RESERVE FUNDING	2015 PROJECTED REPLACEMENTS	2015 END OF YEAR BALANCE	
GENERAL SITE IMPROVEMENTS	20 to 50 years	11 to 35 years	\$10,570	\$2,856	\$608		\$3,463	
TOWNHOUSE EXTERIORS	5 to 100 years	3 to 25 years	\$1,991,523	\$308,600	\$77,194		\$385,794	

### 2016 - COMPONENT METHOD CATEGORY FUNDING REPORT

Each of the 10 Projected Replacements included in the Townhouses of Bayshore Replacement Reserve Inventory has been assigned to one of the 2 categories listed in TABLE CM-2 below. This calculated data is a summary of data provided in the Three-Year Replacement Funding Report and Replacement Reserve Inventory. The accuracy of this data is dependent upon many factors including the following critical financial data:

- Replacement Reserves on Deposit totaling \$389,257 on January 1, 2016.
- Total reserve funding (including the Beginning Balance) of \$467,059 in 2015 through 2016.
- No expenditures from Replacement Reserves other than those specifically listed in the Replacement Reserve Inventory.

If any of these critical factors are inaccurate, do not use the data and please contact Miller Dodson Associates to arrange for an update of the Replacement Reserve Study.

2016 - COMPONENT METHOD CATEGORY FUNDING - TABLE CM-2								
CATEGORY	NORMAL ECONOMIC LIFE	REMAINING ECONOMIC LIFE	ESTIMATED REPLACEMENT COST	2016 BEGINNING BALANCE	2016 RESERVE FUNDING	2016 PROJECTED REPLACEMENTS	2016 END OF YEAR BALANCE	
GENERAL SITE IMPROVEMENTS	20 to 50 years	10 to 34 years	\$10,570	\$3,463	\$608		\$4,071	
TOWNHOUSE EXTERIORS	5 to 100 years	2 to 24 years	\$1,991,523	\$385,794	\$77,194		\$462,988	

### 2017 - COMPONENT METHOD CATEGORY FUNDING REPORT

Each of the 10 Projected Replacements included in the Townhouses of Bayshore Replacement Reserve Inventory has been assigned to one of the 2 categories listed in TABLE CM-3 below. This calculated data is a summary of data provided in the Three-Year Replacement Funding Report and Replacement Reserve Inventory. The accuracy of this data is dependent upon many factors including the following critical financial data:

- Replacement Reserves on Deposit totaling \$467,059 on January 1, 2017.
- Total Replacement Reserve funding (including the Beginning Balance) of \$544,860 in 2015 to 2017.
- No expenditures from Replacement Reserves other than those specifically listed in the Replacement Reserve Inventory.

If any of these critical factors are inaccurate, do not use the data and please contact Miller Dodson Associates to arrange for an update of the Replacement Reserve Study.

**2017 - COMPONENT METHOD CATEGORY FUNDING - TABLE CM-3**

CATEGORY	NORMAL ECONOMIC LIFE	REMAINING ECONOMIC LIFE	ESTIMATED REPLACEMENT COST	2017 BEGINNING BALANCE	2017 RESERVE FUNDING	2017 PROJECTED REPLACEMENTS	2017 END OF YEAR BALANCE
GENERAL SITE IMPROVEMENTS	20 to 50 years	9 to 33 years	\$10,570	\$4,071	\$608		\$4,678
TOWNHOUSE EXTERIORS	5 to 100 years	1 to 23 years	\$1,991,523	\$462,988	\$77,194		\$540,182

### COMPONENT METHOD - THREE-YEAR REPLACEMENT FUNDING REPORT

TABLE CM-4 below details the allocation of the \$311,456 Beginning Balance, as reported by the Association and the \$233,404 of Replacement Reserve Funding calculated by the Cash Flow Method in 2015 to 2017, to the 10 Projected Replacements listed in the Replacement Reserve Inventory. These allocations have been made by Chronological Allocation, a method developed by Miller Dodson Associates, Inc., and outlined on Page CF-1. The accuracy of the allocations is dependent upon many factors including the following critical financial data:

- Replacement Reserves on Deposit totaling \$311,456 on January 1, 2015.
- Replacement Reserves on Deposit totaling \$389,257 on January 1, 2016.
- Replacement Reserves on Deposit totaling \$467,059 on January 1, 2017.
- Total Replacement Reserve funding (including the Beginning Balance) of \$544,860 in 2015 to 2017.
- No expenditures from Replacement Reserves other than those specifically listed in the Replacement Reserve Inventory.
- 

If any of these critical factors are inaccurate, do not use the data and please contact Miller Dodson Associates, Inc., to arrange for an update of the Replacement Reserve Study.

