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Reserve Studies for Community Associations

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# "Full" Reserve Study



# **Grand Firs HOA**Graham, WA

Report #: 23055-0

For Period Beginning: May 1, 2012

Expires: December 31, 2012

Date Prepared: April 20, 2012



#### Hello, and welcome to your Reserve Study!

This Report is a valuable budget planning tool, for with it you control the future of your association. It contains all the fundamental information needed to understand your current and future Reserve obligations, the most significant expenditures your association will face.

ith respect to Reserves, this Report will tell you "where you are", and "where to go from here".

In this Report, you will find...

- 1) A List of What you're Reserving For
- 2) An Evaluation of your Reserve Fund Size and Strength
- 3) A Recommended Multi-Year Reserve Funding Plan

#### **More Questions?**

Visit our website at <a href="https://www.ReserveStudy.com">www.ReserveStudy.com</a> or call us at:

253.661.5437



Reserve Studies for Community Associations

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## **3- Minute Executive Summary**

Association: Grand Firs HOA Assoc. #: 23055-0

Location: Graham, WA

# of Units: 402

Report Period: May 1, 2012 through December 31, 2012

#### Results as-of 5/1/2012:

Projected Starting Reserve Balance:	\$41,840
Fully Funded Reserve Balance:	\$528,024
Average Reserve Deficit (Surplus) Per Unit:	\$1,209
Percent Funded:	7.9%
100% Full Funding 2012 Monthly Reserve Contribution	\$10,340
70% Threshold Monthly Reserve Contribution	\$9,300
Baseline Contribution (min to maintain reserves above \$0)	\$8,600
Recommended 2012 Special Assessment for Reserves:	\$0
Most Recent Reserve Contribution Rate:	\$2,600

#### **Economic Assumptions:**

Net Annual "After Tax" Interest	<b>Earnings</b>	Accruing to	Reserves	0.10%
Annual Inflation Rate	_	_		3.00%

- The information in this Reserve Study is based on our site inspection on March 13, 2012 and meets or exceeds all requirements of the RCW. This Reserve Study was prepared by a credentialed Reserve Specialist (RS).
- Your Reserve Fund is currently 7.9% Funded. Comparatively, the 70-130% level is where associations statistically enjoy fiscal stability with low risk of special assessment and/or deferred maintenance.
- Based on this starting point and your anticipated future expenses, our recommendation is to increase your Monthly Reserve Contributions to within the 70% to 100% Full Funding range as noted above (Tables and charts herein reflect Full Funding as our recommended contribution). Full and 70% contribution rates are designed to achieve the stated funding objective by the end of our 30-year report scope.
- See photo pages for detailed component information and the basis of our assumptions.

Table 1: Executive Summary				23055-0
	Useful	Rem.	Current	Future
	Life	Useful	Average	Average
# Component	(yrs)	Life (yrs)	Cost	Cost
Site / Grounds				
112 Metal Fencing - Repair/Replace	30	24	\$13,800	\$28,053
120 Asphalt - Resurface	30	24	\$1,040,000	\$2,114,106
135 Entry Gates - Repair/Replace	30	24	\$16,000	\$32,525
136 Entry Gate Operators - Replace	15	9	\$12,000	\$15,65 <b>7</b>
137 Gate Access Panels - Replace	15	9	\$5,000	\$6,524
140 Wood Fence - Replace	20	14	\$450,000	\$680,665
145 Split Rail Fence - Replace	20	14	\$112,500	\$170,166
155 Chain Link Fence - Replace	30	24	\$43,050	\$87,512
160 Pole Lights - Replace	20	14	\$157,500	\$238,233
164 Landscape Lights - Replace	15	9	\$2,650	\$3,458
176 Irrigation Timeclocks - Replace	15	9	\$5,200	\$6,785
185 Stormwater Ponds - Clean/Refurbish	15	9	\$20,000	\$26,095
205 Mailboxes - Replace	20	14	\$39,200	\$59,294
210 Required Signage - Replace	20	14	\$9,650	\$14,596
Recreation				
330 Basketball Eqp - Replace	20	14	\$2,000	\$3,025
340 Play Equipment - Replace	15	9	\$50,000	\$65,239
346 Outdoor Furniture - Replace	20	14	\$10,000	\$15,126

17 Total Funded Components

Note: Cross reference component numbers with photographic inventory appendix. A reserve-funding threshold of \$1,000 is suggested for your association (expenses below this level expected to be factored within operating budget).

Assoc. 23055-0

#### Introduction

A Reserve Study is the art and science of anticipating, and preparing for, an association's major common area repair and replacement expenses. Partially art, because in this field we are making projections about the future. Partially science, because our work is a process of research and

analysis along well defined methodologies.

In this Report you will find the Reserve Component List (what you are reserving for). It contains our estimates for Useful Life, Remaining Useful Life, and the current repair or replacement cost for each major component the association is obligated to maintain. Based on that List and your starting balance we computed the

Reserve Study

- Component List
- Reserve Fund Strength
- Recommended Contribs

association's Reserve Fund Strength (measured as "Percent Funded"), and created a recommended multi-year Reserve Funding Plan to offset future Reserve expenses.

As the <u>physical assets</u> age and deteriorate, it is important to accumulate <u>financial assets</u> to keep the two "in balance". A <u>stable</u> Reserve Funding Plan that offsets the <u>irregular</u> Reserve expenses will ensure that each owner pays their own "fair share" of ongoing common area deterioration.

