

COLONIAL GREEN ROW HOUSES MASTER

ROANOKE, VA

INTERACTIVE RESERVE ANALYSIS



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2302 E. Cary Street
Richmond, Va. 23223
804-644-6404
DMAreserves.com
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DMA does not support the validity of this report until a <u>*Working Session*</u> has been conducted with the Board of Directors and the final report issued.



TABLE OF CONTENTS COLONIAL GREEN ROW HOUSES MASTER

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This is a printout of a dynamic reserve analysis that will change over time. The analysis is made up of information sheets and spreadsheets, whose contents may change each time the analysis is updated. If comparing this report to other copies, verify the latest issue date on the front cover. Summary descriptions of the spreadsheets are provided below. Some spreadsheets, which are continuous in Excel, are divided up into several pages in this report for legibility.

| STANDARDS, LIMITATIONS AND LEGAL INFORMATION Contains Community Associations Institute (CAI) National Standards, limitations and legal restrictions on the use of information in this document and legal disclosures. | 3 |
|--|----|
| EXECUTIVE SUMMARY | 5 |
| Contains information on DMA personnel responsible for this analysis, community information and a summary of current financial information and funding plan information as of this issue date. | |
| SCHEDULE OF COMPONENTS | 7 |
| A complete listing of the community's assets included in the reserve account. This includes common area assets and may include limited common area assets. See "Scope of Reserves" in the Executive Summary for a list of inclusions or exclusions as appropriate. | |
| EXPENDITURE SUMMARY | 9 |
| This multi-page chart shows the reserve replacement projects budgeted for completion in each year of the 30-year study. Note: all costs in this chart are shown in current dollars. | |
| RESERVE FUNDING NAVIGATOR | 24 |
| This graph illustrates the reserve funding plan over the next 30 years. It shows the inflation rate used in the analysis as well as the contribution escalation rate required to fully fund the plan. | |
| CASH FLOW SPREADSHEETS | 25 |
| A spreadsheet divided into 6 pages showing the cash flow funding plan over 30 years. The total budgeted expenditures for each year, from the Expenditure Summary chart, are converted to future dollars on this sheet when an inflation rate has been introduced. | |
| ASSESSMENT ALLOCATION | 31 |
| The projected reserve account contributions for the next five years are broken down to an average cost per unit owner. An optional calculation is provided to show the operating fund allocation and total assessment allocation as well. | |
| ESCALATION CALCULATIONS | 32 |
| A list of historic indices based on R.S. Means | |
| APPENDIX | 33 |
| Includes several articles that explain how DMA's analyses work, how we estimate costs and useful life, and how we project the inflation rates. Also includes CAI National Reserve Study Standards and an explanation of maintenance and updating of this analysis. | |
| | |



STANDARDS, LIMITATIONS AND CONDITIONS DISCLOSURE AND LEGAL RESTRICTIONS

STUDY STANDARDS

This study was conducted in accordance with the Community Associations Institute National Reserve Study Standards. A summary of the standards is contained in our information article entitled "National Standards" which is included in the Appendix.

The data and analysis information that forms a part of this report was formatted in Microsoft Excel but contains proprietary programming and program coding that is not available for distribution to outside parties. Copies of the data and analysis information have been made available in Adobe's Portable Document Format and included as part of this report. Limited program versions can also be provided, upon request, in Excel format for easier viewing and navigating through the data.

STUDY LIMITATIONS AND CONDITIONS

- 1. No destructive testing, lab analysis or other investigative methods were used to determine the condition of the components. Due to these limitations, as set forth in the reserve study guidelines that we subscribe to, the limited visual observations that were made are not sufficient to be considered a qualified architectural or engineering assessment of the state or condition of the components.
- 2. All common areas on the property were observed unless access was limited or not made available to us at the time of the inspection. The observations and opinions expressed herein with regard to the useful life of the components are based on our general professional knowledge of construction and our knowledge of the typical replacement experience of many communities and other entities with the same component types.
- 3. The inventory included taking field measurements, measurements from aerial and satellite imagery, digitized measurement over photo imagery and takeoffs and measurements from design and as-built drawings as there were deemed to be reliable. In the case of a Level II Update the quantities provided by the Client from previous studies was utilized when it was deemed to be reliable and accurate. In the case of a Level III Update all inventory data from previous studies provided by the Client was deemed accurate and reliable.
- 4. Our projections of remaining useful life are not architectural or engineering recommendations for executing specific projects. As the end of the remaining useful life approaches, as set forth in this study, the association should seek professional architectural, engineering, contractor, service providers or qualified product manufacturer or supplier assistance, as appropriate, and as to the need for and the scheduling of each specific replacement project. Particularly those of any significant magnitude.
- 5. An asset can be made up of several components that need to be maintained, repaired and replaced. Other elements of the asset may be considered permanent with respect to the asset. The schedule of components provided herein, is based upon information received from the client regarding the common elements and/or assets that the client is responsible for. It is the client's responsibility to verify that the schedule of components is complete.
- 6. Financial information including the present fund balance, interest from funds on deposit, and recent capital expenditures, were provided by the Association and are deemed reliable and complete by Design/Management Associates, Inc.

- 7. Information provided by the Association about prior reserve replacement projects is considered to be reliable and complete. No inspection by Design/Management Associates, Inc. should be interpreted as a project audit or quality inspection.
- 8. Industry Life Expectancy is based on printed product literature, product or material warranties, industry standards literature, and on the opinions of manufacturers, installers, or maintenance contractors based on their experience with these products and materials.
- 9. Unit prices are based on published unit price standards such as R. S. Means "Residential Cost Data", Facilities Maintenance and Repair Cost Data, and "Facilities Construction Cost Data", latest editions, and on pricing obtained from contractors, installers, or manufacturers. All prices are given in present dollars unless noted otherwise. Prices listed are not guaranteed as exact quotes for work included.
- 10. This analysis incorporates assumptions about the future rate of inflation, and the future interest income on your account deposits. If significant changes occur in either of these rates, this calculation should be re-run with current information.
- 11. The results of this analysis are predicated on your contributing the recommended amount in each previous year and on expenses occurring generally as predicted. The Reserve Study should be updated at least every 3 to 5 years, which may depend on statutory requirements, to correct for normal variations. However if significant changes occur in your present funding or in major expenses, in a shorter period of time, the account should be re-run.
- 12. DMA's Capital Replacement Reserve Studies are designed to be used as planning tools. They are a reflection of information provided by the Association and our analytical inputs, and are assembled for the Association's use. This reserve study should not be used for the purpose of performing an audit, quality/forensic analysis, or for background checks of historical records.