#### COMPONENT METHOD - THREE-YEAR REPLACEMENT FUNDING - TABLE CM-4

Item #	Description of Projected Replacement	Estimated Replacement Costs	Allocation of Beginning Balance	2015 Reserve Funding	2015 Projected Replacements	2015 End of Year Balance	2016 Reserve Funding	2016 Projected Replacements	2016 End of Year Balance	2017 Reserve Funding	2017 Projected Replacements	2017 End of Year Balance
GENERAL SITE IMPROVEMENTS												
1	Pedestal mount mail boxes (aluminum)	9,782	2,703	590		3,293	590		3,883	590		4,473
2	Segmental retaining wall (10%)	788	152	18		170	18		188	18		205
TOWNHOUSE EXTERIORS												
3	Asphalt shingle roof	876,000	72,626	36,517		109,143	36,517		145,660	36,517		182,177
4	Metal roof	40,800	16,208	1,447		17,655	1,447		19,101	1,447		20,548
5	Gutter & downspout	95,000	21,003	4,353		25,356	4,353		29,708	4,353		34,061
6	Vinyl siding and trim	900,000	159,890	28,466		188,356	28,466		216,822	28,466		245,288
7	Brick tuckpointing (10%)	3,039		145		145	145		289	145		434
8	Asphalt driveway pavement	49,640	22,292	3,907		26,199	3,907		30,106	3,907		34,013
9	Asphalt driveway pavement (sealcoat)	2,044		256		256	256		511	256		767
10	Grading	25,000	16,581	2,105		18,686	2,105		20,791	2,105		22,895



## 1. COMMON INTEREST DEVELOPMENTS - AN OVERVIEW

Over the past 40 years, the responsibility for community facilities and infrastructure around many of our homes has shifted from the local government to Community Associations. Thirty years ago, a typical new town house abutted a public street on the front and a public alley on the rear. Open space was provided by a nearby public park and recreational facilities were purchased ala carte from privately owned country clubs, swim clubs, tennis clubs, and gymnasiums. Today, 60% of all new residential construction, i.e. townhouses, single-family homes, condominiums, and cooperatives, is in Common Interest Developments (CID). In a CID, a homeowner is bound to a Community Association that owns, maintains, and is responsible for periodic replacements of various components that may include the roads, curbs, sidewalks, playgrounds, streetlights, recreational facilities, and other community facilities and infrastructure.

The growth of Community Associations has been explosive. In 1965, there were only 500 Community Associations in the United States. According to the U.S. Census, there were 130,000 Community Associations in 1990. Community Associations Institute (CAI), a national trade association, estimates there were more than 200,000 Community Associations in the year 2000, and that the number of Community Associations will continue to multiply.

The shift of responsibility for billions of dollars of community facilities and infrastructure from the local government and private sector to Community Associations has generated new and unanticipated problems. Although Community Associations have succeeded in solving many short-term problems, many Associations have failed to properly plan for the tremendous expenses of replacing community facilities and infrastructure components. When inadequate replacement reserve funding results in less than timely replacements of failing components, home owners are exposed to the burden of special assessments, major increases in Association fees, and a decline in property values.

## 2. REPLACEMENT RESERVE STUDY

The purpose of a Replacement Reserve Study is to provide the Association with an inventory of the common community facilities and infrastructure components that require periodic replacement, a general view of the condition of these components, and an effective financial plan to fund projected periodic replacements. The Replacement Reserve Study consists of the following:

- Replacement Reserve Study Introduction. The introduction provides a description of the property, reviews the intent of the Replacement Reserve Study, and lists documents and site evaluations upon which the Replacement Reserve Study is based.
- Section A Replacement Reserve Analysis. Many components owned by the Association have a limited life and require periodic replacement. Therefore, it is essential the Association have a financial plan that provides funding for the timely replacement of these components in order to protect the safety, appearance, and value of the community. In conformance with American Institute of Certified Public Accountant guidelines; Section A Replacement Reserve Analysis evaluates the current funding of Replacement Reserves as reported by the Association and recommends annual funding of Replacement Reserves by two generally accepted accounting methods; the Cash Flow Method and the Component Method. Section A Replacement Reserve Analysis includes graphic and tabular presentations of these methods and current Association funding.
- Section B Replacement Reserve Inventory. The Replacement Reserve Inventory lists the commonly owned components within the community that require periodic replacement using funding from Replacement Reserves. The Replacement Reserve Inventory also provides information about components excluded from the Replacement Reserve Inventory whose replacement is not scheduled for funding from Replacement Reserves.  
  
