

# LEVEL 2 REPLACEMENT RESERVE REPORT FY 2020 DEVON CONDOMINIUM



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DEVON CONDOMINIUM

Community Management by:

**INVESTMENT PROPERTY SERVICE**

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# REPLACEMENT RESERVE REPORT

## DEVON CONDOMINIUM

WILMINGTON, DELAWARE  
February 26, 2020



**Description.** The Devon Condominium is a Residential Condominium, located in Wilmington, Delaware. The community consists of 15 story Highrise Building, and Pool House containing 232 units. The survey examined the common elements of the property, including:

- Entry Roadway and Parking Areas
- Sidewalks
- Fencing, and Site Lighting
- Waterlines and Sanitary Lines
- Storm Water Management
- Exterior Main Pool and Pool House Complex
- Highrise Building Exteriors and Common Areas
- Electrical, Mechanical, and Plumbing System

**Level of Service.** This study has been performed as a Level 2 Update with Site Visit/On-Site Review as defined by the Community Associations Institute's, National Reserve Study Standards. As such, the component inventory is based on the study that was performed by International Consultants Inc. This inventory was adjusted to reflect changes provided by the Community Manager and/or the Board of Directors, or adjustments made based on the site visit and visual assessment performed by the Analyst. The analysis, including fund status and funding plan, is developed from the adjusted inventory.

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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 Devon Condominium (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, Replacement Reserve Analysis evaluates the current funding of Replacement Reserves as reported by the Association and recommends annual funding of Replacement Reserves by the Cash Flow Method. Section A, Replacement Reserve Analysis includes graphic and tabular presentations of the Association's current funding and the recommended funding based on the Cash Flow Method. An Executive Summary of these calculations is provided on Page A1. The alternative Component Method of funding is provided in the Appendix.

**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 February 26, 2020 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 A5 for further details.

**To-Scale Drawings.** Site and building plans were not used in the development of this 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 2020 covering the period from January 1, 2020 to December 31, 2020. The Replacement Reserves on deposit as of January 1, 2020 are reported to be \$1,118,088. The reported current annual funding for reserves is \$385,560.

The balance and contribution figures have been supplied by the managing 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 Dino Peronti who provided very helpful insight into the current operations of the property.

**Analyst's Credentials.** Mr. Gregory S. Gilbert (RS) 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. Greg has also performed over twenty feasibility studies for the U. S. Navy, Boards of Education, and retail developers, which included performing existing condition surveys to address maintenance issues, code violations, and general conditions of the structure to determine if and how the buildings can be renovated or modified. Mr. Gilbert is currently a Reserve Specialist for Miller+Dodson Associates.

Respectfully Submitted,

**millerdodson**  
CAPITAL RESERVE CONSULTANTS

*Greg Gilbert*

Gregory S. Gilbert, RS

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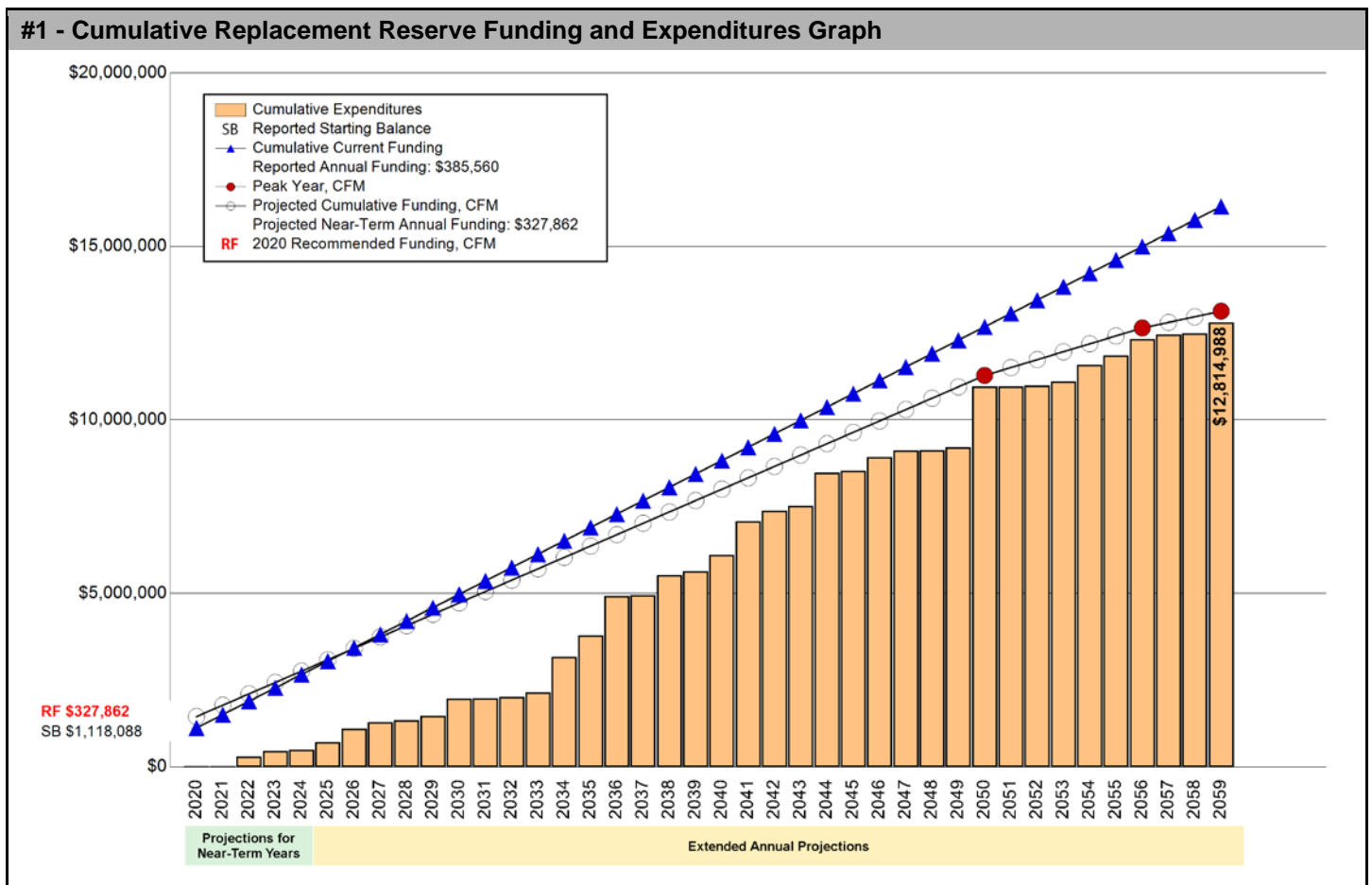
# EXECUTIVE SUMMARY

The Devon Condominium Replacement Reserve Analysis uses the Cash Flow Method (CFM) to calculate Replacement Reserve funding for the periodic replacement of the 139 Projected Replacements identified in the Replacement Reserve Inventory.

**\$327,862** RECOMMENDED REPLACEMENT RESERVE FUNDING FOR THE STUDY YEAR, 2020  
\$117.77 Per unit (average), minimum monthly funding of Replacement Reserves

We recommend the Association adopt a Replacement Reserve Funding Plan based on the annual funding recommendation above. Inflation adjusted funding for subsequent years is shown on Page A.5.

The Devon Condominium reports a Starting Balance of \$1,118,088 and Annual Funding totaling \$385,560. The reported Current Annual Funding of \$385,560 adequately funds projected replacements for the near-term years. See Page A.3 for a more detailed evaluation.



The Current Funding Objective as calculated by the Component Method (Fully Funded) is \$3,117,306 making the reserve account 35.9% funded. See the Appendix for more information on this method.

**REPLACEMENT RESERVE ANALYSIS - GENERAL INFORMATION**

The Devon Condominium Replacement Reserve Analysis calculations of recommended funding of Replacement Reserves by the Cash Flow Method (CFM) and the evaluation of the Current Funding are based upon the same Study Year, Study Period, Beginning Balance, Replacement Reserve Inventory and Level of Service.

**2020 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, 2020.

**40 Years STUDY PERIOD**

The Replacement Reserve Analysis evaluates the funding of Replacement Reserves over a 40-year Study Period

**\$1,118,088 STARTING BALANCE**

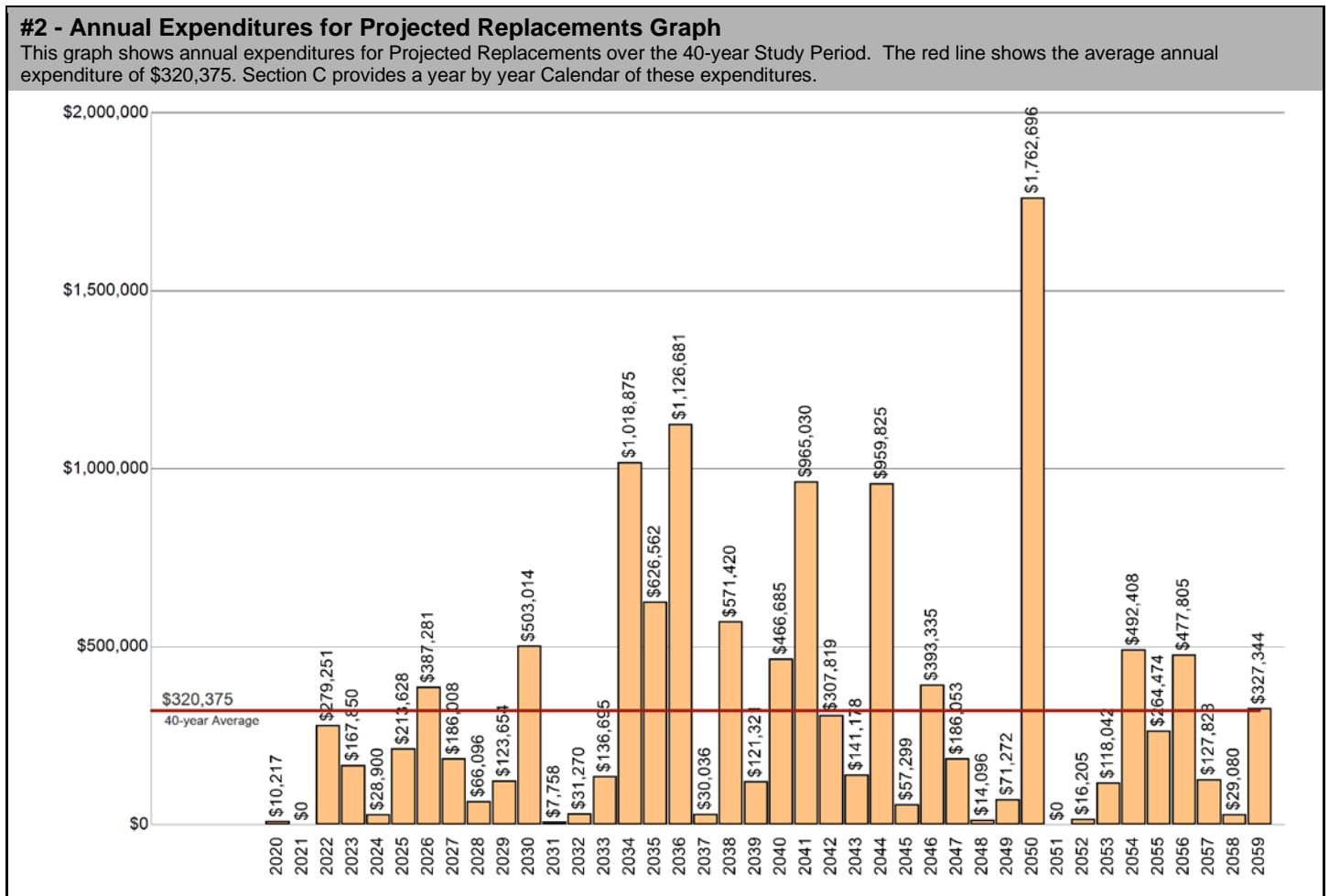
The Association reports Replacement Reserves on Deposit totaling \$1,118,088 at the start of the Study Year.

**Level Two LEVEL OF SERVICE**

The Replacement Reserve Inventory has been developed in compliance with the National Reserve Study Standards for a Level Two Study, as defined by the Community Associations Institute (CAI).

**\$12,814,988 REPLACEMENT RESERVE INVENTORY - PROJECTED REPLACEMENTS**

The Devon Condominium Replacement Reserve Inventory identifies 139 items that will require periodic replacement, which are to be funded from Replacement Reserves. We estimate the cost of these replacements will be \$12,814,988 over the 40-year Study Period. The Projected Replacements are divided into 6 major categories starting on Page B.3. Pages B.1-B.2 provide detailed information on the Replacement Reserve Inventory.





**UPDATING**

**UPDATING OF THE FUNDING PLAN**

The Association has a responsibility to review the Funding Plan annually. The review should include a comparison and evaluation of actual reserve funding with recommended levels shown on Page A.4 and A.5. The Projected Replacements listed on Page C.2 should be compared with any replacements accomplished and funded from Replacement Reserves. Discrepancies should be evaluated and if necessary, the Reserve Study should be updated or a new study commissioned. We recommend annual increases in replacement reserve funding to account for the impact of inflation. Inflation Adjusted Funding is discussed on Page A.5.

**UPDATING OF THE REPLACEMENT RESERVE STUDY**

At a minimum, the Replacement Reserve Study should be professionally updated every three to five years or after completion of a major replacement project. Updating should also be considered if during the annual review of the Funding Plan, discrepancies are noted between projected and actual reserve funding or replacement costs. Updating may also be necessary if there is a meaningful discrepancy between the actual inflation rate and the inflation rate used for the Inflation Adjusted Funding of Replacement Reserves on Page A.5.

**ANNUAL EXPENDITURES AND CURRENT FUNDING**

The annual expenditures that comprise the \$12,814,988 of Projected Expenditures over the 40-year Study Period and the impact of the Association continuing to fund Replacement Reserves at the current level are detailed in Table 3.

| <b>#3 - Table of Annual Expenditures and Current Funding Data - Years 1 through 40</b> |                |                |                |                |                |                |                |                |                |                |
|--|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| Year   | 2020           | 2021           | 2022           | 2023           | 2024           | 2025           | 2026           | 2027           | 2028           | 2029           |
| Starting Balance   | \$1,118,088    |                |                |                |                |                |                |                |                |                |
| Projected Replacements   | (\$10,217)     |                | (\$279,251)    | (\$167,850)    | (\$28,900)     | (\$213,628)    | (\$387,281)    | (\$186,008)    | (\$66,096)     | (\$123,654)    |
| Annual Deposit   | \$385,560      | \$385,560      | \$385,560      | \$385,560      | \$385,560      | \$385,560      | \$385,560      | \$385,560      | \$385,560      | \$385,560      |
| End of Year Balance  | \$1,493,431    | \$1,878,991    | \$1,985,300    | \$2,203,010    | \$2,559,670    | \$2,731,602    | \$2,729,882    | \$2,929,434    | \$3,248,898    | \$3,510,804    |
| Cumulative Expenditures  | (\$10,217)     | (\$10,217)     | (\$289,468)    | (\$457,318)    | (\$486,218)    | (\$699,846)    | (\$1,087,126)  | (\$1,273,134)  | (\$1,339,230)  | (\$1,462,885)  |
| Cumulative Receipts  | \$1,118,088    | \$1,503,648    | \$1,889,208    | \$2,274,768    | \$2,660,328    | \$3,045,888    | \$3,431,448    | \$3,817,008    | \$4,202,568    | \$4,588,128    |
| Year   | 2030           | 2031           | 2032           | 2033           | 2034           | 2035           | 2036           | 2037           | 2038           | 2039           |
| Projected Replacements   | (\$503,014)    | (\$7,758)      | (\$31,270)     | (\$136,695)    | (\$1,018,875)  | (\$626,562)    | (\$1,126,681)  | (\$30,036)     | (\$571,420)    | (\$121,321)    |
| Annual Deposit   | \$385,560      | \$385,560      | \$385,560      | \$385,560      | \$385,560      | \$385,560      | \$385,560      | \$385,560      | \$385,560      | \$385,560      |
| End of Year Balance  | \$3,393,349    | \$3,771,151    | \$4,125,442    | \$4,374,307    | \$3,740,992    | \$3,499,990    | \$2,758,869    | \$3,114,394    | \$2,928,534    | \$3,192,773    |
| Cumulative Expenditures  | (\$1,965,899)  | (\$1,973,657)  | (\$2,004,926)  | (\$2,141,621)  | (\$3,160,496)  | (\$3,787,059)  | (\$4,913,739)  | (\$4,943,774)  | (\$5,515,194)  | (\$5,636,515)  |
| Cumulative Receipts  | \$4,973,688    | \$5,359,248    | \$5,744,808    | \$6,130,368    | \$6,515,928    | \$6,901,488    | \$7,287,048    | \$7,672,608    | \$8,058,168    | \$8,443,728    |
| Year   | 2040           | 2041           | 2042           | 2043           | 2044           | 2045           | 2046           | 2047           | 2048           | 2049           |
| Projected Replacements   | (\$466,685)    | (\$965,030)    | (\$307,819)    | (\$141,178)    | (\$959,825)    | (\$57,299)     | (\$393,335)    | (\$186,053)    | (\$14,096)     | (\$71,272)     |
| Annual Deposit   | \$385,560      | \$385,560      | \$385,560      | \$385,560      | \$385,560      | \$385,560      | \$385,560      | \$385,560      | \$385,560      | \$385,560      |
| End of Year Balance  | \$3,111,648    | \$2,532,178    | \$2,609,919    | \$2,854,301    | \$2,280,037    | \$2,608,298    | \$2,600,523    | \$2,800,030    | \$3,171,494    | \$3,485,782    |
| Cumulative Expenditures  | (\$6,103,200)  | (\$7,068,230)  | (\$7,376,049)  | (\$7,517,227)  | (\$8,477,051)  | (\$8,534,350)  | (\$8,927,685)  | (\$9,113,738)  | (\$9,127,834)  | (\$9,199,106)  |
| Cumulative Receipts  | \$8,829,288    | \$9,214,848    | \$9,600,408    | \$9,985,968    | \$10,371,528   | \$10,757,088   | \$11,142,648   | \$11,528,208   | \$11,913,768   | \$12,299,328   |
| Year   | 2050           | 2052           | 2053           | 2054           | 2055           | 2056           | 2057           | 2058           | 2059           |                |
| Projected Replacements   | (\$1,762,696)  |                | (\$16,205)     | (\$118,042)    | (\$492,408)    | (\$264,474)    | (\$477,805)    | (\$127,828)    | (\$29,080)     | (\$327,344)    |
| Annual Deposit   | \$385,560      | \$385,560      | \$385,560      | \$385,560      | \$385,560      | \$385,560      | \$385,560      | \$385,560      | \$385,560      | \$385,560      |
| End of Year Balance  | \$2,108,646    | \$2,494,206    | \$2,863,561    | \$3,131,079    | \$3,024,232    | \$3,145,318    | \$3,053,073    | \$3,310,805    | \$3,667,285    | \$3,725,500    |
| Cumulative Expenditures  | (\$10,961,802) | (\$10,961,802) | (\$10,978,007) | (\$11,096,049) | (\$11,588,456) | (\$11,852,930) | (\$12,330,736) | (\$12,458,564) | (\$12,487,644) | (\$12,814,988) |
| Cumulative Receipts  | \$12,684,888   | \$13,070,448   | \$13,456,008   | \$13,841,568   | \$14,227,128   | \$14,612,688   | \$14,998,248   | \$15,383,808   | \$15,769,368   | \$16,154,928   |

**EVALUATION OF CURRENT FUNDING**

The evaluation of Current Funding (Starting Balance of \$1,118,088 & annual funding of \$385,560), is done in today's dollars with no adjustments for inflation or interest earned on Replacement Reserves. The evaluation assumes Replacement Reserves will only be used for the 139 Projected Replacements identified in the Replacement Reserve Inventory and that the Association will continue Annual Funding of \$385,560 throughout the 40-year Study Period.