DISCLOSURE

DMA does not have any financial interest in this community, its management company or any vendor mentioned or used in this study beyond this work. This study represents all facts know to DMA at the time of it's preparation that if purposefully omitted would cause a distortion of the Association's situation regarding it's capital reserve plan.

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EXECUTIVE SUMMARY

COLONIAL GREEN ROW HOUSES MASTER

RESERVE SPECIALIST AND STAFF RESPONSIBLE FOR THIS ANALYSIS

This study was prepared under the direct supervision of:

Lynette Wuensch, a Reserve Specialist certified by the Community Association Institute and a registered Professional Engineer in Virginia, Florida and North Carolina. Ms. Wuensch holds a BS degree in Civil Engineering.

The field survey, inventory, and condition assessment was conducted by:

Lynette Wuensch, a Reserve Specialist certified by the Community Association Institute and a registered Professional Engineer in Virginia, Florida and North Carolina. Ms. Wuensch holds a BS degree in Civil Engineering.

The cost estimating data was prepared by:

Tim R. Gebott, who has over 40 years construction contract estimating and programming experience. Mr. Gebott holds a BS degree in Civil Engineering.

COMMUNITY INFORMATION

COLONIAL GREEN ROW HOUSES MASTER

| Study Level: | II II |
|-----------------------------------|--|
| Association Name: | Colonial Green Neighborhood Association |
| Community Location / Address: | Roanoke, Virginia |
| Community Size (Number of Units): | 18 |
| Unit Type(s): | Row Houses |
| Management: | Hall Associates, Inc. |
| Represented by: | Christina L. Greene, CMCA, AMS, PCAM |
| Telephone and E-mail: | 540-982-0011, ext. 155; Chrissy Greene <cgreene@hallassociatesinc.com></cgreene@hallassociatesinc.com> |
| Year(s) constructed: | 2006 |
| Scope of Reserves: | |
| | |

FINANCIAL SUMMARY

| Current Reserve Account Balance Information: | | | | |
|---|----------|-------|------------|--|
| Average annual income rate on reserve deposit accounts: | 0.10% | | | |
| Balance on account: | \$20,023 | as of | 12/31/2017 | |
| Less contributions already made this year: | | | | |
| Plus expenditures already made and/or scheduled: | | | | |
| Money held in investment accounts: | \$0 | | | |
| Total balance: | \$20,023 | as of | 1/1/2018 | |
| | | | | |
| Reserve Account Contribution in Study Year: | | | | |
| Current budgeted contribution for study year: | \$4,819 | for | 2018 | |
| Recommended contribution for study year from Reserve Funding Navigator worksheet: | \$4,819 | | | |
| Remaining contribution to be made for study year: | \$4,819 | | | |
| | | | | |

INTERACTIVE ANALYSIS - WORKING DRAFT

This document is a draft print-out of the spreadsheet analysis for your community's capital reserve account. It illustrates your current fund balance, current funding level, investment income and projected annual expenditures - all in current dollars. **NOTE: THIS DRAFT REPORT DOES NOT CONTAIN A FUNDING SOLUTION!** The next step in the completion of this analysis is a **working session** conducted with representatives of the community. The working session will review all input information and assumptions made in the analysis. We will then look together at alternate funding plans, from which the community can select a model to become the recommended working in the report. For the session to be most successful, participants should include management, association board members and/or budget committee members. The working session can be conducted online via an internet link or in person. A complete explanation of the working session is available in our information article entitled "DMA's Working Session" included in the Appendix. Upon completion of the interactive working session(s) the primary results of the analysis will be shown below.

| CASH FLOW FUNDING MODEL (current as of the latest date on the cover of this report): | | |
|--|---------------|-------------|
| Projected Inflation and Escalation Rates (from Reserve Funding Navigator): | | |
| The projected inflation rate used in this printout is: | 2.49% | |
| The projected annual contribution escalation rate in this printout is: | 7.50% | |
| Reserve Funding Projections for next Four Years (from Reserve Funding Navigator): | <u>Amount</u> | <u>Year</u> |
| | \$5,180.38 | 2019 |
| | \$5,568.91 | 2020 |
| | \$5,986.58 | 2021 |
| | \$6,435.57 | 2022 |



| ВА | ASIC COMPONENT INFORMATION SITE VISIT INFORMATION | | | | | |
|-------------|---|-------|-------|--|-----------------------------|--|
| LINE NUMBER | LINE NUMBER COMPONENT NAME | | UNITS | % QUANTITY TO BE REPLACED EACH OCCURRENCE | LAST IN- SERVICE DATE | |
| | | | | | 2006 | |
| 1.00 | Row Houses | | | | | |
| 1.01 | Roofs - 19 - A,B,C,D | 60 | SQ | 100% | 2007 | |
| 1.02 | Roofs - 22 - A,B,C,D | 59 | SQ | 100% | 2007 | |
| 1.03 | Roofs - 20 - A,B,C,D, E | 73 | SQ | 100% | 2008 | |
| 1.04 | Roofs - 21 - A,B,C,D, E | 70 | SQ | 100% | 2009 | |
| 1.05 | Soffits, Fascia, Trim - 19 - A,B,C,D | 2,808 | LF | 100% | 2007 | |
| 1.06 | Soffits, Fascia, Trim - 22 - A,B,C,D | 2,479 | LF | 100% | 2007 | |
| 1.07 | Soffits, Fascia, Trim - 20 - A,B,C,D, E | 3,170 | LF | 100% | 2008 | |
| 1.08 | Soffits, Fascia, Trim - 21 - A,B,C,D, E | 2,570 | LF | 100% | 2009 | |
| 1.09 | Gutters and Downspouts - 19 - A,B,C,D | 647 | LF | 100% | 2007 | |
| 1.10 | Gutters and Downspouts - 22 - A,B,C,D | 602 | LF | 100% | 2007 | |
| 1.11 | Gutters and Downspouts - 20 - A,B,C,D, E | 548 | LF | 100% | 2008 | |
| 1.12 | Gutters and Downspouts - 21 - A,B,C,D,E | 735 | LF | 100% | 2009 | |
| 1.13 | Vinyl Siding - 19 - A,B,C,D | 3,035 | SF | 100% | 2007 | |
| 1.14 | Vinyl Siding - 22 - A,B,C,D | 3,600 | SF | 100% | 2007 | |
| 1.15 | Vinyl Siding - 20 - A,B,C,D, E | 4,200 | SF | 100% | 2008 | |
| 1.16 | Vinyl Siding - 21 - A,B,C,D, E | 4,600 | SF | 100% | 2009 | |



