FULL RESERVE STUDY

Rhygate Homeowners Association



West Springfield, Virginia February 27, 2020



Long-term thinking. Everyday commitment.

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Reserve Advisors, LLC 735 N. Water Street, Suite 175 Milwaukee, WI 53202

Rhygate Homeowners Association West Springfield, Virginia

Dear Board of Directors of Rhygate Homeowners Association:

At the direction of the Board that recognizes the need for proper reserve planning, we have conducted a *Full Reserve Study* of Rhygate Homeowners Association in West Springfield, Virginia and submit our findings in this report. The effective date of this study is the date of our visual, noninvasive inspection, February 27, 2020.

This *Full Reserve Study* exceeds the Association of Professional Reserve Analysts (APRA) standards fulfilling the requirements of a "Level I Full Reserve Study."

An ongoing review by the Board and an Update of this Reserve Study are necessary to ensure an equitable funding plan since a Reserve Study is a snapshot in time. We recommend the Board budget for an Update to this Reserve Study in two- to three-years. We look forward to continuing to help Rhygate Homeowners Association plan for a successful future.

As part of our long-term thinking and everyday commitment to our clients, we are available to answer any questions you may have regarding this study.

Respectfully submitted on March 10, 2020 by

Reserve Advisors, LLC

Visual Inspection and Report by: Stephen E. Breski, RS¹ Review by: Alan M. Ebert, RS, PRA², Director of Quality Assurance



¹ RS (Reserve Specialist) is the reserve provider professional designation of the Community Associations Institute (CAI) representing America's more than 300,000 condominium, cooperative and homeowners associations.

² PRA (Professional Reserve Analyst) is the professional designation of the Association of Professional Reserve Analysts. Learn more about APRA at http://www.apra-usa.com.







Long-term thinking. Everyday commitment.



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1.RESERVE STUDY EXECUTIVE SUMMARY

Client: Rhygate Homeowners Association (Rhygate)

Location: West Springfield, Virginia

Reference: 192662

Property Basics: Rhygate Homeowners Association is a townhome style development

consisting of 100 units in 15 buildings. The community was built from 1967 to 1970.

Reserve Components Identified: 12 Reserve Components.

Inspection Date: February 27, 2020.

Funding Goal: The Funding Goal of this Reserve Study is to maintain reserves above an adequate, not excessive threshold during one or more years of significant expenditures. Our recommended Funding Plan recognizes this threshold funding year in 2034 due to total replacement of the asphalt pavement.

Cash Flow Method: We use the Cash Flow Method to compute the Reserve Funding Plan. This method offsets future variable Reserve Expenditures with existing and future stable levels of reserve funding. Our application of this method also considers:

- · Current and future local costs of replacement
- 2.2% anticipated annual rate of return on invested reserves
- 2.8% future Inflation Rate for estimating Future Replacement Costs

Sources for *Local* **Costs of Replacement**: Our proprietary database, historical costs and published sources, i.e., R.S. Means, Incorporated.

Cash Status of Reserve Fund:

- \$188,779 as of January 31, 2020
- 2020 budgeted Reserve Contributions of \$49,695
- A potential deficit in reserves might occur by 2034 based upon continuation of the most recent annual reserve contribution of \$49,695 and the identified Reserve Expenditures.

Project Prioritization: We note anticipated Reserve Expenditures for the next 30 years in the **Reserve Expenditures** tables and include a **Five-Year Outlook** table following the **Reserve Funding Plan** in Section 3. We recommend the Association prioritize the following projects in the next five years based on the conditions identified:

- Replacement of the remaining masonry pavers
- Crack repair, patch, seal coat and striping of the asphalt pavement
- Renovation of the entrance monument
- Replacement of a portion of the metal railings
- Replacement of a portion of the concrete sidewalks

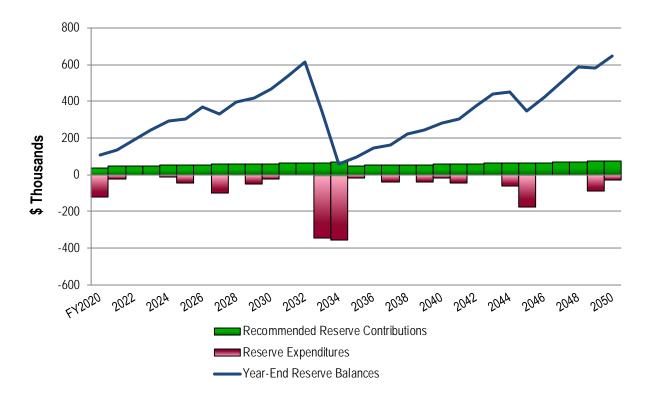
Recommended Reserve Funding: We recommend the following in order to achieve a stable and equitable Funding Plan:

- Stable contributions of \$50,000 from 2021 through 2023
- Inflationary increases from 2021 through 2034
- Decrease to \$49,000 by 2035 due to fully funding for total replacement of the asphalt pavement
- Inflationary increases through 2050, the limit of this study's Cash Flow Analysis
- 2021 Reserve Contribution of \$50,000 is equivalent to an average quarterly contribution of \$125.00 per homeowner.



RhygateRecommended Reserve Funding Table and Graph

Year	Reserve Contributions (\$)	Reserve Balances (\$)	Year	Reserve Contributions (\$)	Reserve Balances (\$)	Year	Reserve Contributions (\$)	Reserve Balances (\$)
2021	50,000	136,229	2031	62,400	537,977	2041	57,900	304,837
2022	50,000	189,776	2032	64,100	614,618	2042	59,500	371,698
2023	50,000	244,501	2033	65,900	344,688	2043	61,200	441,749
2024	51,400	292,023	2034	67,700	60,837	2044	62,900	452,223
2025	52,800	305,180	2035	49,000	94,091	2045	64,700	349,001
2026	54,300	366,791	2036	50,400	147,115	2046	66,500	423,911
2027	55,800	332,533	2037	51,800	164,017	2047	68,400	502,389
2028	57,400	397,880	2038	53,300	221,512	2048	70,300	584,515
2029	59,000	415,806	2039	54,800	241,297	2049	72,300	582,781
2030	60,700	464,668	2040	56,300	283,292	2050	74,300	644,051



Page 1.2 - Executive Summary



2.RESERVE STUDY REPORT

At the direction of the Board that recognizes the need for proper reserve planning, we have conducted a *Full Reserve Study* of

Rhygate Homeowners Association

West Springfield, Virginia

and submit our findings in this report. The effective date of this study is the date of our visual, noninvasive inspection, February 27, 2020.