Annual Funding of \$385,560 is approximately 118 percent of the \$327,862 recommended Annual Funding calculated by the Cash Flow Method for 2020, the Study Year.

Evaluation of the 139 Projected Replacements calculates an average annual expenditure over the next 40 years of \$320,375. Annual funding of \$385,560 is 120 percent of the average annual expenditure. Our calculations identify funding shortfalls in 0 years of the Study Period with the initial shortfall in . The largest shortfall, \$1,493,431, occurs in 2020. All shortfalls can be seen and evaluated in Table 3 above.

See the Executive Summary for the Current Funding Statement.

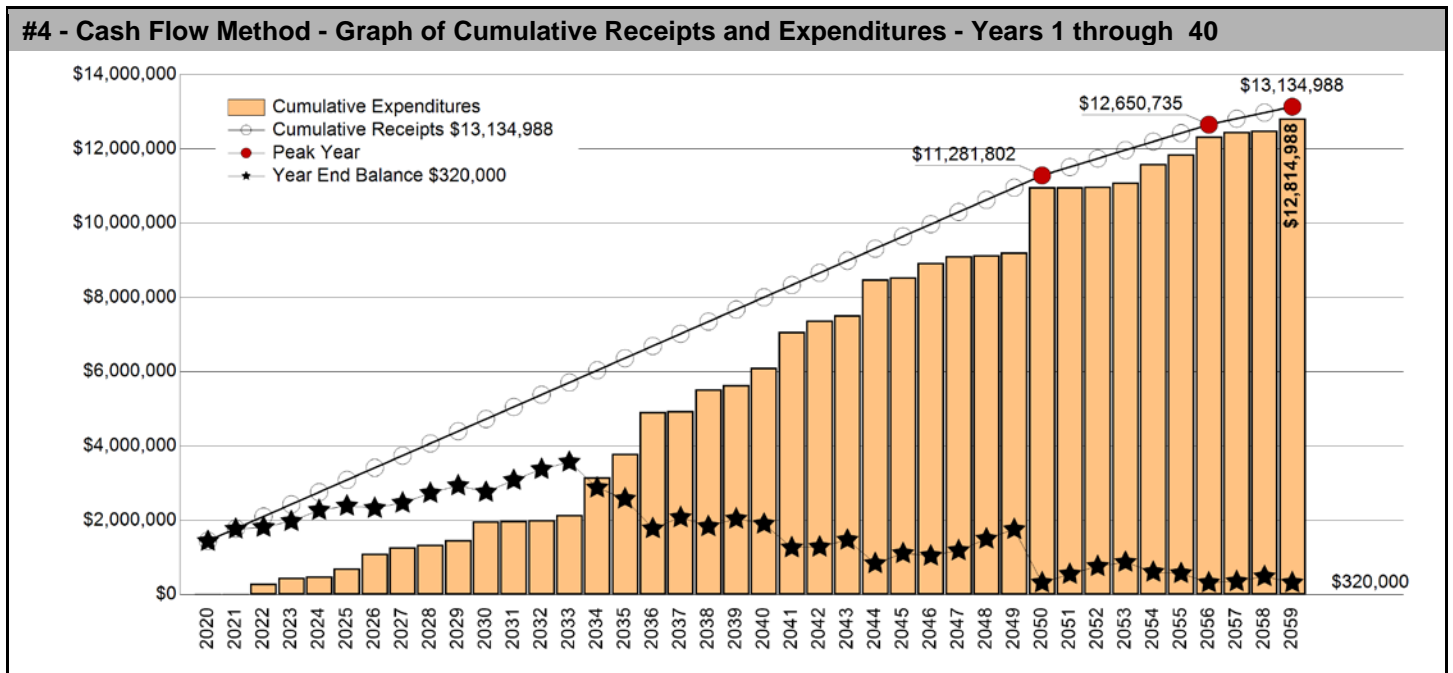
# CASH FLOW METHOD FUNDING

## **\$327,862** RECOMMENDED REPLACEMENT RESERVE FUNDING FOR 2020

\$117.77 Per unit (average), minimum monthly funding of Replacement Reserves

Recommended Replacement Reserve Funding has been calculated using the Cash Flow Method (also called the Straight Line or Threshold Method). This method calculates a constant annual funding between peaks in cumulative expenditures, while maintaining a Minimum Balance (threshold) in the Peak Years.

- **Peak Years.** The First Peak Year occurs in 2050 with Replacement Reserves on Deposit dropping to the Minimum Balance after the completion of \$10,961,802 of replacements from 2020 to 2050. Recommended funding is anticipated to decline in 2051. Peak Years are identified in Chart 4 and Table 5.
- **Minimum Balance.** The calculations assume a Minimum Balance of \$320,000 in Replacement Reserves. This is approximately 12 months of average expenditures based on the \$320,375, 40-year average annual expenditure.
- **Cash Flow Method Study Period.** Cash Flow Method calculates funding for \$12,814,988 of expenditures over the 40-year Study Period. It does not include funding for any projects beyond 2059 and in 2059, the end of year balance will always be the Minimum Balance.



**#5 - Cash Flow Method - Table of Receipts & Expenditures - Years 1 through 40**

| Year                    | 2020            | 2021           | 2022           | 2023           | 2024           | 2025           | 2026            | 2027           | 2028           | 2029            |
|-------------------------|-----------------|----------------|----------------|----------------|----------------|----------------|-----------------|----------------|----------------|-----------------|
| Starting Balance        | \$1,118,088     |                |                |                |                |                |                 |                |                |                 |
| Projected Replacements  | (\$10,217)      |                | (\$279,251)    | (\$167,850)    | (\$28,900)     | (\$213,628)    | (\$387,281)     | (\$186,008)    | (\$66,096)     | (\$123,654)     |
| Annual Deposit          | \$327,862       | \$327,862      | \$327,862      | \$327,862      | \$327,862      | \$327,862      | \$327,862       | \$327,862      | \$327,862      | \$327,862       |
| End of Year Balance     | \$1,435,733     | \$1,763,595    | \$1,812,205    | \$1,972,217    | \$2,271,179    | \$2,385,413    | \$2,325,994     | \$2,467,848    | \$2,729,614    | \$2,933,821     |
| Cumulative Expenditures | (\$10,217)      | (\$10,217)     | (\$289,468)    | (\$457,318)    | (\$486,218)    | (\$699,846)    | (\$1,087,126)   | (\$1,273,134)  | (\$1,339,230)  | (\$1,462,885)   |
| Cumulative Receipts     | \$1,445,950     | \$1,773,812    | \$2,101,673    | \$2,429,535    | \$2,757,397    | \$3,085,259    | \$3,413,120     |                | \$4,068,844    | \$4,396,706     |
| Year                    | 2030            | 2031           | 2032           | 2033           | 2034           | 2035           | 2036            | 2037           | 2038           | 2039            |
| Projected Replacements  | (\$503,014)     | (\$7,758)      | (\$31,270)     | (\$136,695)    | (\$1,018,875)  | (\$626,562)    | (\$1,126,681)   | (\$30,036)     | (\$571,420)    | (\$121,321)     |
| Annual Deposit          | \$327,862       | \$327,862      | \$327,862      | \$327,862      | \$327,862      | \$327,862      | \$327,862       | \$327,862      | \$327,862      | \$327,862       |
| End of Year Balance     | \$2,758,669     | \$3,078,773    | \$3,375,365    | \$3,566,532    | \$2,875,518    | \$2,576,818    | \$1,777,999     | \$2,075,825    | \$1,832,267    | \$2,038,809     |
| Cumulative Expenditures | (\$1,965,899)   | (\$1,973,657)  | (\$2,004,926)  | (\$2,141,621)  | (\$3,160,496)  | (\$3,787,058)  | (\$4,913,739)   | (\$4,943,774)  | (\$5,515,194)  | (\$5,636,515)   |
| Cumulative Receipts     | \$4,724,567     | \$5,052,429    | \$5,380,291    | \$5,708,153    | \$6,036,014    | \$6,363,876    | \$6,691,738     | \$7,019,600    | \$7,347,461    | \$7,675,323     |
| Year                    | 2040            | 2041           | 2042           | 2043           | 2044           | 2045           | 2046            | 2047           | 2048           | 2049            |
| Projected Replacements  | (\$466,685)     | (\$965,030)    | (\$307,819)    | (\$141,178)    | (\$959,825)    | (\$57,299)     | (\$393,335)     | (\$186,053)    | (\$14,096)     | (\$71,272)      |
| Annual Deposit          | \$327,862       | \$327,862      | \$327,862      | \$327,862      | \$327,862      | \$327,862      | \$327,862       | \$327,862      | \$327,862      | \$327,862       |
| End of Year Balance     | \$1,899,985     | \$1,262,817    | \$1,282,859    | \$1,469,543    | \$837,581      | \$1,108,144    | \$1,042,670     | \$1,184,479    | \$1,498,245    | \$1,754,835     |
| Cumulative Expenditures | (\$6,103,200)   | (\$7,068,230)  | (\$7,376,049)  | (\$7,517,227)  | (\$8,477,051)  | (\$8,534,350)  | (\$8,927,685)   | (\$9,113,738)  | (\$9,127,834)  | (\$9,199,106)   |
| Cumulative Receipts     | \$8,003,185     | \$8,331,047    | \$8,658,908    | \$8,986,770    | \$9,314,632    | \$9,642,494    | \$9,970,355     | \$10,298,217   | \$10,626,079   | \$10,953,941    |
| Year                    | 1st Peak - 2050 | 2051           | 2052           | 2053           | 2054           | 2055           | 2nd Peak - 2056 | 2057           | 2058           | 3rd Peak - 2059 |
| Projected Replacements  | (\$1,762,696)   |                | (\$16,205)     | (\$118,042)    | (\$492,408)    | (\$264,474)    | (\$477,805)     | (\$127,828)    | (\$29,080)     | (\$327,344)     |
| Annual Deposit          | \$327,862       | \$228,156      | \$228,156      | \$228,156      | \$228,156      | \$228,156      | \$228,156       | \$161,417      | \$161,417      | \$161,417       |
| End of Year Balance     | \$320,000       | \$548,156      | \$760,106      | \$870,220      | \$605,968      | \$569,650      | \$320,000       | \$353,589      | \$485,927      | \$320,000       |
| Cumulative Expenditures | (\$10,961,802)  | (\$10,961,802) | (\$10,978,007) | (\$11,096,049) | (\$11,588,456) | (\$11,852,930) | (\$12,330,736)  | (\$12,458,564) | (\$12,487,644) | (\$12,814,988)  |
| Cumulative Receipts     | \$11,281,802    | \$11,509,958   | \$11,738,113   | \$11,966,269   | \$12,194,424   | \$12,422,580   | \$12,650,735    | \$12,812,153   | \$12,973,570   | \$13,134,988    |

## INFLATION ADJUSTED FUNDING

The Cash Flow Method calculations on Page A4 have been done in today's dollars with no adjustment for inflation. At Miller+Dodson, we believe that long-term inflation forecasting is effective at demonstrating the power of compounding, not at calculating appropriate funding levels for Replacement Reserves. We have developed this proprietary model to estimate the short-term impact of inflation on Replacement Reserve funding.

### **\$327,862** 2020 - CASH FLOW METHOD RECOMMENDED FUNDING

The 2020 Study Year calculations have been made using current replacement costs (see Page B.2), modified by the Analyst for any project specific conditions.

### **\$335,403** 2021 - INFLATION ADJUSTED FUNDING

A new analysis calculates the 2021 funding based on three assumptions:

- Replacement Reserves on Deposit totaling \$1,435,733 on January 1, 2021.
- All 2020 Projected Replacements listed on Page C.2 accomplished at a cost to Replacement Reserves less than \$10,217.
- Construction Cost Inflation of 2.30 percent in 2020.

The \$335,403 inflation adjusted funding in 2021 is a 2.30 percent increase over the non-inflation adjusted funding of \$327,862.

### **\$343,117** 2022 - INFLATION ADJUSTED FUNDING

A new analysis calculates the 2022 funding based on three assumptions:

- Replacement Reserves on Deposit totaling \$1,778,491 on January 1, 2022.
- No Expenditures from Replacement Reserves in 2021.
- Construction Cost Inflation of 2.30 percent in 2021.

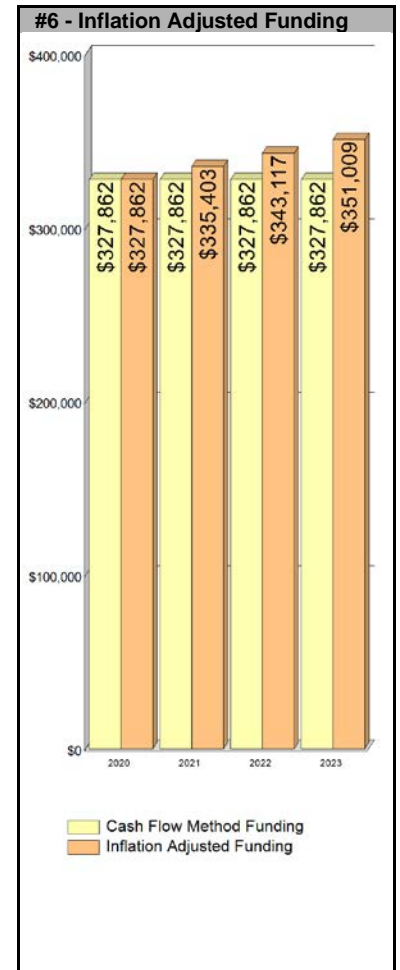
The \$343,117 inflation adjusted funding in 2022 is a 4.65 percent increase over the non-inflation adjusted funding of \$327,862.

### **\$351,009** 2023 - INFLATION ADJUSTED FUNDING

A new analysis calculates the 2023 funding based on three assumptions:

- Replacement Reserves on Deposit totaling \$1,844,353 on January 1, 2023.
- All 2022 Projected Replacements listed on Page C.2 accomplished at a cost to Replacement Reserves less than \$285,978.
- Construction Cost Inflation of 2.30 percent in 2022.

The \$351,009 inflation adjusted funding in 2023 is a 7.05 percent increase over the non-inflation adjusted funding of \$327,862.



### Year Five and Beyond

The inflation adjusted funding calculations outlined above are not intended to be a substitute for periodic evaluation of common elements by an experienced Reserve Analyst. Industry Standards, lender requirements, and many state and local statutes require a Replacement Reserve Study be professionally updated every 3 to 5 years.

### Inflation Adjustment

Prior to approving a budget based upon the 2021, 2022 and 2023 inflation adjusted funding calculations above, the 2.30 percent base rate of inflation used in our calculations should be compared to rates published by the Bureau of Labor Statistics. If there is a significant discrepancy (over 1 percent), contact Miller+Dodson Associates prior to using the Inflation Adjusted Funding.

### Interest on Reserves

The recommended funding calculations do not account for interest earned on Replacement Reserves. In 2020, based on a 1.00 percent interest rate, we estimate the Association may earn \$12,769 on an average balance of \$1,276,910, \$16,071 on an average balance of \$1,607,112 in 2021, and \$18,114 on \$1,811,422 in 2022. The Association may elect to attribute 100 percent of the earned interest to Reserves, resulting in a reduction in the 2020 funding from \$327,862 to \$315,093 (a 3.89 percent reduction), \$335,403 to \$319,331 in 2021 (a 4.79 percent reduction), and \$343,117 to \$325,003 in 2022 (a 5.27 percent reduction).

## **REPLACEMENT RESERVE STUDY - SUPPLEMENTAL COMMENTS**

- The Cash Flow Method calculates the minimum annual funding necessary to prevent Replacement Reserves from dropping below the Minimum Balance. Failure to fund at least the recommended levels may result in funding not being available for the Projected Replacements listed in the Replacement Reserve Inventory.
- The accuracy of the Replacement Reserve Analysis is dependent upon expenditures from Replacement Reserves being made ONLY for the 139 Projected Replacements specifically listed in the Replacement Reserve Inventory. The inclusion/exclusion of items from the Replacement Reserve Inventory is discussed on Page B.1.

## REPLACEMENT RESERVE INVENTORY GENERAL INFORMATION

The Devon Condominium - Replacement Reserve Inventory identifies 139 Projected Replacements.

- **PROJECTED REPLACEMENTS.** 139 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 \$7,908,715. Replacements totaling \$12,814,988 are scheduled in the Replacement Reserve Inventory over the 40-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.** None of the items included in the Replacement Reserve Inventory are 'Excluded Items'. Multiple categories of items 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 should reflect Association policy on the administration of Replacement Reserves. If the Association has selected an alternative level, it will be noted in the Replacement Reserve Inventory - General Comments on Page B.2.