#### Methodology

First we establish what the projected expenses are, then we determine the association's financial status and create a Funding Plan. For this "Full" Reserve Study, we started with a review of your Governing Documents, recent Reserve expenditures, an evaluation of how expenditures are handled (ongoing maintenance vs Reserves), and research into any well-established association precedents. We

Reserve Study Types

• Full
• Update With-Site-Visit
• Update No-Site-Visit

performed an on-site inspection to quantify and evaluate your common areas, creating your Reserve Component List "from scratch".

#### Which Physical Assets are Covered by Reserves?

There is a national-standard four-part test to determine which expenses should be funded through Reserves. First, it must be a common area maintenance responsibility. Second, the component must have a limited life. Third, the limited life must be predictable (or it by definition is a "surprise" which cannot be accurately anticipated). Fourth, the component must be above a minimum threshold cost. This limits Reserve

#### **Reserve Components**

- Common Area
- Limited Useful Life
- Predictable Life Limit
- Cost must be Significant

Components to major, predictable expenses. Within this framework, it is inappropriate to include "lifetime" components, unpredictable expenses (such as damage due to fire, flood, or earthquake), and expenses more appropriately handled from the Operational Budget or as an insured loss.

How are Useful Life and Remaining Useful Life established?

- 1) Visual Inspection (observed wear and age)
- 2) Association Reserves database of experience
- 3) Client Component History
- 4) Vendor Evaluation and Recommendation

How are Cost Estimates Established?

In this order...

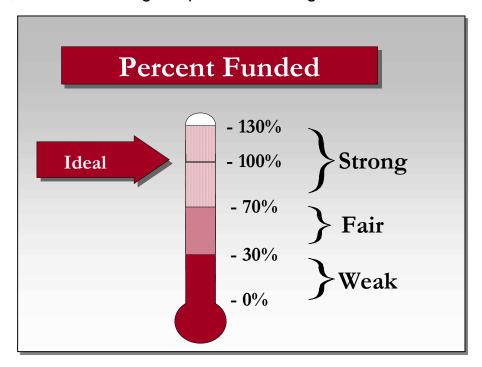
- 1) Client Cost History
- Comparison to Association Reserves database of work done at similar associations
- 3) Vendor Recommendations
- 4) Reliable National Industry cost estimating guidebooks

#### How much Reserves are enough?

Your Reserve cash Balance can measure reserves, but the true measure is whether the funds are adequate. Adequacy is measured in a two-step process:

- 1) Calculate the association's Fully Funded Balance (FFB).
- 2) Compare to the Reserve Fund Balance, and express as a percentage.

The FFB grows as assets age and the Reserve needs of the association increase, but shrinks when projects are accomplished and the Reserve needs of the association decrease. The Fully Funded Balance changes each year, and is a moving but predictable target.



Special assessments and deferred maintenance are common when the Percent Funded is below 30%. While the 100% point is Ideal, a Reserve Fund in the 70% -130% range is considered "strong" because in this range cash flow problems are rare.

Measuring your Reserves by Percent Funded tells how well prepared your association is for upcoming Reserve expenses. New buyers should be very aware of this important disclosure!

#### How much should we contribute?

There are four Funding Principles that we balance in developing your Reserve Funding Plan. Our first objective is to design a plan that provides you with <u>sufficient cash</u> to perform your Reserve projects on time. A <u>stable contribution</u> rate is desirable because it is a hallmark of a proactive plan.

Reserve contributions that are <u>evenly</u> <u>distributed</u> over the owners, over the years, enable each owner to pay their "fair share" of the association's Reserve expenses (this means we recommend special assessments only when all other options have been exhausted). And finally, we develop a plan that is <u>fiscally responsible</u> and "safe" for Boardmembers to recommend to their association.

#### Funding Principles

- Sufficient Cash
- Stable Contribution Rate
- Evenly Distributed
- Fiscally Responsible

#### What is our Recommended Funding Goal?

Maintaining the Reserve Fund at a level equal to the physical deterioration that has occurred is called "Full Funding" the Reserves (100% Funded). As each asset ages and becomes "used up", the Reserve Fund grows proportionally. This is simple, responsible, and our recommendation. As stated previously, associations in the 100% range rarely experience special assessments or deferred maintenance.

Allowing the Reserves to fall close to zero, but not below zero, is called <u>Baseline Funding</u>. In these associations, deterioration occurs without matching Reserve contributions. With a low Percent Funded, special assessments and deferred maintenance are common.

Threshold Funding is the title of all other objectives randomly selected between Baseline Funding and Full Funding.

# Funding Goals • Full Funding • Threshold Funding • Baseline Funding

#### **Site Inspection Notes**

During our site visit on March 13, 2012, we started with a brief meeting with Lindsey Buol, and then started the site inspection beginning with the Asphalt. We visually inspected the property, and were able to see all visible common areas.

Although Grand Firs is a relatively young community, early planning for future maintenance projects and following reserve study recommendations is key to the successful ongoing maintenance of the community.

#### **Projected Expenses**

The figure below shows the array of the projected future expenses at your association. This figure clearly shows the near term and future expenses that your association will face.