We present our findings and recommendations in the following report sections and spreadsheets:

- Identification of Property Segregates all property into several areas of responsibility for repair or replacement
- Reserve Expenditures Identifies reserve components and related quantities, useful lives, remaining useful lives and future reserve expenditures during the next 30 years
- Reserve Funding Plan Presents the recommended Reserve Contributions and year-end Reserve Balances for the next 30 years
- **Five-Year Outlook** Identifies reserve components and anticipated reserve expenditures during the first five years
- Reserve Component Detail Describes the reserve components, includes photographic documentation of the condition of various property elements, describes our recommendations for repairs or replacement, and includes detailed solutions and procedures for replacements for the benefit of current and future board members
- Methodology Lists the national standards, methods and procedures used to develop the Reserve Study
- Definitions Contains definitions of terms used in the Reserve Study, consistent with national standards
- Professional Service Conditions Describes Assumptions and Professional Service Conditions
- Credentials and Resources



IDENTIFICATION OF PROPERTY



Our investigation includes Reserve Components or property elements as set forth in your Declaration. The Expenditure tables in Section 3 list the elements contained in this study. Our analysis begins by segregating the property elements into several areas of responsibility for repair and replacement.

Our process of identification helps assure that future boards and the management team understand whether reserves, the operating budget or Homeowners fund certain replacements and assists in preparation of the annual budget. We derive these segregated classes of property from our review of the information provided by the Association and through conversations with the Board. These classes of property include:

- Reserve Components
- Long-Lived Property Elements
- Operating Budget Funded Repairs and Replacements
- Property Maintained by Homeowners
- Property Maintained by Others

We advise the Board conduct an annual review of these classes of property to confirm its policy concerning the manner of funding, i.e., from reserves or the operating budget. The Reserve Study identifies Reserve Components as set forth in your Declaration or which were identified as part of your request for proposed services. Reserve Components are defined by CAI as property elements with:



- Rhygate responsibility
- Limited useful life expectancies
- Predictable remaining useful life expectancies
- Replacement cost above a minimum threshold

Long-Lived Property Elements may not have predictable Remaining Useful Lives or their replacement may occur beyond the 30-year scope of the study. The operating budget should fund infrequent repairs. Funding untimely or unexpected replacements from reserves will necessitate increases to Reserve Contributions. Periodic updates of this Reserve Study will help determine the merits of adjusting the Reserve Funding Plan. We identify the following Long-Lived Property Elements as excluded from reserve funding at this time.

Electrical Systems, Common

The operating budget provides money for the repair and replacement of certain Reserve Components. The Association may develop independent criteria for use of operating and reserve funds. For purposes of calculating appropriate Reserve Contributions, we identify the following list of Operating Budget Funded Repairs and Replacements:

- General Maintenance to the Common Elements
- Expenditures less than \$3,000 (These relatively minor expenditures have a limited effect on the recommended Reserve Contributions.)
- Landscape
- Light Fixture, Landscape



Landscape light fixtures – Note: masonry retaining wall also pictured (homeowner responsibility)

- Paint Finishes, Railings, Metal
- Paint Finishes, Touch Up



Site Furniture



Site furniture

- Site Signage
- Other Repairs normally funded through the Operating Budget

Certain items have been designated as the responsibility of the homeowners to repair or replace at their cost. Property Maintained by Homeowners, including items billed back to Homeowners, relates to unit:

- Entrance Walks
- Fences
- Homes and Lots
- Perimeter Walls
- Retaining Walls

Certain items have been designated as the responsibility of others to repair or replace. Property Maintained by Others relates to:

- Concrete Swale, Along Rolling Road (Municipality)
- Fences, Perimeter (Springfield Golf and Country Club)



3. RESERVE EXPENDITURES and FUNDING PLAN

The tables following this introduction present:

Reserve Expenditures

- Line item numbers
- Total quantities
- Quantities replaced per phase (in a single year)
- Reserve component inventory
- Estimated first year of event (i.e., replacement, application, etc.)
- Life analysis showing
 - useful life
 - remaining useful life
- 2020 local cost of replacement
 - Per unit
 - Per phase
 - Replacement of total quantity
- Percentage of future expenditures anticipated during the next 30 years
- Schedule of estimated future costs for each reserve component including inflation

Reserve Funding Plan

- · Reserves at the beginning of each year
- Total recommended reserve contributions
- Estimated interest earned from invested reserves.
- Anticipated expenditures by year
- Anticipated reserves at year end
- Predicted reserves based on current funding level

Five-Year Outlook

- Line item numbers
- Reserve component inventory of only the expenditures anticipated to occur within the first five years
- Schedule of estimated future costs for each reserve component anticipated to occur within the first five years

The purpose of a Reserve Study is to provide an opinion of reasonable annual Reserve Contributions. Prediction of exact timing and costs of minor Reserve Expenditures typically will not significantly affect the 30-year cash flow analysis. Adjustments to the times and/or costs of expenditures may not always result in an adjustment in the recommended Reserve Contributions.

Financial statements prepared by your association, by you or others might rely in part on information contained in this section. For your convenience, we have provided an electronic data file containing the tables of **Reserve Expenditures** and **Reserve Funding Plan**.

RESERVE EXPENDITURES

Rhygate Homeowners Association

West Springfield, Virginia

Explanatory Notes:

- 1) 2.8% is the estimated Inflation Rate for estimating Future Replacement Costs.
- 2) FY2020 is Fiscal Year beginning January 1, 2020 and ending December 31, 2020.

					Estimated	Lif	e Analysis,		Costs, \$		Percentage																
Line		Per Phase	Unita	Pagarya Companant Inventory	1st Year of		ears Demaining		Per Phase	Total	of Future Expenditures	RUL = 0	1 2021	2 2022	3 2023	4 2024	5 2025	6 2026	7 2027	8 2028	9 2029	10 2030	11 2031	12 2032	13 2033	14 2034	15 2035
Item	Quantity	Quantity		Reserve Component Inventory	Event		Remaining	(2020)	(2020)	(2020)	Expenditures			2022	2023	2024		2020			2029	2030		2032		2034	2033
4.020	13,300	13,300 S	quare Yards	s Asphalt Pavement, Crack Repair, Patch, Seal Coat and Striping	2021	3 to 5	1	1.80	23,940	23,940	16.7%		24,610				27,485				30,695						
4.045	13,300	6,650 S	quare Yards	s Asphalt Pavement, Total Replacement, Phased	2033	15 to 20	13 to 14	31.00	206,150	412,300	37.8%														295,185	303,450	
4.100	9	5 E	ach	Catch Basins, Inspections and Capital Repairs, Phased	2033	15 to 20	13 to 14	850.00	3,825	7,650	0.7%														5,477	5,630	
4.110	7,300	910 L	inear Feet	Concrete Curbs and Gutters, Partial	2033	to 65	13 to 30+	35.00	31,850	255,500	5.8%														45,606	46,883	
4.140	19,200	1,280 S	quare Feet	Concrete Sidewalks, Partial	2025	to 65	5 to 30+	9.00	11,520	172,800	7.3%						13,226					15,184					17,432
4.560	46	46 E	ach	Light Poles and Fixtures, Short	2027	to 25	7	1,200.00	55,200	55,200	4.2%								66,972								
4.561	11	11 E	ach	Light Poles and Fixtures, Tall	2027	to 25	7	2,300.00	25,300	25,300	1.9%								30,695								
4.620	2,470	2,470 S	quare Feet	Pavers, Masonry, Remaining (2020 is Budgeted)	2020	to 25	0	21.50	53,105	53,105	14.3%	120,300															
4.621	1,490	1,490 S	quare Feet	Pavers, Masonry, Replaced	2044	to 25	24	21.50	32,035	32,035	3.9%																
4.650	1	1 A	llowance	Pipes, Subsurface Utilities	2029	to 85+	9	15,000.00	15,000	15,000	4.9%										19,232						
4.733	220	110 L	inear Feet	Railings, Metal, Phased	2025	to 35	5 to 10	43.00	4,730	9,460	0.7%						5,430					6,234					
4.800	1	1 A	llowance	Signage, Entrance Monument, Renovation	2024	15 to 20	4	8,700.00	8,700	8,700	1.5%					9,716											
				Anticipated Expenditures, By Year (\$1,582,449 over 30 years)								120,300	24,610	0	0	9,716	46,141	0	97,667	0	49,927	21,418	0	0	346,268	355,963	17,432

