# **FULL RESERVE STUDY**

# New Albany Communities Master Association



New Albany, Ohio October 25, 2018



Long-term thinking. Everyday commitment.

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

New Albany Communities Master Association New Albany, Ohio

Dear Board of Directors of New Albany Communities Master Association:

At the direction of the Board that recognizes the need for proper reserve planning, we have conducted a *Full Reserve Study* of New Albany Communities Master Association in New Albany, Ohio and submit our findings in this report. The effective date of this study is the date of our visual, noninvasive inspection, October 25, 2018.

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

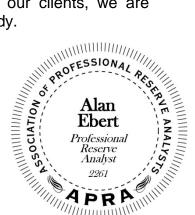
An ongoing review by the Board and an Update of this Reserve Study are necessary to ensure an equitable funding plan since a Reserve Study is a snapshot in time. We recommend the Board budget for an Update to this Reserve Study in two- to three-years. We look forward to continuing to help New Albany Communities Master 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 December 5, 2018 by

Reserve Advisors, Inc.

Visual Inspection and Report by: Sarah Girls, RS<sup>1</sup> Review by: Alan M. Ebert, RS, PRA<sup>2</sup>, Director of Quality Assurance



<sup>&</sup>lt;sup>2</sup> 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.





<sup>&</sup>lt;sup>1</sup> 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.



Long-term thinking. Everyday commitment.



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# 1.RESERVE STUDY EXECUTIVE SUMMARY

Client: New Albany Communities Master Association (New Albany Communities Master)

Location: New Albany, Ohio

Reference: 101806

**Property Basics:** New Albany Communities Master Association is a homeowners association which is responsible for the common elements shared by 2,506 single family homes. The common elements of the Association were built beginning in 1990 and are ongoing. The date of completion is unknown.

Reserve Components Identified: 16 Reserve Components.

**Inspection Date:** October 25, 2018. We conducted a previous Reserve Study on May 26, 2011.

**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 does not recognize a critical year. The Reserve Funding Plan recommends 2048 year end accumulated reserves of approximately \$534,900. We judge this amount of accumulated reserves in 2048 necessary to fund the likely replacement of the paint finishes and partial replacements to the wood fences and the walking paths after 2048. Future replacement costs beyond the next 30 years for the paint finishes and partial replacements to the wood fences and the walking paths are likely to more than double the current cost of replacement. These future needs, although beyond the limit of the Cash Flow Analysis of this Reserve Study, are reflected in the amount of accumulated 2048 year end reserves.

**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
- 1.7% 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:**

- A projected year-end balance of \$1,397,246 as of December 31, 2018 as provided by Management.
- The Association did not budget for Reserve Contributions in 2018. We include our recommendations for Reserve Contributions in 2019.

**Project Prioritization:** We note anticipated Reserve Expenditures for the next 30-years in the **Reserve Expenditures** tables. We also 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:

- Begin replacement of the asphalt pavement walking paths
- Continue with paint finish applications to the wood fences
- Begin replacement of the playgrounds as needed

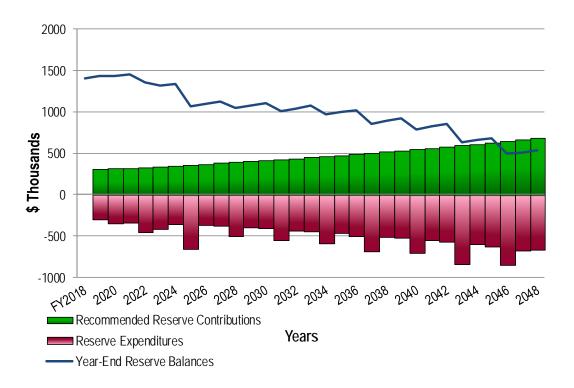


**Recommended Reserve Funding:** We recommend the following in order to achieve a stable and equitable Funding Plan:

- Increase to \$308,000 in 2019
- Inflationary increases through 2048, the limit of this study's Cash Flow Analysis
- Initial adjustment of \$308,000 is equivalent to an increase of \$30.73 in the quarterly contributions per homeowner.

New Albany Communities Master
Recommended Reserve Funding Table and Graph

	Reserve	Reserve		Reserve	Reserve		Reserve	Reserve
Year	Contributions (\$)	Balances (\$)	Year	Contributions (\$)	Balances (\$)	Year	Contributions (\$)	Balances (\$)
2019	308,000	1,430,704	2029	406,100	1,071,284	2039	535,400	918,797
2020	316,600	1,427,676	2030	417,500	1,102,820	2040	550,400	787,465
2021	325,500	1,447,750	2031	429,200	1,006,875	2041	565,800	819,013
2022	334,600	1,357,413	2032	441,200	1,038,065	2042	581,600	851,563
2023	344,000	1,313,202	2033	453,600	1,070,225	2043	597,900	625,898
2024	353,600	1,337,736	2034	466,300	963,847	2044	614,600	656,197
2025	363,500	1,066,435	2035	479,400	995,614	2045	631,800	678,626
2026	373,700	1,096,356	2036	492,800	1,011,750	2046	649,500	496,974
2027	384,200	1,127,152	2037	506,600	855,295	2047	667,700	504,331
2028	395,000	1,040,661	2038	520,800	886,538	2048	686,400	534,879



