

REPLACEMENT RESERVE REPORT FY 2009

TOWNHOUSES OF BAYSHORE



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TOWNHOUSES OF BAYSHORE

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REPLACEMENT RESERVE REPORT

Townhouses of Bayshore Millsboro, Delaware



Scope. Townhouses of Bayshore is a townhouse community located in Millsboro, Delaware. Townhouses of Bayshore was constructed in 2005. The community consists of 26 buildings with 146 units. The survey examined the common elements of the property, including:

- Asphalt drive and parking.
- Concrete sidewalks, curb, and gutter.
- Swimming pool and community building.
- Storm water management system.
- Townhouse exteriors.

Level of Service. This study has been performed as a Level I, Full Service Reserve Study as defined under the National Reserve Study Standards that have been adopted by the Community Associations Institute. As such, a complete component inventory was established based on information regarding commonly-owned components provided by the community manager and upon quantities derived from field measurement and/or quantity takeoffs from to-scale engineering drawings. The condition of all commonly-owned components was ascertained from a site visit and the visual inspection of each component by the Analyst. The life expectancy and the value of the components are provided based in part on these observations. The fund status and funding plan have been derived from analysis of this data.

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Projected Annual Replacements
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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 Replacement Reserve Inventory 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 Replacement Reserve Inventory includes our estimates of the normal economic life and the remaining economic life for the projected replacements. Section C Calendar of Projected Annual Replacements provides a year-by-year listing of the projected replacements. Section D Condition Assessment 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 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. 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.
- Our visual evaluation and measurements on July 17, 2009. Miller - Dodson Associates has visually inspected the common elements of the property in order to ascertain the remaining useful life and the replacement costs of these components.

Engineering Drawings. The Site Plan for Bayshore Subdivision by Design Consultants Group and dated May 1, 2002 was used as a guide, to assist in establishing the field measurements of the quantities of asphalt pavement, concrete sidewalk, concrete curb and gutter and storm water drainage facilities.

Acknowledgement. Miller - Dodson Associates would like to acknowledge the assistance and input of Ms. Lenora Behravan of CPR Management who provided very helpful insight into the current operations at the property.

Analyst's Credentials. This study has been performed by Mr. Harvey Mosier. Mr. Mosier has a degree in Business Administration and over 40 years experience in project design, contract administration, and inspection of public and private facilities. As a consultant, Mr. Mosier has completed multiple facilities studies, life cycle cost studies, and analyses for repair verses replacement of facilities and systems. He is currently a Reserve Analyst for Miller - Dodson Associates, Inc.

Respectfully submitted,
MILLER - DODSON ASSOCIATES, INC.

Harvey Mosier
Reserve Analyst

EXECUTIVE SUMMARY

The Townhouses of Bayshore Replacement Reserve Inventory identifies 23 Projected Replacements for funding from Replacement Reserves, with an estimated one-time replacement cost of \$3,344,798.

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:

\$105,450 CASH FLOW METHOD MINIMUM ANNUAL FUNDING OF REPLACEMENT RESERVES IN THE STUDY YEAR, 2009.

\$60.19 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 which is outside of the 30-year Study Period. The Cash Flow Method - Minimum Annual Funding of Replacement Reserves remains constant at \$105,450 throughout the entire 30-year Study Period.

\$123,760 COMPONENT METHOD RECOMMENDED ANNUAL FUNDING OF REPLACEMENT RESERVES IN THE STUDY YEAR, 2009.

\$70.64 Per unit (average), recommended monthly funding of Replacement Reserves

The Component Method is a time tested and 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 \$360,435.

The Association reports having \$103,558 on deposit, which is 28.7% funded.

\$8,176 CURRENT ANNUAL FUNDING OF REPLACEMENT RESERVES (as reported by the Association).

\$4.67 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 9 years of the 30-year Study Period, and a maximum shortfall of \$-1,255,315 occurs in 2030.

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 \$1,555,488 of Projected Replacements listed in the Townhouses of Bayshore Replacement Reserve Inventory.

The Funding Plan should be professionally evaluated 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 Consumer Price Index.

PLEASE NOTE: For inventory items with a Remaining Economic Life greater than 40 years, the replacement projections fall outside this study's limits and are not included in the annual calculations. However, tracking these items over time will bring them within the 40 year window and they will be included in the future.

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, Adjustments (for interest, inflation, and/or a constant increase in annual funding), 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, 2009.

STUDY PERIOD

The Replacement Reserve Analysis evaluates the funding of Replacement Reserves over a 30-year Study Period that begins on January 1, 2009.