Line

4.020

4.045

4.100

4.110

4.140

4.560

4.561

4.620

4.621

4.650

4.733

4.800

11

11 Each

Light Poles and Fixtures, Tall

1 Allowance Signage, Entrance Monument, Renovation

2,470 **2,470** Square Feet Pavers, Masonry, Remaining (2020 is Budgeted)

1 Allowance Pipes, Subsurface Utilities

1,490 1,490 Square Feet Pavers, Masonry, Replaced

220 **110** Linear Feet Railings, Metal, Phased

33,411

86,735 26,378

105,916

62,153

62,153 176,640

RESERVE EXPENDITURES

Rhygate

Anticipated Expenditures, By Year (\$1,582,449 over 30 years)

Homeowners Association West Springfield, Virginia

2027

2020

2044

to 25

to 25

to 25

to 85+

2024 15 to 20

2025 to 35 5 to 10

24

2,300.00

21.50

21.50

43.00

8,700.00

15,000.00

25,300

53,105

32,035

15,000

4,730

8,700

				Estimated	L	ife Analysis, _		Costs, \$		Percentage															
Total	Per Phase			1st Year o	<u> </u>	'ears	Unit	Per Phase	Total	of Future	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
Quantity	Quantity	Units	Reserve Component Inventory	Event	Useful	Remaining	(2020)	(2020)	(2020)	Expenditures	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050
13,300	13,300 Squ	uare Yards	Asphalt Pavement, Crack Repair, Patch, Seal Coat and Striping	2021	3 to 5	1	1.80	23,940	23,940	0 16.7%		38,283				42,754				47,748				53,324	
13,300	6,650 Squ	uare Yards	Asphalt Pavement, Total Replacement, Phased	2033	15 to 20	13 to 14	31.00	206,150	412,300	37.8%															
9	5 Eac	ch	Catch Basins, Inspections and Capital Repairs, Phased	2033	15 to 20	13 to 14	850.00	3,825	7,650	0.7%															
7,300	910 Line	ear Feet	Concrete Curbs and Gutters, Partial	2033	to 65	13 to 30+	35.00	31,850	255,500	5.8%															
19,200	1,280 Squ	uare Feet	Concrete Sidewalks, Partial	2025	to 65	5 to 30+	9.00	11,520	172,800	7.3%					20,013					22,976					26,378
46	46 Eac	ch	Light Poles and Fixtures, Short	2027	to 25	7	1,200.00	55,200	55,200	0 4.2 %															

38,283

25,349

14,702

40,051

20,013

42,754

1.9%

14.3%

3.9%

4.9%

0.7%

1.5%

25,300

53,105

32,035

15,000

9,460

8,700

Printed on 3/10/2020 Expenditures - Section 3 - 2 of 2 Reserve Advisors, LLC

RESERVE FUNDING PLAN

CASH FLOW ANALYSIS Rhygate

Homeowners Association	<u> </u>	Individual Res	serve Budgets	& Cash Flow	s for the Nex	t 30 Years										
West Springfield, Virginia	FY2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035
Reserves at Beginning of Year (Note 1)	188,779	108,180	136,229	189,776	244,501	292,023	305,180	366,791	332,533	397,880	415,806	464,668	537,977	614,618	344,688	60,837
Total Recommended Reserve Contributions (Note 2)	37,271	50,000	50,000	50,000	51,400	52,800	54,300	55,800	57,400	59,000	60,700	62,400	64,100	65,900	67,700	49,000
Plus Estimated Interest Earned, During Year (Note 3)	2,430	2,659	3,547	4,725	5,838	6,498	7,311	7,609	7,947	8,853	9,580	10,909	12,541	10,438	4,412	1,686
Less Anticipated Expenditures, By Year	(120,300)	(24,610)	0	0	(9,716)	(46,141)	0	(97,667)	0	(49,927)	(21,418)	0	0	(346,268)	(355,963)	(17,432)
Anticipated Reserves at Year End	<u>\$108,180</u>	<u>\$136,229</u>	<u>\$189,776</u>	<u>\$244,501</u>	<u>\$292,023</u>	<u>\$305,180</u>	<u>\$366,791</u>	<u>\$332,533</u>	<u>\$397,880</u>	<u>\$415,806</u>	<u>\$464,668</u>	<u>\$537,977</u>	<u>\$614,618</u>	<u>\$344,688</u>	\$60,837 (NOTE 5)	<u>\$94,091</u>
Predicted Reserves based on 2020 funding level of: \$49,695	108,180	135,921	189,153	243,556	289,333	299,291	356,117	315,452	372,634	380,597	417,558	476,986	537,721	249,716	(54,427)	(23,006)

	(continued)	Individual Res	serve Budgets	& Cash Flow	s for the Nex	t 30 Years, Co	<u>ontinued</u>									
		2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050
	Reserves at Beginning of Year	94,091	147,115	164,017	221,512	241,297	283,292	304,837	371,698	441,749	452,223	349,001	423,911	502,389	584,515	582,781
	Total Recommended Reserve Contributions	50,400	51,800	53,300	54,800	56,300	57,900	59,500	61,200	62,900	64,700	66,500	68,400	70,300	72,300	74,300
Plus	Estimated Interest Earned, During Year	2,624	3,385	4,195	5,036	5,708	6,399	7,361	8,851	9,727	8,718	8,410	10,078	11,826	12,701	13,348
Less	Anticipated Expenditures, By Year	0	(38,283)	0	(40,051)	(20,013)	(42,754)	0	0	(62,153)	(176,640)	0	0	0	(86,735)	(26,378)
	Anticipated Reserves at Year End	<u>\$147,115</u>	<u>\$164,017</u>	\$221,512	<u>\$241,297</u>	<u>\$283,292</u>	<u>\$304,837</u>	<u>\$371,698</u>	<u>\$441,749</u>	<u>\$452,223</u>	<u>\$349,001</u>	<u>\$423,911</u>	<u>\$502,389</u>	<u>\$584,515</u>	<u>\$582,781</u>	\$644,051
																(NOTE 4)

Explanatory Notes:

- 1) Year 2020 starting reserves are as of January 31, 2020; FY2020 starts January 1, 2020 and ends December 31, 2020.
- 2) Reserve Contributions for 2020 are the remaining budgeted 3 quarters; 2021 is the first year of recommended contributions.
- 3) 2.2% is the estimated annual rate of return on invested reserves; 2020 is a partial year of interest earned.
- 4) Accumulated year 2050 ending reserves consider the need to fund for subsequent repaving of the asphalt pavement shortly after 2050, and the age, size, overall condition and complexity of the property.
- 5) Threshold Funding Year (reserve balance at critical point).