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

# **New Albany Communities Master Association**

# New Albany, Ohio

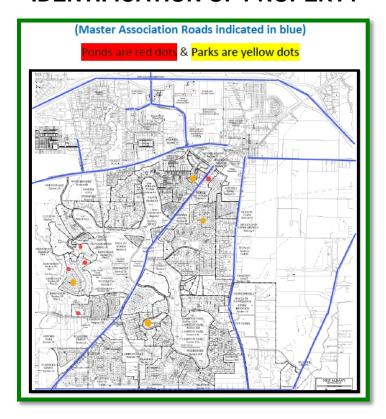
and submit our findings in this report. The effective date of this study is the date of our visual, noninvasive inspection, October 25, 2018. We conducted a previous Reserve Study on May 26, 2011.

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 future 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 Management and 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:



- New Albany Communities Master 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 System
- Foundations
- Structural Frames

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 \$6,000 (These relatively minor expenditures have a limited effect on the recommended Reserve Contributions.)
- Concrete Flatwork
- Landscape
- Paint Finishes, Touch Up
- Paint Finishes and Partial Wood Replacements, Gazebos, Interim
- Pavers, Brick
- Playgrounds, Mulch Replenishment
- Signage, Street
- 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:

Homes and Lots

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

Neighboring Property

Pergolas, Monuments and Pavers located on south side of Morse Road



# New Albany Country Club

- Golf Course
- Irrigation System
- Ponds, Located throughout golf course

## New Albany Country Club Community

- Asphalt Walking Paths, Located within communities
- Boardwalk, Wood
- Brick Walls and Piers, Located within communities
- Fences, Wood, Three Rail
- Pet Waste Stations
- Signage, Located within communities
- Trees

# Village of New Albany

- Barn
- Basketball Court
- Light Poles and Fixtures
- Playground Equipment, James River Road North and South Ends
- Playground Equipment, Lambton Park (City Responsibility beginning 2020. At the request of Management we are including the near term replacement of the playground equipment.)
- Playground Equipment, Oxford
- Pond, Route 62 and Acklerly Farm Road
- Street Systems



# 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
- 2018 local cost of replacement
  - Per unit
  - Per phase
  - Replacement of total quantity
- Total future costs of replacement 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

#### **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

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**

## New Albany Communities Master Association

New Albany, Ohio

#### **Explanatory Notes:**

- 1) 2.8% is the estimated future Inflation Rate for estimating Future Replacement Costs.
- 2) FY2018 is Fiscal Year beginning January 1, 2018 and ending December 31, 2018.

			New Albaity, Office	Estimated	l Li	e Analysis,		Cost	s, \$																	
Line		er Phase	B 0 11 1	1st Year o	fY	ears	Unit	Per Phase		30-Year Total		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
	Quantity (	Quantity Unit	s Reserve Component Inventory	Event	Useful	Remaining	(2018)	(2018) 	(2018)	(Inflated)	FY2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033
4.020	21,340	<b>7,113</b> Square Y	ards Asphalt Pavement, Crack Repair, Patch and Seal Coat, Phased	2019	3 to 5	1 to 3	1.70	12,093	36,278	572,628		12,431	12,779	13,137	13,505	13,883	14,272	14,671	15,082	15,505	15,939	16,385	16,844	17,315	17,800	18,299
4.080	21,340	<b>3,557</b> Square Y	ards Asphalt Pavement, Total Replacement, Walking Paths, Phased	2022	15 to 20	4 to 19	25.00	88,917	533,500	1,273,520					99,302			107,879			117,197			127,319		
4.091	21	<b>21</b> Each	Bollards	2021	to 25	3	200.00	4,200	4,200	13,415				4,563												
4.093	4	4 Each	Bridges	2023	to 20	5	10,000.00	40,000	40,000	125,702						45,923										
4.280	116,800	<b>38,933</b> Linear Fe	eet Fences, Wood, Paint Finishes and Partial Replacements, Phased	2019	to 3	1 to 3	7.00	272,533	817,600	12,905,346		280,164	288,009	296,073	304,363	312,885	321,646	330,652	339,910	349,428	359,212	369,270	379,609	390,238	401,165	412,398
4.330	45	4 Each	Gates, Phased	2019	10 to 15	1 to 12	1,500.00	5,625	67,500	266,363		5,782	5,944	6,111	6,282	6,458	6,639	6,825	7,016	7,212	7,414	7,622	7,835	8,054	8,280	8,512
4.360	1	1 Each	Gazebo	2021	to 25	3	9,000.00	9,000	9,000	29,278				9,777												
4.660	1	1 Allowand	e Playground Equipment, Ebrington Park	2037	15 to 20	19	22,500.00	22,500	22,500	38,023																
4.661	1	1 Allowand	e Playground Equipment, Lambton Park	2020	15 to 20	2	35,000.00	35,000	35,000	36,987			36,987													
4.662	1	1 Allowand	e Playground Equipment, Ogden Wood and Allpath	2022	15 to 20	4	22,500.00	22,500	22,500	25,128					25,128											
4.663	1	1 Allowand	e Playground Equipment, Olmstead and Aspin Wall	2023	15 to 20	5	22,500.00	22,500	22,500	25,831						25,831										
4.664	1	1 Allowand	e Playground Equipment, Sutton	2024	15 to 20	6	7,500.00	7,500	7,500	8,852							8,852									
4.700	2	2 Each	Pond, Aerators, Eberington	2025	10 to 15	7	5,000.00	10,000	10,000	50,846								12,133								
4.701	1	1 Each	Pond, Aerator, Thompson	2023	10 to 15	5	5,000.00	5,000	5,000	5,740						5,740										
4.710	3,950	595 Linear Fe	eet Ponds, Erosion Control, Partial	2025	to 15	7	34.00	20,230	134,300	24,544								24,544								
4.730	22,700	<b>5,675</b> Square Y	ards Ponds, Sediment Removal, Partial	2025	to 30	7	23.00	130,525	522,100	158,360								158,360								
			Anticipated Expenditures, By Year							\$15,560,563	0	298,377	343,719	329,661	448,580	410,720	351,409	655,064	362,008	372,145	499,762	393,277	404,288	542,926	427,245	439,209