**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 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.

- **CATEGORIES.** The 139 items included in the Devon Condominium Replacement Reserve Inventory are divided into 6 major categories. Each category is printed on a separate page, beginning on page B.3.
- **LEVEL OF SERVICE.** This Replacement Reserve Inventory has been developed in compliance with the standards established for a Level Two Update, as defined by the National Reserve Study Standards, established in 1998 by Community Associations Institute, which states:

*This study has been performed as a Level 2 Update with Site Visit/On-Site Review as defined by the Community Associations Institute's, National Reserve Study Standards. As such, the component inventory is based on the study that was performed by International Consultants Inc. . This inventory was adjusted to reflect changes provided by the Community Manager and/or the Board of Directors, or adjustments made based on the site visit and visual assessment performed by the Analyst. The analysis, including fund status and funding plan, is developed from the adjusted inventory.*

## REPLACEMENT RESERVE INVENTORY - GENERAL INFORMATION (CONT'D)

- **INVENTORY DATA.** Each of the 139 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 identified each item included in the Inventory. Additional information may be included in the Comments section at the bottom of each page of the Inventory.
  - 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. Non-standard abbreviations are noted in the Comments section at the bottom of the page.
  - Number of Units. The methods used to develop the quantities are discussed in "Level of Service" above.
  - Unit Replacement Cost. We use four sources to develop the unit cost data shown in the Inventory; actual replacement cost data provided by the client, information provided by local contractors and suppliers, industry standard estimating manuals, and a cost database we have developed based upon our detailed interviews with contractors and service providers who are specialists in their respective lines of work.
  - Normal Economic Life (Years). The number of years that a new and properly installed item should be expected to remain in service.
  - Remaining Economic Life (Years). 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.
- **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 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.

| SITE ITEMS<br>PROJECTED REPLACEMENTS |  |      |                 |                            | NEL- Normal Economic Life (yrs)<br>REL- Remaining Economic Life (yrs) |      |                       |
|--------------------------------------|--|------|-----------------|----------------------------|---|------|-----------------------|
| ITEM #                               | ITEM DESCRIPTION                       | UNIT | NUMBER OF UNITS | UNIT REPLACEMENT COST (\$) | NEL   | REL  | REPLACEMENT COST (\$) |
| 1                                    | Asphalt pavement, mill & overlay       | sf   | 46,440          | \$1.68                     | 20  | 2    | \$78,019              |
| 2                                    | Asphalt pavement, seal coat            | sf   | 46,440          | \$0.22                     | 5   | none | \$10,217              |
| 3                                    | Concrete curb & gutter, barrier (6%)   | ft   | 152             | \$35.50                    | 6   | 12   | \$5,396               |
| 4                                    | Concrete flatwork (6%)                 | sf   | 715             | \$10.85                    | 6   | 5    | \$7,758               |
| 5                                    | Concrete steps                         | ft   | 120             | \$74.50                    | 30  | 10   | \$8,940               |
| 6                                    | Retaining wall, CMU (repoint)          | sf   | 90              | \$9.50                     | 10  | 5    | \$855                 |
| 7                                    | Retaining wall, CMU (25%)              | sf   | 225             | \$48.50                    | 30  | 15   | \$10,913              |
| 8                                    | Metal guardrail w/ metal post          | ft   | 106             | \$25.90                    | 40  | 22   | \$2,745               |
| 9                                    | Fence, 3' vinyl picket                 | ft   | 64              | \$21.80                    | 40  | 35   | \$1,395               |
| 10                                   | Fence, 3' decorative aluminum          | ft   | 82              | \$38.70                    | 45  | 26   | \$3,173               |
| 11                                   | Fence, 4' vinyl coated chain link      | ft   | 700             | \$13.40                    | 45  | 26   | \$9,380               |
| 12                                   | Site light, standard single head       | ea   | 41              | \$500.00                   | 20  | 7    | \$20,500              |
| 13                                   | Site light, 12' aluminum pole          | ea   | 41              | \$2,450.00                 | 30  | 7    | \$100,450             |
| 14                                   | Domestic water main (10%)              | ls   | 1               | \$20,000.00                | 20  | 15   | \$20,000              |
| 15                                   | Sanitary main (10%)                    | ls   | 1               | \$10,000.00                | 20  | 15   | \$10,000              |
| 16                                   | Storm water management (10% allowance) | ls   | 1               | \$40,000.00                | 20  | 10   | \$40,000              |
| 17                                   | Irrigation, system                     | ls   | 1               | \$15,000.00                | 10  | 10   | \$15,000              |
| 18                                   | Bench                                  | ea   | 6               | \$850.00                   | 15  | 7    | \$5,100               |
| Replacement Costs - Page Subtotal    |  |      |                 |                            |   |      | \$349,841             |

| COMMENTS |
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| EXTERIOR ITEMS - MAIN BUILDING    |                                      |      |                 |                            | NEL- Normal Economic Life (yrs)    |     | REPLACEMENT COST (\$) |
|-----------------------------------|--------------------------------------|------|-----------------|----------------------------|------------------------------------|-----|-----------------------|
| PROJECTED REPLACEMENTS            |                                      |      |                 |                            | REL- Remaining Economic Life (yrs) |     |                       |
| ITEM #                            | ITEM DESCRIPTION                     | UNIT | NUMBER OF UNITS | UNIT REPLACEMENT COST (\$) | NEL                                | REL | REPLACEMENT COST (\$) |
| 19                                | Roofing, flat membrane (TPO)         | sf   | 18,900          | \$22.00                    | 20                                 | 14  | \$415,800             |
| 20                                | Roofing, flat membrane (TPO), canopy | sf   | 1,370           | \$22.00                    | 20                                 | 14  | \$30,140              |
| 21                                | Flashing and cap work                | sf   | 150             | \$55.90                    | 20                                 | 14  | \$8,385               |
| 22                                | Skylight, glass vision panel, canopy | ea   | 5               | \$1,900.00                 | 30                                 | 14  | \$9,500               |
| 23                                | Soffit , canopy                      | sf   | 1,370           | \$11.00                    | 20                                 | 14  | \$15,070              |
| 24                                | Masonry (10% repointing allowance)   | ls   | 1               | \$400,000.00               | 10                                 | 10  | \$400,000             |
| 25                                | Store front, curtain wall, replace   | sf   | 200             | \$73.60                    | 80                                 | 39  | \$14,720              |
| 26                                | Store front, curtain wall, refurbish | sf   | 200             | \$19.60                    | 20                                 | 9   | \$3,920               |
| 27                                | Door, aluminum & glass (3' X7')      | ea   | 4               | \$1,380.00                 | 35                                 | 22  | \$5,520               |
| 28                                | Door, steel, flush (3' X 6'8")       | ea   | 6               | \$960.00                   | 25                                 | 15  | \$5,760               |
| 29                                | Awning, stationary (replace)         | sf   | 100             | \$50.30                    | 40                                 | 15  | \$5,030               |
| 30                                | Awning, refurbish structure          | sf   | 100             | \$6.80                     | 20                                 | 15  | \$680                 |
| 31                                | Awning, refabricate                  | sf   | 100             | \$36.00                    | 10                                 | 5   | \$3,600               |
| 32                                | Balcony, concrete resurface (20%)    | sf   | 3,292           | \$15.10                    | 10                                 | 9   | \$49,709              |
| 33                                | Balcony, aluminum railing (20%)      | ft   | 470             | \$56.00                    | 35                                 | 9   | \$26,320              |
| 34                                | Garage door                          | ea   | 1               | \$37,000.00                | 15                                 | 9   | \$37,000              |
| Replacement Costs - Page Subtotal |                                      |      |                 |                            |                                    |     | \$1,031,154           |

| COMMENTS |
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| INTERIOR ITEMS - MAIN BUILDING<br>PROJECTED REPLACEMENTS |  |      |                 |                            | NEL- Normal Economic Life (yrs)<br>REL- Remaining Economic Life (yrs) |     |                       |
|--|--|------|-----------------|----------------------------|---|-----|-----------------------|
| ITEM #   | ITEM DESCRIPTION                                 | UNIT | NUMBER OF UNITS | UNIT REPLACEMENT COST (\$) | NEL   | REL | REPLACEMENT COST (\$) |
| 35   | Mailbox, interior cluster, recessed              | ea   | 232             | \$75.00                    | 40  | 39  | \$17,400              |
| 36   | Hallway, redecorate                              | ls   | 1               | \$24,000.00                | 20  | 16  | \$24,000              |
| 37   | Hallway, refurbish                               | sf   | 22,480          | \$6.00                     | 10  | 6   | \$134,880             |
| 38   | Flooring, carpet                                 | sf   | 22,480          | \$7.85                     | 10  | 6   | \$176,468             |
| 39   | Flooring, vinyl tile                             | sf   | 3,527           | \$4.50                     | 14  | 5   | \$15,872              |
| 40   | Flooring, wood laminate, replace                 | sf   | 12,144          | \$15.50                    | 20  | 2   | \$188,232             |
| 41   | Ceiling, suspended                               | sf   | 21,903          | \$5.85                     | 20  | 16  | \$128,133             |
| 42   | Interior fire door & frame, flush                | ea   | 48              | \$1,230.00                 | 35  | 21  | \$59,040              |
| 43   | Interior door & frame, metal - flush             | ea   | 111             | \$980.00                   | 35  | 21  | \$108,780             |
| 44   | Trash chute door                                 | ea   | 14              | \$580.00                   | 35  | 21  | \$8,120               |
| 45   | Building entry system                            | ea   | 1               | \$12,180.00                | 20  | 13  | \$12,180              |
| 46   | Building directory                               | ea   | 1               | \$1,580.00                 | 25  | 13  | \$1,580               |
| 47   | Security camera (IP)                             | ea   | 5               | \$280.00                   | 15  | 3   | \$1,400               |
| 48   | Security video recorder (IP 8 channel - digital) | ea   | 1               | \$8,530.00                 | 15  | 3   | \$8,530               |
| 49   | Exit sign  | ea   | 79              | \$120.00                   | 14  | 13  | \$9,480               |
| 50   | Emergency lighting                               | ea   | 129             | \$95.00                    | 14  | 13  | \$12,255              |
| 51   | Interior lighting, florescent                    | ea   | 22              | \$105.00                   | 21  | 13  | \$2,310               |
| 52   | Interior lighting, recessed                      | ea   | 44              | \$1,210.00                 | 14  | 13  | \$53,240              |
| 53   | Interior lighting, chandelier                    | ea   | 1               | \$290.00                   | 14  | 13  | \$290                 |
| 54   | Interior lighting, wall sconce                   | ea   | 270             | \$146.00                   | 14  | 13  | \$39,420              |
| 55   | Garage lighting                                  | ea   | 42              | \$130.00                   | 21  | 18  | \$5,460               |
| 56   | Sofa   | ea   | 1               | \$830.00                   | 14  | 7   | \$830                 |
| 57   | Upholstered chair, large                         | ea   | 5               | \$560.00                   | 14  | 7   | \$2,800               |
| 58   | Chair  | ea   | 10              | \$180.00                   | 14  | 7   | \$1,800               |
| Replacement Costs - Page Subtotal                        |  |      |                 |                            |   |     | \$1,012,499           |

| COMMENTS |
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| INTERIOR ITEMS - MAIN BUILDING - (cont.) |                             |      |                 |                            |     | NEL- Normal Economic Life (yrs)    |                       | REPLACEMENT COST (\$) |
|--|-----------------------------|------|-----------------|----------------------------|-----|------------------------------------|-----------------------|-----------------------|
| PROJECTED REPLACEMENTS                   |                             |      |                 |                            |     | REL- Remaining Economic Life (yrs) |                       |                       |
| ITEM #                                   | ITEM DESCRIPTION            | UNIT | NUMBER OF UNITS | UNIT REPLACEMENT COST (\$) | NEL | REL                                | REPLACEMENT COST (\$) |                       |
| 59                                       | Benches                     | ea   | 5               | \$250.00                   | 20  | 13                                 | \$1,250               |                       |
| 60                                       | End table                   | ea   | 4               | \$275.00                   | 14  | 7                                  | \$1,100               |                       |
| 61                                       | Table lamp                  | ea   | 4               | \$150.00                   | 10  | 7                                  | \$600                 |                       |
| 62                                       | Table                       | ea   | 3               | \$390.00                   | 14  | 7                                  | \$1,170               |                       |
| 63                                       | Area rug, large (12' x 15') | ea   | 3               | \$950.00                   | 10  | 7                                  | \$2,850               |                       |
| 64                                       | Buffet w/ drawers           | ea   | 2               | \$695.00                   | 14  | 7                                  | \$1,390               |                       |
| 65                                       | Office, desk wood           | ea   | 1               | \$960.00                   | 21  | 12                                 | \$960                 |                       |
| 66                                       | Office, desk chair          | ea   | 1               | \$340.00                   | 14  | 12                                 | \$340                 |                       |
| 67                                       | Office, side chair          | ea   | 1               | \$90.00                    | 14  | 12                                 | \$90                  |                       |
| 68                                       | Office, credenza            | ea   | 1               | \$1,350.00                 | 21  | 12                                 | \$1,350               |                       |
| 69                                       | Sink, fixture & mirror      | ea   | 4               | \$200.00                   | 10  | 12                                 | \$800                 |                       |
| 70                                       | Toilet & stall              | ea   | 3               | \$1,000.00                 | 20  | 12                                 | \$3,000               |                       |
| 71                                       | Urinal & partition          | ea   | 1               | \$300.00                   | 20  | 12                                 | \$300                 |                       |
| 72                                       | Shower, stall               | ea   | 2               | \$1,200.00                 | 20  | 12                                 | \$2,400               |                       |
| 73                                       | Shower, fixtures            | ea   | 2               | \$350.00                   | 10  | 12                                 | \$700                 |                       |
| 74                                       | Locker, half height metal   | ea   | 4               | \$45.00                    | 20  | 12                                 | \$180                 |                       |
| 75                                       | Locker, full height metal   | ea   | 11              | \$75.00                    | 20  | 12                                 | \$825                 |                       |
| 76                                       | Garage, floor coating       | ls   | 1               | \$6,000.00                 | 10  | 2                                  | \$6,000               |                       |
| 77                                       | Garage, roof/ceiling repair | ls   | 1               | \$2,000.00                 | 2   | 2                                  | \$2,000               |                       |
| Replacement Costs - Page Subtotal        |                             |      |                 |                            |     |                                    | \$27,305              |                       |

| COMMENTS |
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| <b>BUILDING SYSTEMS</b>                  |   |      |                 |                            |     | <b>NEL- Normal Economic Life (yrs)</b>    |                       |  |
|--|---|------|-----------------|----------------------------|-----|---|-----------------------|--|
| <b>PROJECTED REPLACEMENTS</b>            |   |      |                 |                            |     | <b>REL- Remaining Economic Life (yrs)</b> |                       |  |
| ITEM #                                   | ITEM DESCRIPTION                        | UNIT | NUMBER OF UNITS | UNIT REPLACEMENT COST (\$) | NEL | REL                                       | REPLACEMENT COST (\$) |  |
| 78                                       | Elevator cab & door, passenger          | ea   | 3               | \$67,000.00                | 25  | 16  | \$201,000             |  |
| 79                                       | Elevator, traction passenger controls   | ea   | 3               | \$88,800.00                | 25  | 16  | \$266,400             |  |
| 80                                       | Elevator, traction passenger mechanical | ea   | 3               | \$64,600.00                | 25  | 16  | \$193,800             |  |
| 81                                       | Exhaust fan                             | ea   | 9               | \$2,200.00                 | 20  | 15  | \$19,800              |  |
| 82                                       | Garage exhaust fan                      | ea   | 2               | \$1,550.00                 | 20  | 19  | \$3,100               |  |
| 83                                       | Package air-handling unit, (2,000 CFM)  | ea   | 1               | \$26,900.00                | 20  | 4   | \$26,900              |  |
| 84                                       | Cooling tower (1500 ton) replace        | ea   | 1               | \$195,000.00               | 30  | 18  | \$195,000             |  |
| 85                                       | Cooling tower, controls                 | ea   | 1               | \$28,000.00                | 30  | 14  | \$28,000              |  |
| 86                                       | Hallway, ventilation                    | ls   | 1               | \$55,000.00                | 20  | 3   | \$55,000              |  |
| 87                                       | Centrifugal chiller                     | ea   | 2               | \$250,900.00               | 30  | 14  | \$501,800             |  |
| 88                                       | Circulation pumps, (50 hp)              | ea   | 3               | \$15,350.00                | 20  | 7   | \$46,050              |  |
| 89                                       | Boiler, gas,                            | ea   | 5               | \$155,600.00               | 40  | 21  | \$778,000             |  |
| 90                                       | Boiler, gas, water heater               | ea   | 3               | \$95,600.00                | 40  | 18  | \$286,800             |  |
| 91                                       | Hot water, storage                      | ea   | 1               | \$2,000.00                 | 30  | 18  | \$2,000               |  |
| 92                                       | Building piping, allowance (copper)     | unit | 232             | \$3,800.00                 | 40  | 24  | \$881,600             |  |
| 93                                       | Domestic water, treatment               | ls   | 1               | \$45,000.00                | 15  | 3   | \$45,000              |  |
| 94                                       | Domestic water booster pump             | ea   | 1               | \$13,300.00                | 15  | 5   | \$13,300              |  |
| 95                                       | Fire alarm station, complete            | ea   | 1               | \$325.00                   | 30  | 19  | \$325                 |  |
| 96                                       | Fire alarm pull                         | ea   | 54              | \$45.00                    | 30  | 19  | \$2,430               |  |
| 97                                       | Fire alarm light, bell & horn           | ea   | 102             | \$90.00                    | 30  | 19  | \$9,180               |  |
| 98                                       | Fire annunciator sys, high-rise         | ea   | 1               | \$14,500.00                | 30  | 19  | \$14,500              |  |
| 99                                       | Smoke alarm                             | ea   | 140             | \$125.00                   | 30  | 19  | \$17,500              |  |
| 100                                      | Boiler room alarm                       | ls   | 1               | \$20,000.00                | 15  | 5   | \$20,000              |  |
| 101                                      | Fire pump, 50hp, 1000 GPM               | ea   | 1               | \$37,200.00                | 20  | 3   | \$37,200              |  |
| <b>Replacement Costs - Page Subtotal</b> |   |      |                 |                            |     |   | <b>\$3,644,685</b>    |  |

| <b>COMMENTS</b> |  |  |  |  |  |  |  |
|-----------------|--|--|--|--|--|--|--|
|                 |  |  |  |  |  |  |  |