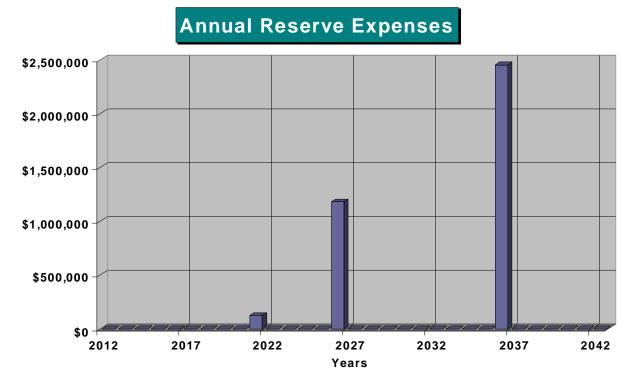


Figure 1

A summary of this information is shown in Table 4, while details of the projects that make up this information are shown in Table 5. Since this is a projection about future events that may or may not take place as anticipated, we feel more certain about "near-term" projects than those many years away. While this Reserve Study is a one-year document, it is based on 30 years worth of looking forward into the future.

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#### **Reserve Fund Status**

The starting point for our financial analysis is your Reserve Fund balance, projected to be \$41,840 as-of the start of your Fiscal Year on May 1, 2012. This is based on your actual balance on 4/17/12 of \$41,840 and anticipated Reserve contributions and expenses projected through the end of your Fiscal Year. As of May 1, 2012, your Fully Funded Balance is computed to be \$528,024 (see Table 3). This figure represents the deteriorated value of your common area components. Comparing your Reserve Balance to your Fully Funded Balance indicates your Reserves are 8% Funded. As indicated earlier in the Executive Summary, this represents a weak status.

#### **Recommended Funding Plan**

Based on your current Percent Funded and your projected cash flow requirements, we are recommending Reserve contributions of \$10,340/month this Fiscal Year. This represents the first year of the 30-year Funding Plan shown below. This same information is shown numerically in both Table 4 and Table 5.

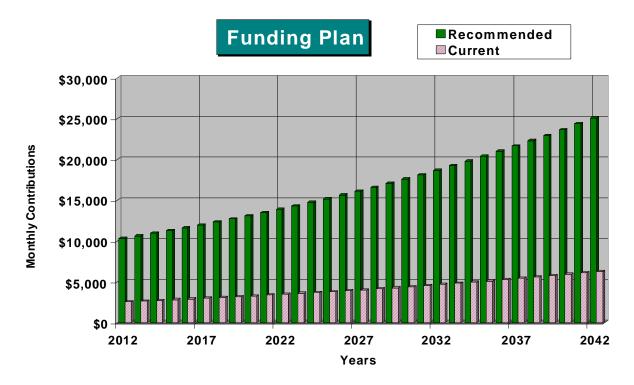


Figure 2

The following chart shows your Reserve balance under our recommended Funding Plan and your current Funding Plan, and your always-changing Fully Funded Balance target.

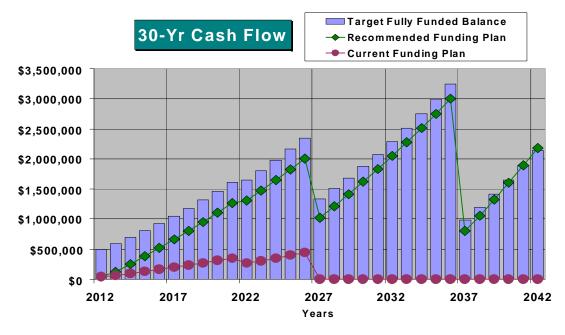


Figure 3

In this figure it is easy to see how your Reserve Fund gradually draws closer to the Fully Funded (100%) level.

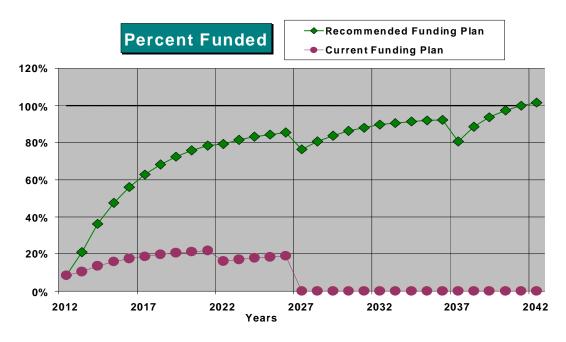


Figure 4

#### **Table Descriptions**

The tabular information in this Report is broken down into five tables.

<u>Table 1</u> summarizes your funded Reserve Components, and is part of the Executive Report summary that appeared earlier in this Report.

<u>Table 2</u> provides the main component description, life, and cost factors for all components determined to be appropriate for Reserve designation. This table represents the core information from which all other tables are derived.

Table 3 is presented primarily as an accounting summary page. The results of the individual line item Fully Funded Balance computations are shown. These individual quantities are summed to arrive at the Fully Funded Balance for the association as of the start date of the Report. The figures in the Current Fund Balance column and the Monthly Reserve Contribution column show our distribution throughout the line items. If the association is underfunded, Reserve Funds are distributed first to components with a short Remaining Useful Life. If the association's Reserve Balance is above 100% Funded, funds are distributed evenly for all components. Contribution rates for each component are a proportionate distribution of the total contribution on the basis of the component's significance to the association (current cost divided by useful life). This presentation is not meant to cause clients to redistribute association funds, it simply presents one way to evenly distribute the total among all the different line items.

<u>Table 4</u>: This table provides a one-page 30-year summary of the cash flowing into and out of the association, compared to the Fully Funded Balance for each year.