# **RESERVE EXPENDITURES**

## New Albany Communities Master Association

New Albany, Ohio

				New Albany, Onio	_																					
					Estimated		e Analysis, _		Cost	, .																
Line Item		Per Phase Quantity	Units	Reserve Component Inventory	1st Year o		ears Remaining	Unit (2018)	Per Phase (2018)	Total (2018)	30-Year Total (Inflated)	16 2034	17 2035	18 2036	19 2037	20 2038	21 2039	22 2040	23 2041	24 2042	25 2043	26 2044	27 2045	28 2046	29 2047	30 204
4.020	21,340	<b>7.113</b> Sau	are Yards	Asphalt Pavement, Crack Repair, Patch and Seal Coat, Phased	2019	3 to 5	1 to 3	1.70	12,093	36,278	572,628	18.811	19.338	19.879	20,436	21.008	21.596	22.201	22.823	23.462	24,118	24.794	25.488	26.202	26.935	27.6
4.080	21,340			Asphalt Pavement, Total Replacement, Walking Paths, Phased	2022	15 to 20		25.00	88,917	533,500	,,		,	,	150,263	,	_,,,,,,	163,242	,		177,342	= 1,1.0.1		192,660		,-
4.091	21	<b>21</b> Eac	ch	Bollards	2021	to 25	3	200.00	4,200	4,200	13,415												8,852			
4.093	4	4 Eac	h	Bridges	2023	to 20	5	10,000.00	40,000	40,000	125,702										79,779					
4.280	116,800	<b>38,933</b> Line	ear Feet	Fences, Wood, Paint Finishes and Partial Replacements, Phased	2019	to 3	1 to 3	7.00	272,533	817,600	12,905,346	423,945	435,815	448,018	460,563	473,458	486,715	500,343	514,353	528,755	543,560	558,780	574,425	590,509	607,044	624,0
4.330	45	4 Eac	ch	Gates, Phased	2019	10 to 15	1 to 12	1,500.00	5,625	67,500	266,363	8,750	8,995	9,247	9,506	9,772	10,046	10,327	10,616	10,913	11,219	11,533	11,856	12,188	12,529	12,88
4.360	1	1 Eac	ch	Gazebo	2021	to 25	3	9,000.00	9,000	9,000	29,278													19,501		
4.660	1	1 Allo	wance	Playground Equipment, Ebrington Park	2037	15 to 20	19	22,500.00	22,500	22,500	38,023				38,023											
4.661	1	1 Allo	wance	Playground Equipment, Lambton Park	2020	15 to 20	2	35,000.00	35,000	35,000	36,987															
4.662	1	1 Allo	wance	Playground Equipment, Ogden Wood and Allpath	2022	15 to 20	4	22,500.00	22,500	22,500	25,128															
4.663	1	1 Allo	wance	Playground Equipment, Olmstead and Aspin Wall	2023	15 to 20	5	22,500.00	22,500	22,500	25,831															
4.664	1	1 Allo	wance	Playground Equipment, Sutton	2024	15 to 20	6	7,500.00	7,500	7,500	8,852															
4.700	2	<b>2</b> Eac	h	Pond, Aerators, Eberington	2025	10 to 15	7	5,000.00	10,000	10,000	50,846			16,439											22,274	
4.701	1	1 Eac	ch	Pond, Aerator, Thompson	2023	10 to 15	5	5,000.00	5,000	5,000	5,740															
4.710	3,950	<b>595</b> Line	ear Feet	Ponds, Erosion Control, Partial	2025	to 15	7	34.00	20,230	134,300	24,544															
4.730	22,700	<b>5,675</b> Squ	are Yards	Ponds, Sediment Removal, Partial	2025	to 30	7	23.00	130,525	522,100	158,360															
				A C : 4 I F I I C B V							A45 500 500	500 000	404.440	400 500	070 704	504.000	540.057	000 440	F 47 700	500 400	000.040	505 407	000 004	044.000		0040