| <b>BUILDING SYSTEMS - (cont.)</b> |                                     |      |                 |                            |     | <b>NEL- Normal Economic Life (yrs)</b>    |                       |  |
|-----------------------------------|-------------------------------------|------|-----------------|----------------------------|-----|---|-----------------------|--|
| <b>PROJECTED REPLACEMENTS</b>     |                                     |      |                 |                            |     | <b>REL- Remaining Economic Life (yrs)</b> |                       |  |
| ITEM #                            | ITEM DESCRIPTION                    | UNIT | NUMBER OF UNITS | UNIT REPLACEMENT COST (\$) | NEL | REL                                       | REPLACEMENT COST (\$) |  |
| 102                               | Fire pump, control                  | ea   | 1               | \$16,000.00                | 20  | 3   | \$16,000              |  |
| 103                               | Jockey pump, 3hp                    | ea   | 1               | \$4,720.00                 | 20  | 3   | \$4,720               |  |
| 104                               | Sprinkler system, control valve     | ea   | 1               | \$270.00                   | 30  | 13  | \$270                 |  |
| 105                               | Sprinkler back flow preventer, 2.5" | ea   | 1               | \$4,420.00                 | 30  | 13  | \$4,420               |  |
| 106                               | Trash compactor, 1 cy               | ea   | 1               | \$20,500.00                | 15  | 8   | \$20,500              |  |
| 107                               | Sump pump                           | ea   | 1               | \$2,000.00                 | 25  | 21  | \$2,000               |  |
| 108                               | Oil tank                            | ea   | 1               | \$100,000.00               | 30  | 5   | \$100,000             |  |
| 109                               | Electric switchgear                 | ea   | 1               | \$285,000.00               | 40  | 30  | \$285,000             |  |
| 110                               | Electrical, distribution            | ls   | 1               | \$500,000.00               | 40  | 30  | \$500,000             |  |
| 111                               | Electrical, secondary               | ls   | 1               | \$485,000.00               | 15  | 15  | \$485,000             |  |
| Replacement Costs - Page Subtotal |                                     |      |                 |                            |     |   | \$1,417,910           |  |

| <b>COMMENTS</b> |
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| <b>POOL HOUSE</b>                 |   |      |                 |                            |     |   |                       |  |  |
|-----------------------------------|---|------|-----------------|----------------------------|-----|---|-----------------------|--|--|
| <b>PROJECTED REPLACEMENTS</b>     |   |      |                 |                            |     |   |                       |  |  |
|                                   |   |      |                 |                            |     | <b>NEL- Normal Economic Life (yrs)</b>    |                       |  |  |
|                                   |   |      |                 |                            |     | <b>REL- Remaining Economic Life (yrs)</b> |                       |  |  |
| ITEM #                            | ITEM DESCRIPTION                        | UNIT | NUMBER OF UNITS | UNIT REPLACEMENT COST (\$) | NEL | REL                                       | REPLACEMENT COST (\$) |  |  |
| 112                               | Roofing, flat membrane (EPDM)           | sf   | 2,730           | \$22.00                    | 20  | 6   | \$60,060              |  |  |
| 113                               | Soffit & trim, vinyl                    | sf   | 240             | \$8.10                     | 20  | 6   | \$1,944               |  |  |
| 114                               | Masonry (repointing allowance)          | ls   | 1               | \$3,000.00                 | 10  | 10  | \$3,000               |  |  |
| 115                               | Window, operating                       | ea   | 10              | \$790.50                   | 40  | 18  | \$7,905               |  |  |
| 116                               | Door, flush (3' X 6'8"), pool           | ea   | 25              | \$1,260.00                 | 25  | 8   | \$31,500              |  |  |
| 117                               | Flooring, carpet, cabana                | sf   | 1,300           | \$4.85                     | 10  | 9   | \$6,305               |  |  |
| 118                               | Sink, fixture & mirror, pool            | ea   | 2               | \$200.00                   | 10  | 9   | \$400                 |  |  |
| 119                               | Toilet, pool                            | ea   | 2               | \$1,000.00                 | 20  | 19  | \$2,000               |  |  |
| 120                               | Concrete steps (6%), pool               | ft   | 93              | \$74.50                    | 6   | 6   | \$6,929               |  |  |
| 121                               | Retaining wall, concrete (repair), pool | sf   | 360             | \$33.60                    | 20  | 8   | \$12,096              |  |  |
| Replacement Costs - Page Subtotal |   |      |                 |                            |     |   | \$132,139             |  |  |

| <b>COMMENTS</b> |
|-----------------|
|                 |

| RECREATION ITEMS<br>PROJECTED REPLACEMENTS |  |      |                 |                            | NEL- Normal Economic Life (yrs)<br>REL- Remaining Economic Life (yrs) |     |                       |
|--|--|------|-----------------|----------------------------|---|-----|-----------------------|
| ITEM #                                     | ITEM DESCRIPTION                       | UNIT | NUMBER OF UNITS | UNIT REPLACEMENT COST (\$) | NEL   | REL | REPLACEMENT COST (\$) |
| 122  | Swimming pool structure                | sf   | 2,125           | \$90.00                    | 60  | 39  | \$191,250             |
| 123  | Swimming pool, whitecoat               | sf   | 2,955           | \$6.10                     | 10  | 5   | \$18,026              |
| 124  | Swimming pool waterline tile (6x6)     | ft   | 195             | \$10.75                    | 10  | 5   | \$2,096               |
| 125  | Swimming pool coping, precast concrete | ft   | 195             | \$29.50                    | 20  | 15  | \$5,753               |
| 126  | Pool cover, safety mesh                | sf   | 2,175           | \$6.30                     | 12  | 10  | \$13,703              |
| 127  | Pool deck, concrete (25%)              | sf   | 1,800           | \$11.50                    | 10  | 5   | \$20,700              |
| 128  | Pool pump (3/4 hp)                     | ea   | 1               | \$830.00                   | 5   | 5   | \$830                 |
| 129  | Pool filter, Sand (19")                | ea   | 3               | \$780.00                   | 15  | 14  | \$2,340               |
| 130  | Chemical tank                          | ea   | 3               | \$280.00                   | 15  | 14  | \$840                 |
| 131  | Chemical feed pump                     | ea   | 1               | \$375.00                   | 5   | 5   | \$375                 |
| 132  | Pool, eyewash                          | ea   | 1               | \$600.00                   | 30  | 25  | \$600                 |
| 133  | Pool ladder (4 step)                   | ea   | 2               | \$1,075.00                 | 20  | 10  | \$2,150               |
| 134  | Safety rail                            | ea   | 4               | \$450.00                   | 20  | 10  | \$1,800               |
| 135  | Pool furniture                         | ls   | 1               | \$5,000.00                 | 4   | 2   | \$5,000               |
| 136  | Retaining wall, CMU (repoint), pool    | sf   | 144             | \$9.50                     | 10  | 7   | \$1,368               |
| 137  | Retaining wall, CMU (25%), pool        | sf   | 360             | \$48.50                    | 20  | 17  | \$17,460              |
| 138  | Concrete steps , pool                  | ft   | 93              | \$74.50                    | 30  | 15  | \$6,929               |
| 139  | Fence, 8' chain link, pool             | ft   | 105             | \$18.70                    | 30  | 20  | \$1,964               |
| Replacement Costs - Page Subtotal          |  |      |                 |                            |   |     | \$293,182             |

| COMMENTS |
|----------|
|          |

| LONG-LIFE EXCLUSIONS |                                    |      |                 |                       |          |     |                       |
|----------------------|------------------------------------|------|-----------------|-----------------------|----------|-----|-----------------------|
| Excluded Items       |                                    |      |                 |                       |          |     |                       |
| ITEM #               | ITEM DESCRIPTION                   | UNIT | NUMBER OF UNITS | REPLACEMENT COST (\$) | UNIT REL | REL | REPLACEMENT COST (\$) |
|                      | Building foundation(s)             |      |                 |                       |          |     | EXCLUDED              |
|                      | Concrete floor slabs (interior)    |      |                 |                       |          |     | EXCLUDED              |
|                      | Wall, floor, & roof structure      |      |                 |                       |          |     | EXCLUDED              |
|                      | Common element electrical services |      |                 |                       |          |     | EXCLUDED              |
|                      | Electrical wiring                  |      |                 |                       |          |     | 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 (\$) | NEL | REL | REPLACEMENT COST (\$) |          |
|                              | Domestic water pipes serving one unit |      |                 |                            |     |     |                       | EXCLUDED |
|                              | Sanitary sewers serving one unit      |      |                 |                            |     |     |                       | EXCLUDED |
|                              | Electrical wiring serving one unit    |      |                 |                            |     |     |                       | EXCLUDED |
|                              | Cable TV service serving one unit     |      |                 |                            |     |     |                       | EXCLUDED |
|                              | Telephone service serving one unit    |      |                 |                            |     |     |                       | EXCLUDED |
|                              | Gas service serving one unit          |      |                 |                            |     |     |                       | EXCLUDED |
|                              | Unit windows                          |      |                 |                            |     |     |                       | EXCLUDED |
|                              | Unit doors                            |      |                 |                            |     |     |                       | EXCLUDED |
|                              | Unit interior                         |      |                 |                            |     |     |                       | EXCLUDED |
|                              | Unit HVAC system                      |      |                 |                            |     |     |                       | 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 | REPLACEMENT COST (\$) | UNIT REL | REL | REPLACEMENT COST (\$) |
|                    | Primary electric feeds          |      |                 |                       |          |     | EXCLUDED              |
|                    | Electric transformers           |      |                 |                       |          |     | EXCLUDED              |
|                    | Cable TV systems and structures |      |                 |                       |          |     | EXCLUDED              |
|                    | Telephone cables and structures |      |                 |                       |          |     | EXCLUDED              |
|                    | Gas mains and meters            |      |                 |                       |          |     | EXCLUDED              |
|                    | Water mains and meters          |      |                 |                       |          |     | EXCLUDED              |
|                    | Sanitary sewers                 |      |                 |                       |          |     | 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 (\$) | NEL | REL | REPLACEMENT COST (\$) |
|                                   | Cleaning of asphalt pavement      |      |                 |                            |     |     | EXCLUDED              |
|                                   | Crack sealing of asphalt pavement |      |                 |                            |     |     | EXCLUDED              |
|                                   | Painting of curbs                 |      |                 |                            |     |     | EXCLUDED              |
|                                   | Striping of parking spaces        |      |                 |                            |     |     | EXCLUDED              |
|                                   | Numbering of parking spaces       |      |                 |                            |     |     | EXCLUDED              |
|                                   | Landscaping and site grading      |      |                 |                            |     |     | EXCLUDED              |
|                                   | Exterior painting                 |      |                 |                            |     |     | EXCLUDED              |
|                                   | Interior painting                 |      |                 |                            |     |     | EXCLUDED              |
|                                   | Janitorial service                |      |                 |                            |     |     | EXCLUDED              |
|                                   | Repair services                   |      |                 |                            |     |     | EXCLUDED              |
|                                   | Partial replacements              |      |                 |                            |     |     | EXCLUDED              |
|                                   | Capital improvements              |      |                 |                            |     |     | 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 are listed above. The list above exemplifies exclusions by the cited standard(s) and is not intended to be comprehensive.

## PROJECTED ANNUAL REPLACEMENTS GENERAL INFORMATION

CALENDAR OF ANNUAL REPLACEMENTS. The 139 Projected Replacements in the Devon Condominium 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 C.2.

### 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 co-mingle 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.
- **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 Test 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 1 TO 4**

| Item                         | 2020 - YEAR 1               | \$       | Item                      | 2021 - YEAR 2 | \$ |
|------------------------------|-----------------------------|----------|---------------------------|---------------|----|
| 2                            | Asphalt pavement, seal coat | \$10,217 |                           |               |    |
| Total Scheduled Replacements |                             | \$10,217 | No Scheduled Replacements |               |    |

| Item                         | 2022 - YEAR 3                    | \$        | Item                         | 2023 - YEAR 4                                    | \$       |           |
|------------------------------|----------------------------------|-----------|------------------------------|--|----------|-----------|
| 1                            | Asphalt pavement, mill & overlay | \$78,019  | 47                           | Security camera (IP)                             | \$1,400  |           |
| 40                           | Flooring, wood laminate, replace | \$188,232 | 48                           | Security video recorder (IP 8 channel - digital) | \$8,530  |           |
| 76                           | Garage, floor coating            | \$6,000   | 86                           | Hallway, ventilation                             | \$55,000 |           |
| 77                           | Garage, roof/ceiling repair      | \$2,000   | 93                           | Domestic water, treatment                        | \$45,000 |           |
| 135                          | Pool furniture                   | \$5,000   | 101                          | Fire pump, 50hp, 1000 GPM                        | \$37,200 |           |
| Total Scheduled Replacements |                                  | \$279,251 | 102                          | Fire pump, control                               | \$16,000 |           |
|                              |                                  |           | 103                          | Jockey pump, 3hp                                 | \$4,720  |           |
|                              |                                  |           | Total Scheduled Replacements |  |          | \$167,850 |

**PROJECTED REPLACEMENTS - YEARS 5 TO 8**

| Item                         | 2024 - YEAR 5                          | \$       | Item                         | 2025 - YEAR 6                      | \$        |
|------------------------------|--|----------|------------------------------|------------------------------------|-----------|
| 77                           | Garage, roof/ceiling repair            | \$2,000  | 2                            | Asphalt pavement, seal coat        | \$10,217  |
| 83                           | Package air-handling unit, (2,000 CFM) | \$26,900 | 4                            | Concrete flatwork (6%)             | \$7,758   |
|                              |  |          | 6                            | Retaining wall, CMU (repoint)      | \$855     |
|                              |  |          | 31                           | Awning, refabricate                | \$3,600   |
|                              |  |          | 39                           | Flooring, vinyl tile               | \$15,872  |
|                              |  |          | 94                           | Domestic water booster pump        | \$13,300  |
|                              |  |          | 100                          | Boiler room alarm                  | \$20,000  |
|                              |  |          | 108                          | Oil tank                           | \$100,000 |
|                              |  |          | 123                          | Swimming pool, whitecoat           | \$18,026  |
|                              |  |          | 124                          | Swimming pool waterline tile (6x6) | \$2,096   |
|                              |  |          | 127                          | Pool deck, concrete (25%)          | \$20,700  |
|                              |  |          | 128                          | Pool pump (3/4 hp)                 | \$830     |
|                              |  |          | 131                          | Chemical feed pump                 | \$375     |
| Total Scheduled Replacements |  |          | Total Scheduled Replacements |                                    |           |
|                              |  | \$28,900 |                              |                                    | \$213,628 |

| Item                         | 2026 - YEAR 7                 | \$        | Item                         | 2027 - YEAR 8                       | \$        |
|------------------------------|-------------------------------|-----------|------------------------------|-------------------------------------|-----------|
| 37                           | Hallway, refurbish            | \$134,880 | 12                           | Site light, standard single head    | \$20,500  |
| 38                           | Flooring, carpet              | \$176,468 | 13                           | Site light, 12' aluminum pole       | \$100,450 |
| 77                           | Garage, roof/ceiling repair   | \$2,000   | 18                           | Bench                               | \$5,100   |
| 112                          | Roofing, flat membrane (EPDM) | \$60,060  | 56                           | Sofa                                | \$830     |
| 113                          | Soffit & trim, vinyl          | \$1,944   | 57                           | Upholstered chair, large            | \$2,800   |
| 120                          | Concrete steps (6%), pool     | \$6,929   | 58                           | Chair                               | \$1,800   |
| 135                          | Pool furniture                | \$5,000   | 60                           | End table                           | \$1,100   |
|                              |                               |           | 61                           | Table lamp                          | \$600     |
|                              |                               |           | 62                           | Table                               | \$1,170   |
|                              |                               |           | 63                           | Area rug, large (12' x 15')         | \$2,850   |
|                              |                               |           | 64                           | Buffet w/ drawers                   | \$1,390   |
|                              |                               |           | 88                           | Circulation pumps, (50 hp)          | \$46,050  |
|                              |                               |           | 136                          | Retaining wall, CMU (repoint), pool | \$1,368   |
| Total Scheduled Replacements |                               |           | Total Scheduled Replacements |                                     |           |
|                              |                               | \$387,281 |                              |                                     | \$186,008 |

**PROJECTED REPLACEMENTS - YEARS 9 TO 12**

| Item                         | 2028 - YEAR 9                           | \$       | Item                         | 2029 - YEAR 10                       | \$        |
|------------------------------|---|----------|------------------------------|--------------------------------------|-----------|
| 77                           | Garage, roof/ceiling repair             | \$2,000  | 26                           | Store front, curtain wall, refurbish | \$3,920   |
| 106                          | Trash compactor, 1 cy                   | \$20,500 | 32                           | Balcony, concrete resurface (20%)    | \$49,709  |
| 116                          | Door, flush (3' X 6'8"), pool           | \$31,500 | 33                           | Balcony, aluminum railing (20%)      | \$26,320  |
| 121                          | Retaining wall, concrete (repair), pool | \$12,096 | 34                           | Garage door                          | \$37,000  |
|                              |   |          | 117                          | Flooring, carpet, cabana             | \$6,305   |
|                              |   |          | 118                          | Sink, fixture & mirror, pool         | \$400     |
| Total Scheduled Replacements |   | \$66,096 | Total Scheduled Replacements |                                      | \$123,654 |

| Item                         | 2030 - YEAR 11                         | \$        | Item                         | 2031 - YEAR 12         | \$      |
|------------------------------|--|-----------|------------------------------|------------------------|---------|
| 2                            | Asphalt pavement, seal coat            | \$10,217  | 4                            | Concrete flatwork (6%) | \$7,758 |
| 5                            | Concrete steps                         | \$8,940   |                              |                        |         |
| 16                           | Storm water management (10% allowance) | \$40,000  |                              |                        |         |
| 17                           | Irrigation, system                     | \$15,000  |                              |                        |         |
| 24                           | Masonry (10% repointing allowance)     | \$400,000 |                              |                        |         |
| 77                           | Garage, roof/ceiling repair            | \$2,000   |                              |                        |         |
| 114                          | Masonry (repointing allowance)         | \$3,000   |                              |                        |         |
| 126                          | Pool cover, safety mesh                | \$13,703  |                              |                        |         |
| 128                          | Pool pump (3/4 hp)                     | \$830     |                              |                        |         |
| 131                          | Chemical feed pump                     | \$375     |                              |                        |         |
| 133                          | Pool ladder (4 step)                   | \$2,150   |                              |                        |         |
| 134                          | Safety rail                            | \$1,800   |                              |                        |         |
| 135                          | Pool furniture                         | \$5,000   |                              |                        |         |
| Total Scheduled Replacements |  | \$503,014 | Total Scheduled Replacements |                        | \$7,758 |