ADJUSTMENTS

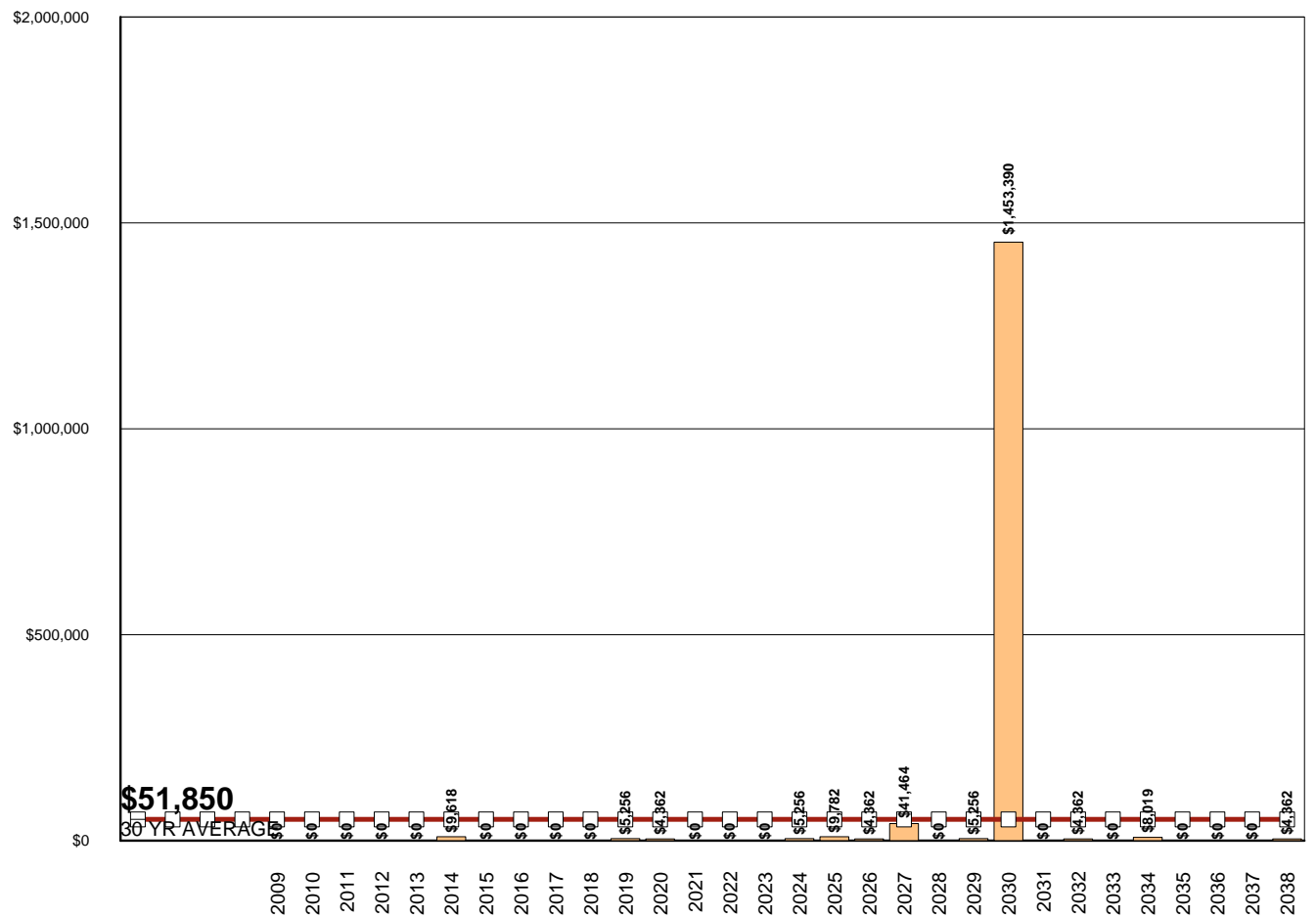
The calculations in this Replacement Reserve Analysis do not account for interest earned on Replacement Reserves, the effects of inflation on the costs of Projected Replacements, or a constant annual increase in Annual Funding of Replacement Reserves. If requested, we will provide a Replacement Reserve Analysis with adjustments for inflation, interest, and/or a constant annual increase in funding, using values provided by the Association.

BEGINNING BALANCE

The Association reports Replacement Reserves on Deposit totaling \$103,558 at the start of the Study Year.

Graph #1. Annual Expenditures for Projected Replacements

This bar graph summarizes annual expenditures for the \$1,555,488 of Projected Replacements identified in the Replacement Reserve Inventory over the 30-year Study Period. The red line shows the average annual expenditure of \$51,850.



PROJECTED REPLACEMENTS

The Townhouses of Bayshore Replacement Reserve Inventory (Section B) identifies 23 Projected Replacements with a one-time Replacement Cost of \$3,344,798 and replacements totaling \$1,555,488 over 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 Replacement Reserve Inventory also identifies 35 Excluded Items. Expenditures for the replacement of 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 rationale behind these exclusions is discussed in detail on Page B1.

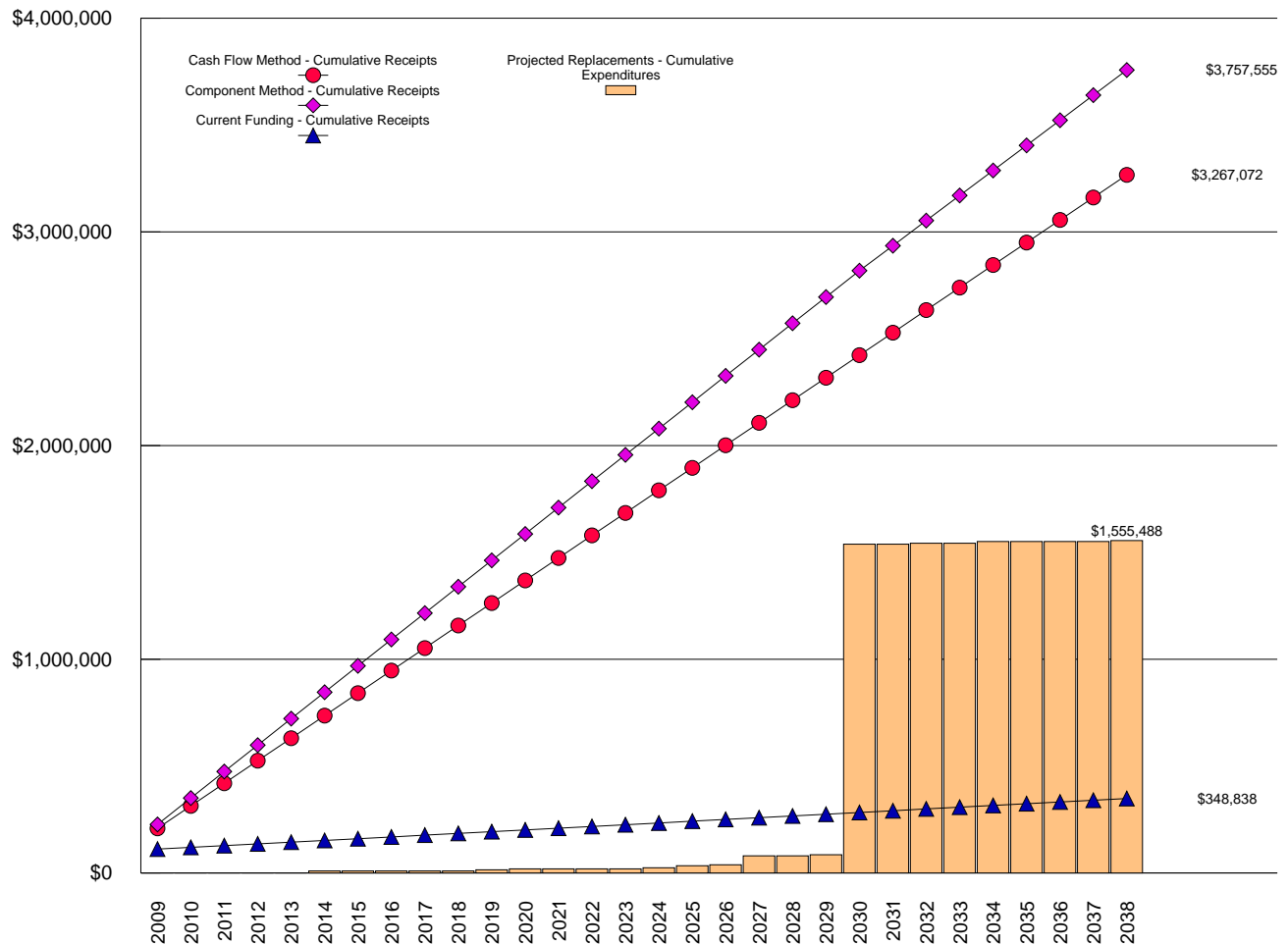
Expenditures from Replacements Reserves should be made only after consultation with an accounting professional.