Anticipated Expenditures, By Year \$15,560,563 \$89,822 \$464,148 \$493,583 \$678,791 \$504,238 \$518,357 \$696,113 \$547,792 \$563,130 \$836,018 \$595,107 \$620,621 \$841,060 \$668,782 \$664,611

Reserve Advisors, Inc.

# **RESERVE FUNDING PLAN**

# CASH FLOW ANALYSIS New Albany Communities Master Association

	Master Association	,	<u>Individual Res</u>	<u>serve Budgets</u>	s & Cash Flov	<u>vs for the Nex</u>	<u>t 30 Years</u>										
	New Albany, Ohio	FY2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033
	Reserves at Beginning of Year (Note 1)	N/A	1,397,246	1,430,704	1,427,676	1,447,750	1,357,413	1,313,202	1,337,736	1,066,435	1,096,356	1,127,152	1,040,661	1,071,284	1,102,820	1,006,875	1,038,065
	Total Recommended Reserve Contributions (Note 2)	N/A	308,000	316,600	325,500	334,600	344,000	353,600	363,500	373,700	384,200	395,000	406,100	417,500	429,200	441,200	453,600
Plus	Estimated Interest Earned, During Year (Note 3)	N/A	23,835	24,091	24,235	23,643	22,509	22,343	20,263	18,229	18,741	18,271	17,800	18,324	17,781	17,235	17,769
Less	Anticipated Expenditures, By Year	N/A	(298,377)	(343,719)	(329,661)	(448,580)	(410,720)	(351,409)	(655,064)	(362,008)	(372,145)	(499,762)	(393,277)	(404,288)	(542,926)	(427,245)	(439,209)
	Anticipated Reserves at Year End	<u>\$1,397,246</u>	\$1,430,704	\$1,427,676	\$1,447,750	\$1,357,413	\$1,313,202	\$1,337,736	\$1,066,435	\$1,096,356	\$1,127,152	\$1,040,661	\$1,071,284	\$1,102,820	\$1,006,875	\$1,038,065	\$1,070,22 <u>5</u>

(continued)	Individual Res	erve Budgets	s & Cash Flow	s for the Nex	t 30 Years, Co	ontinued									
	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048
Reserves at Beginning of Year	1,070,225	963,847	995,614	1,011,750	855,295	886,538	918,797	787,465	819,013	851,563	625,898	656,197	678,626	496,974	504,331
Total Recommended Reserve Contributions	466,300	479,400	492,800	506,600	520,800	535,400	550,400	565,800	581,600	597,900	614,600	631,800	649,500	667,700	686,400
Plus Estimated Interest Earned, During Year	17,144	16,515	16,919	15,736	14,681	15,216	14,381	13,540	14,080	12,453	10,806	11,250	9,908	8,439	8,759
Less Anticipated Expenditures, By Year	(589,822)	(464,148)	(493,583)	(678,791)	(504,238)	(518,357)	(696,113)	(547,792)	(563,130)	(836,018)	(595,107)	(620,621)	(841,060)	(668,782)	(664,611)
Anticipated Reserves at Year End	<u>\$963,847</u>	<u>\$995,614</u>	<u>\$1,011,750</u>	<u>\$855,295</u>	<u>\$886,538</u>	<u>\$918,797</u>	<u>\$787,465</u>	<u>\$819,013</u>	<u>\$851,563</u>	<u>\$625,898</u>	<u>\$656,197</u>	<u>\$678,626</u>	<u>\$496,974</u>	<u>\$504,331</u>	\$534,879 (NOTE 4)

# **Explanatory Notes:**

- 1) Year 2018 ending reserves are projected by Management as of December 31, 2018; FY2018 starts January 1, 2018 and ends December 31, 2018.
- 2) 2019 is the first year of recommended contributions.
- 3) 1.7% is the estimated annual rate of return on invested reserves
- 4) Accumulated year 2048 ending reserves consider the need to fund for replacement of the paint finishes and partial replacements to the wood fences and the walking paths shortly after 2048, and the age, size, overall condition and complexity of the property.