**PROJECTED REPLACEMENTS - YEARS 13 TO 16**

| Item                         | 2032 - YEAR 13                       | \$       | Item                         | 2033 - YEAR 14                      | \$        |
|------------------------------|--------------------------------------|----------|------------------------------|-------------------------------------|-----------|
| 3                            | Concrete curb & gutter, barrier (6%) | \$5,396  | 45                           | Building entry system               | \$12,180  |
| 65                           | Office, desk wood                    | \$960    | 46                           | Building directory                  | \$1,580   |
| 66                           | Office, desk chair                   | \$340    | 49                           | Exit sign                           | \$9,480   |
| 67                           | Office, side chair                   | \$90     | 50                           | Emergency lighting                  | \$12,255  |
| 68                           | Office, credenza                     | \$1,350  | 51                           | Interior lighting, florescent       | \$2,310   |
| 69                           | Sink, fixture & mirror               | \$800    | 52                           | Interior lighting, recessed         | \$53,240  |
| 70                           | Toilet & stall                       | \$3,000  | 53                           | Interior lighting, chandelier       | \$290     |
| 71                           | Urinal & partition                   | \$300    | 54                           | Interior lighting, wall sconce      | \$39,420  |
| 72                           | Shower, stall                        | \$2,400  | 59                           | Benches                             | \$1,250   |
| 73                           | Shower, fixtures                     | \$700    | 104                          | Sprinkler system, control valve     | \$270     |
| 74                           | Locker, half height metal            | \$180    | 105                          | Sprinkler back flow preventer, 2.5" | \$4,420   |
| 75                           | Locker, full height metal            | \$825    |                              |                                     |           |
| 76                           | Garage, floor coating                | \$6,000  |                              |                                     |           |
| 77                           | Garage, roof/ceiling repair          | \$2,000  |                              |                                     |           |
| 120                          | Concrete steps (6%), pool            | \$6,929  |                              |                                     |           |
| Total Scheduled Replacements |                                      | \$31,270 | Total Scheduled Replacements |                                     | \$136,695 |

| Item                         | 2034 - YEAR 15                       | \$          | Item                         | 2035 - YEAR 16                         | \$        |
|------------------------------|--------------------------------------|-------------|------------------------------|--|-----------|
| 19                           | Roofing, flat membrane (TPO)         | \$415,800   | 2                            | Asphalt pavement, seal coat            | \$10,217  |
| 20                           | Roofing, flat membrane (TPO), canopy | \$30,140    | 6                            | Retaining wall, CMU (repoint)          | \$855     |
| 21                           | Flashing and cap work                | \$8,385     | 7                            | Retaining wall, CMU (25%)              | \$10,913  |
| 22                           | Skylight, glass vision panel, canopy | \$9,500     | 14                           | Domestic water main (10%)              | \$20,000  |
| 23                           | Soffit , canopy                      | \$15,070    | 15                           | Sanitary main (10%)                    | \$10,000  |
| 77                           | Garage, roof/ceiling repair          | \$2,000     | 28                           | Door, steel, flush (3' X 6'8")         | \$5,760   |
| 85                           | Cooling tower, controls              | \$28,000    | 29                           | Awning, stationary (replace)           | \$5,030   |
| 87                           | Centrifugal chiller                  | \$501,800   | 30                           | Awning, refurbish structure            | \$680     |
| 129                          | Pool filter, Sand (19")              | \$2,340     | 31                           | Awning, refabricate                    | \$3,600   |
| 130                          | Chemical tank                        | \$840       | 81                           | Exhaust fan                            | \$19,800  |
| 135                          | Pool furniture                       | \$5,000     | 111                          | Electrical, secondary                  | \$485,000 |
|                              |                                      |             | 123                          | Swimming pool, whitecoat               | \$18,026  |
|                              |                                      |             | 124                          | Swimming pool waterline tile (6x6)     | \$2,096   |
|                              |                                      |             | 125                          | Swimming pool coping, precast concrete | \$5,753   |
|                              |                                      |             | 127                          | Pool deck, concrete (25%)              | \$20,700  |
|                              |                                      |             | 128                          | Pool pump (3/4 hp)                     | \$830     |
|                              |                                      |             | 131                          | Chemical feed pump                     | \$375     |
|                              |                                      |             | 138                          | Concrete steps , pool                  | \$6,929   |
| Total Scheduled Replacements |                                      | \$1,018,875 | Total Scheduled Replacements |  | \$626,562 |

**PROJECTED REPLACEMENTS - YEARS 17 TO 20**

| 2036 - YEAR 17               |   |             | 2037 - YEAR 18               |                                     |          |
|------------------------------|---|-------------|------------------------------|-------------------------------------|----------|
| Item                         |   | \$          | Item                         |                                     | \$       |
| 36                           | Hallway, redecorate                     | \$24,000    | 4                            | Concrete flatwork (6%)              | \$7,758  |
| 37                           | Hallway, refurbish                      | \$134,880   | 61                           | Table lamp                          | \$600    |
| 38                           | Flooring, carpet                        | \$176,468   | 63                           | Area rug, large (12' x 15')         | \$2,850  |
| 41                           | Ceiling, suspended                      | \$128,133   | 136                          | Retaining wall, CMU (repoint), pool | \$1,368  |
| 77                           | Garage, roof/ceiling repair             | \$2,000     | 137                          | Retaining wall, CMU (25%), pool     | \$17,460 |
| 78                           | Elevator cab & door, passenger          | \$201,000   |                              |                                     |          |
| 79                           | Elevator, traction passenger controls   | \$266,400   |                              |                                     |          |
| 80                           | Elevator, traction passenger mechanical | \$193,800   |                              |                                     |          |
| Total Scheduled Replacements |   | \$1,126,681 | Total Scheduled Replacements |                                     | \$30,036 |

| 2038 - YEAR 19               |  |           | 2039 - YEAR 20               |                                   |           |
|------------------------------|--|-----------|------------------------------|-----------------------------------|-----------|
| Item                         |  | \$        | Item                         |                                   | \$        |
| 3                            | Concrete curb & gutter, barrier (6%)             | \$5,396   | 32                           | Balcony, concrete resurface (20%) | \$49,709  |
| 47                           | Security camera (IP)                             | \$1,400   | 39                           | Flooring, vinyl tile              | \$15,872  |
| 48                           | Security video recorder (IP 8 channel - digital) | \$8,530   | 82                           | Garage exhaust fan                | \$3,100   |
| 55                           | Garage lighting                                  | \$5,460   | 95                           | Fire alarm station, complete      | \$325     |
| 77                           | Garage, roof/ceiling repair                      | \$2,000   | 96                           | Fire alarm pull                   | \$2,430   |
| 84                           | Cooling tower (1500 ton) replace                 | \$195,000 | 97                           | Fire alarm light, bell & horn     | \$9,180   |
| 90                           | Boiler, gas, water heater                        | \$286,800 | 98                           | Fire annunciator sys, high-rise   | \$14,500  |
| 91                           | Hot water, storage                               | \$2,000   | 99                           | Smoke alarm                       | \$17,500  |
| 93                           | Domestic water, treatment                        | \$45,000  | 117                          | Flooring, carpet, cabana          | \$6,305   |
| 115                          | Window, operating                                | \$7,905   | 118                          | Sink, fixture & mirror, pool      | \$400     |
| 120                          | Concrete steps (6%), pool                        | \$6,929   | 119                          | Toilet, pool                      | \$2,000   |
| 135                          | Pool furniture                                   | \$5,000   |                              |                                   |           |
| Total Scheduled Replacements |  | \$571,420 | Total Scheduled Replacements |                                   | \$121,321 |



**PROJECTED REPLACEMENTS - YEARS 21 TO 24**

| Item                         | 2040 - YEAR 21                     | \$        | Item                         | 2041 - YEAR 22                       | \$        |
|------------------------------|------------------------------------|-----------|------------------------------|--------------------------------------|-----------|
| 2                            | Asphalt pavement, seal coat        | \$10,217  | 42                           | Interior fire door & frame, flush    | \$59,040  |
| 17                           | Irrigation, system                 | \$15,000  | 43                           | Interior door & frame, metal - flush | \$108,780 |
| 24                           | Masonry (10% repointing allowance) | \$400,000 | 44                           | Trash chute door                     | \$8,120   |
| 77                           | Garage, roof/ceiling repair        | \$2,000   | 56                           | Sofa                                 | \$830     |
| 94                           | Domestic water booster pump        | \$13,300  | 57                           | Upholstered chair, large             | \$2,800   |
| 100                          | Boiler room alarm                  | \$20,000  | 58                           | Chair                                | \$1,800   |
| 114                          | Masonry (repointing allowance)     | \$3,000   | 60                           | End table                            | \$1,100   |
| 128                          | Pool pump (3/4 hp)                 | \$830     | 62                           | Table                                | \$1,170   |
| 131                          | Chemical feed pump                 | \$375     | 64                           | Buffet w/ drawers                    | \$1,390   |
| 139                          | Fence, 8' chain link, pool         | \$1,964   | 89                           | Boiler, gas,                         | \$778,000 |
|                              |                                    |           | 107                          | Sump pump                            | \$2,000   |
| Total Scheduled Replacements |                                    | \$466,685 | Total Scheduled Replacements |                                      | \$965,030 |

| Item                         | 2042 - YEAR 23                   | \$        | Item                         | 2043 - YEAR 24            | \$        |
|------------------------------|----------------------------------|-----------|------------------------------|---------------------------|-----------|
| 1                            | Asphalt pavement, mill & overlay | \$78,019  | 4                            | Concrete flatwork (6%)    | \$7,758   |
| 8                            | Metal guardrail w/ metal post    | \$2,745   | 86                           | Hallway, ventilation      | \$55,000  |
| 18                           | Bench                            | \$5,100   | 101                          | Fire pump, 50hp, 1000 GPM | \$37,200  |
| 27                           | Door, aluminum & glass (3' X7')  | \$5,520   | 102                          | Fire pump, control        | \$16,000  |
| 40                           | Flooring, wood laminate, replace | \$188,232 | 103                          | Jockey pump, 3hp          | \$4,720   |
| 69                           | Sink, fixture & mirror           | \$800     | 106                          | Trash compactor, 1 cy     | \$20,500  |
| 73                           | Shower, fixtures                 | \$700     |                              |                           |           |
| 76                           | Garage, floor coating            | \$6,000   |                              |                           |           |
| 77                           | Garage, roof/ceiling repair      | \$2,000   |                              |                           |           |
| 126                          | Pool cover, safety mesh          | \$13,703  |                              |                           |           |
| 135                          | Pool furniture                   | \$5,000   |                              |                           |           |
| Total Scheduled Replacements |                                  | \$307,819 | Total Scheduled Replacements |                           | \$141,178 |

**PROJECTED REPLACEMENTS - YEARS 25 TO 28**

| Item                         | 2044 - YEAR 25                         | \$        | Item                         | 2045 - YEAR 26                     | \$       |
|------------------------------|--|-----------|------------------------------|------------------------------------|----------|
| 3                            | Concrete curb & gutter, barrier (6%)   | \$5,396   | 2                            | Asphalt pavement, seal coat        | \$10,217 |
| 34                           | Garage door                            | \$37,000  | 6                            | Retaining wall, CMU (repoint)      | \$855    |
| 77                           | Garage, roof/ceiling repair            | \$2,000   | 31                           | Awning, refabricate                | \$3,600  |
| 83                           | Package air-handling unit, (2,000 CFM) | \$26,900  | 123                          | Swimming pool, whitecoat           | \$18,026 |
| 92                           | Building piping, allowance (copper)    | \$881,600 | 124                          | Swimming pool waterline tile (6x6) | \$2,096  |
| 120                          | Concrete steps (6%), pool              | \$6,929   | 127                          | Pool deck, concrete (25%)          | \$20,700 |
|                              |  |           | 128                          | Pool pump (3/4 hp)                 | \$830    |
|                              |  |           | 131                          | Chemical feed pump                 | \$375    |
|                              |  |           | 132                          | Pool, eyewash                      | \$600    |
| Total Scheduled Replacements |  | \$959,825 | Total Scheduled Replacements |                                    | \$57,299 |

| Item                         | 2046 - YEAR 27                    | \$        | Item                         | 2047 - YEAR 28                      | \$        |
|------------------------------|-----------------------------------|-----------|------------------------------|-------------------------------------|-----------|
| 10                           | Fence, 3' decorative aluminum     | \$3,173   | 12                           | Site light, standard single head    | \$20,500  |
| 11                           | Fence, 4' vinyl coated chain link | \$9,380   | 49                           | Exit sign                           | \$9,480   |
| 37                           | Hallway, refurbish                | \$134,880 | 50                           | Emergency lighting                  | \$12,255  |
| 38                           | Flooring, carpet                  | \$176,468 | 52                           | Interior lighting, recessed         | \$53,240  |
| 66                           | Office, desk chair                | \$340     | 53                           | Interior lighting, chandelier       | \$290     |
| 67                           | Office, side chair                | \$90      | 54                           | Interior lighting, wall sconce      | \$39,420  |
| 77                           | Garage, roof/ceiling repair       | \$2,000   | 61                           | Table lamp                          | \$600     |
| 112                          | Roofing, flat membrane (EPDM)     | \$60,060  | 63                           | Area rug, large (12' x 15')         | \$2,850   |
| 113                          | Soffit & trim, vinyl              | \$1,944   | 88                           | Circulation pumps, (50 hp)          | \$46,050  |
| 135                          | Pool furniture                    | \$5,000   | 136                          | Retaining wall, CMU (repoint), pool | \$1,368   |
| Total Scheduled Replacements |                                   | \$393,335 | Total Scheduled Replacements |                                     | \$186,053 |

**PROJECTED REPLACEMENTS - YEARS 29 TO 32**

| 2048 - YEAR 29               |   |          | 2049 - YEAR 30               |                                      |          |
|------------------------------|---|----------|------------------------------|--------------------------------------|----------|
| Item                         |   | \$       | Item                         |                                      | \$       |
| 77                           | Garage, roof/ceiling repair             | \$2,000  | 4                            | Concrete flatwork (6%)               | \$7,758  |
| 121                          | Retaining wall, concrete (repair), pool | \$12,096 | 26                           | Store front, curtain wall, refurbish | \$3,920  |
|                              |   |          | 32                           | Balcony, concrete resurface (20%)    | \$49,709 |
|                              |   |          | 117                          | Flooring, carpet, cabana             | \$6,305  |
|                              |   |          | 118                          | Sink, fixture & mirror, pool         | \$400    |
|                              |   |          | 129                          | Pool filter, Sand (19")              | \$2,340  |
|                              |   |          | 130                          | Chemical tank                        | \$840    |
| Total Scheduled Replacements |   | \$14,096 | Total Scheduled Replacements |                                      | \$71,272 |

| 2050 - YEAR 31               |  |             | 2051 - YEAR 32            |  |    |
|------------------------------|--|-------------|---------------------------|--|----|
| Item                         |  | \$          | Item                      |  | \$ |
| 2                            | Asphalt pavement, seal coat            | \$10,217    |                           |  |    |
| 3                            | Concrete curb & gutter, barrier (6%)   | \$5,396     |                           |  |    |
| 16                           | Storm water management (10% allowance) | \$40,000    |                           |  |    |
| 17                           | Irrigation, system                     | \$15,000    |                           |  |    |
| 24                           | Masonry (10% repointing allowance)     | \$400,000   |                           |  |    |
| 77                           | Garage, roof/ceiling repair            | \$2,000     |                           |  |    |
| 109                          | Electric switchgear                    | \$285,000   |                           |  |    |
| 110                          | Electrical, distribution               | \$500,000   |                           |  |    |
| 111                          | Electrical, secondary                  | \$485,000   |                           |  |    |
| 114                          | Masonry (repointing allowance)         | \$3,000     |                           |  |    |
| 120                          | Concrete steps (6%), pool              | \$6,929     |                           |  |    |
| 128                          | Pool pump (3/4 hp)                     | \$830       |                           |  |    |
| 131                          | Chemical feed pump                     | \$375       |                           |  |    |
| 133                          | Pool ladder (4 step)                   | \$2,150     |                           |  |    |
| 134                          | Safety rail                            | \$1,800     |                           |  |    |
| 135                          | Pool furniture                         | \$5,000     |                           |  |    |
| Total Scheduled Replacements |  | \$1,762,696 | No Scheduled Replacements |  |    |

**PROJECTED REPLACEMENTS - YEARS 33 TO 36**

| Item                         | 2052 - YEAR 33              | \$       | Item                         | 2053 - YEAR 34                                   | \$        |
|------------------------------|-----------------------------|----------|------------------------------|--|-----------|
| 69                           | Sink, fixture & mirror      | \$800    | 39                           | Flooring, vinyl tile                             | \$15,872  |
| 70                           | Toilet & stall              | \$3,000  | 45                           | Building entry system                            | \$12,180  |
| 71                           | Urinal & partition          | \$300    | 47                           | Security camera (IP)                             | \$1,400   |
| 72                           | Shower, stall               | \$2,400  | 48                           | Security video recorder (IP 8 channel - digital) | \$8,530   |
| 73                           | Shower, fixtures            | \$700    | 59                           | Benches  | \$1,250   |
| 74                           | Locker, half height metal   | \$180    | 65                           | Office, desk wood                                | \$960     |
| 75                           | Locker, full height metal   | \$825    | 68                           | Office, credenza                                 | \$1,350   |
| 76                           | Garage, floor coating       | \$6,000  | 93                           | Domestic water, treatment                        | \$45,000  |
| 77                           | Garage, roof/ceiling repair | \$2,000  | 116                          | Door, flush (3' X 6'8"), pool                    | \$31,500  |
| Total Scheduled Replacements |                             | \$16,205 | Total Scheduled Replacements |  | \$118,042 |

| Item                         | 2054 - YEAR 35                       | \$        | Item                         | 2055 - YEAR 36                         | \$        |
|------------------------------|--------------------------------------|-----------|------------------------------|--|-----------|
| 19                           | Roofing, flat membrane (TPO)         | \$415,800 | 2                            | Asphalt pavement, seal coat            | \$10,217  |
| 20                           | Roofing, flat membrane (TPO), canopy | \$30,140  | 4                            | Concrete flatwork (6%)                 | \$7,758   |
| 21                           | Flashing and cap work                | \$8,385   | 6                            | Retaining wall, CMU (repoint)          | \$855     |
| 23                           | Soffit, canopy                       | \$15,070  | 9                            | Fence, 3' vinyl picket                 | \$1,395   |
| 51                           | Interior lighting, florescent        | \$2,310   | 14                           | Domestic water main (10%)              | \$20,000  |
| 77                           | Garage, roof/ceiling repair          | \$2,000   | 15                           | Sanitary main (10%)                    | \$10,000  |
| 126                          | Pool cover, safety mesh              | \$13,703  | 30                           | Awning, refurbish structure            | \$680     |
| 135                          | Pool furniture                       | \$5,000   | 31                           | Awning, refabricate                    | \$3,600   |
| Total Scheduled Replacements |                                      | \$492,408 | 56                           | Sofa                                   | \$830     |
|                              |                                      |           | 57                           | Upholstered chair, large               | \$2,800   |
|                              |                                      |           | 58                           | Chair                                  | \$1,800   |
|                              |                                      |           | 60                           | End table                              | \$1,100   |
|                              |                                      |           | 62                           | Table                                  | \$1,170   |
|                              |                                      |           | 64                           | Buffet w/ drawers                      | \$1,390   |
|                              |                                      |           | 81                           | Exhaust fan                            | \$19,800  |
|                              |                                      |           | 94                           | Domestic water booster pump            | \$13,300  |
|                              |                                      |           | 100                          | Boiler room alarm                      | \$20,000  |
|                              |                                      |           | 108                          | Oil tank                               | \$100,000 |
|                              |                                      |           | 123                          | Swimming pool, whitecoat               | \$18,026  |
|                              |                                      |           | 124                          | Swimming pool waterline tile (6x6)     | \$2,096   |
|                              |                                      |           | 125                          | Swimming pool coping, precast concrete | \$5,753   |
|                              |                                      |           | 127                          | Pool deck, concrete (25%)              | \$20,700  |
|                              |                                      |           | 128                          | Pool pump (3/4 hp)                     | \$830     |
|                              |                                      |           | 131                          | Chemical feed pump                     | \$375     |
| Total Scheduled Replacements |                                      | \$492,408 | Total Scheduled Replacements |  | \$264,474 |