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.

The accuracy of this Replacement Reserve Analysis is dependent upon expenditures from Replacement Reserves being made only for the Projected Replacements specifically listed in the Replacement Reserve Inventory.

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

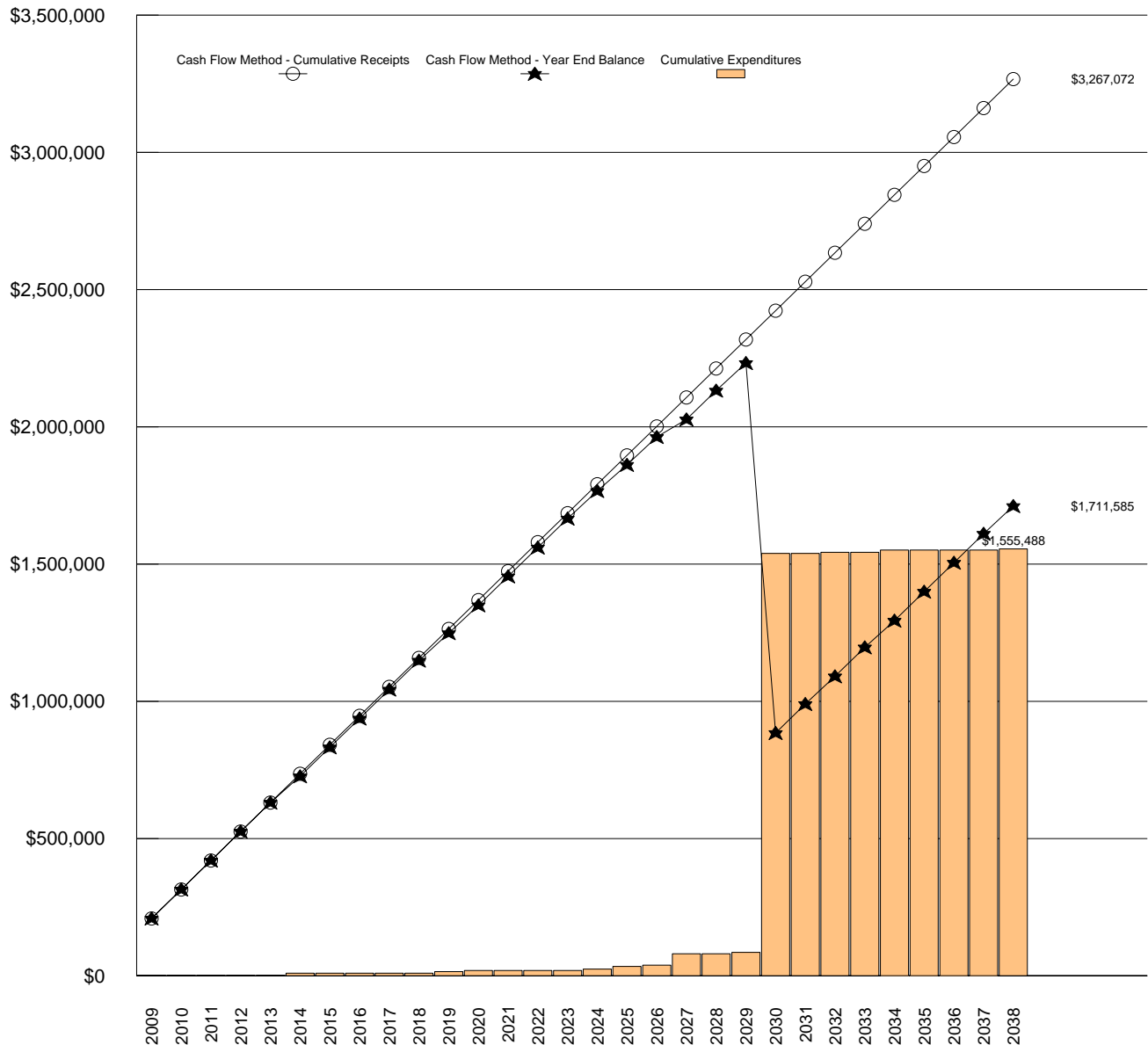
\$105,450 CASH FLOW METHOD MINIMUM ANNUAL FUNDING OF REPLACEMENT RESERVES IN THE STUDY YEAR, 2009.