Printed on 3/10/2020 Funding Plan - Section 3

FIVE-YEAR OUTLOOK

Rhygate Homeowners Association

West Springfield, Virginia

Line Item	Reserve Component Inventory	RUL = 0 FY2020	1 2021	2 2022	3 2023	4 2024	5 2025
4.020	Asphalt Pavement, Crack Repair, Patch, Seal Coat and Striping		24,610				27,485
4.140	Concrete Sidewalks, Partial						13,226
4.620	Pavers, Masonry, Remaining (2020 is Budgeted)	120,300					
4.733	Railings, Metal, Phased						5,430
4.800	Signage, Entrance Monument, Renovation					9,716	
	Anticipated Expenditures, By Year (\$1,582,449 over 30 years)	120,300	24,610	0	0	9,716	46,141

Printed on 3/10/2020 Five-Year Outlook - 1 of 1



4.RESERVE COMPONENT DETAIL

The Reserve Component Detail of this *Full Reserve Study* includes enhanced solutions and procedures for select significant components. This section describes the Reserve Components, documents specific problems and condition assessments, and may include detailed solutions and procedures for necessary capital repairs and replacements for the benefit of current and future board members. We advise the Board use this information to help define the scope and procedures for repair or replacement when soliciting bids or proposals from contractors. *However, the Report in whole or part is not and should not be used as a design specification or design engineering service*.

Asphalt Pavement, Crack Repair, Patch, Seal Coat and Striping

Line Item: 4.020

Quantity: Approximately 13,300 square yards of streets and parking areas

History: Repayed in 2013 with repairs, seal coating and striping conducted in 2018

Condition: Good to fair overall

Useful Life: Three- to five-years

Component Detail Notes: Proposals for seal coat applications should include crack repairs and patching. The contractor should only apply seal coat applications after repairs are completed. A seal coat does not bridge or close cracks, therefore, unrepaired cracks render the seal coat applications useless.

Priority/Criticality: Per Board discretion

Expenditure Detail Notes: Expenditure timing and costs are depicted in the **Reserve Expenditures** table in Section 3. Our cost includes an allowance for crack repairs and patching of up to two percent (2%) of the pavement.

Asphalt Pavement, Repaving

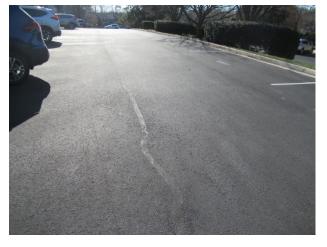
Line Item: 4.045

Quantity: Approximately 13,300 square yards of streets and parking areas

History: Repayed in 2013 with repairs, seal coating and striping conducted in 2018

Condition: Good to fair overall with cracks and deterioration evident







Asphalt pavement overview

Asphalt pavement overview







Asphalt pavement cracks and deterioration



Asphalt pavement cracks and deterioration

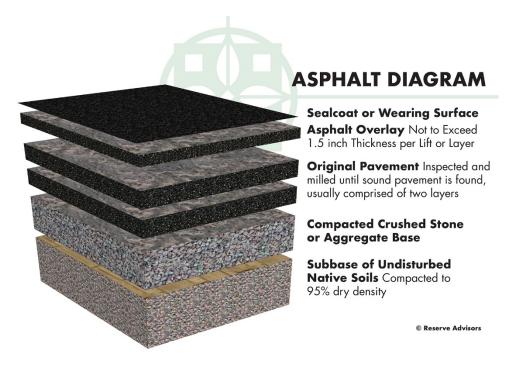


Asphalt pavement cracks and deterioration

Useful Life: 15- to 20-years with the benefit of timely crack repairs and patching



Component Detail Notes: The initial installation of asphalt uses at least two lifts, or two separate applications of asphalt, over the base course. The first lift is the binder course. The second lift is the wearing course. The wearing course comprises a finer aggregate for a smoother more watertight finish. The following diagram depicts the typical components although it may not reflect the actual configuration at Rhygate:



The manner of repaving is either a mill and overlay or total replacement. A mill and overlay is a method of repaving where cracked, worn and failed pavement is mechanically removed or milled until sound pavement is found. A new layer of asphalt is overlaid atop the remaining base course of pavement. Total replacement includes the removal of all existing asphalt down to the base course of aggregate and native soil followed by the application of two or more new lifts of asphalt. We recommend mill and overlayment on asphalt pavement that exhibits normal deterioration and wear. We recommend total replacement of asphalt pavement that exhibits severe deterioration, inadequate drainage, pavement that has been overlaid multiple times in the past or where the configuration makes overlayment not possible. Based on the apparent visual condition and configuration of the asphalt pavement, we recommend the total replacement method of repaving at Rhygate.

Priority/Criticality: Defer only upon opinion of independent professional or engineer

Expenditure Detail Notes: Expenditure timing and costs are depicted in the **Reserve Expenditures** table in Section 3.



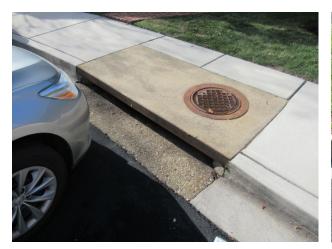
Catch Basins

Line Item: 4.100

Quantity: Nine each

History: Original

Condition: Good to fair overall with scaling evident





Catch basin overview

Catch basin overview - Note: scaling

Useful Life: The useful life of catch basins is up to 65 years. However, achieving this useful life usually requires interim capital repairs or partial replacements every 15- to 20-years.

Component Detail Notes: Erosion causes settlement around the collar of catch basins. Left unrepaired, the entire catch basin will shift and need replacement.

Priority/Criticality: Defer only upon opinion of independent professional or engineer

Expenditure Detail Notes: Expenditure timing and costs are depicted in the **Reserve Expenditures** table in Section 3. We recommend the Association plan for inspections and capital repairs to the catch basins in conjunction with repaving.

Concrete Curbs and Gutters

Line Item: 4.110

Quantity: Approximately 7,300 linear feet

History: Approximately forty-seven percent (46.7%) of the curbs and gutters were

replaced in 2013

Condition: Good to fair overall with cracks evident







Concrete curb and gutter overview

Concrete curb and gutter crack





Concrete curb and gutter crack

Concrete curb and gutter crack

Useful Life: Up to 65 years although interim deterioration of areas is common

Priority/Criticality: Per Board discretion

Expenditure Detail Notes: Expenditure timing and costs are depicted in the **Reserve Expenditures** table in Section 3. We estimate that up to 1,820 linear feet of curbs and gutters, or approximately twenty-five percent (24.9%) of the total, will require replacement during the next 30 years.