**PROJECTED REPLACEMENTS - YEARS 37 TO 40**

| Item                         | 2056 - YEAR 37                       | \$        | Item                         | 2057 - YEAR 38                      | \$        |
|------------------------------|--------------------------------------|-----------|------------------------------|-------------------------------------|-----------|
| 3                            | Concrete curb & gutter, barrier (6%) | \$5,396   | 13                           | Site light, 12' aluminum pole       | \$100,450 |
| 36                           | Hallway, redecorate                  | \$24,000  | 18                           | Bench                               | \$5,100   |
| 37                           | Hallway, refurbish                   | \$134,880 | 61                           | Table lamp                          | \$600     |
| 38                           | Flooring, carpet                     | \$176,468 | 63                           | Area rug, large (12' x 15')         | \$2,850   |
| 41                           | Ceiling, suspended                   | \$128,133 | 136                          | Retaining wall, CMU (repoint), pool | \$1,368   |
| 77                           | Garage, roof/ceiling repair          | \$2,000   | 137                          | Retaining wall, CMU (25%), pool     | \$17,460  |
| 120                          | Concrete steps (6%), pool            | \$6,929   |                              |                                     |           |
| Total Scheduled Replacements |                                      |           | Total Scheduled Replacements |                                     |           |
|                              |                                      | \$477,805 |                              |                                     | \$127,828 |

| Item                         | 2058 - YEAR 39              | \$       | Item                         | 2059 - YEAR 40                      | \$        |
|------------------------------|-----------------------------|----------|------------------------------|-------------------------------------|-----------|
| 46                           | Building directory          | \$1,580  | 25                           | Store front, curtain wall, replace  | \$14,720  |
| 77                           | Garage, roof/ceiling repair | \$2,000  | 32                           | Balcony, concrete resurface (20%)   | \$49,709  |
| 106                          | Trash compactor, 1 cy       | \$20,500 | 34                           | Garage door                         | \$37,000  |
| 135                          | Pool furniture              | \$5,000  | 35                           | Mailbox, interior cluster, recessed | \$17,400  |
|                              |                             |          | 55                           | Garage lighting                     | \$5,460   |
|                              |                             |          | 82                           | Garage exhaust fan                  | \$3,100   |
|                              |                             |          | 117                          | Flooring, carpet, cabana            | \$6,305   |
|                              |                             |          | 118                          | Sink, fixture & mirror, pool        | \$400     |
|                              |                             |          | 119                          | Toilet, pool                        | \$2,000   |
|                              |                             |          | 122                          | Swimming pool structure             | \$191,250 |
| Total Scheduled Replacements |                             |          | Total Scheduled Replacements |                                     |           |
|                              |                             | \$29,080 |                              |                                     | \$327,344 |

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## CONDITION ASSESSMENT

**General Comments.** Miller+Dodson Associates conducted a Reserve Study at The Devon Condominium in February 2020. The Devon Condominium is in generally good condition for a condominium, residential. 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 ITEMS

**Asphalt Pavement.** The Association is responsible for the parking areas within the community. In general, the Association's asphalt pavements are in fair condition.



The Defects noted include the following:

- **Open Cracks.** There are multiple locations where open cracks are allowing water to penetrate to the asphalt base and the bearing soils beneath. Over time, water will erode the base and accelerate the deterioration of the asphalt pavement. If cracks extend to the base and bearing materials, remove the damaged areas and replace defective materials. As a part of normal maintenance, clean and fill all other cracks.
- **Alligatoring.** There are multiple locations where the asphalt has developed a pattern of cracking known as alligatoring. The primary cause of alligatoring is an unstable base. Once these cracks extend through the asphalt, they will allow water to penetrate to the base, accelerating the rate of deterioration, and eventually leading to potholes. The only solution is to remove the defective asphalt, compact the base, and install new base materials and asphalt.

A more detailed summary of pavement distress can be found at <http://www.asphaltinstitute.org/engineering/maintenance-and-rehabilitation/pavement-distress-summary/>.

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.

To maintain the condition of the pavement throughout the community and ensure the longest life of the asphalt, we recommend the Association adopt 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.

The pricing used is based on recent contracts for a two-inch overlay, which reflects the current local market for this work.

For seal coating, several different products are available. The older, more traditional seal coating products are simply paint. 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.

**Concrete Work.** The concrete work includes the community curbs, sidewalks, stairs, patios, and other flatwork. The overall condition of the concrete work is in fair condition.



The standards we use for recommending replacement are as follows:

- Trip hazard, ½ inch height difference.
- Severe cracking.
- Severe spalling and scale.
- Uneven riser heights on steps.
- Steps with risers over 8¼ inches.

Because it is highly unlikely that all of the concrete components will fail and require replacement in the period of the study, we have programmed funds for the replacement of these inventories and spread the funds over an extended timeframe to reflect the incremental nature of this work.



**Guard Rail.** We have included the guard rail installed along the pools' edge. The guard rail is in good condition. Footings at the guide rail posts should be inspected periodically to ensure that the surrounding soil is intact and compacted. Any damaged sections of the rail or posts should be replaced to ensure the system performs adequately.



**Fencing.** The Association maintains metal, vinyl and chain link fencing. Fencing systems have a large number of configurations and finishes that can usually be repaired as a maintenance activity by replacing individual components as they become damaged or weathered.

Protection from string machine damage during lawn maintenance can extend the useful life of some fence types. Protection from this type of damage is typically provided by applying herbicides around post bases or installing protective sheathing.

Vinyl fencing made of 100% virgin material can last 30 to 35 years, and periodic cleaning will keep the fence looking attractive. Vinyl components with ticker walls can provide a longer useful life.

Aluminum fencing can have a useful life of 40 years or more. Periodic cleaning and touch-up painting may be required to keep the fence attractive.

Chain link fencing can have a useful life of 40 years or more. Periodic weed control may be required to protect and maintain the fence.



The Association maintains steel fence posts and fasteners that are embedded in concrete or masonry.

As part of normal maintenance, we recommend the following:

- Lift or remove ornamental base covers, if applicable
- Remove existing caulk completely

- Clean, prime, and paint all posts
- Apply an appropriate caulk around each post base
- Tool and shape caulking to shed water from post
- Reinstall base covers, and seal and paint all joints

Fence posts can have an extended useful life if these simple maintenance activities are performed. If left unattended, the pressure from expansive post rust can crack and damage the supporting material.

**Site Lighting.** The Association is responsible for the operation of the facility's parking lot lighting which is in fair condition.



This study assumes replacement of the light fixtures every 15 to 20 years, and pole replacement every 30 to 40 years. When the light poles are replaced, we assume that the underground wiring will also be replaced.

When a whole-scale lighting replacement project is called for, we recommend consulting with a lighting design expert. Many municipalities have design codes, guidelines, and restrictions when it comes to exterior illumination.

Additionally, new technology such as LED and LIFI, among others, should be evaluated when considering replacement.

## EXTERIOR ITEMS

**Building Roofing.** The Main building has a thermoplastic polyolefin (TPO) single-ply roofing membrane and the Pool House has an ethylene propylene diene terpolymer (EPDM) roof both of which are in good condition.



Flat roofing systems can have a variety of configurations that will greatly affect the cost of replacement including insulation, ballast, the height of the building, and the density of installed mechanical equipment. Flat roofing systems typically have a useful life of 15 to 25 years.

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.

**Masonry.** The Main Building and Pool House have a brick veneer exterior, both of which are in good condition.

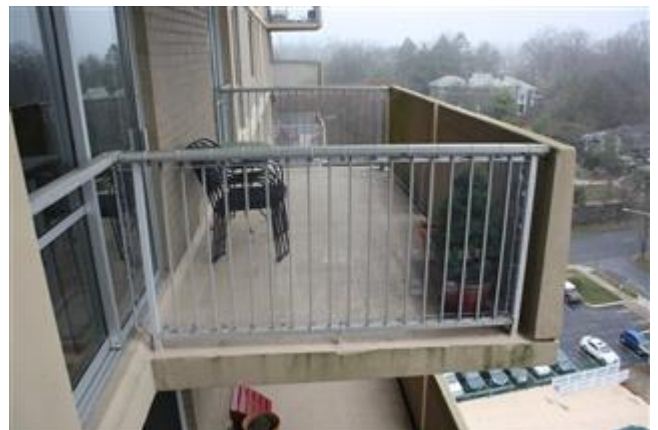


Brick masonry is used as the main exterior cladding of the building. As masonry weathers, the mortar joints will become damaged by water penetration. As additional water gains access to the joints, repeated freeze-thaw cycles gradually increase the damage to the mortar joints. If allowed to progress, 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.

**Concrete Balconies.** The Association maintains the concrete balconies of the building. The structural concrete balcony decks are in good condition, and the railings are in good condition.



The balcony surfaces are coated. We noted no significant defects.

Concrete balconies are prone to deterioration due to their exposure to the elements. This deterioration begins within the concrete and slowly progresses to the surface. By the time it becomes visible, the damage has been done, and expensive remedial action is typically required.

The leading cause of concrete balcony deterioration is the corrosion of the embedded reinforcing steel. Water penetrates the concrete surface or enters the concrete through penetrations such as railing mounting holes, and when water meets the reinforcing steel, corrosion results. As the steel corrodes, it expands, putting pressure on the surrounding concrete. This pressure will eventually result in cracks, delamination, and spalling. The rate of corrosion is influenced by such factors as the thickness and density of the concrete, the rate of water infiltration, and the installation of carpet or other water-retaining materials on the balcony's surface.

We recommend for the Association implement an annual inspection and power-washing program. Installation of carpet or other water trapping coverings should be prohibited and potted plants should be placed on raised feet to allow for proper air circulation and drying.

Additionally, we recommend the application of appropriate sealants or coatings to the top surface and exposed edges of the concrete deck, as well as recaulking all railing post mounted into the deck slab. The underside of the concrete deck should be left untreated or treated with a breathable finish to allow entrapped moisture to escape.

## INTERIOR ITEMS

**Corridors.** Listed below are the major corridor components that we have included in the Reserve Analysis:

- **Carpet.** The carpet in the building's corridors is in good condition. Commercial carpet of this construction in this type of application has a typical service life of 7 to 10 years.

To extend the life of the carpet, it is important that the Association implement a comprehensive maintenance program that includes regular vacuuming, spot and spill removal, interim cleaning of high traffic areas, and regular scheduled cleanings. It is also recommended that all entrances be fitted with walk-off mats to trap soil.

- **Light Fixtures.** Corridor illumination is provided by wall mounted light fixtures. The fixtures are in good working condition and provide adequate lighting. Fixtures of this type have a typical service life of 25 years.

We recommend that the Association install LED lamps in place of the existing bulbs. LED lamps provide the same light output while using approximately 25 percent of the energy. They also offer service lives that are 10 to 15 times longer.

- **Exit Lights.** The building uses illuminated exit lights with emergency lights at each of the exits. The general condition of the building's exit lights is good.

We recommend that the Association consider using exit lights with ones powered by light-emitting diodes (LED). LED-based exit lights offer 25 years or more service life without having to replace the light source while reducing the energy requirements by 90% for incandescent light sources and 50% for compact fluorescent light sources.

- **Emergency Light Fixtures.** The building uses battery-powered light fixtures for emergency lighting in the event of a power outage. The fixtures are in good condition. Fixtures of this type have a typical service life of 20 years.

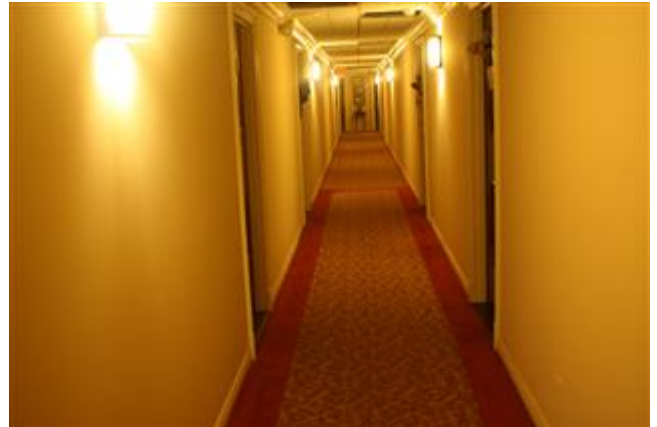
The use of emergency light fixtures is required on an irregular and infrequent basis. Frequently, fixtures fail to operate when needed due to failed components that have gone unnoticed. Therefore, we recommend that the Association have all emergency light fixtures tested regularly, typically every three to six months.

**Building Access.** The building is an access-controlled facility with electrically operated doors that are in good condition. The system includes a telephone entry panel.

Systems of this type typically have a service life of 15 to 20 years. Beyond that point, it becomes increasingly difficult to find replacement parts. Additionally, changes in technology help render the systems obsolete. For these reasons, we have assumed a service life of 15 years for this type of system.

## BUILDING SYSTEMS

**Elevators.** The Association maintains three traction elevators that appear to be operating normally. There are no reported cases of entrapment or operational issues by the Association.





The estimated costs for the replacement of the major components of the facility's elevators have been developed utilizing R.S. Means Construction Cost Data, and guidelines provided by reputable elevator manufacturers and service providers. These costs are included to reflect the obsolescence that occurs with elevator systems. Even though the systems may be functioning well, parts for most mechanical control systems will become increasingly hard to find as the components age, and the reliability of these components becomes problematic. As such, parts availability, down-time, and service costs become major considerations that may force a replacement decision. When these elevator systems are replaced, they will normally have to be brought into compliance with current code requirements. This work typically entails upgrading door operating mechanisms, replacing elevator call systems, and installation of emergency phones but can involve enlargement of the cab and other very costly work.

Where prudent amounts have been included in this study in anticipation of these concerns, we recommend developing a replacement plan with estimated costs based on the specific equipment installed and current local code requirements. Many reputable elevator companies will provide this service free of charge or at minimal cost. At the time of a Reserve Study Update, this information can then be incorporated into the study.

**Heating Boiler.** Heat to the building is supplied by 5, hot water boilers located in lower level. The boiler is boilers are approximately 20 years old and is are in fair condition.

Our assessment of the condition of the boiler is based on the age of the boiler, the conditions seen during the site visit, the reported maintenance history of the boiler, and conversations with maintenance personnel. Boiler systems typically have a service life of 20 to 40 years.

When it becomes necessary to replace the central boiler system, we recommend that the community consider installing a bank of modular boilers. The use of multiple boilers will allow the operators to stage their use to match heating requirements in the building and increase the overall operating efficiency of the heating system. For additional information about modular boiler systems, please see the relevant link at <http://mdareserves.com/resources/links/building-system>.



**Cooling Tower.** The facility has a central cooling system that generates and distributes chilled water to the individual units and other interior areas. Heat from the system is rejected to the atmosphere through the cooling tower system. The cooling tower system is reported to be in good condition.

Cooling towers have a very large impact on the operating efficiency of a central air conditioning system. Therefore it is important to follow a comprehensive maintenance program to keep the tower operating at peak efficiency. It is also a good practice to replace the cooling tower and chiller systems at the same time. Cooling towers have a typical service life of 20 to 25 years.



**Chiller.** The chiller system associated with the cooling tower is reported to be in good working condition and is expected to have a service life of 20 to 25 years.

**Centrifugal Chiller.** Two chillers supply chilled water to the facility. Our assessment of the chiller's condition is based on the age of the unit, visual inspection during the site visit, the reported maintenance history of the chiller, and conversations with maintenance personnel.

If the chillers are more than 15 years old, add the following paragraphs:

A concern with the centrifugal chillers is their operating efficiency. Operating efficiency for centrifugal chillers is rated in terms of kW of electricity used to produce a ton of cooling (kW/ton). Centrifugal chillers of this size, type, and age typically have a full-load operating efficiency in the range of 0.80 to 1.00 kW/ton. New generation, high-efficiency chillers operate in the efficiency range of 0.49 to 0.65 kW/ton. What this means is that by installing a high-efficiency centrifugal chiller, the community can reasonably expect to reduce their cooling costs by 25 to 35 percent.

Another efficiency concern with the existing chillers is their performance under part-load conditions. Centrifugal chillers operate at their peak efficiency under full-load conditions. As the cooling load decreases, the chiller throttles back by closing inlet vanes to the compressor. The problem is that as the load on the chiller decreases, so does the efficiency of the chiller. For example, a chiller that has a full-load rated efficiency of 0.80 kW/ton, at 75 percent load might have an operating efficiency of only 1.10 kW/ton. Since chillers typically operate under part-load conditions for 90 to 95 percent of their operating hours, the overall efficiency of the chiller decreases and cooling energy costs increase.

Centrifugal chillers can be retrofitted with a variable frequency drive unit (VFD) to improve part-load operating efficiency. With a VFD installed, as the cooling load decreases, the VFD slows the chiller to reduce both capacity and energy use. With a VFD, the near full-load operating efficiency can be maintained over a wide range of actual cooling loads. Typically a VFD can be paid for through energy savings in less than two years.

Due to the age of the chillers and their current condition, we are assuming that the chillers will be replaced within 14 years. We have assumed that the chillers will be replaced with high-efficiency units with variable speed drives. This replacement will reduce the chiller energy requirements by a minimum of 25 percent.



When it becomes necessary to replace the central cooling system, we recommend that the community consider installing a bank of smaller high-efficiency modular chillers. The use of multiple chillers will allow the operators to stage their use to match cooling requirements in the building and increase the overall operating efficiency of the cooling system.

**Air Handler.** The facility includes air handlers as part of the heating, ventilating, and air-conditioning system. The air handlers typically include a blower, heating or cooling coils, filter racks, operating controls, and dampers. Conditioned air from the air handler is distributed through the building through a system of ductwork. We consider the ductwork to be a long-life item and have excluded it from the Reserve Analysis.

Individual components within the air handler will require periodic replacement. We have assumed these replacements are maintenance items and have excluded them from the Reserve Analysis. The air handler itself has a service life of 20 to 40 years. If fan, motor, and coil replacements are performed as needed, the casings of these systems can last significantly longer.