Printed on 12/5/2018 Funding Plan - Section 3

# **FIVE YEAR OUTLOOK**

# New Albany Communities Master Association

New Albany, Ohio

Line Item	Reserve Component Inventory	RUL = 0 FY2018	1 2019	2 2020	3 2021	4 2022	5 2023
4.020	Asphalt Pavement, Crack Repair, Patch and Seal Coat, Phased		12,431	12,779	13,137	13,505	13,883
4.080	Asphalt Pavement, Total Replacement, Walking Paths, Phased					99,302	
4.091	Bollards				4,563		
4.093	Bridges						45,923
4.280	Fences, Wood, Paint Finishes and Partial Replacements, Phased		280,164	288,009	296,073	304,363	312,885
4.330	Gates, Phased		5,782	5,944	6,111	6,282	6,458
4.360	Gazebo				9,777		
4.661	Playground Equipment, Lambton Park			36,987			
4.662	Playground Equipment, Ogden Wood and Allpath					25,128	
4.663	Playground Equipment, Olmstead and Aspin Wall						25,831
4.701	Pond, Aerator, Thompson						5,740
	Anticipated Expenditures, By Year	0	298,377	343,719	329,661	448,580	410,720

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# **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 and Seal Coat

**Line Item:** 4.020

**Quantity:** Approximately 21,340 square yards of asphalt pavement walking paths are located throughout the community.

**History:** Management informs us the Association conducts crack repairs and patches to the walking paths and applies seal coat applications to a third of the walking paths annually.

**Condition:** Fair overall condition with cracks and deterioration evident.

**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, Walking Paths

*Line Item:* 4.080

**Quantity:** Approximately 21,340 square yards of asphalt pavement walking paths are located throughout the community.

*History:* Mostly original with partial replacements evident. The walking paths are at various ages based on construction.



Condition: Fair overall with cracks and deterioration evident.



Cracks at asphalt pavement walking path



Asphalt pavement walking path



Cracks and deterioration at asphalt pavement walking path



Asphalt pavement walking path



Walking path in good condition



Cracks and deterioration at asphalt pavement walking path



**Useful Life:** The need to maintain a safe pedestrian surface results in a useful life of 15- to 20-years

**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.

# **Bollards**

**Line Item:** 4.091

**Quantity:** 21 each

History: Original

Condition: Good to fair overall condition



**Bollard** 

**Useful Life:** Up to 25 years

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.

# **Bridges**

**Line Item:** 4.093

Quantity: The Association maintains four wood bridges comprising 770 square feet at

the following locations:



- Three at Johnstown Road (260 Square Feet, 190 Square Feet and, 260 Square Feet)
- One at Berkley Square (60 Square Feet)

*History:* The bridges are original with partial replacements evident.

**Condition:** Good to fair overall condition with isolated warped boards and wood deterioration evident.





**Bridge at Route 62** 



Worn deck boards at Route 62



Bridge at Route 62 with worn deck board finish

Bridge at Route 62







Bridge structure overview at Route 62

Detached railing at Route 62 Bridge



**Bridge at Reynoldsburg** 

**Useful Life:** Up to 20 years with proper maintenance

**Component Detail Notes:** Proper maintenance should include the following activities funded through the operating budget:

- Annual inspections to identify and correct any unsafe conditions
- Securing of loose fasteners and replacement of deteriorated fasteners
- Replacement of deteriorated wood components
- Power washing with an algaecide and application of a sealer

The rates and types of deterioration are not uniform due to the nature of wood. Replacement is normally an ongoing process which eventually leads to a complete replacement for economic or aesthetic reasons.

**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.



# Fences, Wood

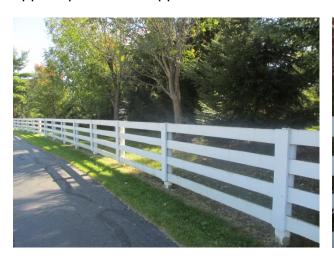
**Line Item:** 4.280

Quantity: 116,800 linear feet

History: Various ages and previous repairs evident.

Condition: Good to fair overall condition. Management informs us the Association

applies paint finish applications to a third of the fences annually.





**Wood fence** 



Loose rail at wood fence



Wood fence

Wood deterioration at fence post







Loose connection at wood fence

Split rail at wood fence



Wood rail fence

**Useful Life:** We recommend the Association continue to apply paint finishes to the fences every three years. Based on the current condition and maintenance schedule of the wood fences, we include the replacement of up to 1/30<sup>th</sup> of the wood fences with each paint cycle, assuming a 30 year useful life for the fences.

Priority/Criticality: Per Board discretion

**Expenditure Detail Notes:** Expenditure timing and costs are depicted in the **Reserve Expenditures** table in Section 3. The Association should anticipate periodic partial replacements due to the non-uniform nature of wood deterioration.

#### **Gates**

**Line Item:** 4.330

**Quantity:** 45 wood gates are located along the wood fences



*History:* Various ages with previous replacements evident. Management informs us the Association replaces three- to five-gates per year budgeted at \$1,500 each.

Condition: Good to fair overall





Wood gate

Wood gate

**Useful Life:** 10- to 15-years for the gates

Priority/Criticality: Not recommended to defer

**Expenditure Detail Notes:** Expenditure timing and costs are depicted in the **Reserve Expenditures** table in Section 3. The estimate of cost is based on historical costs provided by Management.