<u>Table 5</u>: This table shows the cash flow detail for the next 30 years. This table makes it possible to see what components are projected to require repair or replacement each year, and the size of those individual expenses.

ble 2: Reserve Component Li	st Detail				23055-
			Rem.		Currer
		Useful	Useful	Best	Wor
# Component	Quantity	Life	Life	Cost	Co
Site / Grounds					
112 Metal Fencing - Repair/Replace	Approx 230 linear feet	30	24	\$11,500	\$16,10
120 Asphalt - Resurface	Approx 650,000 square ft	30	24	\$910,000	\$1,170,00
135 Entry Gates - Repair/Replace	(2) 30' swing gates	30	24	\$12,000	\$20,00
136 Entry Gate Operators - Replace	(4) Chamberlain Elite	15	9	\$10,000	\$14,00
137 Gate Access Panels - Replace	(2) Elite panels	15	9	\$4,000	\$6,0
140 Wood Fence - Replace	Approx 18,000 linear feet	20	14	\$360,000	\$540,0
145 Split Rail Fence - Replace	Approx 7,500 linear feet	20	14	\$105,000	\$120,0
155 Chain Link Fence - Replace	Approx 2.050 linear feet	30	24	\$36,900	\$49,2
160 Pole Lights - Replace	Approx (90) assemblies	20	14	\$135,000	\$180,0
164 Landscape Lights - Replace	Approx (38) lights	15	9	\$2,300	\$3,0
176 Irrigation Timeclocks - Replace	(13) Hunter controllers	15	9	\$3,900	\$6,5
185 Stormwater Ponds - Clean/Refurbish	(3) assorted sizes	15	9	\$15,000	\$25,0
205 Mailboxes - Replace	(28) metal cluster stands	20	14	\$33,600	\$44,8
210 Required Signage - Replace	Approx (77) metal signs	20	14	\$7,700	\$11,6
Recreation					
330 Basketball Eqp - Replace	(2) assemblies	20	14	\$1,600	\$2,4
340 Play Equipment - Replace	Extensive, assorted	15	9	\$40,000	\$60,0
346 Outdoor Furniture - Replace	(22) assorted pieces	20	14	\$8,000	\$12,0

<sup>17</sup> Total Funded Components

ble 3: Contribution and Fund	Breakd	own				23055-
		Rem.		Fully	Current	
	Useful	Useful	Current	Funded	Fund	Reserv
# Component	Life	Life	(Avg) Cost	Balance	Balance	Contribution
Site / Grounds						
112 Metal Fencing - Repair/Replace	30	24	\$13,800	\$2,946	\$0.00	\$57.6
120 Asphalt - Resurface	30	24	\$1,040,000	\$221,982	\$0.00	\$4,346.
135 Entry Gates - Repair/Replace	30	24	\$16,000	\$3,415	\$0.00	\$66.
136 Entry Gate Operators - Replace	15	9	\$12,000	\$5,123	\$5,122.67	\$100.
137 Gate Access Panels - Replace	15	9	\$5,000	\$2,134	\$2,134.44	\$41.
140 Wood Fence - Replace	20	14	\$450,000	\$144,075	\$1,349.56	\$2,821.
145 Split Rail Fence - Replace	20	14	\$112,500	\$36,019	\$0.00	\$705.
155 Chain Link Fence - Replace	30	24	\$43,050	\$9,189	\$0.00	\$179.
160 Pole Lights - Replace	20	14	\$157,500	\$50,426	\$0.00	\$987.
164 Landscape Lights - Replace	15	9	\$2,650	\$1,131	\$1,131.26	\$22.
176 Irrigation Timeclocks - Replace	15	9	\$5,200	\$2,220	\$2,219.82	\$43.
185 Stormwater Ponds - Clean/Refurbish	15	9	\$20,000	\$8,538	\$8,537.78	\$167.
205 Mailboxes - Replace	20	14	\$39,200	\$12,551	\$0.00	\$245.
210 Required Signage - Replace	20	14	\$9,650	\$3,090	\$0.00	\$60.
Recreation						
330 Basketball Eqp - Replace	20	14	\$2,000	\$640	\$0.00	\$12.
340 Play Equipment - Replace	15	9	\$50,000	\$21,344	\$21,344.44	\$417
346 Outdoor Furniture - Replace	20	14	\$10,000	\$3,202	\$0.00	\$62.
17 Total Funded Components				\$528,024	\$41,840	\$10,3