\$60.19 Per unit (average), minimum monthly funding of Replacement Reserves

General. The Cash Flow Method is founded on the concept that the Replacement Reserve Account is solvent if cumulative receipts always exceed cumulative expenses. 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 \$167,240, 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, which is outside of the 30-year Study Period. The Cash Flow Method - Minimum Annual Funding of Replacement Reserves of \$105,450 remains the same throughout the entire 30-year Study Period.
This funding level is adequate to fund the \$1,555,488 of Projected Expenditures listed in the Replacement Reserve Inventory.
- 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 calculations in this 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 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 \$51,850 (see Graph #1). The Cash Flow Method - Minimum Annual Funding of Replacement Reserves in the Study Year is \$105,450. This is 203.4 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	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Starting balance	\$103,558									
Annual deposit	\$105,450	\$105,450	\$105,450	\$105,450	\$105,450	\$105,450	\$105,450	\$105,450	\$105,450	\$105,450
Expenditures						\$9,618				
Year end balance	\$209,008	\$314,459	\$419,909	\$525,360	\$630,810	\$726,643	\$832,094	\$937,544	\$1,042,995	\$1,148,445
Minimum rec. funding lvl.	\$167,240	\$167,240	\$167,240	\$167,240	\$167,240	\$167,240	\$167,240	\$167,240	\$167,240	\$167,240
Cumulative expenditures	\$14,874	\$19,236	\$19,236	\$19,236	\$19,236	\$24,492	\$34,274	\$38,635	\$80,099	\$80,099
Cumulative receipts	\$209,008	\$314,459	\$419,909	\$525,360	\$630,810	\$736,261	\$841,711	\$947,162	\$1,052,612	\$1,158,063
Year	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028
Annual deposit	\$105,450	\$105,450	\$105,450	\$105,450	\$105,450	\$105,450	\$105,450	\$105,450	\$105,450	\$105,450
Expenditures	\$5,256	\$4,362				\$5,256	\$9,782	\$4,362	\$41,464	
Year end balance	\$1,248,639	\$1,349,728	\$1,455,179	\$1,560,629	\$1,666,080	\$1,766,274	\$1,861,943	\$1,963,031	\$2,027,018	\$2,132,468
Minimum rec. funding lvl.	\$167,240	\$167,240	\$167,240	\$167,240	\$167,240	\$167,240	\$167,240	\$167,240	\$167,240	\$167,240
Cumulative expenditures	\$14,874	\$19,236	\$19,236	\$19,236	\$19,236	\$24,492	\$34,274	\$38,635	\$80,099	\$80,099
Cumulative receipts	\$1,263,513	\$1,368,964	\$1,474,414	\$1,579,865	\$1,685,315	\$1,790,766	\$1,896,216	\$2,001,667	\$2,107,117	\$2,212,568
Year	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038
Annual deposit	\$105,450	\$105,450	\$105,450	\$105,450	\$105,450	\$105,450	\$105,450	\$105,450	\$105,450	\$105,450
Expenditures	\$5,256	\$1,453,390		\$4,362		\$8,019				\$4,362
Year end balance	\$2,232,663	\$884,723	\$990,174	\$1,091,262	\$1,196,713	\$1,294,145	\$1,399,595	\$1,505,046	\$1,610,496	\$1,711,585
Minimum rec. funding lvl.	\$167,240	\$167,240	\$167,240	\$167,240	\$167,240	\$167,240	\$167,240	\$167,240	\$167,240	\$167,240
Cumulative expenditures	\$85,355	\$1,538,745	\$1,538,745	\$1,543,107	\$1,543,107	\$1,551,126	\$1,551,126	\$1,551,126	\$1,551,126	\$1,555,488
Cumulative receipts	\$2,318,018	\$2,423,469	\$2,528,919	\$2,634,370	\$2,739,820	\$2,845,270	\$2,950,721	\$3,056,171	\$3,161,622	\$3,267,072

COMPONENT METHOD



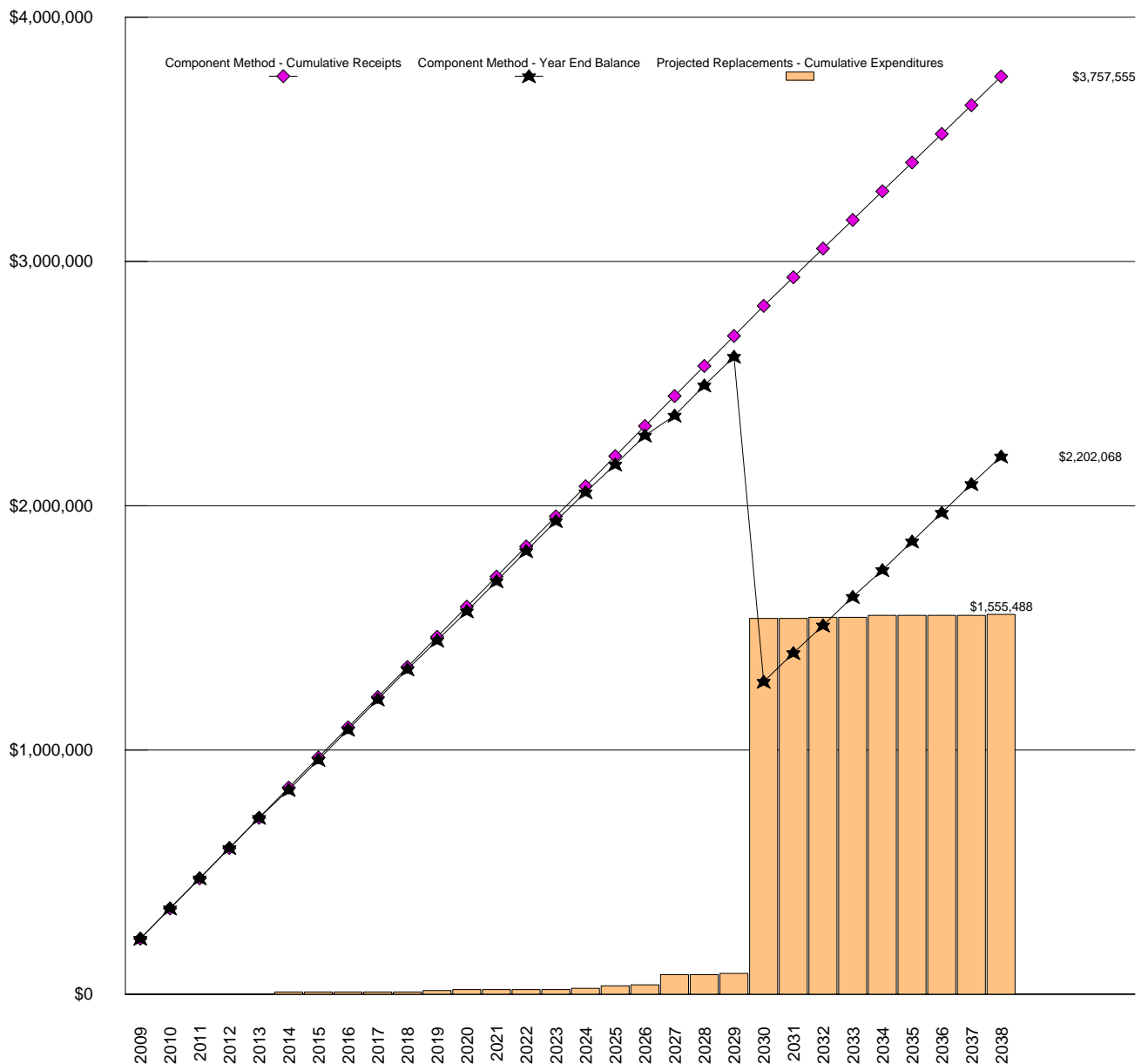
\$123,760

COMPONENT METHOD RECOMMENDED ANNUAL FUNDING OF REPLACEMENT RESERVES IN THE STUDY YEAR, 2009.