Concrete Sidewalks

Line Item: 4.140

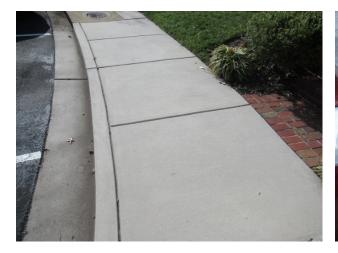
Quantity: Approximately 19,200 square feet

History: Approximately fifty-five percent (54.5%) of the sidewalks were replaced in

2013



Condition: Good overall with isolated areas of scaling and cracks evident





Concrete sidewalk overview

Concrete sidewalk scaling



Concrete sidewalk crack

Useful Life: Up to 65 years although interim deterioration of areas is common

Priority/Criticality: Per Board discretion

Expenditure Detail Notes: Expenditure timing and costs are depicted in the **Reserve Expenditures** table in Section 3. We estimate that up to 7,680 square feet of concrete sidewalks, or forty percent (40%) of the total, will require replacement during the next 30 years.

Light Poles and Fixtures

Line Items: 4.560 and 4.561

Quantity: The Association maintains 46 short light poles and fixtures and 11 tall light

poles and fixtures



History: All lights fixtures were converted to light-emitting diode (LED) fixtures and the poles were painted in the last three years

Condition: Fair overall with base finish deterioration evident. The Board informs us of some issues with electrical supply.



Short light pole and fixture overview



Tall light pole and fixture overview



Base finish deterioration

Useful Life: Up to 25 years

Priority/Criticality: Per Board discretion

Expenditure Detail Notes: Expenditure timing and costs are depicted in the Reserve

Expenditures table in Section 3.



Pavers, Masonry

Line Items: 4.620 and 4.621

Quantity: The Association will maintain approximately 3,960 square feet of masonry pavers atop concrete throughout the community, once near term budgeted work is complete.

History: Approximately 1,490 square feet of masonry pavers were replaced/installed in 2019. The Association plans to replace/install the remaining 2,470 square feet of masonry pavers in 2020.

Condition: The pavers installed/replaced in 2019 are in good overall condition. The remaining pavers to be installed/replaced in 2020 are in fair to poor overall condition with displacement, organic growth and cracks evident.



Masonry pavers installed in 2019



Masonry pavers installed in 2019



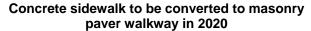
Masonry pavers budgeted for 2020 – Note: displacement and organic growth



Masonry pavers budgeted for 2020 – Note: displacement









Masonry pavers budgeted for 2020 – Note: mortar and masonry cracks

Useful Life: Up to 25 years with interim repairs and resetting funded as needed through the operating budget.

Priority/Criticality: Defer only upon opinion of independent professional or engineer

Expenditure Detail Notes: Expenditure timing and costs are depicted in the **Reserve Expenditures** table in Section 3. The Board informs us the Association plans to replace/install the remaining masonry pavers in 2020. We include this budgeted allowance on Line Item 4.620. As previously mentioned, we suggest the Association conduct interim resetting and replacement of minor areas of pavers as normal maintenance, funded from the operating budget.

Pipes, Subsurface Utilities

Line Item: 4.650

Condition: Reported satisfactory

Useful Life: Up to and likely beyond 85 years

Component Detail Notes: The Association maintains the subsurface utility pipes throughout the property. The exact amounts and locations of the subsurface utility pipes were not ascertained due to the nature of the underground construction and the non-invasive nature of the inspection.

Priority/Criticality: Defer only upon opinion of independent professional or engineer

Expenditure Detail Notes: Expenditure timing and costs are depicted in the **Reserve Expenditures** table in Section 3. At this time we do not anticipate replacement of continuous lengths of subsurface utility pipes. Rather we recommend the Association budget for repairs to isolated occurrences of breached utilities. Although it is likely that the times of replacement and extent of repair costs may vary from the budgetary



allowance, Rhygate could budget sufficient reserves for these utility repairs and have the opportunity to adjust its future reserves up or down to meet any changes to these budgetary estimates. Updates of this Reserve Study would incorporate changes to budgetary costs through a continued historical analysis of the rate of deterioration and actual repairs to budget sufficient reserves.

Railings, Metal

Line Item: 4.733

Quantity: 220 linear feet of metal railings throughout the community

History: Varied ages with paint finishes and repairs conducted as needed

Condition: The railings are in fair overall condition with finish deterioration and rust

evident





Metal railing overview



Finish deterioration



Finish deterioration

Rust

Useful Life: Six- to eight-years for paint finishes and up to 35 years for replacement



Component Detail Notes: Metal components at grade and key structural connections are especially prone to failure if not thoroughly maintained. Secure and rust free fasteners and connections will prevent premature deterioration. Preparation of the metal before application of the paint finish is critical to maximize the useful life of the finish.

Priority/Criticality: Per Board discretion

Expenditure Detail Notes: Expenditure timing and costs are depicted in the **Reserve Expenditures** table in Section 3. We recommend the Association continue to budget for paint finishes and repairs as needed through the operating budget.

Signage, Entrance Monument

Line Item: 4.800

History: Unknown age

Condition: Fair overall with sign finish deterioration evident







Entrance monument overview







Entrance monument light fixture

Sign finish deterioration

Useful Life: 15- to 20-years

Component Detail Notes: Community signage contributes to the overall aesthetic appearance of the property to owners and potential buyers. Renovation or replacement of community signs is often predicated upon the desire to "update" the perceived identity of the community rather than for utilitarian concerns. Therefore, the specific times for replacement or renovation are discretionary. The signage includes the following elements:

- Landscaping
- Light fixtures
- Masonry
- Signage

Priority/Criticality: Per Board discretion

Expenditure Detail Notes: Expenditure timing and costs are depicted in the **Reserve Expenditures** table in Section 3. Our cost for renovation includes repointing and repairs to the masonry, landscaping as needed and replacement of the lights and signage.



Reserve Study Update

An ongoing review by the Board and an Update of this Reserve Study are necessary to ensure an equitable funding plan since a Reserve Study is a snapshot in time. Many variables change after the study is conducted that may result in significant overfunding or underfunding the reserve account. Variables that may affect the Reserve Funding Plan include, but are not limited to:

- Deferred or accelerated capital projects based on Board discretion
- Changes in the interest rates on reserve investments
- Changes in the local construction inflation rate
- Additions and deletions to the Reserve Component Inventory
- The presence or absence of maintenance programs
- Unusually mild or extreme weather conditions
- Technological advancements

Periodic updates incorporate these variable changes since the last Reserve Study or Update. We recommend the Board budget for an Update to this Reserve Study in two- to three-years. Budgeting for an Update demonstrates the Board's objective to continue fulfilling its fiduciary responsibility to maintain the commonly owned property and to fund reserves appropriately.