Replacement Reserve Inventory includes estimates of the normal economic life and the remaining economic life for those components whose replacement is scheduled for funding from Replacement Reserves.
- Section C Projected Annual Replacements. The Calendar of Projected Annual Replacements provides a year-by-year listing of the Projected Replacements based on the data in the Replacement Reserve Inventory.
- Section D Condition Assessment. Several of the items listed in the Replacement Reserve Inventory are discussed in more detail. The Condition Assessment includes a narrative and photographs that document conditions at the property observed during our visual evaluation.
- Section E Attachments. The Appendix is provided as an attachment to the Replacement Reserve Study. Additional attachments may include supplemental photographs to document conditions at the property and additional information specific to the property cited in the Conditions Assessment (i.e. Consumer Product Safety Commission, Handbook for Public Playground Safety, information on segmental retaining walls, manufacturer recommendations for asphalt shingles or siding, etc).

### 3. METHODS OF ANALYSIS

The Replacement Reserve industry generally recognizes two different methods of accounting for Replacement Reserve Analysis. Due to the difference in accounting methodologies, these methods lead to different calculated values for the Minimum Annual Contribution to the Reserves. The results of both methods are presented in this report. The Association should obtain the advice of its accounting professional as to which method is more appropriate for the Association. The two methods are:

- **Component Method.** This method is a time tested mathematical model developed by HUD in the early 1980s. It treats each item in the replacement schedule as an individual line item budget. Generally, the Minimum Annual Contribution to Reserves is higher when calculated by the Component Method. The mathematical model for this method works as follows:

First, the total Current Objective is calculated, which is the reserve amount that would have accumulated had all of the items on the schedule been funded from initial construction at their current replacement costs. Next, the Reserves Currently on Deposit (as reported by the Association) are distributed to the components in the schedule in proportion to the Current Objective. The Minimum Annual Deposit for each component is equal to the Estimated Replacement Cost, minus the Reserves on Hand, divided by the years of life remaining.

- **Cash Flow Method.** The Cash Flow Method is sometimes referred to as the "Pooling Method." It calculates the minimum constant annual contribution to reserves (Minimum Annual Deposit) required to meet projected expenditures without allowing total reserves on hand to fall below the specified minimum level in any year. This method usually results in a calculated requirement for annual contribution somewhat less than that arrived at by the Component Method of analysis.

First, the Minimum Recommended Reserve Level to be Held on Account is determined based on the age, condition, and replacement cost of the individual components. The mathematical model then allocates the estimated replacement costs to the future years in which they are projected to occur. Based on these expenditures, it then calculates the minimum constant yearly contribution (Minimum Annual Deposit) to the reserves necessary to keep the reserve balance at the end of each year above the Minimum Recommended Reserve Level to be Held on Account. The Cash Flow Analysis assumes that the Association will have authority to use all of the reserves on hand for replacements as the need occurs. This method usually results in a Minimum Annual Deposit, which is less than that, arrived at by the Component Method.

- **Adjusted Cash Flow Analysis.** This program has the ability to modify the Cash Flow Method to take into account forecasted inflation and interest rates, thereby producing an Adjusted Cash Flow Analysis. Attempting to forecast future inflation and interest rates and the impact of changing technology is highly tenuous. Therefore, in most cases it is preferable to make a new schedule periodically rather than attempt to project far into the future. We will provide more information on this type of analysis upon request.

### 4. REPLACEMENT RESERVE STUDY DATA

- **Identification of Reserve Components.** The Reserve Analyst has only two methods of identifying Reserve Components; (1) information provided by the Association and (2) observations made at the site. It is important that the Reserve Analyst be provided with all available information detailing the components owned by the Association. It is our policy to request such information prior to bidding on a project and to meet with the individuals responsible for maintaining the community after acceptance of our proposal. After completion of the Study, the Study should be reviewed by the Board of Directors, individuals responsible for maintaining the community, and the Association's accounting professionals. We are dependent upon the Association for correct information, documentation, and drawings.