### Gazebo

**Line Item:** 4.360

**Quantity:** One each

History: Original

Condition: Fair overall







Gazebo

Wood shingle roof

**Useful Life:** Up to 25 years with periodic maintenance

**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 budget for paint applications and repairs through the operating budget. Our cost for renovation includes:

· Replacement of the roof

Benches, Cupola, Light Fixtures, Etc.

• Partial replacement of deteriorated wood components

# **Playground Equipment**

**Line Items:** 4.660 through 4.664

**Quantity:** The Association maintains five playgrounds at the following locations:

- Ebrington Park (Installed in 2017)
- Lambton Park
- Ogden Woods and Alpath
- Olmstead and Aspin Wall
- Sutton Road

*History:* Various ages based on the construction of the community. Management informs us that once the playground equipment reaches 20 years of age, the responsibility of ownership transitions to the Village of New Albany.

**Condition:** Good to fair overall

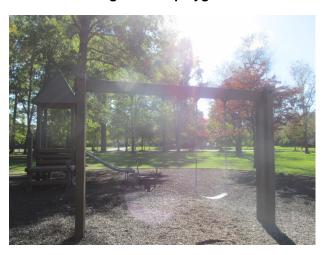




**Ebrington Park playground** 



Lambton Park playground



Lambton Park swing set



Ogden Wood and Allpath playground



Olmstead and Aspin Wall playground



**Sutton Road playground** 

Useful Life: 15- to 20-years



**Component Detail Notes:** Safety is the major purpose for maintaining playground equipment. We recommend an annual inspection of the playground equipment to identify and repair as normal maintenance loose connections and fasteners or damaged elements. We suggest the Association learn more about the specific requirements of playground equipment at PlaygroundSafety.org. We recommend the use of a specialist for the design or replacement of the playground equipment environment.

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 include an allowance in the unit cost for replacement of the safety surface.

# **Ponds, Aerators**

**Line Items:** 4.700 and 4.701

**Quantity and History:** The Association maintains two aerators at the Eberington Pond, which were replaced in 2014 and one aerator at Thompson which was replaced in 2012 with motor repairs in 2017. Management informs us that once the ponds reach 20 years of age, the responsibility of ownership transitions to the Village of New Albany.

**Condition:** Reported in good to fair condition

Useful Life: 10- to 15-years

**Component Detail Notes:** The use of small pumps, motors and aerators circulates pond water and increases the amount of entrained oxygen in the water, increasing water quality and reducing algae growths.

**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.

# **Ponds, Erosion Control**

**Line Item:** 4.710

**Quantity:** 3,950 linear feet of natural vegetation at the pond shorelines

*History:* Various ages based on installation of the ponds with construction. Management informs us that once the ponds reach 20 years of age, the responsibility of ownership transitions to the Village of New Albany.

**Condition:** Good to fair overall condition with isolated areas of shoreline erosion.







Pond at Eberington





**Pond at High Grove** 

**Useful Life:** Shorelines are subject to fluctuations in water levels, increased plant growth and migrating storm and ground water resulting in the need for erosion control measures up to every 15 years.

**Component Detail Notes:** The steep shoreline embankments are likely to exacerbate soil movement and erosion. The use and maintenance of landscape, natural vegetation and/or stone rip rap along the pond shoreline will help maintain an attractive appearance and prevent soil erosion.

Shoreline plantings are referred to as buffer zones. Buffer zones provide the following advantages:

- Control insects naturally
- · Create an aesthetically pleasing shoreline
- Enhance water infiltration and storage
- Filter nutrients and pollutants
- Increase fish and wildlife habitat
- Reduce lawn maintenance



- Stabilize shoreline and reduce erosion
- Trap sediments

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 to install a combination of plantings around the ponds along 595 linear feet, or approximately fifteen percent (15%), of the shoreline per event.

# **Ponds, Sediment Removal**

**Line Item:** 4.730

**Quantity:** 22,700 square yards of water surface area

*History:* Management informs us that once the ponds reach 20 years of age, the responsibility of ownership transitions to the Village of New Albany.

**Useful Life:** Based on the visual condition, construction, adjacent deciduous trees and visibly apparent erosion, we recommend the Association anticipate the need to remove pond sediment up to every 30 years.

**Component Detail Notes:** The gradual build-up of natural debris, including tree leaves, branches and silt, may eventually change the topography of areas of the pond. Silt typically accumulates at inlets, outlets and areas of shoreline erosion. Sediment removal of ponds becomes necessary if this accumulation alters the quality of pond water or the functionality of the ponds as storm water management structures. Sediment removal is the optimal but also the most capital intensive method of pond management.