**Circulation Pumps.** There are three (3) pumps located in the central plant that circulate the building heating, chilled, and condenser water, pumps for heating and chilled water, and pumps for condenser water.



The circulation pumps are equipped with variable speed controllers to regulate the flow of water in the system. We have assumed a service life of 20 years for the controllers.

**Fire Safety Systems.** The building is fitted with a fire safety system that includes sprinklers and alarms, and these are reported to be operating normally. Testing and inspection of fire safety systems are not included in this study.



Sprinkler pipe systems have a wide variety of configurations and requirements depending on their age, condition, and jurisdictional location. Specific county and municipal codes can make a significant difference in what your facility's specific requirements may be.

Building fire alarm systems have a service life of 15 to 25 years. While the panels may continue to operate past this point, changes in fire safety technology and building fire safety codes tend to render them obsolete. Also, manufacturers only support their systems for a limited period, typically about 15 years. After this time, it may be increasingly difficult to obtain replacement parts and service. When it becomes necessary to upgrade the fire alarm system, differences in the technologies and new code requirements are likely to require upgrades in lighting, sensors, alarms, and other system and sub-components.

For wet and dry pipe systems, we have assumed that these are long-life components and will not require whole-scale replacement. It is imperative however for these pipes to be properly drained or for the water to be properly

conditioned. Other components such as heads, gauges, and valves are assumed normal maintenance items and are therefore excluded from the study.

We recommend having your entire fire safety system inspected and evaluated by a professional in this field who is familiar with your area of the country. Additionally, a comprehensive preventative maintenance program will ensure the maximum possible useful life from these components, and a qualified professional will be able to help in setting up and implementing such a program.

Your local CAI chapter may have a service provider list on their web site that may refer you to a local fire and life safety consultant. As an alternative, please contact our office and we will provide recommendations.

As a preliminary estimate, we have provided an allowance every 15 years for the major repair and upgrade of the fire safety systems. A detailed evaluation of the facility's fire safety system should include an estimate of reserve funding for these components and this funding estimate should be incorporated in the next reserve study update. Inspections and annual maintenance work are not accounted for or included in this study.

**Building Electrical Service.** The electrical systems of the building are reported to be operating normally.

Other than transformers and meters and if protected from water damage or overloading, interior electrical systems within a building, including feed lines and switchgear, are considered long-life components, and unless otherwise noted, are excluded from this study.

To maintain this equipment properly, periodic tightening of all connections is recommended every three to five years. Insurance policies in some cases may have specific requirements regarding the tightening of electrical connections. It is also recommended that outlets, sockets, switches, and minor fixtures be replaced at a maximum of 30 years.



Replacement of these smaller components, unless otherwise identified, is considered incidental to refurbishment or is considered a Valuation Exclusion.

## RECREATION ITEMS

**Swimming Pool.** The community operates an outdoor pool of concrete construction. Listed below are the major components of the pool facilities:

The pool was winterized at the time of inspection and is reported to be in good condition.







- Pool Shell. The shell for the swimming pool is in good condition.
- Pool Deck. The pool has a concrete deck. The overall condition of the deck is fair condition with cracking.
- Whitecoat. The pool whitecoat is in good condition. We have assumed that the waterline tile will be replaced or restored when the pool is whitecoated.
- Coping. The pool is edged with masonry coping. The coping is in good condition
- Pump and Filter System. The filter system is in good operating condition.
- Pool Fence. The swimming pool is enclosed by a chain-link fence that is in good condition.

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

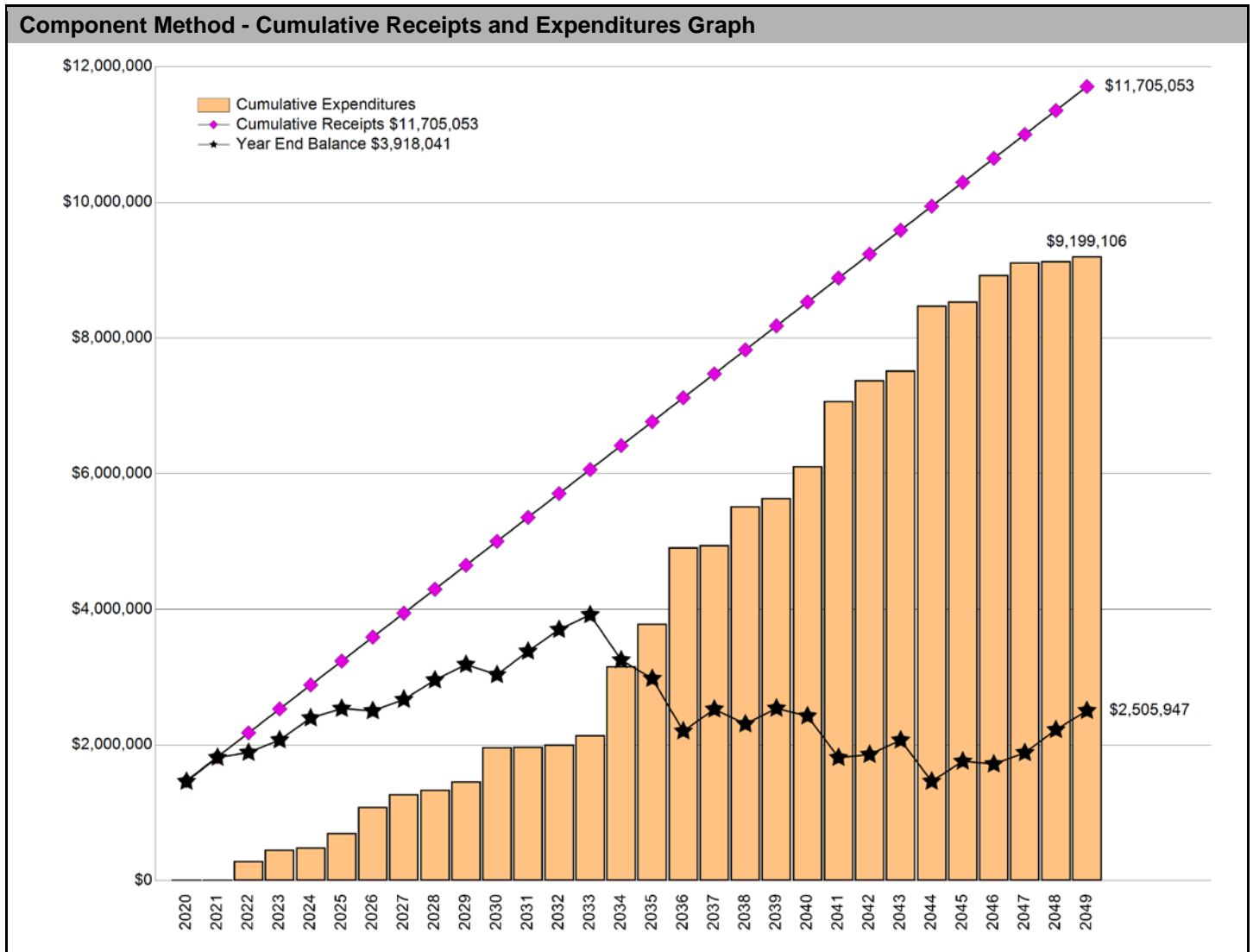
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## COMPONENT METHOD

**\$354,695** | **COMPONENT METHOD RECOMMENDED ANNUAL FUNDING OF REPLACEMENT RESERVES IN THE STUDY YEAR, 2020.**

\$127.40 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 139 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 CM.2.



**COMPONENT METHOD (CONT.)**

- **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 139 Projected Replacements. The total, \$3,117,306, is the Current Funding Objective.

*For an example, consider a 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 (\$1,118,088) by the Current Funding Objective (\$3,117,306). At The Devon Condominium the Funding Percentage is 35.9%
- **Allocation of the Beginning Balance.** The Beginning Balance is divided among the 18 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 35.9 percent funded, there is \$287 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 \$354,695, the Component Method Recommended Annual Funding of Replacement Reserves in the Study Year (2020).

*In our fence example, the \$287 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 \$357. Next year, the deposit remains \$357, 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.

| <b>Component Method Data - Years 1 through 30</b> |             |             |             |             |             |              |              |              |              |              |
|---|-------------|-------------|-------------|-------------|-------------|--------------|--------------|--------------|--------------|--------------|
| Year  | 2020        | 2021        | 2022        | 2023        | 2024        | 2025         | 2026         | 2027         | 2028         | 2029         |
| Beginning Balance                                 | \$1,118,088 |             |             |             |             |              |              |              |              |              |
| Recommended Annual Funding                        | \$354,695   | \$352,837   | \$352,837   | \$352,837   | \$352,837   | \$352,837    | \$352,837    | \$352,837    | \$352,837    | \$352,837    |
| Expenditures                                      | \$10,217    |             | \$279,251   | \$167,850   | \$28,900    | \$213,628    | \$387,281    | \$186,008    | \$66,096     | \$123,654    |
| Year End Balance                                  | \$1,462,566 | \$1,815,403 | \$1,888,988 | \$2,073,975 | \$2,397,912 | \$2,537,121  | \$2,502,678  | \$2,669,507  | \$2,956,248  | \$3,185,430  |
| Cumulative Expenditures                           | \$10,217    | \$10,217    | \$289,468   | \$457,318   | \$486,218   | \$699,846    | \$1,087,126  | \$1,273,134  | \$1,339,230  | \$1,462,885  |
| Cumulative Receipts                               | \$1,472,783 | \$1,825,619 | \$2,178,456 | \$2,531,293 | \$2,884,130 | \$3,236,967  | \$3,589,804  | \$3,942,641  | \$4,295,478  | \$4,648,315  |
| Year  | 2030        | 2031        | 2032        | 2033        | 2034        | 2035         | 2036         | 2037         | 2038         | 2039         |
| Recommended Annual Funding                        | \$352,837   | \$352,837   | \$352,837   | \$352,837   | \$352,837   | \$352,837    | \$352,837    | \$352,837    | \$352,837    | \$352,837    |
| Expenditures                                      | \$503,014   | \$7,758     | \$31,270    | \$136,695   | \$1,018,875 | \$626,562    | \$1,126,681  | \$30,036     | \$571,420    | \$121,321    |
| Year End Balance                                  | \$3,035,253 | \$3,380,332 | \$3,701,900 | \$3,918,041 | \$3,252,003 | \$2,978,278  | \$2,204,435  | \$2,527,236  | \$2,308,653  | \$2,540,169  |
| Cumulative Expenditures                           | \$1,965,899 | \$1,973,657 | \$2,004,926 | \$2,141,621 | \$3,160,499 | \$3,787,058  | \$4,913,739  | \$4,943,774  | \$5,515,194  | \$5,636,515  |
| Cumulative Receipts                               | \$5,001,152 | \$5,353,989 | \$5,706,826 | \$6,059,663 | \$6,412,499 | \$6,765,336  | \$7,118,173  | \$7,471,010  | \$7,823,847  | \$8,176,684  |
| Year  | 2040        | 2041        | 2042        | 2043        | 2044        | 2045         | 2046         | 2047         | 2048         | 2049         |
| Recommended Annual Funding                        | \$352,837   | \$352,837   | \$352,837   | \$352,837   | \$352,837   | \$352,837    | \$352,837    | \$352,837    | \$352,837    | \$352,837    |
| Expenditures                                      | \$466,685   | \$965,030   | \$307,819   | \$141,178   | \$959,825   | \$57,299     | \$393,335    | \$186,053    | \$14,096     | \$71,272     |
| Year End Balance                                  | \$2,426,321 | \$1,814,128 | \$1,859,146 | \$2,070,805 | \$1,463,817 | \$1,759,356  | \$1,718,857  | \$1,885,641  | \$2,224,382  | \$2,505,947  |
| Cumulative Expenditures                           | \$6,103,200 | \$7,068,230 | \$7,376,049 | \$7,517,227 | \$8,477,051 | \$8,534,350  | \$8,927,685  | \$9,113,738  | \$9,127,834  | \$9,199,106  |
| Cumulative Receipts                               | \$8,529,521 | \$8,882,358 | \$9,235,195 | \$9,588,032 | \$9,940,869 | \$10,293,706 | \$10,646,543 | \$10,999,379 | \$11,352,216 | \$11,705,053 |

**2020 - COMPONENT METHOD CATEGORY FUNDING REPORT**

Each of the 139 Projected Replacements included in the Devon Condominium Replacement Reserve Inventory has been assigned to one of the 6 categories listed in TABLE CM1 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 \$1,118,088 as of the first day of the Study Year, January 1, 2020.
- Total reserve funding (including the Beginning Balance) of \$1,472,783 in the Study Year.
- No expenditures from Replacement Reserves other than those specifically listed in the Replacement Reserve Inventory.
- All Projected Replacements scheduled in the Replacement Reserve Inventory in 2020 being accomplished in 2020 at a cost of \$10,217.

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.

| 2020 - COMPONENT METHOD CATEGORY FUNDING - TABLE CM1 |                      |                         |                            |                        |                      |                             |                          |
|--|----------------------|-------------------------|----------------------------|------------------------|----------------------|-----------------------------|--------------------------|
| CATEGORY   | NORMAL ECONOMIC LIFE | REMAINING ECONOMIC LIFE | ESTIMATED REPLACEMENT COST | 2020 BEGINNING BALANCE | 2020 RESERVE FUNDING | 2020 PROJECTED REPLACEMENTS | 2020 END OF YEAR BALANCE |
|  | 5 to 45 years        | 0 to 35 years           | \$349,841                  | \$74,062               | \$20,837             | \$10,217                    | \$87,330                 |
| MAIN BUILDING  | 10 to 80 years       | 5 to 39 years           | \$1,031,154                | \$61,429               | \$73,264             |                             | \$134,693                |
| MAIN BUILDING  | 2 to 40 years        | 2 to 39 years           | \$1,039,804                | \$134,977              | \$67,927             |                             | \$202,904                |
|  | 15 to 40 years       | 3 to 30 years           | \$5,062,595                | \$666,763              | \$173,352            |                             | \$840,116                |
|  | 6 to 40 years        | 6 to 19 years           | \$132,139                  | \$25,584               | \$7,388              |                             | \$32,972                 |
|  | 4 to 60 years        | 2 to 39 years           | \$293,182                  | \$32,784               | \$11,926             |                             | \$44,710                 |

**2021 - COMPONENT METHOD CATEGORY FUNDING REPORT**

Each of the 139 Projected Replacements included in the Devon Condominium Replacement Reserve Inventory has been assigned to one of the 6 categories listed in TABLE CM2 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 \$1,462,566 on January 1, 2021.
- Total reserve funding (including the Beginning Balance) of \$1,825,619 from 2020 to 2021.
- No expenditures from Replacement Reserves other than those specifically listed in the Replacement Reserve Inventory.
- All Projected Replacements scheduled in the Replacement Reserve Inventory in 2021 being accomplished in 2021 at a cost of \$0.

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.

| 2021 - COMPONENT METHOD CATEGORY FUNDING - TABLE CM2 |                      |                         |                            |                        |                      |                             |                          |
|--|----------------------|-------------------------|----------------------------|------------------------|----------------------|-----------------------------|--------------------------|
| CATEGORY   | NORMAL ECONOMIC LIFE | REMAINING ECONOMIC LIFE | ESTIMATED REPLACEMENT COST | 2021 BEGINNING BALANCE | 2021 RESERVE FUNDING | 2021 PROJECTED REPLACEMENTS | 2021 END OF YEAR BALANCE |
|  | 5 to 45 years        | 1 to 34 years           | \$349,841                  | \$87,330               | \$18,980             |                             | \$106,310                |
| MAIN BUILDING  | 10 to 80 years       | 4 to 38 years           | \$1,031,154                | \$134,693              | \$73,264             |                             | \$207,957                |
| MAIN BUILDING  | 2 to 40 years        | 1 to 38 years           | \$1,039,804                | \$202,904              | \$67,927             |                             | \$270,831                |
|  | 15 to 40 years       | 2 to 29 years           | \$5,062,595                | \$840,116              | \$173,352            |                             | \$1,013,468              |
|  | 6 to 40 years        | 5 to 18 years           | \$132,139                  | \$32,972               | \$7,388              |                             | \$40,360                 |
|  | 4 to 60 years        | 1 to 38 years           | \$293,182                  | \$44,710               | \$11,926             |                             | \$56,636                 |

**2022 - COMPONENT METHOD CATEGORY FUNDING REPORT**

Each of the 139 Projected Replacements included in the Devon Condominium Replacement Reserve Inventory has been assigned to one of the 6 categories listed in TABLE CM3 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 \$1,815,403 on January 1, 2022.
- Total reserve funding (including the Beginning Balance) of \$2,178,456 from 2021 to 2022.
- No expenditures from Replacement Reserves other than those specifically listed in the Replacement Reserve Inventory.
- All Projected Replacements scheduled in the Replacement Reserve Inventory in 2022 being accomplished in 2022 at a cost of \$279,251.

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.

| 2022 - COMPONENT METHOD CATEGORY FUNDING - TABLE CM3 |                      |                         |                            |                        |                      |                             |                          |
|--|----------------------|-------------------------|----------------------------|------------------------|----------------------|-----------------------------|--------------------------|
| CATEGORY   | NORMAL ECONOMIC LIFE | REMAINING ECONOMIC LIFE | ESTIMATED REPLACEMENT COST | 2022 BEGINNING BALANCE | 2022 RESERVE FUNDING | 2022 PROJECTED REPLACEMENTS | 2022 END OF YEAR BALANCE |
|  | 5 to 45 years        | 0 to 33 years           | \$349,841                  | \$106,310              | \$18,980             | \$78,019                    | \$89,779                 |
| MAIN BUILDING  | 10 to 80 years       | 3 to 37 years           | \$1,031,154                | \$207,957              | \$73,264             |                             | \$281,221                |
| MAIN BUILDING  | 2 to 40 years        | 0 to 37 years           | \$1,039,804                | \$270,831              | \$67,927             | \$196,232                   | \$247,777                |
|  | 15 to 40 years       | 1 to 28 years           | \$5,062,595                | \$1,013,468            | \$173,352            |                             | \$1,186,820              |
|  | 6 to 40 years        | 4 to 17 years           | \$132,139                  | \$40,360               | \$7,388              |                             | \$47,748                 |
|  | 4 to 60 years        | 0 to 37 years           | \$293,182                  | \$56,636               | \$11,926             | \$5,000                     | \$64,363                 |

TABLE CM4 below details the allocation of the \$1,118,088 Beginning Balance, as reported by the Association and the \$1,060,368 of Replacement Reserve Funding calculated by the Component Method from 2020 to 2022, to the 139 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 \$1,118,088 on January 1, 2020.
- Replacement Reserves on Deposit totaling \$1,462,566 on January 1, 2021.
- Replacement Reserves on Deposit totaling \$1,815,403 on January 1, 2022.
- Total Replacement Reserve funding (including the Beginning Balance) of \$2,178,456 from 2020 to 2022.
- No expenditures from Replacement Reserves other than those specifically listed in the Replacement Reserve Inventory.
- All Projected Replacements scheduled in the Replacement Reserve Inventory from 2020 to 2022 being accomplished as scheduled in the Replacement Reserve Inventory at a cost of \$289,468.