- **Unit Costs.** Unit costs are developed using nationally published standards and estimating guides and are adjusted by state or region. In some instances, recent data received in the course of our work is used to modify these figures.

Contractor proposals or actual cost experience may be available as part of the Association records. This is useful information, which should be incorporated into your report. Please bring any such available data to our attention, preferably before the report is commenced.

- **Replacement vs. Repair and Maintenance.** A Replacement Reserve Study addresses the required funding for Capital Replacement Expenditures. This should not be confused with operational costs or cost of repairs or maintenance.

## 5. DEFINITIONS

**Adjusted Cash Flow Analysis.** Cash flow analysis adjusted to take into account annual cost increases due to inflation and interest earned on invested reserves. In this method, the annual contribution is assumed to grow annually at the inflation rate.

**Annual Deposit if Reserves Were Fully Funded.** Shown on the Summary Sheet A1 in the Component Method summary, this would be the amount of the Annual Deposit needed if the Reserves Currently on Deposit were equal to the Total Current Objective.

**Cash Flow Analysis.** See Cash Flow Method, above.

**Component Analysis.** See Component Method, above.

**Contingency.** An allowance for unexpected requirements. Roughly the same as the Minimum Recommended Reserve Level to be Held on Account used in the Cash Flow Method of analysis.

**Critical Year.** In the Cash Flow Method, a year in which the reserves on hand are projected to fall to the established minimum level. See Minimum Recommended Reserve Level to be Held on Account.

**Current Objective.** This is the reserve amount that would have accumulated had the item been funded from initial construction at its current replacement cost. It is equal to the estimated replacement cost divided by the estimated economic life, times the number of years expended (the difference between the Estimated Economic Life and the Estimated Life Left). The Total Current Objective can be thought of as the amount of reserves the Association should now have on hand based on the sum of all of the Current Objectives.

**Estimated Economic Life.** Used in the Normal Replacement Schedules. This represents the industry average number of years that a new item should be expected to last until it has to be replaced. This figure is sometimes modified by climate, region, or original construction conditions.

**Estimated Remaining Economic Life.** Used in the Normal Replacement Schedules, this term is the number of years until the current item is expected to need replacement. Normally, this number would be considered the difference between the Estimated Economic Life and the age of the item. However, this number must be modified to reflect maintenance practice, climate, original construction and quality, or other conditions. For the purpose of this report, this number is determined by the Reserve Analyst based on the present condition of the item relative to the actual age.

**Estimated Initial Replacement.** For a Cyclic Replacement Item (see above), the number of years until the replacement cycle is expected to begin.

**Estimated Replacement Cycle.** For a Cyclic Replacement Item, the number of years over which the remainder of the component's replacement occurs.

**Incremental Replacement Item.** Incremental replacement refers to an inventory component that will be replaced in portions over the life of the study rather than in its entirety, as distinguished below, see Normal Replacement Item.

**Minimum Annual Deposit.** Shown on the Summary Sheet A1. The calculated requirement for annual contribution to reserves as calculated by the Cash Flow Method (see above).

**Minimum Deposit in the Study Year.** Shown on the Summary Sheet A1. The calculated requirement for contribution to reserves in the study year as calculated by the Component Method (see above).

**Minimum Recommended Reserve Level to be Held on Account.** Shown on the Summary Sheet A1, this number is used in the Cash Flow Method only. This is the prescribed level below which the reserves will not be allowed to fall in any year. This amount is determined based on the age, condition, and replacement cost of the individual components. This number is normally given as a percentage of the total Estimated Replacement Cost of all reserve components.

**Normal Replacement Item.** A component of the property that is replaced in its entirety. (As distinguished from an Incremental Replacement Item, see above.)

**Normal Replacement Schedules.** The list of Normal Replacement Items by category or location. These items appear on pages designated.

**Number of Years of the Study.** The numbers of years into the future for which expenditures are projected and reserve levels calculated. This number should be large enough to include the projected replacement of every item on the schedule, at least once. This study covers a 40-year period.

**One Time Deposit Required to Fully Fund Reserves.** Shown on the Summary Sheet A1 in the Component Method summary, this is the difference between the Total Current Objective and the Reserves Currently on Deposit.

Reserves Currently on Deposit. Shown on the Summary Sheet A1, this is the amount of accumulated reserves as reported by the Association in the current year.

Reserves on Hand. Shown in the Cyclic Replacement and Normal Replacement Schedules, this is the amount of reserves allocated to each component item in the Cyclic or Normal Replacement schedules. This figure is based on the ratio of Reserves Currently on Deposit divided by the total Current Objective.