COMPONENT LIFECYCLE AND COSTING COLONIAL GREEN ROW HOUSES MASTER

| DΛ | SIC COMPONENT INFORMATION | | | PVCI E | | REPLACEMENT COST | | | | |
|-------------|--|--|---|--|-----------------------------|--|------------|-------------------|------------|-------------------------------------|
| DA | SIC COMPONENT INFORMATION | | LIFE | CYCLE | | LOCATION CCI | 86.1 | | BASE CCI | 87.3 |
| LINE NUMBER | COMPONENT NAME | CURRENT ESTIMATED USEFUL LIFE (EUL) | REPLACEMENT INTERVAL AFTER FIRST REPLACEMENT | REMAINING USEFUL LIFE OR YEARS PAST DUE | NEXT REPLACEMENT YEAR | % OF TOTAL QUANTITY TO BE REPLACED | UNITS | QUANTITY OR COUNT | UNIT COST | REPLACEMENT COST, PER OCCURRENCE |
| | | DEFAULT | DEFAULT | 2018 | AUTO CALC | NO EDITING | NO EDITING | NO EDITING | NO EDITING | NO EDITING |
| 1.00 | Row Houses | | | | | | | | | |
| 1.01 | Roofs - 19 - A,B,C,D | 25 | 25 | 14 | 2032 | 100% | SQ | 60 | \$372.20 | \$22,332.00 |
| 1.02 | Roofs - 22 - A,B,C,D | 25 | 25 | 14 | 2032 | 100% | SQ | 59 | \$372.20 | \$21,959.80 |
| 1.03 | Roofs - 20 - A,B,C,D, E | 25 | 25 | 15 | 2033 | 100% | SQ | 73 | \$372.20 | \$27,170.60 |
| 1.04 | Roofs - 21 - A,B,C,D, E | 25 | 25 | 16 | 2034 | 100% | SQ | 70 | \$372.20 | \$26,054.00 |
| 1.05 | Soffits, Fascia, Trim - 19 - A,B,C,D | 40 | 40 | 29 | 2047 | 100% | LF | 2,808 | \$5.42 | \$15,219.36 |
| 1.06 | Soffits, Fascia, Trim - 22 - A,B,C,D | 40 | 40 | 29 | 2047 | 100% | LF | 2,479 | \$5.42 | \$13,436.18 |
| 1.07 | Soffits, Fascia, Trim - 20 - A,B,C,D, E | 40 | 40 | 30 | 2048 | 100% | LF | 3,170 | \$5.42 | \$17,181.40 |
| 1.08 | Soffits, Fascia, Trim - 21 - A,B,C,D, E | 40 | 40 | 31 | 2049 | 100% | LF | 2,570 | \$5.42 | \$13,929.40 |
| 1.09 | Gutters and Downspouts - 19 - A,B,C,D | 25 | 25 | 14 | 2032 | 100% | LF | 647 | \$9.58 | \$6,198.26 |
| 1.10 | Gutters and Downspouts - 22 - A,B,C,D | 25 | 25 | 14 | 2032 | 100% | LF | 602 | \$9.58 | \$5,767.16 |
| 1.11 | Gutters and Downspouts - 20 - A,B,C,D, E | 25 | 25 | 15 | 2033 | 100% | LF | 548 | \$9.58 | \$5,249.84 |
| 1.12 | Gutters and Downspouts - 21 - A,B,C,D,E | 25 | 25 | 16 | 2034 | 100% | LF | 735 | \$9.58 | \$7,041.30 |
| 1.13 | Vinyl Siding - 19 - A,B,C,D | 40 | 40 | 29 | 2047 | 100% | SF | 3,035 | \$6.30 | \$19,120.50 |
| 1.14 | Vinyl Siding - 22 - A,B,C,D | 40 | 40 | 29 | 2047 | 100% | SF | 3,600 | \$6.30 | \$22,680.00 |
| 1.15 | Vinyl Siding - 20 - A,B,C,D, E | 40 | 40 | 30 | 2048 | 100% | SF | 4,200 | \$6.30 | \$26,460.00 |
| 1.16 | Vinyl Siding - 21 - A,B,C,D, E | 40 | 40 | 31 | 2049 | 100% | SF | 4,600 | \$6.30 | \$28,980.00 |



EXPENDITURE SUMMARYCOLONIAL GREEN ROW HOUSES MASTER

2018

Sum of 2018 LINE NUMBER

COMPONENT NAM LOCATION Total

2019

Sum of 2019

LINE NUMBER COMPONENT NAME

LOCATION

Total

2020
Sum of 2020
LINE NUMBER COMPONENT NAME
LOCATION Total LINE NUMBER COMPONENT NAME LOCATION Total

2022
Sum of 2022
LINE NUMBER COMPONENT NAME LOCATION Total
LINE NUMBER COMPONENT NAME LOCATION Total

2024
Sum of 2024
LINE NUMBER COMPONENT NAME LOCATION Total
LINE NUMBER COMPONENT NAME LOCATION Total

2026
Sum of 2026
Sum of 2027
LINE NUMBER COMPONENT NAME LOCATION Total
LINE NUMBER COMPONENT NAME LOCATION Total

2028
Sum of 2028
LINE NUMBER COMPONENT NAME LOCATION Total
LINE NUMBER COMPONENT NAME LOCATION Total

2030
Sum of 2030
Sum of 2031
LINE NUMBER COMPONENT NAME LOCATION Total
LINE NUMBER COMPONENT NAME LOCATION Total

| Sum of 2032 | | |
|---|------------------|----------|
| LINE NUMBE COMPONENT NAME | LOCATION | Total |
| 1.01 Roofs - 19 - A,B,C,D | (blank) | \$22,332 |
| 1.02 Roofs - 22 - A,B,C,D | (blank) | \$21,960 |
| 1.09 Gutters and Downspouts - 19 - A,B,C, | D (blank) | \$6,198 |
| 1.1 Gutters and Downspouts - 22 - A,B,C, | D (blank) | \$5,767 |
| Grand Total | | \$56,257 |

| Sum of 2033 | | |
|---|----------|----------|
| LINE NUMBER COMPONENT NAME | LOCATION | Total |
| 1.03 Roofs - 20 - A,B,C,D, E | (blank) | \$27,171 |
| 1.11 Gutters and Downspouts - 20 - A,B,C,D, E | (blank) | \$5,250 |
| Grand Total | | \$32,420 |

| Sum of 2034 | | |
|--|--------------------|----------|
| LINE NUMBER COMPONENT NAME | LOCATION | Total |
| 1.04 Roofs - 21 - A,B,C,D, E | (blank) | \$26,054 |
| 1.12 Gutters and Downspouts - 21 - A,B,C,I |),E (blank) | \$7,041 |
| Grand Total | | \$33,095 |

| Sum of 2035 | | | |
|-------------|----------------|----------|-------|
| LINE NUMBER | COMPONENT NAME | LOCATION | Total |