5.METHODOLOGY

Reserves for replacement are the amounts of money required for future expenditures to repair or replace Reserve Components that wear out before the entire facility or project wears out. Reserving funds for future repair or replacement of the Reserve Components is also one of the most reliable ways of protecting the value of the property's infrastructure and marketability.

Rhygate can fund capital repairs and replacements in any combination of the following:

- 1. Increases in the operating budget during years when the shortages occur
- 2. Loans using borrowed capital for major replacement projects
- Level quarterly reserve assessments annually adjusted upward for inflation to increase reserves to fund the expected major future expenditures
- 4. Special assessments

We do not advocate special assessments or loans unless near term circumstances dictate otherwise. Although loans provide a gradual method of funding a replacement, the costs are higher than if the Association were to accumulate reserves ahead of the actual replacement. Interest earnings on reserves also accumulate in this process of saving or reserving for future replacements, thereby defraying the amount of gradual reserve collections. We advocate the third method of *Level Monthly Reserve Assessments* with relatively minor annual adjustments. The method ensures that Homeowners pay their "fair share" of the weathering and aging of the commonly owned property each year. Level reserve assessments preserve the property and enhance the resale value of the homes.

This Reserve Study is in compliance with and exceeds the National standards¹ set forth by the Association of Professional Reserve Analysts (APRA) fulfilling the requirements of a "Level I Full Reserve Study." These standards require a Reserve Component to have a "predictable remaining Useful Life." Estimating Remaining Useful Lives and Reserve Expenditures beyond 30 years is often indeterminate. Long-Lived Property Elements are necessarily excluded from this analysis. We considered the following factors in our analysis:

- The Cash Flow Method to compute, project and illustrate the 30-year Reserve Funding Plan
- Local² costs of material, equipment and labor
- Current and future costs of replacement for the Reserve Components
- Costs of demolition as part of the cost of replacement
- Local economic conditions and a historical perspective to arrive at our estimate of long term future inflation for construction costs in West

¹ Identified in the APRA "Standards - Terms and Definitions" and the CAI "Terms and Definitions".

² See Credentials for additional information on our use of published sources of cost data.



Springfield, Virginia at an annual inflation rate³. Isolated or regional markets of greater construction (development) activity may experience slightly greater rates of inflation for both construction materials and labor.

- The past and current maintenance practices of Rhygate and their effects on remaining useful lives
- Financial information provided by the Association pertaining to the cash status of the reserve fund and budgeted reserve contribution
- The anticipated effects of appreciation of the reserves over time in accord with a return or yield on investment of your cash equivalent assets. (We did not consider the costs, if any, of Federal and State Taxes on income derived from interest and/or dividend income).
- The Funding Plan excludes necessary operating budget expenditures. It is our understanding that future operating budgets will provide for the ongoing normal maintenance of Reserve Components.

Updates to this Reserve Study will continue to monitor historical facts and trends concerning the external market conditions.

³ Derived from Marshall & Swift, historical costs and the Bureau of Labor Statistics.



6. CREDENTIALS

HISTORY AND DEPTH OF SERVICE

Founded in 1991, Reserve Advisors is the leading provider of reserve studies, insurance appraisals, developer turnover transition studies, expert witness services, and other engineering consulting services. Clients include community associations, resort properties, hotels, clubs, non-profit organizations, apartment building owners, religious and educational institutions, and office/commercial building owners in 48 states, Canada and throughout the world.

The **architectural engineering consulting firm** was formed to take a leadership role in helping fiduciaries, boards, and property managers manage their property like a business with a long-range master plan known as a Reserve Study.

Reserve Advisors employs the **largest staff of Reserve Specialists** with bachelor's degrees in engineering dedicated to Reserve Study services. Our principals are founders of Community Associations Institute's (CAI) Reserve Committee that developed national standards for reserve study providers. One of our principals is a Past President of the Association of Professional Reserve Analysts (APRA). Our vast experience with a variety of building types and ages, on-site examination and historical analyses are keys to determining accurate remaining useful life estimates of building components.

No Conflict of Interest - As consulting specialists, our **independent opinion** eliminates any real or perceived conflict of interest because we do not conduct or manage capital projects.

TOTAL STAFF INVOLVEMENT

Several staff members participate in each assignment. The responsible advisor involves the staff through a Team Review, exclusive to Reserve Advisors, and by utilizing the experience of other staff members, each of whom has served hundreds of clients. We conduct Team Reviews, an internal quality assurance review of each assignment, including: the inspection; building component costing; lifing; and technical report phases of the assignment. Due to our extensive experience with building components, we do not have a need to utilize subcontractors.

OUR GOAL

To help our clients fulfill their fiduciary responsibilities to maintain property in good condition.

VAST EXPERIENCE WITH A VARIETY OF BUILDINGS

Reserve Advisors has conducted reserve studies for a multitude of different communities and building types. We've analyzed thousands of buildings, from as small as a 3,500-square foot day care center to the 2,600,000-square foot 98-story Trump International Hotel and Tower in Chicago. We also routinely inspect buildings with various types of mechanical systems such as simple electric heat, to complex systems with air handlers, chillers, boilers, elevators, and life safety and security systems.

We're familiar with all types of building exteriors as well. Our well-versed staff regularly identifies optimal repair and replacement solutions for such building exterior surfaces such as adobe, brick, stone, concrete, stucco, EIFS, wood products, stained glass and aluminum siding, and window wall systems.

OLD TO NEW

Reserve Advisors' experience includes ornate and vintage buildings as well as modern structures. Our specialists are no strangers to older buildings. We're accustomed to addressing the unique challenges posed by buildings that date to the 1800's. We recognize and consider the methods of construction employed into our analysis. We recommend appropriate replacement programs that apply cost effective technologies while maintaining a building's character and appeal.



STEPHEN E. BRESKI, RS Responsible Advisor

CURRENT CLIENT SERVICES

Stephen E. Breski, a Senior Civil Engineer, is an Advisor for Reserve Advisors. Mr. Breski is responsible for the inspection and analysis of the condition of clients' properties, and recommending engineering solutions to prolong the lives of the components. He also forecasts capital expenditures for the repair and/or replacement of the property components and prepares technical reports on assignments. He is responsible for conducting Life Cycle Cost Analyses and Capital Replacement Forecast services and the preparation of Reserve Study Reports for condominiums, townhomes, planned unit developments and homeowner associations.



The following is a partial list of clients served by Stephen Breski demonstrating the breadth of experiential knowledge of community associations in construction and related systems.