\$70.64 Per unit (average), recommended monthly funding of Replacement Reserves

General. The Component Method is a time tested and very conservative mathematical model developed by HUD in the early 1980s. Each of the 23 Projected Replacements listed in the Replacement Reserve Inventory is treated as a separate account. The Beginning Balance is allocated to each of these 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 the Recommended Annual Funding of Replacement Reserves is a multi-step process outlined in more detail on Page A7.

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 23 Projected Replacements. The total, \$360,435, 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 (\$103,558) by the Current Funding Objective (\$360,435). At Townhouses of Bayshore the Funding Percentage is 28.7%
- **Allocation of the Beginning Balance.** The Beginning Balance is divided among the 23 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 28.7 percent funded, there is \$230 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 \$123,760, the Component Method Recommended Annual Funding of Replacement Reserves in the Study Year (2009).

In our fence example, the \$230 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 \$385. Next year, the deposit remains \$385, 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, the effects of inflation of the cost of Projected Replacements, or a constant annual increase in Annual Funding of Replacement Reserves.

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

Year	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Starting balance	\$103,558									
Annual deposit	\$123,760	\$123,760	\$123,760	\$123,760	\$123,760	\$123,760	\$123,469	\$123,469	\$123,469	\$123,469
Expenditures						\$9,618				
Year end balance	\$227,318	\$351,078	\$474,838	\$598,599	\$722,359	\$836,501	\$959,970	\$1,083,439	\$1,206,908	\$1,330,377
Cumulative Expenditures	\$14,874	\$19,236	\$19,236	\$19,236	\$19,236	\$19,236	\$24,492	\$34,274	\$38,635	\$80,099
Cumulative Receipts	\$227,318	\$351,078	\$474,838	\$598,599	\$722,359	\$846,119	\$969,588	\$1,093,057	\$1,216,526	\$1,339,995
Year	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028
Annual deposit	\$123,469	\$123,469	\$123,262	\$123,262	\$123,262	\$123,262	\$123,262	\$123,200	\$123,079	\$123,002
Expenditures	\$5,256	\$4,362				\$5,256	\$9,782	\$4,362	\$41,464	
Year end balance	\$1,448,590	\$1,567,698	\$1,690,960	\$1,814,221	\$1,937,483	\$2,055,489	\$2,168,969	\$2,287,807	\$2,369,423	\$2,492,424
Cumulative Expenditures	\$14,874	\$19,236	\$19,236	\$19,236	\$19,236	\$24,492	\$34,274	\$38,635	\$80,099	\$80,099
Cumulative Receipts	\$1,463,464	\$1,586,933	\$1,710,195	\$1,833,457	\$1,956,719	\$2,079,981	\$2,203,242	\$2,326,443	\$2,449,522	\$2,572,524
Year	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038
Annual deposit	\$123,002	\$123,002	\$117,352	\$117,352	\$117,274	\$117,274	\$117,444	\$117,444	\$117,444	\$117,444
Expenditures	\$5,256	\$1,453,390		\$4,362		\$8,019				\$4,362
Year end balance	\$2,610,170	\$1,279,782	\$1,397,134	\$1,510,124	\$1,627,398	\$1,736,653	\$1,854,097	\$1,971,541	\$2,088,985	\$2,202,068
Cumulative Expenditures	\$85,355	\$1,538,745	\$1,538,745	\$1,543,107	\$1,543,107	\$1,551,126	\$1,551,126	\$1,551,126	\$1,551,126	\$1,555,488
Cumulative Receipts	\$2,695,526	\$2,818,527	\$2,935,879	\$3,053,231	\$3,170,505	\$3,287,779	\$3,405,223	\$3,522,667	\$3,640,111	\$3,757,555

CURRENT FUNDING



\$8,176 CURRENT ANNUAL FUNDING OF REPLACEMENT RESERVES
(as reported by the Association).

\$4.67 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 \$8,176 per year in each of the 30 years of the Study Period.

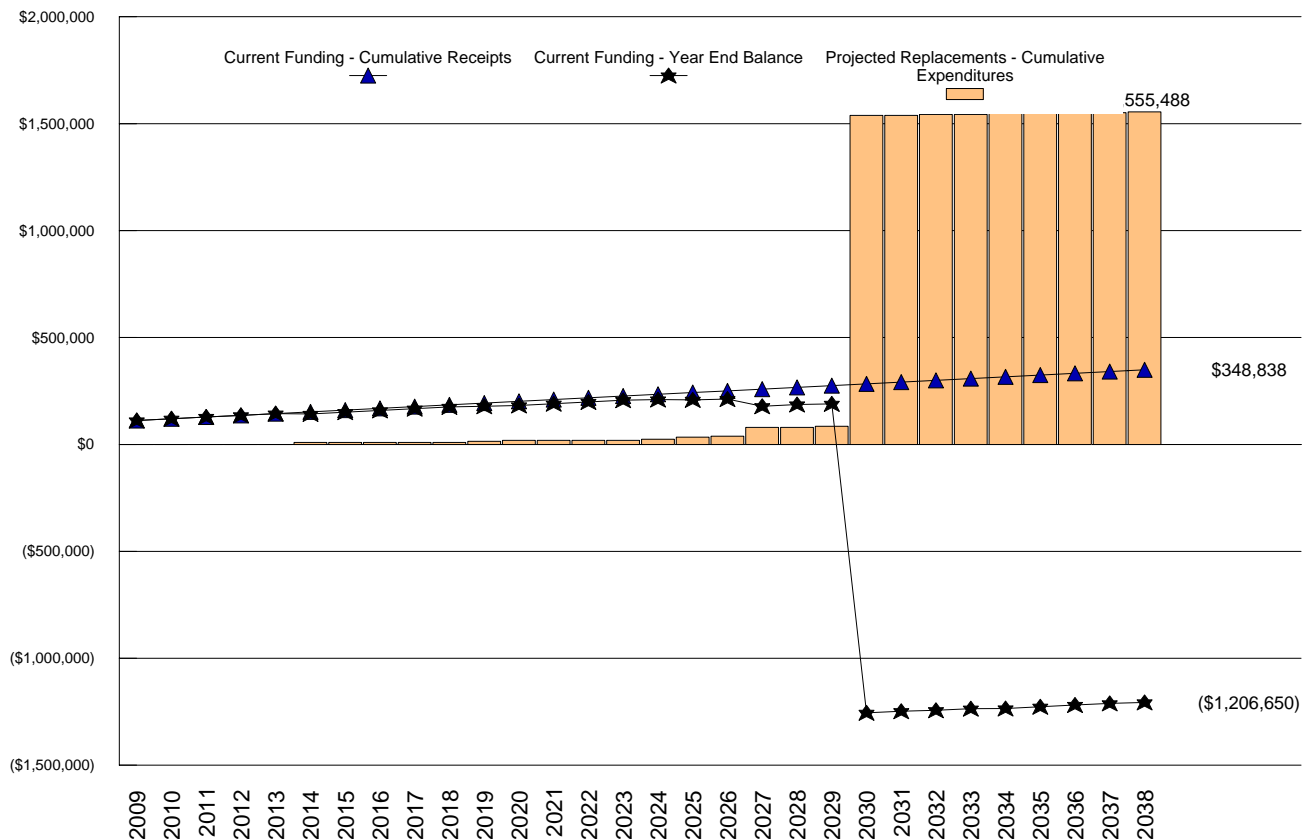
Our evaluation is based upon this Replacement Reserve Funding Level, a \$103,558 Beginning Balance, the Projected Annual Replacement Expenditures shown in Graph #1 and listed in the Replacement Reserve Inventory, and any interest, inflation rate, or constant annual increase in annual contribution adjustments 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 2030.