2036
Sum of 2036
Sum of 2037
LINE NUMBER COMPONENT NAME LOCATION Total
LINE NUMBER COMPONENT NAME LOCATION Total

2038
Sum of 2038
LINE NUMBER COMPONENT NAME
LOCATION Total
LINE NUMBER COMPONENT NAME
LOCATION Total

2040
Sum of 2040
Sum of 2040
LINE NUMBER COMPONENT NAME LOCATION Total
LINE NUMBER COMPONENT NAME LOCATION Total

2042 2043
Sum of 2042 Sum of 2043
LINE NUMBER COMPONENT NAME LOCATION Total
LINE NUMBER COMPONENT NAME LOCATION Total

2044
Sum of 2044
Sum of 2045
LINE NUMBER COMPONENT NAME LOCATION Total
LINE NUMBER COMPONENT NAME LOCATION Total

| Sum of 2046 | | | |
|-------------|----------------|----------|-------|
| LINE NUMBER | COMPONENT NAME | LOCATION | Total |

| Sum of 2047 | | | |
|--------------------|--------------------------------------|----------|----------|
| LINE NUMBER | COMPONENT NAME | LOCATION | Total |
| 1.05 | Soffits, Fascia, Trim - 19 - A,B,C,D | (blank) | \$15,219 |
| 1.06 | Soffits, Fascia, Trim - 22 - A,B,C,D | (blank) | \$13,436 |
| 1.13 | Vinyl Siding - 19 - A,B,C,D | (blank) | \$19,121 |
| 1.14 | Vinyl Siding - 22 - A,B,C,D | (blank) | \$22,680 |
| Grand Total | | | \$70,456 |

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RESERVE FUNDING NAVIGATOR

CASH FLOW METHODOLOGY

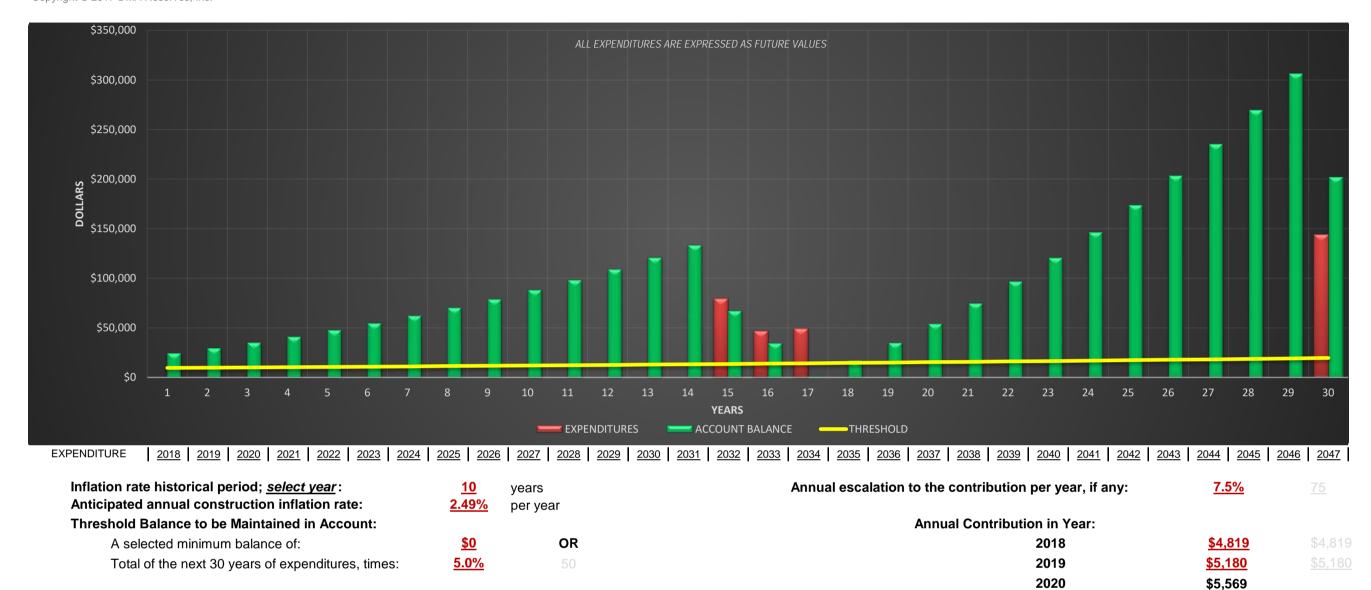
\$5,987

\$6,436

COLONIAL GREEN ROW HOUSES MASTER

2021

2022



The graph above is a pictorial representation of the cash flow funding model used for this analysis. It illustrates the projected reserve account balance in each of the next 30 years (green bars) as it is impacted by the projected reserve expenditures over the same period (red bars). The yellow line is a designated threshold or "floor" of the reserve account - a line that allows the plan to keep the account balance equal to or greater than in the lowest balance year(s). It essentially represents a contingency balance that the account will always be available over and above the amounts required to fund all of the components when the funding model projects them to be replaced. This threshold value is not prescribed by law or standards, and can be adjusted to a level desired by the community.

The graph is called a "navigator" because the funding model can be adjusted from this sheet to react to varying inflation rates, interest rates, actual adjusted account balances, and variations in reserve expenditures and project schedules based on your community's actual experience, and in response to changes in priorities. These adjustments are typically performed in real time during a live working session, where the participants can see the impact of any and all changes on the account, and determine how to respond to them.

If this navigator shows an inflation rate of 0.0% and an annual escalation to the contribution of 0.0% then all numbers in the analysis shown are in current dollars only. These rates will be adjusted in the live working session.