	Fiscal Yea	r Beginning:	05/01/12		Interest:	0.1%	Inflation:	3.0%
						-		
	Starting	Fully			Annual	Loans or		Projected
	Reserve	Funded	Percent		Reserve	Special	Interest	Reserve
Year	Balance	Balance	Funded	Rating	Contribs.	Assmts	Income	Expenses
2012	\$41,840	\$528,024	7.9%	Weak	\$82,720	\$0	\$83	\$0
2013	\$124,643	\$594,543	21.0%	Weak	\$127,802	\$0	\$189	\$0
2014	\$252,634	\$699,862	36.1%	Fair	\$131,636	\$0	\$319	\$0
2015	\$384,589	\$810,965	47.4%	Fair	\$135,586	\$0	\$453	\$0
2016	\$520,627	\$928,104	56.1%	Fair	\$139,653	\$0	\$591	\$0
2017	\$660,871	\$1,051,542	62.8%	Fair	\$143,843	\$0	\$733	\$0
2018	\$805,447	\$1,181,551	68.2%	Fair	\$148,158	\$0	\$880	\$0
2019	\$954,485	\$1,318,414	72.4%	Strong	\$152,603	\$0	\$1,031	\$0
2020	\$1,108,119	\$1,462,425	75.8%	Strong	\$157,181	\$0	\$1,187	\$0
2021	\$1,266,487	\$1,613,890	78.5%	Strong	\$161,896	\$0	\$1,286	\$123,758
2022	\$1,305,912	\$1,645,657	79.4%	Strong	\$166,753	\$0	\$1,390	\$0
2023	\$1,474,055	\$1,809,172	81.5%	Strong	\$171,756	\$0	\$1,561	\$0
2024	\$1,647,371	\$1,981,016	83.2%	Strong	\$176,908	\$0	\$1,737	\$0
2025	\$1,826,016	\$2,161,543	84.5%	Strong	\$182,216	\$0	\$1,918	\$0
2026	\$2,010,150	\$2,351,119	85.5%	Strong	\$187,682	\$0	\$1,514	\$1,181,106
2027	\$1,018,241	\$1,333,585	76.4%	Strong	\$193,313	\$0	\$1,115	\$0
2028	\$1,212,669	\$1,505,918	80.5%	Strong	\$199,112	\$0	\$1,313	\$0
2029	\$1,413,093	\$1,687,391	83.7%	Strong	\$205,085	\$0	\$1,516	\$0
2030	\$1,619,695	\$1,878,397	86.2%	Strong	\$211,238	\$0	\$1,726	\$0
2031	\$1,832,659	\$2,079,344	88.1%	Strong	\$217,575	\$0	\$1,942	\$0
2032	\$2,052,176	\$2,290,658	89.6%	Strong	\$224,102	\$0	\$2,165	\$0
2033	\$2,278,444	\$2,512,779	90.7%	Strong	\$230,825	\$0	\$2,395	\$0
2034	\$2,511,664	\$2,746,166	91.5%	Strong	\$237,750	\$0	\$2,632	\$0
2035	\$2,752,046	\$2,991,294	92.0%	Strong	\$244,883	\$0	\$2,876	\$0
2036	\$2,999,805	\$3,248,659	92.3%	Strong	\$252,229	\$0	\$1,899	\$2,455,005
2037	\$798,927	\$990,118	80.7%	Strong	\$259,796	\$0	\$929	\$0
2038	\$1,059,653	\$1,197,656	88.5%	Strong	\$267,590	\$0	\$1,194	\$0
2039	\$1,328,437	\$1,416,755	93.8%	Strong	\$275,618	\$0	\$1,467	\$0
2040	\$1,605,521	\$1,647,922	97.4%	Strong	\$283,886	\$0	\$1,748	\$0
2041	\$1,891,155	\$1,891,684	100.0%	Strong	\$292,403	\$0	\$2,038	\$0

Table 5: 30-Year Income/Expense	Detail (yrs 0 th	rough 4)			23055-0
Fiscal Year	2012	2013	2014	2015	2016
Starting Reserve Balance	\$41,840	\$124,643	\$252,634	\$384,589	\$520,627
Annual Reserve Contribution	\$82,720	\$127,802	\$131,636	\$135,586	\$139,653
Planned Special Assessments	\$0	\$0	\$0	\$0	\$0
Interest Earnings	\$83	\$189	\$319	\$453	\$591
Total Income	\$124,643	\$252,634	\$384,589	\$520,627	\$660,871
# Component					
Site / Grounds					
	0.0	0.0		40	00
112 Metal Fencing - Repair/Replace	\$0	\$0 \$0	\$0	\$0	\$0
120 Asphalt - Resurface	\$0	\$0 \$0	\$0	\$0 \$0	\$0
135 Entry Gates - Repair/Replace 136 Entry Gate Operators - Replace	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0
137 Gate Access Panels - Replace	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0
·	-	·		·	
140 Wood Fence - Replace 145 Split Rail Fence - Replace	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0
155 Chain Link Fence - Replace	\$0 \$0	\$0 \$0	\$0	\$0	\$0
160 Pole Lights - Replace	\$0	\$0	\$0	\$0	\$0
164 Landscape Lights - Replace	\$0 \$0	\$0	\$0	\$0	\$0
176 Irrigation Timeclocks - Replace	\$0	\$0	\$0	\$0	\$0
185 Stormwater Ponds - Clean/Refurbish	\$0 \$0	\$0	\$0	\$0	\$0
205 Mailboxes - Replace	\$0	\$0	\$0	\$0	\$0
210 Required Signage - Replace	\$0	\$0	\$0	\$0	\$0
Recreation					
330 Basketball Eqp - Replace	\$0	\$0	\$0	\$0	\$0
340 Play Equipment - Replace	\$0	\$0	\$0	\$0	\$0
346 Outdoor Furniture - Replace	\$0	\$0	\$0	\$0	\$0
Total Expenses	\$0	\$0	\$0	\$0	\$0
Ending Reserve Balance:	\$124,643	\$252,634	\$384,589	\$520,627	\$660,871