The Current Annual Funding of Replacement Reserves results in insufficient funds to make Projected Replacements in 9 years of the 30-year Study Period, and a maximum shortfall of \$-1,255,315 occurs in 2030.

- 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 \$51,850 (see Graph #1). Current Association annual funding of Replacement Reserves is \$8,176, or approximately 16 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	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Starting balance	\$103,558									
Annual deposit	\$8,176	\$8,176	\$8,176	\$8,176	\$8,176	\$8,176	\$8,176	\$8,176	\$8,176	\$8,176
Expenditures						\$9,618				
Year end balance	\$111,734	\$119,910	\$128,086	\$136,262	\$144,438	\$142,996	\$151,172	\$159,348	\$167,524	\$175,700
Cumulative Expenditures						\$9,618	\$9,618	\$9,618	\$9,618	\$9,618
Cumulative Receipts	\$111,734	\$119,910	\$128,086	\$136,262	\$144,438	\$152,614	\$160,790	\$168,966	\$177,142	\$185,318
Year	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028
Annual deposit	\$8,176	\$8,176	\$8,176	\$8,176	\$8,176	\$8,176	\$8,176	\$8,176	\$8,176	\$8,176
Expenditures	\$5,256	\$4,362				\$5,256	\$9,782	\$4,362	\$41,464	
Year end balance	\$178,620	\$182,434	\$190,610	\$198,786	\$206,962	\$209,882	\$208,276	\$212,091	\$178,803	\$186,979
Cumulative expenditures	\$14,874	\$19,236	\$19,236	\$19,236	\$19,236	\$24,492	\$34,274	\$38,635	\$80,099	\$80,099
Cumulative receipts	\$193,494	\$201,670	\$209,846	\$218,022	\$226,198	\$234,374	\$242,550	\$250,726	\$258,902	\$267,078
Year	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038
Annual deposit	\$8,176	\$8,176	\$8,176	\$8,176	\$8,176	\$8,176	\$8,176	\$8,176	\$8,176	\$8,176
Expenditures	\$5,256	\$1,453,390		\$4,362		\$8,019				\$4,362
Year end balance	\$189,899	(\$1,255,315)	(\$1,247,139)	(\$1,243,325)	(\$1,235,149)	(\$1,234,992)	(\$1,226,816)	(\$1,218,640)	(\$1,210,464)	(\$1,206,650)
Cumulative Expenditures	\$85,355	\$1,538,745	\$1,538,745	\$1,543,107	\$1,543,107	\$1,551,126	\$1,551,126	\$1,551,126	\$1,551,126	\$1,555,488
Cumulative Receipts	\$275,254	\$283,430	\$291,606	\$299,782	\$307,958	\$316,134	\$324,310	\$332,486	\$340,662	\$348,838

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 One Study - Full Service.
- 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 58 items. Two types of items are identified, Projected Replacements and Excluded Items:

- **PROJECTED REPLACEMENTS.** 23 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 \$3,344,798. Replacements totaling \$1,555,488 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.** 35 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, partial replacements, repairs, capital improvements, and one-time only replacements.

Value. Items with a replacement cost of less than \$1,000 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' section of its page of the Replacement Reserve Inventory.

- **CATEGORIES.** The 58 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 One Study - Full Service, as defined by the National Reserve Study Standards, established in 1998 by Community Associations Institute, which states:

A Level I - Full Service Reserve Study includes the computation of complete component inventory information regarding commonly owned components provided by the property manager, quantities derived from field measurements and/or quantity takeoffs from to-scale engineering drawings that may be made available. The condition of all components is ascertained from a visual inspection of each component by the analyst. The life expectancy and the value of the components are provided based on these observations and the funding status and funding plan are then derived from analysis of this data.

REPLACEMENT RESERVE INVENTORY - GENERAL INFORMATION (cont'd)

- **INVENTORY DATA.** Each of the 23 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, FT-foot, 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 two sources to develop the unit cost data shown in the Inventory; industry standard estimating manuals published by R. S. Means Company, Inc., and data that we have developed based upon our experience with similar replacement projects. We frequently use our best professional judgment to modify these values to reflect conditions at the site that we believe will affect the unit costs. Actual Replacement Costs may vary substantially from our estimates because of unforeseen demolition costs, engineering and architectural fees, timing of the replacement, etc.

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

Economic Life Remaining (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 35 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.** All expenditures from Replacement Reserves should be made only after consultation with an accounting professional.
- **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.

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	16	\$9,782
2	Concrete flatwork (6%)	sf	452	\$9.65	60	5	\$4,362
3	Concrete flatwork (6%)	sf	452	\$9.65	60	11	\$4,362
4	Concrete flatwork (6%)	sf	452	\$9.65	60	17	\$4,362
5	Concrete flatwork (6%)	sf	452	\$9.65	60	23	\$4,362
6	Concrete flatwork (6%)	sf	452	\$9.65	60	29	\$4,362
7	Concrete flatwork (6%)	sf	452	\$9.65	60	35	\$4,362
8	Concrete flatwork (6%)	sf	452	\$9.65	60	41	\$4,362
9	Concrete flatwork (6%)	sf	452	\$9.65	60	47	\$4,362
10	Concrete flatwork (6%)	sf	452	\$9.65	60	53	\$4,362
11	Concrete flatwork (6%)	sf	452	\$9.65	60	59	\$4,362
12	Segmental retaining wall	sf	63	\$45.00	100	90	\$2,835

GENERAL SITE IMPROVEMENTS - Replacement Costs - Subtotal \$56,235

GENERAL SITE IMPROVEMENTS
COMMENTS

- Concrete flatwork includes unit leadwalks and cluster mailbox pads.