CASH FLOW SPREADSHEET COLONIAL GREEN ROW HOUSES MASTER

| YEAR | 1 | 2 | 3 | 4 | 5 |
|---|-------------|----------|----------|----------|----------|
| CALENDAR YEAR | 2018 | 2019 | 2020 | 2021 | 2022 |
| | | | • | | |
| PROGRAMMED EXPENDITURES, PRESENT WORTH VALUES | | | | | |
| SCHEDULE OF REPAIRS AND REPLACEMENTS | \$0 | \$0 | \$0 | \$0 | \$0 |
| CAPITAL IMPROVEMENT PROJECTS | \$0 | \$0 | \$0 | \$0 | \$0 |
| | | | | | |
| BEGINNING YEAR BALANCE | \$20,023 | \$24,842 | \$30,047 | \$35,646 | \$41,668 |
| FINANCIAL ANALYSIS SUMMARY | | | | | |
| INCOME | | | | | |
| CONTRIBUTION TO RESERVES | \$4,819 | \$5,180 | \$5,569 | \$5,987 | \$6,436 |
| LOAN DEPOSITS | \$0 | \$0 | \$0 | \$0 | \$0 |
| PLUS SPECIAL ASSESSMENTS | \$0 | \$0 | \$0 | \$0 | \$0 |
| PLUS OTHER FUNDS COMING DUE | \$0 | \$0 | \$0 | \$0 | \$0 |
| PLUS INVESTMENT INCOME ON PRIOR YEAR'S ENDING BALANCE | \$0 | \$25 | \$30 | \$36 | \$42 |
| INVESTMENT 1 | \$0 | \$0 | \$0 | \$0 | \$0 |
| INVESTMENT 2 | \$0 | \$0 | \$0 | \$0 | \$0 |
| TOTAL INCOME | \$4,819 | \$5,205 | \$5,599 | \$6,022 | \$6,477 |
| | | | | | |
| EXPENDITURES, FUTURE VALUES | | | | | |
| SCHEDULE OF REPAIRS AND REPLACEMENTS | \$0 | \$0 | \$0 | \$0 | \$0 |
| CAPITAL IMPROVEMENT PROJECTS | \$0 | \$0 | \$0 | \$0 | \$0 |
| FINANCIAL LOAN PAYMENT | \$0 | \$0 | \$0 | \$0 | \$0 |
| OTHER DISBURSEMENTS | \$0 | \$0 | \$0 | \$0 | \$0 |
| TOTAL EXPENDITURES | \$ 0 | \$0 | \$0 | \$0 | \$0 |
| | | 1 | | | |
| END OF YEAR BALANCE | \$24,842 | \$30,047 | \$35,646 | \$41,668 | \$48,145 |
| | | | | | |
| MINIMUM ACCOUNT THRESHOLD | | | | | |
| CALCULATED THRESHOLD AS A % OF TOTAL 30 YEAR COSTS | \$9,611 | \$9,851 | \$10,096 | \$10,348 | \$10,606 |
| FUNDING OBJECTIVE MET? | YES | YES | YES | YES | YES |
| MINIMUM REQUIRED CASH TRANSFER | \$0 | \$0 | \$0 | \$0 | \$0 |
| | | | | | |
| ESCALATION, INFLATION, EARNINGS RATES | | | | | |
| ANNUAL CONTRIBUTION ESCALATION: | N/A | 7.50% | 7.50% | 7.50% | 7.50% |
| ANNUAL CONSTRUCTION COST ESCALATION: | N/A | 2.49% | 2.49% | 2.49% | 2.49% |
| ANNUAL RESERVE ACCOUNT INCOME RATE | 0.10% | 0.10% | 0.10% | 0.10% | 0.10% |



| YEAR | 6 | 7 | 8 | 9 | 10 |
|---|----------|----------|----------|----------|----------|
| CALENDAR YEAR | 2023 | 2024 | 2025 | 2026 | 2027 |
| | | | | | |
| PROGRAMMED EXPENDITURES, PRESENT WORTH VALUES | | | | | |
| SCHEDULE OF REPAIRS AND REPLACEMENTS | \$0 | \$0 | \$0 | \$0 | \$0 |
| CAPITAL IMPROVEMENT PROJECTS | \$0 | \$0 | \$0 | \$0 | \$0 |
| | | | | | |
| BEGINNING YEAR BALANCE | \$48,145 | \$55,112 | \$62,604 | \$70,661 | \$79,327 |
| FINANCIAL ANALYSIS SUMMARY | | _ | • | | |
| INCOME | | | | | |
| CONTRIBUTION TO RESERVES | \$6,918 | \$7,437 | \$7,995 | \$8,595 | \$9,239 |
| LOAN DEPOSITS | \$0 | \$0 | \$0 | \$0 | \$0 |
| PLUS SPECIAL ASSESSMENTS | \$0 | \$0 | \$0 | \$0 | \$0 |
| PLUS OTHER FUNDS COMING DUE | \$0 | \$0 | \$0 | \$0 | \$0 |
| PLUS INVESTMENT INCOME ON PRIOR YEAR'S ENDING BALANCE | \$48 | \$55 | \$63 | \$71 | \$79 |
| INVESTMENT 1 | \$0 | \$0 | \$0 | \$0 | \$0 |
| INVESTMENT 2 | \$0 | \$0 | \$0 | \$0 | \$0 |
| TOTAL INCOME | \$6,966 | \$7,492 | \$8,057 | \$8,665 | \$9,318 |
| , | | _ | • | . | |
| EXPENDITURES, FUTURE VALUES | | | | | |
| SCHEDULE OF REPAIRS AND REPLACEMENTS | \$0 | \$0 | \$0 | \$0 | \$0 |
| CAPITAL IMPROVEMENT PROJECTS | \$0 | \$0 | \$0 | \$0 | \$0 |
| FINANCIAL LOAN PAYMENT | \$0 | \$0 | \$0 | \$0 | \$0 |
| OTHER DISBURSEMENTS | \$0 | \$0 | \$0 | \$0 | \$0 |
| TOTAL EXPENDITURES | \$0 | \$0 | \$0 | \$0 | \$0 |
| | | | | | |
| END OF YEAR BALANCE | \$55,112 | \$62,604 | \$70,661 | \$79,327 | \$88,645 |
| | | | | | |
| MINIMUM ACCOUNT THRESHOLD | | | | | |
| CALCULATED THRESHOLD AS A % OF TOTAL 30 YEAR COSTS | \$10,870 | \$11,141 | \$11,418 | \$11,703 | \$11,994 |
| FUNDING OBJECTIVE MET? | YES | YES | YES | YES | YES |
| MINIMUM REQUIRED CASH TRANSFER | \$0 | \$0 | \$0 | \$0 | \$0 |
| | | | | | |
| ESCALATION, INFLATION, EARNINGS RATES | | | | | |
| ANNUAL CONTRIBUTION ESCALATION: | 7.50% | 7.50% | 7.50% | 7.50% | 7.50% |
| ANNUAL CONSTRUCTION COST ESCALATION: | 2.49% | 2.49% | 2.49% | 2.49% | 2.49% |
| ANNUAL RESERVE ACCOUNT INCOME RATE | 0.10% | 0.10% | 0.10% | 0.10% | 0.10% |