ole 5: 30-Year Income/Expense	Detail (yrs 5 th	rough 9)			23055-
Fiscal Year	2017	2018	2019	2020	202
Starting Reserve Balance	\$660,871	\$805,447	\$954,485	\$1,108,119	\$1,266,48
Annual Reserve Contribution	\$143,843	\$148,158	\$152,603	\$157,181	\$161,8
Planned Special Assessments	\$0	\$0	\$0	\$0	
Interest Earnings	\$733	\$880	\$1,031	\$1,187	\$1,2
Total Income	\$805,447	\$954,485	\$1,108,119	\$1,266,487	\$1,429,6
# Component					
Site / Grounds					
112 Metal Fencing - Repair/Replace	\$0	\$0	\$0	\$0	
120 Asphalt - Resurface	\$0	\$0	\$0	\$0	
135 Entry Gates - Repair/Replace	\$0	\$0	\$0	\$0	
136 Entry Gate Operators - Replace	\$0	\$0	\$0	\$0	\$15,6
137 Gate Access Panels - Replace	\$0	\$0	\$0	\$0	\$6,5
140 Wood Fence - Replace	\$0	\$0	\$0	\$0	
145 Split Rail Fence - Replace	\$0	\$0	\$0	\$0	
155 Chain Link Fence - Replace	\$0	\$0	\$0	\$0	
160 Pole Lights - Replace	\$0	\$0	\$0	\$0	
164 Landscape Lights - Replace	\$0	\$0	\$0	\$0	\$3,4
176 Irrigation Timeclocks - Replace	\$0	\$0	\$0	\$0	\$6,7
185 Stormwater Ponds - Clean/Refurbish	\$0	\$0	\$0	\$0	\$26,0
205 Mailboxes - Replace	\$0	\$0	\$0	\$0	
210 Required Signage - Replace	\$0	\$0	\$0	\$0	
Recreation					
200 Parkethell Free Parket	Φ0	Ф0	00	ФО.	
330 Basketball Eqp - Replace	\$0	\$0	\$0	\$0	
340 Play Equipment - Replace	\$0 \$0	\$0 \$0	\$0 \$0	\$0	\$65,2
Outdoor Furniture - Replace  Total Expenses	\$0	\$0	\$0 \$0	\$0 \$0	\$123,7
rotal Expenses	ΦΟ	ΦΟ	ΦU	Ψ	φ123, <i>1</i>
Ending Reserve Balance:	\$805,447	\$954,485	\$1,108,119	\$1,266,487	\$1,305,9

4/20/2012

able 5: 30-Year Income/Expense D	etail (yrs 10	through 1	4)		23055-0
Fiscal Year	2022	2023	2024	2025	2026
Starting Reserve Balance	\$1,305,912	\$1,474,055	\$1,647,371	\$1,826,016	\$2,010,150
Annual Reserve Contribution	\$166,753	\$171,756	\$176,908	\$182,216	\$187,682
Planned Special Assessments	\$0	\$0	\$0	\$0	\$0
Interest Earnings	\$1,390	\$1,561	\$1,737	\$1,918	\$1,514
Total Income	\$1,474,055	\$1,647,371	\$1,826,016	\$2,010,150	\$2,199,346
# Component					
Site / Grounds					
112 Motel Fensing - Pensir/Penlage	\$0	\$0	\$0	\$0	\$0
112 Metal Fencing - Repair/Replace 120 Asphalt - Resurface	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$(
135 Entry Gates - Repair/Replace	\$0	\$0	\$0	\$0	\$(
136 Entry Gate Operators - Replace	\$0	\$0	\$0	\$0	\$(
137 Gate Access Panels - Replace	\$0	\$0	\$0	\$0	\$(
140 Wood Fence - Replace	\$0	\$0	\$0	\$0	\$680,66
145 Split Rail Fence - Replace	\$0	\$0	\$0	\$0	\$170,16
155 Chain Link Fence - Replace	\$0	\$0	\$0	\$0	\$(
160 Pole Lights - Replace	\$0	\$0	\$0	\$0	\$238,23
164 Landscape Lights - Replace	\$0	\$0	\$0	\$0	\$
176 Irrigation Timeclocks - Replace	\$0	\$0	\$0	\$0	\$
185 Stormwater Ponds - Clean/Refurbish	\$0	\$0	\$0	\$0	\$
205 Mailboxes - Replace	\$0	\$0	\$0	\$0	\$59,29
210 Required Signage - Replace	\$0	\$0	\$0	\$0	\$14,590
Recreation					
330 Basketball Eqp - Replace	\$0	\$0	\$0	\$0	\$3,02
340 Play Equipment - Replace	\$0	\$0	\$0	\$0	\$(
346 Outdoor Furniture - Replace	\$0	\$0	\$0	\$0	\$15,120
Total Expenses	\$0	\$0	\$0	\$0	\$1,181,100
Ending Reserve Balance:	\$1,474,055	\$1,647,371	\$1,826,016	\$2,010,150	\$1,018,24