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. For reserve budgeting purposes, we estimate the need to remove an average depth of one yard from approximately twenty-five percent (25%) of the surface area. However, the actual volume of material to remove may vary dependent upon an invasive analysis at the time of removal. A visual inspection of a body of water cannot reveal the amount of accumulated silt. This is especially true on larger bodies of water. It is therefore inaccurate to assume an entire body of water will require sediment removal. It is more cost effective to spot remove in areas of intense silt accumulation as noted through bathymetric surveys. The amount or depth of silt is determined through prodding into the silt until a relatively solid base is found or through bathymetric surveys. A bathymetric survey establishes a base of data about the depth of the body of water over many locations against which the data of future surveys is compared. These invasive procedures are beyond the scope of a Reserve Study and require multiple visits to the site. We recommend New Albany Communities Master contract with a local engineer for periodic bathymetric surveys. Future updates of the



Reserve Study can incorporate future anticipated expenditures based on the results of the bathymetric surveys.

Unit costs per cubic yard to remove can vary significantly based on the type of equipment used, quantity of removed material and disposal of removed material. Sediment removal costs must also include mobilization, or getting the equipment to and from the site. Also, the portion of the overall cost to remove associated with mobilization varies based on the volume removed. Costs for sediment disposal also vary depending on the site. Compact sites will require hauling and in some cases disposal fees.

# **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.

New Albany Communities Master 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 standards<sup>1</sup> set forth by the Community Associations Institute (CAI) and the Association of Professional Reserve Analysts (APRA) fulfilling the requirements of a "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
- Local<sup>2</sup> 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 New Albany,

<sup>&</sup>lt;sup>1</sup> Identified in the APRA "Standards - Terms and Definitions" and the CAI "Terms and Definitions".

<sup>&</sup>lt;sup>2</sup> See Credentials for additional information on our use of published sources of cost data.



Ohio at an annual inflation rate<sup>3</sup>. 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 New Albany Communities Master 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.

2

<sup>&</sup>lt;sup>3</sup> Derived from Marshall & Swift, historical costs and the Bureau of Labor Statistics.



# 6. CREDENTIALS

#### HISTORY AND DEPTH OF SERVICE

**Founded in 1991,** Reserve Advisors, Inc. 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.



# QUALIFICATIONS THEODORE J. SALGADO Principal Owner

#### **CURRENT CLIENT SERVICES**

Theodore J. Salgado is a co-founder of Reserve Advisors, Inc., which is dedicated to serving community associations, city and country clubs, religious organizations, educational facilities, and public and private entities throughout the United States. He is responsible for the production, management, review, and quality assurance of all reserve studies, property inspection services and consulting services for a nationwide portfolio of more than 6,000 clients. Under his direction, the firm conducts reserve study services for community associations, apartment complexes, churches, hotels, resorts, office towers and vintage architecturally ornate buildings.



#### PRIOR RELEVANT EXPERIENCE

Before founding Reserve Advisors, Inc. with John P. Poehlmann in 1991, Mr. Salgado, a professional engineer registered in the State of Wisconsin, served clients for over 15 years through American Appraisal Associates, the world's largest full service valuation firm. Mr. Salgado conducted facilities analyses of hospitals, steel mills and various other large manufacturing and petrochemical facilities and casinos.

He has served clients throughout the United States and in foreign countries, and frequently acted as project manager on complex valuation, and federal and state tax planning assignments. His valuation studies led to negotiated settlements on property tax disputes between municipalities and property owners.

Mr. Salgado has authored articles on the topic of reserve studies and facilities maintenance. He also co-authored *Reserves*, an educational videotape produced by Reserve Advisors on the subject of Reserve Studies and maintaining appropriate reserves. Mr. Salgado has also written in-house computer applications manuals and taught techniques relating to valuation studies.

#### **EXPERT WITNESS**

Mr. Salgado has testified successfully before the Butler County Board of Tax Revisions in Ohio. His depositions in pretrial discovery proceedings relating to reserve studies of Crestview Estates Condominium Association in Wauconda, Illinois, Rivers Point Row Property Owners Association, Inc. in Charleston, South Carolina and the North Shore Club Associations in South Bend, Indiana have successfully assisted the parties in arriving at out of court settlements.

**EDUCATION** - Milwaukee School of Engineering - B.S. Architectural Engineering

#### PROFESSIONAL AFFILIATIONS/DESIGNATIONS

American Association of Cost Engineers - Past President, Wisconsin Section Association of Construction Inspectors - Certified Construction Inspector Association of Professional Reserve Analysts - Past President & Professional Reserve Analyst (PRA)

Community Associations Institute - Member and Volunteer Leader of multiple chapters Concordia Seminary, St. Louis - Member, National Steering Committee Milwaukee School of Engineering - Member, Corporation Board Professional Engineer, Wisconsin (1982) and North Carolina (2014)

Ted continually maintains his professional skills through American Society of Civil Engineers, ASHRAE, Association of Construction Inspectors, and continuing education to maintain his professional engineer licenses.



## JOHN P. POEHLMANN, RS Principal

John P. Poehlmann is a co-founder of Reserve Advisors, Inc. He is responsible for the finance, accounting, marketing, and overall administration of Reserve Advisors, Inc. He also regularly participates in internal Quality Control Team Reviews of Reserve Study reports.