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 CM4 |                                      |                             |                                 |                      |                             |                          |                      |                             |                          |                      |                             |                          |
|---|--------------------------------------|-----------------------------|---------------------------------|----------------------|-----------------------------|--------------------------|----------------------|-----------------------------|--------------------------|----------------------|-----------------------------|--------------------------|
| Item #  | Description of Projected Replacement | Estimated Replacement Costs | Allocation of Beginning Balance | 2020 Reserve Funding | 2020 Projected Replacements | 2020 End of Year Balance | 2021 Reserve Funding | 2021 Projected Replacements | 2021 End of Year Balance | 2022 Reserve Funding | 2022 Projected Replacements | 2022 End of Year Balance |
| SITE ITEMS -  |                                      |                             |                                 |                      |                             |                          |                      |                             |                          |                      |                             |                          |
| 1   | Asphalt pavement, mill & overlay     | 78,019                      | 23,808                          | 3,901                |                             | 27,709                   | 3,901                |                             | 31,609                   | 3,901                | (78,019)                    |                          |
| 2   | Asphalt pavement, seal coat          | 10,217                      | 3,668                           | 3,901                | (10,217)                    |                          | 2,043                |                             | 2,043                    | 2,043                |                             | 4,087                    |
| 3   | Concrete curb & gutter, barrier (6%) | 5,396                       |                                 | 899                  |                             | 899                      | 899                  |                             | 1,799                    | 899                  |                             | 2,698                    |
| 4   | Concrete flatwork (6%)               | 7,758                       |                                 | 1,293                |                             | 1,293                    | 1,293                |                             | 2,586                    | 1,293                |                             | 3,879                    |
| 5   | Concrete steps                       | 8,940                       | 2,033                           | 298                  |                             | 2,331                    | 298                  |                             | 2,629                    | 298                  |                             | 2,927                    |
| 6   | Retaining wall, CMU (repoint)        | 855                         | 123                             | 86                   |                             | 208                      | 86                   |                             | 294                      | 86                   |                             | 379                      |
| 7   | Retaining wall, CMU (25%)            | 10,913                      | 1,828                           | 364                  |                             | 2,192                    | 364                  |                             | 2,556                    | 364                  |                             | 2,919                    |
| 8   | Metal guardrail w/ metal post        | 2,745                       | 419                             | 69                   |                             | 488                      | 69                   |                             | 556                      | 69                   |                             | 625                      |
| 9   | Fence, 3' vinyl picket               | 1,395                       | 50                              | 35                   |                             | 85                       | 35                   |                             | 120                      | 35                   |                             | 155                      |
| 10  | Fence, 3' decorative aluminum        | 3,173                       | 456                             | 71                   |                             | 526                      | 71                   |                             | 597                      | 71                   |                             | 667                      |
| 11  | Fence, 4' vinyl coated chain link    | 9,380                       | 1,347                           | 208                  |                             | 1,555                    | 208                  |                             | 1,764                    | 208                  |                             | 1,972                    |
| 12  | Site light, standard single head     | 20,500                      | 4,416                           | 1,025                |                             | 5,441                    | 1,025                |                             | 6,466                    | 1,025                |                             | 7,491                    |
| 13  | Site light, 12' aluminum pole        | 100,450                     | 26,445                          | 3,348                |                             | 29,793                   | 3,348                |                             | 33,142                   | 3,348                |                             | 36,490                   |
| 14  | Domestic water main (10%)            | 20,000                      | 1,436                           | 1,000                |                             | 2,436                    | 1,000                |                             | 3,436                    | 1,000                |                             | 4,436                    |
| 15  | Sanitary main (10%)                  | 10,000                      | 718                             | 500                  |                             | 1,218                    | 500                  |                             | 1,718                    | 500                  |                             | 2,218                    |
| 16  | Storm water management (10%)         | 40,000                      | 6,462                           | 2,000                |                             | 8,462                    | 2,000                |                             | 10,462                   | 2,000                |                             | 12,462                   |
| 17  | Irrigation, system                   | 15,000                      |                                 | 1,500                |                             | 1,500                    | 1,500                |                             | 3,000                    | 1,500                |                             | 4,500                    |
| 18  | Bench                                | 5,100                       | 854                             | 340                  |                             | 1,194                    | 340                  |                             | 1,534                    | 340                  |                             | 1,874                    |
| EXTERIOR ITEMS - MAIN   |                                      |                             |                                 |                      |                             |                          |                      |                             |                          |                      |                             |                          |
| 19  | Roofing, flat membrane (TPO)         | 415,800                     | 37,318                          | 20,790               |                             | 58,108                   | 20,790               |                             | 78,898                   | 20,790               |                             | 99,688                   |
| 20  | Roofing, flat membrane (TPO),        | 30,140                      | 2,705                           | 1,507                |                             | 4,212                    | 1,507                |                             | 5,719                    | 1,507                |                             | 7,226                    |
| 21  | Flashing and cap work                | 8,385                       | 753                             | 419                  |                             | 1,172                    | 419                  |                             | 1,591                    | 419                  |                             | 2,010                    |
| 22  | Skylight, glass vision panel, canopy | 9,500                       | 1,705                           | 317                  |                             | 2,022                    | 317                  |                             | 2,339                    | 317                  |                             | 2,655                    |
| 23  | Soffit, canopy                       | 15,070                      | 1,353                           | 754                  |                             | 2,106                    | 754                  |                             | 2,860                    | 754                  |                             | 3,613                    |
| 24  | Masonry (10% repointing)             | 400,000                     |                                 | 40,000               |                             | 40,000                   | 40,000               |                             | 80,000                   | 40,000               |                             | 120,000                  |
| 25  | Store front, curtain wall, replace   | 14,720                      | 2,642                           | 184                  |                             | 2,826                    | 184                  |                             | 3,010                    | 184                  |                             | 3,194                    |
| 26  | Store front, curtain wall, refurbish | 3,920                       | 704                             | 196                  |                             | 900                      | 196                  |                             | 1,096                    | 196                  |                             | 1,292                    |
| 27  | Door, aluminum & glass (3' X7')      | 5,520                       | 679                             | 158                  |                             | 837                      | 158                  |                             | 995                      | 158                  |                             | 1,153                    |
| 28  | Door, steel, flush (3' X 6'8")       | 5,760                       | 744                             | 230                  |                             | 975                      | 230                  |                             | 1,205                    | 230                  |                             | 1,436                    |
| 29  | Awning, stationary (replace)         | 5,030                       | 1,083                           | 126                  |                             | 1,209                    | 126                  |                             | 1,335                    | 126                  |                             | 1,461                    |
| 30  | Awning, refurbish structure          | 680                         | 49                              | 34                   |                             | 83                       | 34                   |                             | 117                      | 34                   |                             | 151                      |
| 31  | Awning, refabricate                  | 3,600                       | 517                             | 360                  |                             | 877                      | 360                  |                             | 1,237                    | 360                  |                             | 1,597                    |
| 32  | Balcony, concrete resurface (20%)    | 49,709                      |                                 | 4,971                |                             | 4,971                    | 4,971                |                             | 9,942                    | 4,971                |                             | 14,913                   |
| 33  | Balcony, aluminum railing (20%)      | 26,320                      | 6,749                           | 752                  |                             | 7,501                    | 752                  |                             | 8,253                    | 752                  |                             | 9,005                    |
| 34  | Garage door                          | 37,000                      | 4,428                           | 2,467                |                             | 6,894                    | 2,467                |                             | 9,361                    | 2,467                |                             | 11,828                   |
| INTERIOR ITEMS - MAIN   |                                      |                             |                                 |                      |                             |                          |                      |                             |                          |                      |                             |                          |
| 35  | Mailbox, interior cluster, recessed  | 17,400                      |                                 | 435                  |                             | 435                      | 435                  |                             | 870                      | 435                  |                             | 1,305                    |
| 36  | Hallway, redecorate                  | 24,000                      | 1,292                           | 1,200                |                             | 2,492                    | 1,200                |                             | 3,692                    | 1,200                |                             | 4,892                    |
| 37  | Hallway, refurbish                   | 134,880                     | 14,527                          | 13,488               |                             | 28,015                   | 13,488               |                             | 41,503                   | 13,488               |                             | 54,991                   |
| 38  | Flooring, carpet                     | 176,468                     | 19,006                          | 17,647               |                             | 36,652                   | 17,647               |                             | 54,299                   | 17,647               |                             | 71,946                   |
| 39  | Flooring, vinyl tile                 | 15,872                      | 3,256                           | 1,134                |                             | 4,390                    | 1,134                |                             | 5,523                    | 1,134                |                             | 6,657                    |
| 40  | Flooring, wood laminate, replace     | 188,232                     | 57,439                          | 9,412                |                             | 66,851                   | 9,412                |                             | 76,262                   | 9,412                | (188,232)                   |                          |





**COMPONENT METHOD - THREE-YEAR REPLACEMENT FUNDING - TABLE CM4 (cont.)**

| Item # | Description of Projected Replacement | Estimated Replacement Costs | Allocation of Beginning Balance | 2020 Reserve Funding | 2020 Projected Replacements | 2020 End of Year Balance | 2021 Reserve Funding | 2021 Projected Replacements | 2021 End of Year Balance | 2022 Reserve Funding | 2022 Projected Replacements | 2022 End of Year Balance |
|--------|--------------------------------------|-----------------------------|---------------------------------|----------------------|-----------------------------|--------------------------|----------------------|-----------------------------|--------------------------|----------------------|-----------------------------|--------------------------|
| 111    | Electrical, secondary                | 485,000                     |                                 | 32,333               |                             | 32,333                   | 32,333               |                             | 64,667                   | 32,333               |                             | 97,000                   |
|        | POOL HOUSE -                         |                             |                                 |                      |                             |                          |                      |                             |                          |                      |                             |                          |
| 112    | Roofing, flat membrane (EPDM)        | 60,060                      | 14,015                          | 3,003                |                             | 17,018                   | 3,003                |                             | 20,021                   | 3,003                |                             | 23,024                   |
| 113    | Soffit & trim, vinyl                 | 1,944                       | 454                             | 97                   |                             | 551                      | 97                   |                             | 648                      | 97                   |                             | 745                      |
| 114    | Masonry (repointing allowance)       | 3,000                       |                                 | 300                  |                             | 300                      | 300                  |                             | 600                      | 300                  |                             | 900                      |
| 115    | Window, operating                    | 7,905                       | 1,490                           | 198                  |                             | 1,688                    | 198                  |                             | 1,885                    | 198                  |                             | 2,083                    |
| 116    | Door, flush (3' X 6'8"), pool        | 31,500                      | 7,237                           | 1,260                |                             | 8,497                    | 1,260                |                             | 9,757                    | 1,260                |                             | 11,017                   |
| 117    | Flooring, carpet, cabana             | 6,305                       |                                 | 631                  |                             | 631                      | 631                  |                             | 1,261                    | 631                  |                             | 1,892                    |
| 118    | Sink, fixture & mirror, pool         | 400                         |                                 | 40                   |                             | 40                       | 40                   |                             | 80                       | 40                   |                             | 120                      |
| 119    | Toilet, pool                         | 2,000                       |                                 | 100                  |                             | 100                      | 100                  |                             | 200                      | 100                  |                             | 300                      |
| 120    | Concrete steps (6%), pool            | 6,929                       |                                 | 1,155                |                             | 1,155                    | 1,155                |                             | 2,310                    | 1,155                |                             | 3,464                    |
| 121    | Retaining wall, concrete (repair),   | 12,096                      | 2,388                           | 605                  |                             | 2,993                    | 605                  |                             | 3,598                    | 605                  |                             | 4,203                    |
|        | RECREATION ITEMS -                   |                             |                                 |                      |                             |                          |                      |                             |                          |                      |                             |                          |
| 122    | Swimming pool structure              | 191,250                     | 22,886                          | 3,188                |                             | 26,074                   | 3,188                |                             | 29,261                   | 3,188                |                             | 32,449                   |
| 123    | Swimming pool, whitecoat             | 18,026                      | 2,588                           | 1,803                |                             | 4,391                    | 1,803                |                             | 6,194                    | 1,803                |                             | 7,996                    |
| 124    | Swimming pool waterline tile (6x6)   | 2,096                       | 301                             | 210                  |                             | 511                      | 210                  |                             | 720                      | 210                  |                             | 930                      |
| 125    | Swimming pool coping, precast        | 5,753                       | 413                             | 288                  |                             | 701                      | 288                  |                             | 988                      | 288                  |                             | 1,276                    |
| 126    | Pool cover, safety mesh              | 13,703                      | 410                             | 1,142                |                             | 1,552                    | 1,142                |                             | 2,694                    | 1,142                |                             | 3,836                    |
| 127    | Pool deck, concrete (25%)            | 20,700                      | 2,973                           | 2,070                |                             | 5,043                    | 2,070                |                             | 7,113                    | 2,070                |                             | 9,183                    |
| 128    | Pool pump (3/4 hp)                   | 830                         |                                 | 166                  |                             | 166                      | 166                  |                             | 332                      | 166                  |                             | 498                      |
| 129    | Pool filter, Sand (19")              | 2,340                       |                                 | 156                  |                             | 156                      | 156                  |                             | 312                      | 156                  |                             | 468                      |
| 130    | Chemical tank                        | 840                         |                                 | 56                   |                             | 56                       | 56                   |                             | 112                      | 56                   |                             | 168                      |
| 131    | Chemical feed pump                   | 375                         |                                 | 75                   |                             | 75                       | 75                   |                             | 150                      | 75                   |                             | 225                      |
| 132    | Pool, eyewash                        | 600                         | 29                              | 20                   |                             | 49                       | 20                   |                             | 69                       | 20                   |                             | 89                       |
| 133    | Pool ladder (4 step)                 | 2,150                       | 347                             | 108                  |                             | 455                      | 108                  |                             | 562                      | 108                  |                             | 670                      |
| 134    | Safety rail                          | 1,800                       | 291                             | 90                   |                             | 381                      | 90                   |                             | 471                      | 90                   |                             | 561                      |
| 135    | Pool furniture                       | 5,000                       | 449                             | 1,250                |                             | 1,699                    | 1,250                |                             | 2,949                    | 1,250                | (5,000)                     | 509                      |
| 136    | Retaining wall, CMU (repoint), pool  | 1,368                       | 98                              | 137                  |                             | 235                      | 137                  |                             | 372                      | 137                  |                             | 509                      |
| 137    | Retaining wall, CMU (25%), pool      | 17,460                      | 627                             | 873                  |                             | 1,500                    | 873                  |                             | 2,373                    | 873                  |                             | 3,246                    |
| 138    | Concrete steps , pool                | 6,929                       | 1,161                           | 231                  |                             | 1,392                    | 231                  |                             | 1,623                    | 231                  |                             | 1,854                    |
| 139    | Fence, 8' chain link, pool           | 1,964                       | 211                             | 65                   |                             | 277                      | 65                   |                             | 342                      | 65                   |                             | 408                      |

## **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 1990 U.S. Census, there were 130,000 Community Associations. The Community Associations Institute (CAI), a national trade association, estimates in 2018 that there were more than 347,000 communities with over 73.5 million residents.

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, 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. Miller+Dodson provides a replacement reserve recommendation based on the Cash Flow Method in Section A, and the Component Method in the Appendix of the report.

**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.

**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.). The Appendix also includes the Accounting Summary for the Cash Flow Method and the Component Method.

### **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:

**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.

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 that is less than that arrived at by the Component Method.

**Component Method.** This method is a time-tested mathematical model developed by HUD in the early 1980s but has been generally relegated to a few States that require it by law. For the vast majority of Miller+Dodson's clients, this method is not used.

The Component Method 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.

### **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 Normal Economic Life (NEL).** 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 (REL).** 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 Balance.** Shown on the Summary Sheet A4, this amount is used in the Cash Flow Method only. Normally derived using the average annual expenditure over the study period, this is the minimum amount held in reserves for every year in the study period.

**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 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:

|                 |             |           |          |           |             |
|-----------------|-------------|-----------|----------|-----------|-------------|
| <b>ea</b>       | each        | <b>ls</b> | lump sum | <b>sy</b> | square yard |
| <b>ft or lf</b> | linear foot | <b>pr</b> | pair     | <b>cy</b> | cubic yard  |
| <b>sf</b>       | square foot |           |          |           |             |

What is a Reserve Study?  
Who are we?



<https://youtu.be/m4BcOE6q3Aw>

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



<https://youtu.be/40SodajTW1q>

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



<https://youtu.be/pYSMZ013VjQ>

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



<https://youtu.be/Qx8WHB9Cgnc>

What's in a Reserve Study and what's out?  
Improvement/Component, what's the difference?



<https://youtu.be/ZfBoAEhtf3E>

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



<https://youtu.be/1J2h7FIU3qw>

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



<https://youtu.be/aARD1B1Oa3o>

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



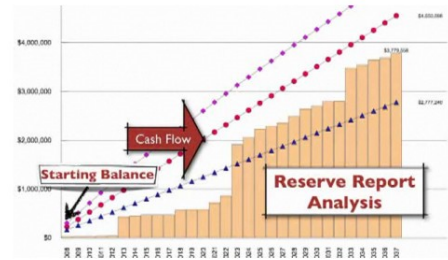
<https://youtu.be/diZfM1IyJYU>

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



<https://youtu.be/qCeVJhFf9ag>

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



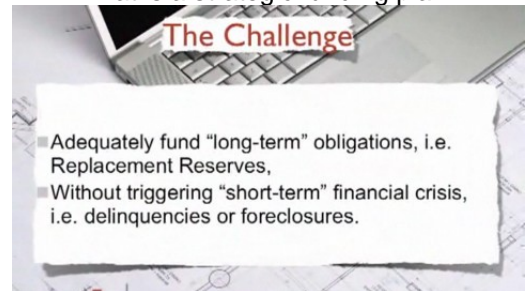
<https://youtu.be/SePdwVDvHWI>

How are interest and inflation addressed?  
Inflation, what should we consider?



<https://youtu.be/W8CDLwRlv68>

A community needs more help, where do we go?  
What is a strategic funding plan?



<https://youtu.be/hIxV9X1tlcA>