ole 5: 30-Year Income/Expense	Detail (yrs 15	through 19			23055-
Fiscal Year	2027	2028	2029	2030	20:
Starting Reserve Balance	\$1,018,241	\$1,212,669	\$1,413,093	\$1,619,695	\$1,832,6
Annual Reserve Contribution	\$193,313	\$199,112	\$205,085	\$211,238	\$217,5
Planned Special Assessments	\$0	\$0	\$0	\$0	
Interest Earnings	\$1,115	\$1,313	\$1,516	\$1,726	\$1,9
Total Income	\$1,212,669	\$1,413,093	\$1,619,695	\$1,832,659	\$2,052,1
# Component					
Site / Grounds					
112 Metal Fencing - Repair/Replace	\$0	\$0	\$0	\$0	
120 Asphalt - Resurface	\$0 \$0	\$0	\$0 \$0	\$0	
135 Entry Gates - Repair/Replace	\$0	\$0	\$0	\$0	
136 Entry Gate Operators - Replace	\$0	\$0	\$0	\$0	
137 Gate Access Panels - Replace	\$0	\$0	\$0	\$0	
140 Wood Fence - Replace	\$0	\$0	\$0	\$0	
145 Split Rail Fence - Replace	\$0	\$0	\$0	\$0	
155 Chain Link Fence - Replace	\$0	\$0	\$0	\$0	
160 Pole Lights - Replace	\$0	\$0	\$0	\$0	
164 Landscape Lights - Replace	\$0	\$0	\$0	\$0	
176 Irrigation Timeclocks - Replace	\$0	\$0	\$0	\$0	
185 Stormwater Ponds - Clean/Refurbish	\$0	\$0	\$0	\$0	
205 Mailboxes - Replace	\$0	\$0	\$0	\$0	
210 Required Signage - Replace	\$0	\$0	\$0	\$0	
Recreation					
330 Basketball Eqp - Replace	\$0	\$0	\$0	\$0	
340 Play Equipment - Replace	\$0	\$0	\$0	\$0	
346 Outdoor Furniture - Replace	\$0	\$0	\$0	\$0	
Total Expenses	\$0	\$0	\$0	\$0	
Ending Reserve Balance:	\$1,212,669	\$1,413,093	\$1,619,695	\$1,832,659	\$2,052,1

ble 5: 30-Year Income/Expense De	etail (yrs 20	through 2	4)		23055-0
Fiscal Year	2032	2033	2034	2035	203
Starting Reserve Balance	\$2,052,176	\$2,278,444	\$2,511,664	\$2,752,046	\$2,999,80
Annual Reserve Contribution	\$224,102	\$230,825	\$237,750	\$244,883	\$252,22
Planned Special Assessments	\$0	\$0	\$0	\$0	\$
Interest Earnings	\$2,165	\$2,395	\$2,632	\$2,876	\$1,89
Total Income	\$2,278,444	\$2,511,664	\$2,752,046	\$2,999,805	\$3,253,93
# Component					
Site / Grounds					
112 Metal Fencing - Repair/Replace	\$0	\$0	\$0	\$0	\$28,0
120 Asphalt - Resurface	\$0	\$0	\$0	\$0	\$2,114,10
135 Entry Gates - Repair/Replace	\$0	\$0	\$0	\$0	\$32,52
136 Entry Gate Operators - Replace	\$0	\$0	\$0	\$0	\$24,3
137 Gate Access Panels - Replace	\$0	\$0	\$0	\$0	\$10,1
140 Wood Fence - Replace	\$0	\$0	\$0	\$0	;
145 Split Rail Fence - Replace	\$0	\$0	\$0	\$0	:
155 Chain Link Fence - Replace	\$0	\$0	\$0	\$0	\$87,5
160 Pole Lights - Replace	\$0	\$0	\$0	\$0	
164 Landscape Lights - Replace	\$0	\$0	\$0	\$0	\$5,3
176 Irrigation Timeclocks - Replace	\$0	\$0	\$0	\$0	\$10,5
185 Stormwater Ponds - Clean/Refurbish	\$0	\$0	\$0	\$0	\$40,6
205 Mailboxes - Replace	\$0	\$0	\$0	\$0	
210 Required Signage - Replace	\$0	\$0	\$0	\$0	:
Recreation					
330 Basketball Eqp - Replace	\$0	\$0	\$0	\$0	:
340 Play Equipment - Replace	\$0	\$0	\$0	\$0	\$101,6
346 Outdoor Furniture - Replace	\$0	\$0	\$0	\$0	:
Total Expenses	\$0	\$0	\$0	\$0	\$2,455,0

ole 5: 30-Year Income/Expense	Detail (yrs 25	through 29			23055
Fiscal Year	2037	2038	2039	2040	20
Starting Reserve Balance	\$798,927	\$1,059,653	\$1,328,437	\$1,605,521	\$1,891,1
Annual Reserve Contribution	\$259,796	\$267,590	\$275,618	\$283,886	\$292,4
Planned Special Assessments	\$239,790	\$207,390	\$273,018	\$203,000	φ292,
'			* * *		
Interest Earnings	\$929	\$1,194	\$1,467	\$1,748	\$2,0
Total Income	\$1,059,653	\$1,328,437	\$1,605,521	\$1,891,155	\$2,185,
# Component					
Site / Grounds					
112 Metal Fencing - Repair/Replace	\$0	\$0	\$0	\$0	
120 Asphalt - Resurface	\$0 \$0	\$0	\$0	\$0	
135 Entry Gates - Repair/Replace	\$0	\$0	\$0	\$0	
136 Entry Gate Operators - Replace	\$0	\$0	\$0	\$0	
137 Gate Access Panels - Replace	\$0	\$0	\$0	\$0	
140 Wood Fence - Replace	\$0	\$0	\$0	\$0	
145 Split Rail Fence - Replace	\$0	\$0	\$0	\$0	
155 Chain Link Fence - Replace	\$0	\$0	\$0	\$0	
160 Pole Lights - Replace	\$0	\$0	\$0	\$0	
164 Landscape Lights - Replace	\$0	\$0	\$0	\$0	
176 Irrigation Timeclocks - Replace	\$0	\$0	\$0	\$0	
185 Stormwater Ponds - Clean/Refurbish	\$0	\$0	\$0	\$0	
205 Mailboxes - Replace	\$0	\$0	\$0	\$0	
210 Required Signage - Replace	\$0	\$0	\$0	\$0	
Recreation					
330 Basketball Eqp - Replace	\$0	\$0	\$0	\$0	
340 Play Equipment - Replace	\$0	\$0	\$0	\$0	
Outdoor Furniture - Replace	\$0	\$0	\$0	\$0	
Total Expenses	\$0	\$0	\$0	\$0	
Ending Reserve Balance:	\$1,059,653	\$1,328,437	\$1,605,521	\$1,891,155	\$2,185,