Mr. Poehlmann directs corporate marketing, including business development, advertising, press releases, conference and trade show exhibiting, and electronic marketing campaigns. He frequently speaks throughout the country at seminars and workshops on the benefits of future planning and budgeting for capital repairs and replacements of building components and other assets.



#### PRIOR RELEVANT EXPERIENCE

Mr. Poehlmann served on the national Board of Trustees of Community Associations Institute. An international organization, Community Associations Institute (CAI) is a nonprofit 501(c)(3) trade association created in 1973 to provide education and resources to America's 335,000 residential condominium, cooperative and homeowner associations and related professionals and service providers.

He is a founding member of the Institute's Reserve Committee. The Reserve Committee developed national standards and the Reserve Specialist (RS) Designation Program for Reserve Study providers. Mr. Poehlmann has authored numerous articles on the topic of Reserve Studies, including Reserve Studies for the First Time Buyer, Minimizing Board Liability, Sound Association Planning Parallels Business Concepts, and Why Have a Professional Reserve Study. He is also a contributing author in Condo/HOA Primer, a book published for the purpose of sharing a wide background of industry knowledge to help boards in making informed decisions about their communities.

#### **INDUSTRY SERVICE AWARDS**

CAI Wisconsin Chapter Award CAI National Rising Star Award CAI Michigan Chapter Award

#### **EDUCATION**

University of Wisconsin-Milwaukee - Master of Science Management University of Wisconsin - Bachelor of Business Administration

#### PROFESSIONAL AFFILIATIONS

**Community Associations Institute (CAI)** - Founding member of Reserve Committee; former member of National Board of Trustees; Reserve Specialist (RS) designation; Member of multiple chapters

Association of Condominium, Townhouse, & Homeowners Associations (ACTHA) – member



#### SARAH M. GIRLS, E.I.T., RS

#### **CURRENT CLIENT SERVICES**

Sarah M. Girls, a Civil Engineer, is an Advisor for Reserve Advisors. Ms. Girls is responsible for the inspection and analysis of the condition of clients' properties, and recommending engineering solutions to prolong the lives of the components. She also forecasts capital expenditures for the repair and/or replacement of the property components and prepares technical reports on assignments. She is responsible for conducting Life Cycle Cost Analysis and Capital Replacement Forecast services on townhomes, homeowners associations, planned unit developments and recreational associations.

The following is a partial list of clients served by Sarah Girls demonstrating her breadth of experiential knowledge of community associations in construction and related buildings systems.

- The Lakelands Townhouse Homeowners Association Located in Plainfield, Illinois, this lively townhouse community consists of 65 Units in 16 Buildings surrounding a picturesque lake. The Association maintains multiple docks and retaining walls along the lake. The development also maintains the smaller areas of asphalt pavement and the driveways at each individual unit.
- **Lismore Village Homeowners' Association** Located in Greer, South Carolina, this quaint community comprises 76 townhomes. The buildings feature brick masonry, vinyl siding and asphalt shingle roofs. The development contains asphalt pavement, a gazebo, perimeter fences and concrete flatwork.
- **Pecan Park Garden Estate Condominium** This attractive gated community in Austin, Texas consists of 146 units with a relaxing pool. Located throughout the property are perimeter walls, private drives and an irrigation system.
- **The Villages of Berry Creek** Situated in Georgetown, Texas, this inviting community is comprised of 241 homes. Homeowners can enjoy two pools, a large deck and a playground that provide enough recreational space for entertaining. The development also includes perimeter fences and detention ponds.
- Maple Leaf 20 Condominium Association A townhome style condominium development of 160 units in 20 buildings located in Greenfield, Wisconsin. These buildings were constructed in the mid 2000's and comprise asphalt shingle roofs, vinyl siding and masonry walls. The development contains asphalt pavement, wood fences and concrete flatwork.
- **Emerald Pointe Condominium Association** This quaint community is located in Raleigh, North Carolina and consists of 51 townhomes in 14 buildings. The Association maintains asphalt shingle roofs, wood siding and decks, concrete flatwork and retaining walls.

#### PRIOR RELEVANT EXPERIENCE

Before joining Reserve Advisors, Ms. Girls attended Valparaiso University in Valparaiso, Indiana where she attained her Bachelor of Science degree in Civil Engineering. During her time at Valparaiso University, Ms. Girls lead her senior design group to develop a bypass around the City of Delphi, Indiana. This project also included the design of a bridge and mechanically stabilized earth walls. Ms. Girls also worked for Hagerman Inc. as an intern project engineer. She was responsible for overseeing and inspecting the construction of Valparaiso University's new Welcome Center.

#### **EDUCATION**

Valparaiso University -B.S. Civil Engineering

#### PROFESSIONAL AFFILIATIONS

Engineer In Training (E.I.T.) Registration Reserve Specialist (RS) -Community Associations Institute



#### 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, Inc. 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. Several advisors and a Principal of Reserve Advisors, Inc. hold Senior Memberships with ACI.

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, Inc. 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, Inc., 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 New Albany Communities Master 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) New Albany Communities Master 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, Inc. (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.