| YEAR | 11 | 12 | 13 | 14 | 15 |
|---|-------------|-----------|-----------|-----------|-----------|
| CALENDAR YEAR | 2028 | 2029 | 2030 | 2031 | 2032 |
| | | | | | |
| PROGRAMMED EXPENDITURES, PRESENT WORTH VALUES | | | | | |
| SCHEDULE OF REPAIRS AND REPLACEMENTS | \$0 | \$0 | \$0 | \$0 | \$56,257 |
| CAPITAL IMPROVEMENT PROJECTS | \$0 | \$0 | \$0 | \$0 | \$0 |
| | | | | | |
| BEGINNING YEAR BALANCE | \$88,645 | \$98,666 | \$109,441 | \$121,028 | \$133,488 |
| FINANCIAL ANALYSIS SUMMARY | | | | | |
| INCOME | | | | | |
| CONTRIBUTION TO RESERVES | \$9,932 | \$10,677 | \$11,478 | \$12,339 | \$13,264 |
| LOAN DEPOSITS | \$0 | \$0 | \$0 | \$0 | \$0 |
| PLUS SPECIAL ASSESSMENTS | \$0 | \$0 | \$0 | \$0 | \$0 |
| PLUS OTHER FUNDS COMING DUE | \$0 | \$0 | \$0 | \$0 | \$0 |
| PLUS INVESTMENT INCOME ON PRIOR YEAR'S ENDING BALANCE | \$89 | \$99 | \$109 | \$121 | \$133 |
| INVESTMENT 1 | \$0 | \$0 | \$0 | \$0 | \$0 |
| INVESTMENT 2 | \$0 | \$0 | \$0 | \$0 | \$0 |
| TOTAL INCOME | \$10,021 | \$10,776 | \$11,587 | \$12,460 | \$13,397 |
| | | | | | |
| EXPENDITURES, FUTURE VALUES | | | | | |
| SCHEDULE OF REPAIRS AND REPLACEMENTS | \$0 | \$0 | \$0 | \$0 | \$79,397 |
| CAPITAL IMPROVEMENT PROJECTS | \$0 | \$0 | \$0 | \$0 | \$0 |
| FINANCIAL LOAN PAYMENT | \$0 | \$0 | \$0 | \$0 | \$0 |
| OTHER DISBURSEMENTS | \$0 | \$0 | \$0 | \$0 | \$0 |
| TOTAL EXPENDITURES | \$ 0 | \$0 | \$0 | \$0 | \$79,397 |
| | | | | | |
| END OF YEAR BALANCE | \$98,666 | \$109,441 | \$121,028 | \$133,488 | \$67,489 |
| | | | | | |
| MINIMUM ACCOUNT THRESHOLD | | | | | |
| CALCULATED THRESHOLD AS A % OF TOTAL 30 YEAR COSTS | \$12,293 | \$12,599 | \$12,913 | \$13,235 | \$13,565 |
| FUNDING OBJECTIVE MET? | YES | YES | YES | YES | YES |
| MINIMUM REQUIRED CASH TRANSFER | \$0 | \$0 | \$0 | \$0 | \$0 |
| <u></u> | | | | | |
| ESCALATION, INFLATION, EARNINGS RATES | | | | | |
| ANNUAL CONTRIBUTION ESCALATION: | 7.50% | 7.50% | 7.50% | 7.50% | 7.50% |
| ANNUAL CONSTRUCTION COST ESCALATION: | 2.49% | 2.49% | 2.49% | 2.49% | 2.49% |
| ANNUAL RESERVE ACCOUNT INCOME RATE | 0.10% | 0.10% | 0.10% | 0.10% | 0.10% |



| YEAR | 16 | 17 | 18 | 19 | 20 |
|---|----------|--------------|----------|----------|----------|
| CALENDAR YEAR | 2033 | 2034 | 2035 | 2036 | 2037 |
| | | | | | |
| PROGRAMMED EXPENDITURES, PRESENT WORTH VALUES | | | | | |
| SCHEDULE OF REPAIRS AND REPLACEMENTS | \$32,420 | \$33,095 | \$0 | \$0 | \$0 |
| CAPITAL IMPROVEMENT PROJECTS | \$0 | \$0 | \$0 | \$0 | \$0 |
| | | | | | |
| BEGINNING YEAR BALANCE | \$67,489 | \$34,919 | \$1,218 | \$17,697 | \$35,428 |
| FINANCIAL ANALYSIS SUMMARY | | | | | |
| INCOME | | | | | |
| CONTRIBUTION TO RESERVES | \$14,259 | \$15,328 | \$16,478 | \$17,714 | \$19,042 |
| LOAN DEPOSITS | \$0 | \$0 | \$0 | \$0 | \$0 |
| PLUS SPECIAL ASSESSMENTS | \$0 | \$0 | \$0 | \$0 | \$0 |
| PLUS OTHER FUNDS COMING DUE | \$0 | \$0 | \$0 | \$0 | \$0 |
| PLUS INVESTMENT INCOME ON PRIOR YEAR'S ENDING BALANCE | \$67 | \$35 | \$1 | \$18 | \$35 |
| INVESTMENT 1 | \$0 | \$0 | \$0 | \$0 | \$0 |
| INVESTMENT 2 | \$0 | \$0 | \$0 | \$0 | \$0 |
| TOTAL INCOME | \$14,326 | \$15,363 | \$16,479 | \$17,731 | \$19,077 |
| | | - | | | |
| EXPENDITURES, FUTURE VALUES | | | | | |
| SCHEDULE OF REPAIRS AND REPLACEMENTS | \$46,895 | \$49,064 | \$0 | \$0 | \$0 |
| CAPITAL IMPROVEMENT PROJECTS | \$0 | \$0 | \$0 | \$0 | \$0 |
| FINANCIAL LOAN PAYMENT | \$0 | \$0 | \$0 | \$0 | \$0 |
| OTHER DISBURSEMENTS | \$0 | \$0 | \$0 | \$0 | \$0 |
| TOTAL EXPENDITURES | \$46,895 | \$49,064 | \$0 | \$0 | \$0 |
| | | | | | |
| END OF YEAR BALANCE | \$34,919 | \$1,218 | \$17,697 | \$35,428 | \$54,506 |
| | | - | | | |
| MINIMUM ACCOUNT THRESHOLD | | | | | |
| CALCULATED THRESHOLD AS A % OF TOTAL 30 YEAR COSTS | \$13,903 | \$14,249 | \$14,604 | \$14,968 | \$15,341 |
| FUNDING OBJECTIVE MET? | YES | NO | YES | YES | YES |
| MINIMUM REQUIRED CASH TRANSFER | \$0 | \$13,031 | \$0 | \$0 | \$0 |
| | | | | | |
| ESCALATION, INFLATION, EARNINGS RATES | | | | | |
| ANNUAL CONTRIBUTION ESCALATION: | 7.50% | 7.50% | 7.50% | 7.50% | 7.50% |
| ANNUAL CONSTRUCTION COST ESCALATION: | 2.49% | 2.49% | 2.49% | 2.49% | 2.49% |
| ANNUAL RESERVE ACCOUNT INCOME RATE | 0.10% | 0.10% | 0.10% | 0.10% | 0.10% |