Replacement Reserve Study. An analysis of all of the components of the common property of the Association for which a need for replacement should be anticipated within the economic life of the property as a whole. The analysis involves estimation for each component of its estimated Replacement Cost, Estimated Economic Life, and Estimated Life Left. The objective of the study is to calculate a recommended annual contribution to the Association's Replacement Reserve Fund.

Total Replacement Cost. Shown on the Summary Sheet A1, this is total of the Estimated Replacement Costs for all items on the schedule if they were to be replaced once.

Unit Replacement Cost. Estimated replacement cost for a single unit of a given item on the schedule.

Unit (of Measure). Non-standard abbreviations are defined on the page of the Replacement Reserve Inventory where the item appears. The following standard abbreviations are used in this report:

EA: each      FT: feet      LS: lump sum      PR: pair      SF: square feet      SY: square yard

What is a Reserve Study?  
Who are we?



<http://bcove.me/nc0o69t7>

What kind of property uses a Reserve Study?  
Who are our clients?



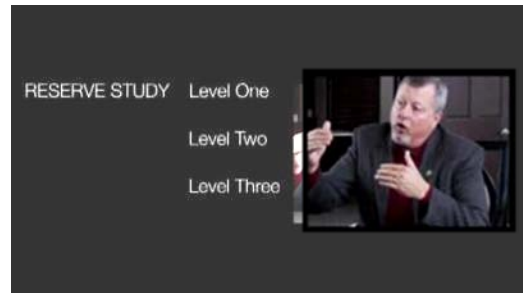
<http://bcove.me/stt373hj>

Who conducts a Reserve Study?  
Reserve Specialist (RS) what does this mean?



<http://bcove.me/81ch7kit>

When should a Reserve Study be updated?  
What are the different types of Reserve Studies?



<http://bcove.me/ixis1yxm>

What is in a Reserve Study and what is out?  
Improvement vs Component, is there a difference?



<http://bcove.me/81ch7kit>

What is my role as a Community Manager?  
Will the report help me explain Reserves to my



<http://bcove.me/fazwdk3h>

clients?

What is my role as a Board Member?  
Will a Reserve Study meet my community's needs?



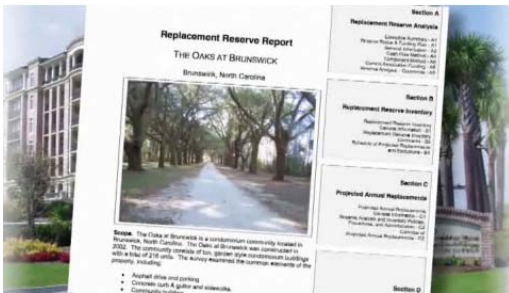
<http://bcove.me/n6nwnktv>

Community dues, how can a Reserve Study help?  
Will a study help keep my property competitive?



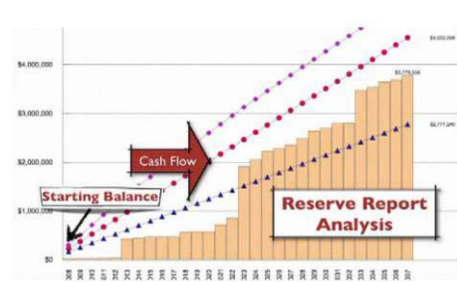
<http://bcove.me/2vfih1tz>

How do I read the report?  
Will I have a say in what the report contains?



<http://bcove.me/wb2fugb1>

Where do the numbers come from?  
Cumulative expenditures and funding, what?



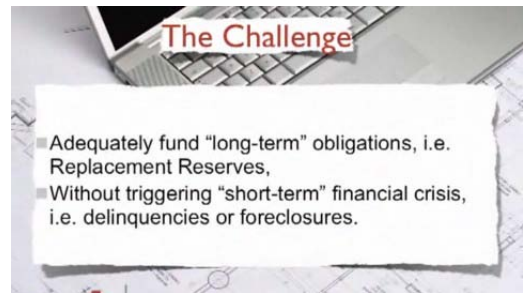
<http://bcove.me/7buer3n8>

How are interest and inflation addressed?  
What should we look at when considering inflation?



<http://bcove.me/s2tmtj9b>

A community needs more help, where do we go?  
What is a Strategic Funding Plan?



<http://bcove.me/iqul31vq>