TOWNHOUSE EXTERIORS
PROJECTED REPLACEMENTS

ITEM #	ITEM DESCRIPTION	UNIT	NUMBER OF UNITS	UNIT REPLACEMENT COST (\$)	NORMAL ECONOMIC LIFE (YRS)	REMAINING ECONOMIC LIFE (YRS)	REPLACEMENT COST (\$)
13	Asphalt shingle roof	sf	253,100	\$3.80	25	21	\$961,780
14	Metal roof	sf	5,100	\$7.00	40	36	\$35,700
15	Gutter & downspout	ft	14,400	\$6.00	25	21	\$86,400
16	Vinyl siding and trim	sf	128,700	\$2.70	35	30	\$347,490
17	Brick tuckpointing (10%)	sf	1,105	\$2.50	10	25	\$2,763
18	Exterior doors	ea	280	\$850.00	25	21	\$238,000
19	Garage doors	ea	146	\$685.00	25	21	\$100,010
20	Windows	sf	33,000	\$42.50	35	31	\$1,402,500
21	Exterior lights	ea	560	\$120.00	25	21	\$67,200
22	Asphalt driveway pavement	sf	29,200	\$1.42	20	18	\$41,464
23	Asphalt driveway pavement	sf	29,200	\$0.18	5	5	\$5,256

TOWNHOUSE EXTERIORS - Replacement Costs - Subtotal \$3,288,563

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.
- Garage doors line item does not include garage door operator. We have assumed that the operator is home owner responsibility.
- Exterior lights include recess, flood, and motion lights.

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	Is	1				EXCLUDED
	Sanitary sewers serving one unit	Is	1				EXCLUDED
	Electrical wiring serving one unit	Is	1				EXCLUDED
	Cable TV service serving one unit	Is	1				EXCLUDED
	Telephone service serving one unit	Is	1				EXCLUDED
	Gas service serving one unit	Is	1				EXCLUDED
	Fence on an individual lot	Is	1				EXCLUDED
	Unit interior	Is	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 (\$)
	Landscaping and site grading	ls	1				EXCLUDED
	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 23 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 POLICES, 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.
- **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	2009	\$	Item	2010	\$	Item	2011	\$
No Scheduled Replacements			No Scheduled Replacements			No Scheduled Replacements		
Item	2012	\$	Item	2013	\$	Item	2014	\$
No Scheduled Replacements			No Scheduled Replacements			2	Concrete flatwork (6%)	\$4,362
						23	Asphalt driveway pavement	\$5,256
No Scheduled Replacements			No Scheduled Replacements			Total Scheduled Replacements		\$9,618
Item	2015	\$	Item	2016	\$	Item	2017	\$
No Scheduled Replacements			No Scheduled Replacements			No Scheduled Replacements		
Item	2018	\$	Item	2019	\$	Item	2020	\$
No Scheduled Replacements			23	Asphalt driveway pavement	\$5,256	3	Concrete flatwork (6%)	\$4,362
No Scheduled Replacements			Total Scheduled Replacements		\$5,256	Total Scheduled Replacements		\$4,362
Item	2021	\$	Item	2022	\$	Item	2023	\$
No Scheduled Replacements			No Scheduled Replacements			No Scheduled Replacements		

PROJECTED REPLACEMENTS - YEARS SIXTEEN TO THIRTY

Item	2024	\$
23	Asphalt driveway pavement	\$5,256
Total Scheduled Replacements		\$5,256

Item	2025	\$
1	Pedestal mount mail boxes (\$9,782
Total Scheduled Replacements		\$9,782

Item	2026	\$
4	Concrete flatwork (6%)	\$4,362
Total Scheduled Replacements		\$4,362

Item	2027	\$
22	Asphalt driveway pavement	\$41,464
Total Scheduled Replacements		\$41,464

Item	2028	\$
No Scheduled Replacements		

Item	2029	\$
23	Asphalt driveway pavement	\$5,256
Total Scheduled Replacements		\$5,256

Item	2030	\$
13	Asphalt shingle roof	\$961,780
15	Gutter & downspout	\$86,400
18	Exterior doors	\$238,000
19	Garage doors	\$100,010
21	Exterior lights	\$67,200
Total Scheduled Replacements		\$1,453,390

Item	2031	\$
No Scheduled Replacements		

Item	2032	\$
5	Concrete flatwork (6%)	\$4,362
Total Scheduled Replacements		\$4,362

Item	2033	\$
No Scheduled Replacements		

Item	2034	\$
17	Brick tuckpointing (10%)	\$2,763
23	Asphalt driveway pavement	\$5,256
Total Scheduled Replacements		\$8,019

Item	2035	\$
No Scheduled Replacements		

Item	2036	\$
No Scheduled Replacements		

Item	2037	\$
No Scheduled Replacements		

Item	2038	\$
6	Concrete flatwork (6%)	\$4,362
Total Scheduled Replacements		\$4,362

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CONDITION ASSESSMENT

General Comments. Miller - Dodson Associates conducted a Reserve Study at Townhouses of Bayshore in July 2009. Townhouses of Bayshore is in good condition for a condominium community 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.

The Bayshore community's is a mix of single family homes and townhomes. Each community shares in the maintenance and repairs of common components such as The Clubhouse and swimming pool, storm water drainage ponds, entrance monuments, Bayshore Drive, including curbs and sidewalks (from Longneck Road to intersection at rear of swimming pool) and Bayshore Blvd. (service road).

SITE IMPROVEMENTS

Asphalt Driveway Pavement. In general, the asphalt pavement is in very good condition with no significant cracking, alligating, or deterioration. The Association maintains an inventory of 29,200 square feet of asphalt driveway pavement.

As a rule of thumb, asphalt should be overlaid when approximately five percent of the surface area has become cracked or has failed. The normal service life of asphalt pavement is typically 18 to 20 years.