| YEAR | 21 | 22 | 23 | 24 | 25 |
|---|----------|----------|-----------|-----------|-----------|
| CALENDAR YEAR | 2038 | 2039 | 2040 | 2041 | 2042 |
| | | | | | |
| PROGRAMMED EXPENDITURES, PRESENT WORTH VALUES | | | | | |
| SCHEDULE OF REPAIRS AND REPLACEMENTS | \$0 | \$0 | \$0 | \$0 | \$0 |
| CAPITAL IMPROVEMENT PROJECTS | \$0 | \$0 | \$0 | \$0 | \$0 |
| | | | | | _ |
| BEGINNING YEAR BALANCE | \$54,506 | \$75,030 | \$97,111 | \$120,864 | \$146,415 |
| FINANCIAL ANALYSIS SUMMARY | | | | | |
| INCOME | | | | | |
| CONTRIBUTION TO RESERVES | \$20,470 | \$22,005 | \$23,656 | \$25,430 | \$27,337 |
| LOAN DEPOSITS | \$0 | \$0 | \$0 | \$0 | \$0 |
| PLUS SPECIAL ASSESSMENTS | \$0 | \$0 | \$0 | \$0 | \$0 |
| PLUS OTHER FUNDS COMING DUE | \$0 | \$0 | \$0 | \$0 | \$0 |
| PLUS INVESTMENT INCOME ON PRIOR YEAR'S ENDING BALANCE | \$55 | \$75 | \$97 | \$121 | \$146 |
| INVESTMENT 1 | \$0 | \$0 | \$0 | \$0 | \$0 |
| INVESTMENT 2 | \$0 | \$0 | \$0 | \$0 | \$0 |
| TOTAL INCOME | \$20,525 | \$22,081 | \$23,753 | \$25,551 | \$27,484 |
| | | | | | _ |
| EXPENDITURES, FUTURE VALUES | | | | | |
| SCHEDULE OF REPAIRS AND REPLACEMENTS | \$0 | \$0 | \$0 | \$0 | \$0 |
| CAPITAL IMPROVEMENT PROJECTS | \$0 | \$0 | \$0 | \$0 | \$0 |
| FINANCIAL LOAN PAYMENT | \$0 | \$0 | \$0 | \$0 | \$0 |
| OTHER DISBURSEMENTS | \$0 | \$0 | \$0 | \$0 | \$0 |
| TOTAL EXPENDITURES | \$0 | \$0 | \$0 | \$0 | \$0 |
| | | | | | |
| END OF YEAR BALANCE | \$75,030 | \$97,111 | \$120,864 | \$146,415 | \$173,899 |
| | | ı | ı | | |
| MINIMUM ACCOUNT THRESHOLD | | | | | |
| CALCULATED THRESHOLD AS A % OF TOTAL 30 YEAR COSTS | \$15,723 | \$16,115 | \$16,516 | \$16,928 | \$17,350 |
| FUNDING OBJECTIVE MET? | YES | YES | YES | YES | YES |
| MINIMUM REQUIRED CASH TRANSFER | \$0 | \$0 | \$0 | \$0 | \$0 |
| | | | | | |
| ESCALATION, INFLATION, EARNINGS RATES | | | | | |
| ANNUAL CONTRIBUTION ESCALATION: | 7.50% | 7.50% | 7.50% | 7.50% | 7.50% |
| ANNUAL CONSTRUCTION COST ESCALATION: | 2.49% | 2.49% | 2.49% | 2.49% | 2.49% |
| ANNUAL RESERVE ACCOUNT INCOME RATE | 0.10% | 0.10% | 0.10% | 0.10% | 0.10% |



| YEAR | 26 | 27 | 28 | 29 | 30 |
|---|-----------|-----------|-----------|-----------|-----------|
| CALENDAR YEAR | 2043 | 2044 | 2045 | 2046 | 2047 |
| | | | | | |
| PROGRAMMED EXPENDITURES, PRESENT WORTH VALUES | | | | | |
| SCHEDULE OF REPAIRS AND REPLACEMENTS | \$0 | \$0 | \$0 | \$0 | \$70,456 |
| CAPITAL IMPROVEMENT PROJECTS | \$0 | \$0 | \$0 | \$0 | \$0 |
| | | | | | |
| BEGINNING YEAR BALANCE | \$173,899 | \$203,460 | \$235,255 | \$269,452 | \$306,229 |
| FINANCIAL ANALYSIS SUMMARY | | | | | |
| INCOME | | | | | |
| CONTRIBUTION TO RESERVES | \$29,388 | \$31,592 | \$33,961 | \$36,508 | \$39,246 |
| LOAN DEPOSITS | \$0 | \$0 | \$0 | \$0 | \$0 |
| PLUS SPECIAL ASSESSMENTS | \$0 | \$0 | \$0 | \$0 | \$0 |
| PLUS OTHER FUNDS COMING DUE | \$0 | \$0 | \$0 | \$0 | \$0 |
| PLUS INVESTMENT INCOME ON PRIOR YEAR'S ENDING BALANCE | \$174 | \$203 | \$235 | \$269 | \$306 |
| INVESTMENT 1 | \$0 | \$0 | \$0 | \$0 | \$0 |
| INVESTMENT 2 | \$0 | \$0 | \$0 | \$0 | \$0 |
| TOTAL INCOME | \$29,562 | \$31,795 | \$34,196 | \$36,778 | \$39,553 |
| | | _ | | 1 | - |
| EXPENDITURES, FUTURE VALUES | | | | | |
| SCHEDULE OF REPAIRS AND REPLACEMENTS | \$0 | \$0 | \$0 | \$0 | \$143,832 |
| CAPITAL IMPROVEMENT PROJECTS | \$0 | \$0 | \$0 | \$0 | \$0 |
| FINANCIAL LOAN PAYMENT | \$0 | \$0 | \$0 | \$0 | \$0 |
| OTHER DISBURSEMENTS | \$0 | \$0 | \$0 | \$0 | \$0 |
| TOTAL EXPENDITURES | \$0 | \$0 | \$0 | \$0 | \$143,832 |
| | | | | • | |
| END OF YEAR BALANCE | \$203,460 | \$235,255 | \$269,452 | \$306,229 | \$201,950 |
| | | | | | Т |
| MINIMUM ACCOUNT THRESHOLD | | | | | |
| CALCULATED THRESHOLD AS A % OF TOTAL 30 YEAR COSTS | \$17,782 | \$18,225 | \$18,679 | \$19,144 | \$19,621 |
| FUNDING OBJECTIVE MET? | YES | YES | YES | YES | YES |
| MINIMUM REQUIRED CASH TRANSFER | \$0 | \$0 | \$0 | \$0 | \$0 |
| | | | | | |
| ESCALATION, INFLATION, EARNINGS RATES | | | | | |
| ANNUAL CONTRIBUTION ESCALATION: | 7.50% | 7.50% | 7.50% | 7.50% | 7.50% |
| ANNUAL CONSTRUCTION COST ESCALATION: | 2.49% | 2.49% | 2.49% | 2.49% | 2.49% |
| ANNUAL RESERVE ACCOUNT INCOME RATE | 0.10% | 0.10% | 0.10% | 0.10% | 0.10% |