- **30 Park Place Condominium Association, Inc. -** Located in downtown Manhattan in New York City, this 82-story luxury tower offers 157 private residences and 189 hotel guest suites. The building was designed by renowned architect Robert A.M. Stern and is operated by the Four Seasons staff. On the 37th floor the residences enjoy their private amenity area complete with a fitness center and film screening room. The hotel includes a spa and indoor swimming pool.
- Merion Golf Club Located in the suburbs of Philadelphia, PA, this club was founded in 1865 as the Merion Cricket Club. Later, the Merion Cricket Club founded the Merion Golf Club in 1896 and has been an iconic golf club since. Merion Golf Club's East Course is consistently ranked as one of the top golf courses and has hosted five U.S. Opens featuring champions Ben Hogan (1950), Lee Trevino and his playoff victory over Jack Nicklaus (1971) and, most recently, Justin Rose (2013).
- Saint Sophia Greek Orthodox Cathedral Located in Northwest Washington, D.C., the cornerstone of this cathedral was laid by President Dwight D. Eisenhower in 1956. A second building was constructed in addition to the cathedral in 2004. This building, known as the Education and Activities Center, includes classrooms and a library.
- **Big Bass Lake Community Association, Inc.** -Located in Gouldsboro, Pennsylvania, this community features three dams which provide the 1,655 single family homes with over 850,000 square yards of surface area for boating and recreation. Residents enjoy a clubhouse, a recreational center, a ski hill, docks, recreational courts, beaches and playgrounds. The Association also maintains an administration building, maintenance shop, sales office and library.
- **Woodmont Country Club -** This exclusive club was established more than 100 years ago. The elegant design of Woodmont's Clubhouse, incorporates several dining venues, a grand ballroom and an expansive fitness and wellness center. The clubhouse overlooks Woodmont's two premiere golf courses, swimming complex and 22 *Har-Tru* tennis courts.

PRIOR RELEVANT EXPERIENCE

Before joining Reserve Advisors, Mr. Breski worked for a private construction management company in Pittsburgh, Pennsylvania, where he was working as a cost estimator. Prior to working as an estimator, Mr. Breski also worked for the nation's largest provider of wireless infrastructure, where he assisted in the structural analysis of cell phone towers. Mr. Breski attended the Swanson School of Engineering at the University of Pittsburgh where he attained his Bachelor of Science degree in Civil and Environmental Engineering. His studies focused on structural engineering.

EDUCATION

University of Pittsburgh - B.S. Civil and Environmental Engineering

PROFESSIONAL AFFILIATIONS

Reserve Specialist (RS) – Community Association Institute Engineer in Training (E.I.T.) – State of Maryland



ALAN M. EBERT, P.E., PRA, RS Director of Quality Assurance

CURRENT CLIENT SERVICES

Alan M. Ebert, a Professional Engineer, is the Director of Quality Assurance for Reserve Advisors. Mr. Ebert is responsible for the management, review and quality assurance of reserve studies. In this role, he assumes the responsibility of stringent report review analysis to assure report accuracy and the best solution for Reserve Advisors' clients.

Mr. Ebert has been involved with thousands of Reserve Study assignments. The following is a partial list of clients served by Alan Ebert demonstrating his breadth of experiential knowledge of community associations in construction and related buildings systems.



- Brownsville Winter Haven Located in Brownsville, Texas, this unique homeowners association contains 525 units. The Association maintains three pools and pool houses, a community and management office, landscape and maintenance equipment, and nine irrigation canals with associated infrastructure.
- **Rosemont Condominiums** This unique condominium is located in Alexandria, Virginia and dates to the 1940's. The two mid-rise buildings utilize decorative stone and brick masonry. The development features common interior spaces, multi-level wood balconies and common asphalt parking areas.
- **Stillwater Homeowners Association** Located in Naperville, Illinois, Stillwater Homeowners Association maintains four tennis courts, an Olympic sized pool and an upscale ballroom with commercial-grade kitchen. The community also maintains three storm water retention ponds and a detention basin.
- **Birchfield Community Services Association** This extensive Association comprises seven separate parcels which include 505 townhome and single family homes. This Community Services Association is located in Mt. Laurel, New Jersey. Three lakes, a pool, a clubhouse and management office, wood carports, aluminum siding, and asphalt shingle roofs are a few of the elements maintained by the Association.
- Oakridge Manor Condominium Association Located in Londonderry, New Hampshire, this Association includes 104 units at 13 buildings. In addition to extensive roads and parking areas, the Association maintains a large septic system and significant concrete retaining walls.
- **Memorial Lofts Homeowners Association** This upscale high rise is located in Houston, Texas. The 20 luxury units include large balconies and decorative interior hallways. The 10-story building utilizes a painted stucco facade and TPO roof, while an on-grade garage serves residents and guests.

PRIOR RELEVANT EXPERIENCE

Mr. Ebert earned his Bachelor of Science degree in Geological Engineering from the University of Wisconsin-Madison. His relevant course work includes foundations, retaining walls, and slope stability. Before joining Reserve Advisors, Mr. Ebert was an oilfield engineer and tested and evaluated hundreds of oil and gas wells throughout North America.

EDUCATION

University of Wisconsin-Madison - B.S. Geological Engineering

PROFESSIONAL AFFILIATIONS/DESIGNATIONS

Professional Engineering License – Wisconsin, North Carolina, Illinois, Colorado Reserve Specialist (RS) - Community Associations Institute Professional Reserve Analyst (PRA) - Association of Professional Reserve Analysts



RESOURCES

Reserve Advisors utilizes numerous resources of national and local data to conduct its Professional Services. A concise list of several of these resources follows:

<u>Association of Construction Inspectors</u>, (ACI) the largest professional organization for those involved in construction inspection and construction project management. ACI is also the leading association providing standards, guidelines, regulations, education, training, and professional recognition in a field that has quickly become important procedure for both residential and commercial construction, found on the web at www.iami.org.

American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc., (ASHRAE) the American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc., devoted to the arts and sciences of heating, ventilation, air conditioning and refrigeration; recognized as the foremost, authoritative, timely and responsive source of technical and educational information, standards and guidelines, found on the web at www.ashrae.org. Reserve Advisors actively participates in its local chapter and holds individual memberships.

<u>Community Associations Institute</u>, (CAI) America's leading advocate for responsible communities noted as the only national organization dedicated to fostering vibrant, responsive, competent community associations. Their mission is to assist community associations in promoting harmony, community, and responsible leadership.

<u>Marshall & Swift / Boeckh.</u> (MS/B) the worldwide provider of building cost data, co-sourcing solutions, and estimating technology for the property and casualty insurance industry found on the web at www.marshallswift.com.

R.S. Means CostWorks, North America's leading supplier of construction cost information. As a member of the Construction Market Data Group, Means provides accurate and up-to-date cost information that helps owners, developers, architects, engineers, contractors and others to carefully and precisely project and control the cost of both new building construction and renovation projects found on the web at www.rsmeans.com.

Reserve Advisors' library of numerous periodicals relating to reserve studies, condition analyses, chapter community associations, and historical costs from thousands of capital repair and replacement projects, and product literature from manufacturers of building products and building systems.



7. DEFINITIONS

Definitions are derived from the standards set forth by the Community Associations Institute (CAI) representing America's 305,000 condominium and homeowners associations and cooperatives, and the Association of Professional Reserve Analysts, setting the standards of care for reserve study practitioners.