### **Accuracy, Limitations, and Disclosures**

#### Washington disclosure, per RCW 64.34.382:

This reserve study should be reviewed carefully. It may not include all common and limited common element components that will require major maintenance, repair or replacement in future years, and may not include regular contributions to a reserve account for the cost of such maintenance, repair, or replacement. The failure to include a component in a reserve study, or to provide contributions to a reserve account for a component, may, under some circumstances, require you to pay on demand as a special assessment your share of common expenses for the cost of major maintenance, repair or replacement of a reserve component.

Because we have no control over future events, we cannot claim that all the events we anticipate will occur as planned. We expect that inflationary trends will continue, and we expect that financial institutions will provide interest earnings on funds on-deposit. We believe that reasonable estimates for these figures are much more accurate than ignoring these economic realities. The things we <u>can</u> control are measurements, which we attempt to establish within 5% accuracy. Your starting Reserve Balance and current Reserve interest earnings are also numbers that can be identified with a high degree of certainty. These figures have been provided to us, and were not confirmed by our independent research. Our projections assume a stable economic environment and lack of natural disasters.

Because both the physical status and financial status of the association change each year, this Reserve Study is by nature a "one-year" document. This information can and should be adjusted annually as part of the Reserve Study Update process so that more accurate estimates can be reflected in the Reserve plan. Reality often differs from even the best assumptions due to changing economic factors, physical factors, or ownership expectations. Because many years of financial preparation help the preparation for large expenses, this Report shows expenses for the next 30 years. We fully expect a number of adjustments will be necessary through the interim years to both the cost and timing of distant expense projections. It is our recommendation and that of the American Institute of Certified Public Accountants (AICPA) that your Reserve Study be updated annually.

Association Reserves, Inc., and its employees have no ownership, management, or other business relationships with the client other than this Reserve Study engagement. James D. Talaga R.S., company president, is a credentialed Reserve Specialist (#66). All work done by Association Reserves is performed under his Responsible Charge. There are no material issues to our knowledge that have not been disclosed to the client that would cause a distortion of the association's situation.

We have relied upon the client to provide the current (or projected) Reserve Balance, the estimated net-after-tax current rate of interest earnings, and to indicate if those earnings accrue to the Reserve Fund. In addition, we have considered the association's representation of current and historical Reserve projects reliable, and we have considered the representations made by its vendors and suppliers to also be accurate and reliable.

Component quantities indicated in this Report were developed by Association Reserves unless otherwise noted in our "Site Inspection Notes" comments. No destructive or intrusive testing was performed, nor should the site inspection be assumed to be anything other than for budget purposes.

#### **Terms and Definitions**

BTU British Thermal Unit (a standard unit of energy)

**DIA** Diameter

GSF Gross Square Feet (area)
GSY Gross Square Yards (area)

**HP** Horsepower

**LF** Linear Feet (length)

Effective Age: The difference between Useful Life and Remaining Useful Life. Note

that this is not necessarily equivalent to the chronological age of the

component.

Fully Funded Balance (FFB): The Reserve Balance that is in direct proportion to the

fraction of life "used up" of the current Repair or Replacement cost. This benchmark balance represents the value of the deterioration of the Reserve Components. This number is calculated for each component,

then summed together for an association total.

FFB = (Current Cost X Effective Age) / Useful Life

**Inflation**: Cost factors are adjusted for inflation at the rate defined in the

Executive Summary and compounded annually. These increasing costs can be seen as you follow the recurring cycles of a component on

Table 5.

**Interest**: Interest earnings on Reserve Funds are calculated using the average

balance for the year (taking into account income and expenses through

the year) and compounded monthly using the rate defined in the

Executive Summary. Annual interest earning assumption appears in the

Executive Summary, page ii.

**Percent Funded**: The ratio, at a particular point in 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 time, in years, that a common area component

can be expected to continue to serve its intended function.

**Useful Life**: The estimated time, in years, that a common area component can be

expected to serve its intended function.

# **Photographic Inventory Appendix**

The primary purpose of the photographic appendix is to provide the reader with the basis of our funding assumptions resulting from our physical analysis and subsequent research. The photographs herein represent a wide range of elements that were observed and measured against National Reserve Study Standards to determine if they meet the criteria for reserve funding:

- 1) Common area maintenance, repair & replacement responsibility
- 2) Components must have a limited life
- 3) Life limit must be predictable
- 4) Above a minimum threshold cost (board's discretion typically ½ to 1% of annual operating expenses).

Some components are recommended for reserve funding, while others are not. The components that meet these criteria in our judgment are shown with corresponding maintenance, repair or replacement cycles to the left of the photo (UL = Useful Life or how often the project is expected to occur, RUL = Remaining Useful Life or how many years from our reporting period) and a representative market cost range termed "Best Cost" and "Worst Cost" below the photo. There are many factors that can result in a wide variety of potential costs; we are attempting to represent a market average for budget purposes. Where there is no UL, the component is expected to be a one-time expense. Where no pricing, the component deemed inappropriate for Reserve Funding.