ASSESSMENT ALLOCATION COLONIAL GREEN ROW HOUSES MASTER

TOTAL BUDGET

| Year | Row Houses Reserve Assessment | Shared Reserve & Operating Budget Assessment* | Total Assessment | Reserves as a Percentage of Total Assessment | Annual Increase In Total Assessment | Special Assessments |
|------|-------------------------------------|---|------------------|--|--|------------------------|
| 2018 | \$4,818.96 | \$20,940.24 | \$25,759.20 | 18.71% | | \$0.00 |
| 2019 | \$5,180.38 | \$21,461.95 | \$26,642.33 | 19.44% | 3.43% | \$0.00 |
| 2020 | \$5,568.91 | \$21,996.65 | \$27,565.56 | 20.20% | 3.47% | \$0.00 |
| 2021 | \$5,986.58 | \$22,544.68 | \$28,531.26 | 20.98% | 3.50% | \$0.00 |
| 2022 | \$6,435.57 | \$23,106.36 | \$29,541.93 | 21.78% | 3.54% | \$0.00 |
| LULL | ψυ, 400.01 | Ψ20,100.50 | Ψ23,041.33 | 21.7070 | 3.34 /0 | Ψ0.00 |

^{*} Operating budget is increased annually at the projected inflation rate.

ALLOCATION CALCULATIONS

| Total Number of Units | <u>18</u> | |
|------------------------------------|------------|--|
| Unit Type | Row Houses | |
| Percentage Allocation To Unit Type | 100.00% | |
| Number of Units of This Type | 18 | |

Annual Contribution Per Unit Type

| Year | Reserve Assessment | Operating Budget Assessment | Total Assessment | Special Assessments |
|------|-----------------------|-----------------------------|------------------|------------------------|
| 2018 | \$267.72 | \$1,163.35 | \$1,431.07 | \$0.00 |
| 2019 | \$287.80 | \$1,192.33 | \$1,480.13 | \$0.00 |
| 2020 | \$309.38 | \$1,222.04 | \$1,531.42 | \$0.00 |
| 2021 | \$332.59 | \$1,252.48 | \$1,585.07 | \$0.00 |
| 2022 | \$357.53 | \$1,283.69 | \$1,641.22 | \$0.00 |

Monthly Contribution Per Unit Type

| Year | Reserve Assessment | Operating Budget Assessment | Total Assessment | Special Assessments |
|------|-----------------------|-----------------------------|------------------|---------------------|
| 2018 | \$22.31 | \$96.95 | \$119.26 | \$0.00 |
| 2019 | \$23.98 | \$99.36 | \$123.34 | \$0.00 |
| 2020 | \$25.78 | \$101.84 | \$127.62 | \$0.00 |
| 2021 | \$27.72 | \$104.37 | \$132.09 | \$0.00 |
| 2022 | \$29.79 | \$106.97 | \$136.77 | \$0.00 |

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HISTORIC COST INDICES

Source: R.S. MEANS

| | | | | Direct Cost | | Average Annual | |
|------|-------|------------|------------|-------------|-----------------|----------------|-------------------------|
| Year | Index | Difference | % Increase | Multiplier | Period in Years | Escalation | Month |
| 2016 | 207.2 | 0 | 0.00% | 1.0000 | 0 | n/a | Estimated as of January |
| 2015 | 206.2 | 1 | 0.48% | 1.0048 | 1 | 0.48% | As of January |
| 2014 | 204.9 | 2.3 | 1.12% | 1.0112 | 2 | 0.56% | As of January |
| 2013 | 201.2 | 6 | 2.98% | 1.0298 | 3 | 0.98% | As of January |
| 2012 | 194.6 | 12.6 | 6.47% | 1.0647 | 4 | 1.58% | As of January |
| 2011 | 191.2 | 16 | 8.37% | 1.0837 | 5 | 1.62% | As of January |
| 2006 | 162.0 | 45.2 | 27.90% | 1.2790 | 10 | 2.49% | As of January |
| 2001 | 125.1 | 82.1 | 65.63% | 1.6563 | 15 | 3.42% | As of January |

R S Means Company maintains a construction cost database for North America that is updated quarterly (4 times per year). The current company was incorporated in 1984, but has existed in other forms previously. The company claims to have maintained cost data for over 70 years. In addition to current costs for both materials and labor, R S Means maintains a historical index of these costs, which they publish for a time period going back 20 years.

DMA uses these historical indexes as a logic base for projecting future construction cost escalation (inflation). In order to have a logical basis for the inflation rate used in this study, we offer this guide to selecting the rate that the association wants to use. Generally, the longer the look-back period (say 15 years vs. 5 years) the more conservative your future inflation projection will be.

In making a selection for future inflation, keep in mind that if your selected rate varies significantly from the current inflation rate, you should make a corresponding adjustment for the projected interest or earnings rate on your money kept in a savings or money market account, as those rates follow (but do not equal) inflation rates.