- **Cash Flow Method** A method of calculating Reserve Contributions where contributions to the reserve fund are designed to offset the variable annual expenditures from the reserve fund. Different Reserve Funding Plans are tested against the anticipated schedule of reserve expenses until the desired funding goal is achieved.
- **Component Method** A method of developing a Reserve Funding Plan with the total contribution is based on the sum of the contributions for individual components.
- **Current Cost of Replacement** That amount required today derived from the quantity of a *Reserve Component* and its unit cost to replace or repair a Reserve Component using the most current technology and construction materials, duplicating the productive utility of the existing property at current *local* market prices for *materials*, *labor* and manufactured equipment, contractors' overhead, profit and fees, but without provisions for building permits, overtime, bonuses for labor or premiums for material and equipment. We include removal and disposal costs where applicable.
- **Fully Funded Balance** The Reserve balance that is in direct proportion to the fraction of life "used up" of the current Repair or Replacement cost similar to Total Accrued Depreciation.
- **Funding Goal (Threshold)** The stated purpose of this Reserve Study is to determine the adequate, not excessive, minimal threshold reserve balances.
- **Future Cost of Replacement** Reserve Expenditure derived from the inflated current cost of replacement or current cost of replacement as defined above, with consideration given to the effects of inflation on local market rates for materials, labor and equipment.
- **Long-Lived Property Component** Property component of Rhygate responsibility not likely to require capital repair or replacement during the next 30 years with an unpredictable remaining Useful Life beyond the next 30 years.
- **Percent Funded** The ratio, at a particular point of time (typically the beginning of the Fiscal Year), of the actual (or projected) Reserve Balance to the Fully Funded Balance, expressed as a percentage.
- **Remaining Useful Life** The estimated remaining functional or useful time in years of a *Reserve Component* based on its age, condition and maintenance.
- **Reserve Component** Property elements with: 1) Rhygate responsibility; 2) limited Useful Life expectancies; 3) predictable Remaining Useful Life expectancies; and 4) a replacement cost above a minimum threshold.
- **Reserve Component Inventory** Line Items in **Reserve Expenditures** that identify a Reserve Component.
- **Reserve Contribution** An amount of money set aside or *Reserve Assessment* contributed to a *Reserve Fund* for future *Reserve Expenditures* to repair or replace *Reserve Components*.
- Reserve Expenditure Future Cost of Replacement of a Reserve Component.
- **Reserve Fund Status** The accumulated amount of reserves in dollars at a given point in time, i.e., at year end.
- **Reserve Funding Plan** The portion of the Reserve Study identifying the *Cash Flow Analysis* and containing the recommended Reserve Contributions and projected annual expenditures, interest earned and reserve balances.
- **Reserve Study** A budget planning tool that identifies the current status of the reserve fund and a stable and equitable Funding Plan to offset the anticipated future major common area expenditures.
- **Useful Life** The anticipated total time in years that a *Reserve Component* is expected to serve its intended function in its present application or installation.



8. PROFESSIONAL SERVICE CONDITIONS

Our Services - Reserve Advisors, LLC (RA) performs its services as an independent contractor in accordance with our professional practice standards and its compensation is not contingent upon our conclusions. The purpose of our reserve study is to provide a budget planning tool that identifies the current status of the reserve fund, and an opinion recommending an annual funding plan to create reserves for anticipated future replacement expenditures of the property.

Our inspection and analysis of the subject property is limited to visual observations, is noninvasive and is not meant to nor does it include investigation into statutory, regulatory or code compliance. RA inspects sloped roofs from the ground and inspects flat roofs where safe access (stairs or ladder permanently attached to the structure) is available. The report is based upon a "snapshot in time" at the moment of inspection. RA may note visible physical defects in our report. The inspection is made by employees generally familiar with real estate and building construction but in the absence of invasive testing RA cannot opine on, nor is RA responsible for, the structural integrity of the property including its conformity to specific governmental code requirements for fire, building, earthquake, and occupancy, or any physical defects that were not readily apparent during the inspection.

RA is not responsible for conditions that have changed between the time of inspection and the issuance of the report. RA does not investigate, nor assume any responsibility for any existence or impact of any hazardous materials, such as asbestos, urea-formaldehyde foam insulation, other chemicals, toxic wastes, environmental mold or other potentially hazardous materials or structural defects that are latent or hidden defects which may or may not be present on or within the property. RA does not make any soil analysis or geological study as part of its services; nor does RA investigate water, oil, gas, coal, or other subsurface mineral and use rights or such hidden conditions. RA assumes no responsibility for any such conditions. The Report contains opinions of estimated costs and remaining useful lives which are neither a guarantee of the actual costs of replacement nor a guarantee of remaining useful lives of any property element.

RA assumes, without independent verification, the accuracy of all data provided to it. You agree to indemnify and hold RA harmless against and from any and all losses, claims, actions, damages, expenses or liabilities, including reasonable attorneys' fees, to which we may become subject in connection with this engagement, because of any false, misleading or incomplete information which we have relied upon supplied by you or others under your direction, or which may result from any improper use or reliance on the Report by you or third parties under your control or direction. Your obligation for indemnification and reimbursement shall extend to any director, officer, employee, affiliate, or agent of RA. Liability of RA and its employees, affiliates, and agents for errors and omissions, if any, in this work is limited to the amount of its compensation for the work performed in this engagement.

Report - RA completes the services in accordance with the Proposal. The Report represents a valid opinion of RA's findings and recommendations and is deemed complete. RA, however, considers any additional information made available to us within 6 months of issuing the Report if a timely request for a revised Report is made. RA retains the right to withhold a revised Report if payment for services was not tendered in a timely manner. All information received by RA and all files, work papers or documents developed by RA during the course of the engagement shall remain the property of RA and may be used for whatever purpose it sees fit.

Your Obligations - You agree to provide us access to the subject property for an on-site visual inspection You agree to provide RA all available, historical and budgetary information, the governing documents, and other information that we request and deem necessary to complete the Report. You agree to pay actual attorneys' fees and any other costs incurred to collect on any unpaid balance for RA's services.

Use of Our Report and Your Name - Use of this Report is limited to only the purpose stated herein. You hereby acknowledge that any use or reliance by you on the Report for any unauthorized purpose is at your own risk and you shall hold RA harmless from any consequences of such use. Use by any unauthorized third party is unlawful. The Report in whole or in part is not and cannot be used as a design specification for design engineering purposes or as an appraisal. You may show our Report in its entirety to the following third parties: members of your organization, your accountant, attorney, financial institution and property manager who need to review the information contained herein. Without the written consent of RA, you shall not disclose the Report to any other third party. The Report contains intellectual property developed by RA and shall not be reproduced or distributed to any party that conducts reserve studies without the written consent of RA.

RA will include your name in our client lists. RA reserves the right to use property information to obtain estimates of replacement costs, useful life of property elements or otherwise as RA, in its sole discretion, deems appropriate.

Payment Terms, Due Dates and Interest Charges - Retainer payment is due upon authorization and prior to inspection. The balance is due net 30 days from the report shipment date. Any balance remaining 30 days after delivery of the Report shall accrue an interest charge of 1.5% per month. Any litigation necessary to collect an unpaid balance shall be venued in Milwaukee County Circuit Court for the State of Wisconsin.