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



Typical driveway

1. **Crack Sealing.** All cracks should be sealed with an appropriate sealing compound to prevent water infiltration through the asphalt compound into the base. This repair should be done annually. This is an entirely different process from the seal coating discussed below. Crack sealing is normally considered a maintenance activity and is not funded from Reserves. Areas of extensive cracking or deterioration that cannot be made watertight by crack sealing should be cut out and patched.
2. **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 if deterioration has penetrated the asphalt, patched. This is a maintenance activity, and we have assumed that it will not be funded from Reserves.
3. **Seal Coating.** The asphalt should be seal coated every three to five years. For this maintenance activity to be effective in extending the life of the asphalt, the crack sealing and cleaning of the asphalt, discussed above should be done first.

Pricing used in the study is based on a two-inch overlay and reflects the current local market.

Concrete Flatwork. The concrete flatwork includes the unit lead walks and mailbox pads. The Association maintains an inventory of approximately 7,534 square feet of concrete flatwork. The overall condition of the concrete flatwork is good.

The standards we used for recommending replacement are as follows:

1. Trip hazard, 0.5 inch height difference.
2. Severe cracking.
3. Severe spalling

Because it is highly unlikely that all of the community's concrete components will fail and require replacement in the period of the study, we have programmed funds for the replacement of 60% of the inventory and spread those funds over a 60-year timeframe to reflect the incremental nature of this work. This approach assumes a failure rate of 1% per year.

Street Signs. As requested we have included allowances for the replacement of the wooden street signs within the community. When it becomes necessary to replace signs, we recommend the Association consider one of the vinyl post systems instead of the wood construction. These systems are impervious to decay, which occurs even with the pressure treated wood systems. These units have an initial cost 15 to 30 percent greater than wooden units but once installed, they have a service life of 40 years or more.

Retaining Walls - Masonry Segmental Blocks. The Association maintains an inventory of approximately 63 square feet of wood retaining walls. The overall condition of the retaining walls is good with no significant defects.

The industry considers the walls to be maintenance-free for 50 years and estimated normal life to be 80-100 years. If this conclusion is accepted, there is no need to reserve for this very significant component. If, on the other hand, major work must be done on this wall at some point in time because of settlement, erosion, latent construction defects, etc., the cost will be very high. Accordingly, we have included funding for replacement of 30% of this wall at 40 years, which permits the association to accumulate slowly for this eventuality.

Mailboxes. The cluster mailboxes located throughout the community are in good condition. We have assumed that when the mailboxes are replaced, fiberglass units will be installed. Mailbox concrete pads have been included as part of the concrete flatwork line item.



Typical cluster mailbox and concrete pad.

BUILDING EXTERIORS

Townhouse Exteriors. The Association is responsible for the maintenance of the townhouse exteriors. The units are of frame construction with vinyl and brick exterior cladding. Listed below are the major components of the unit exteriors:



Typical front elevation of townhouse unit



Typical rear elevation of townhouse unit

- **Asphalt Shingle Roofing.** The asphalt shingle roofs are in good condition. We have estimated the remaining useful life of the roofs based on the conditions seen at the site as well as the age of the roofs. We have assumed that when the roofs eventually will require replacement, all roofs will be replaced with 25-year roofs. We have assumed that the gutters and downspouts will be replaced when the roofs are replaced.
- **Vinyl Siding and Trim.** The vinyl siding and trim on the buildings is in good overall condition. We have estimated the remaining useful life of the siding based on the conditions seen at the site as well as the age of the siding.
- **Brickwork.** The brickwork on the buildings is in good condition. Brick is usually considered to be a life of structure item and therefore excluded from reserve funding. Because weather and other conditions result in the slow deterioration of the mortar in the brick joints, we have included funding in the Reserve Analysis for tuckpointing. We have assumed that ten percent of the brick will require tuckpointing every ten years.
- **Exterior Doors.** The main entry doors and rear patio doors are of metal and glass construction. Their condition is good. We have assumed a service life of 25 years for this type of door.
- **Windows and Doors.** Windows and doors appear to be operational and weathertight (viewed from the exterior only). We have assumed that when the windows and doors eventually will require replacement, they will be replaced with similar type units and that they will be replaced when the siding is replaced.
- **The garage doors for the units are of metal construction.** Their condition ranges is good. We have assumed a service life of 25 years for this type of door in this location.

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

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 home owner 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, street lights, 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.

Cyclic Replacement Item. A component item that typically begins to fail after an initial period (Estimated Initial Replacement), but which will be replaced in increments over a number of years (the Estimated Replacement Cycle). The Reserve Analysis program divides the number of years in the Estimated Replacement Cycle into five equal increments. It then allocates the Estimated Replacement Cost equally over those five increments. (As distinguished from Normal Replacement Items, see below)

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 Economic Life Left. Used in the Normal Replacement Schedules. Number of years until the item is expected to need replacement. Normally, this number would be considered to be 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.

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, after an expected economic life, is replaced in its entirety. (As distinguished from Cyclic Replacement Items, 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 number 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

6. LIST OF RECOMMENDED REPAIRS - PROCEDURES

A List of Recommended Repairs is offered as a supplemental report to the Replacement Reserve Study (at an additional fee) to assist the Association in understanding the financial implications of all items owned by the Association, not just the items included for funding by Replacement Reserves listed in the Replacement Reserve Inventory. The following information relates to the List of Recommended Repairs:

- Repair costs. Cost range estimates given in the repair list assume that all work by a given trade will be done together as a single project. If repairs are done piece-meal, the costs would be significantly higher. The costs of any repairs to be funded out of the Reserve Fund should be subtracted from the Reserves Currently on Deposit figure. The Board or Property Manager should coordinate this decision with the Reserve Analyst as part of the revision process.
- Completion of repairs. The Replacement Reserve Analysis assumes that all repairs cited in the Repair List will be completed within a twelve-month period of time. Estimated Life Left in the Replacement Reserve Study has been factored under this assumption. Any deletions or delays of the projects included in the List of Recommended Repairs may result in major inaccuracies in the Replacement Reserve Analysis.
- Safety issues. If safety issues have been cited, they should be given the highest priority and should be done immediately upon receipt of this report. The Board must recognize that from a liability standpoint, they have been made aware of the existence of these unsafe conditions, if any, once the report is delivered for their review.
- Unit costs. Nationally published standards and standard estimating manuals have been used in the development of this report. Contractor proposals or actual cost experience may be available as part of the Association records. We will adjust our figures to conform to your experience if the material or information is disclosed to us and/or made available for our use.