

Reserve Study Level II

Prepared for Crystal Ridge

2020 Fiscal Year

CEDCORE

Prepared by CEDCORE, LLC

Version 6

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1. Executive Summary

Report Details			
Association Name:	Crystal Ridge		
Location:	Puyallup, WA	Number of Units:	302
Physical Description	PUD/Single Family	Site Visit Date:	9/27/2019
Level of Service:	Level II		
Report Period:	FY 2020	Projection Period:	2020 - 2049
Reserve Account Snap Shot January 1, 2020			
Projected Reserve Balance:			\$168,090
Fully Funded Reserve Balance:			\$142,231
Percent Funded:			118 %
Reserve Surplus or (-) Deficit Per Unit:			\$86
Current Monthly Reserve Fund Contribution:			\$2,500
Interest Rate			1.00 %
Inflation Rate			3.00 %
2020 Reserve Contribution Requirements (based on the above position)			
Full Funding	Monthly Reserve Contribution:		\$2,500
	Monthly Reserve Contribution Per Unit (Average):		\$8
	Special Assessment Required for this Plan:		\$0
Baseline Funding	Monthly Reserve Contribution:		\$2,467
	Monthly Reserve Contribution Per Unit (Average):		\$8
	Special Assessment Required for this Plan:		\$0

Based upon the budget and maintenance practices of the association we have used a funding threshold of \$1,692. Expenses below \$1,692 are not funded within this report and best treated as a maintenance expense. We have included comments within the Component Analysis Section of this report.

The projected reserve fund balance is estimated based on the current reserve fund balance adding any remaining budgeted contributions and subtracting any planned projects to be completed prior to the end of the fiscal year.

The Association will need to increase contributions by 6.32% annually, starting in 2022, to keep up with inflation and stay on the Fully Funded track.

1.1 Table 1 - Component List

Component	Quantity	Current Cost	UL	RUL
Bench: Replace	1 Each	\$1,100	30	29
Concrete: Repairs	1 Allowance	\$1,000	15	14
Concrete: Sealcoat	Unfunded, funded within another component			
Drainage	Unfunded, not Association responsibility			
Electrical	Unfunded outside the 30 year scope of report			
Entry Monument Sign: Replace, Janelle Estates	1 Allowance	\$1,000	25	20
Entry Monument: Clean & Repair, The Estates	4 Allowance	\$4,000	25	0
Entry Monument: New, Crystal Ridge, 23rd @ Shaw	1 Allowance	\$55,000		0
Entry Monument: Repair, Crystal Ridge, 23rd @ Shaw	1 Allowance	\$1,000	25	25
Fence: Chainlink, Replace	60 Linear Feet	\$1,680	37	10
Fence: Wood, 3', Replace	143 Linear Feet	\$4,300	20	14
Fence: Wood, 3', Replace, Jenelle Estates	48 Linear Feet	\$1,440	20	19
Fence: Wood, Backyards, Replace	1,000 Linear Feet	\$30,000	20	19
Fence: Wood, Playlot	70 Linear Feet	\$2,100	20	19
Fence: Wood, Repaint and Concrete Sealer	1,000 Linear Feet	\$5,500	5	0
Irrigation System: Repair/Replace	1 Allowance	\$10,000	1	0
Lights, Monument: Repair/Replace	1 Allowance	\$5,000	30	0
Mailbox Cluster: Replace	Unfunded, not Association responsibility			
Mailbox Structure: Remove/Demolish	1 Allowance	\$3,000		2
Mailbox Structure: Remove/Demolish	1 Allowance	\$3,500		3
Mailbox Structure: Remove/Demolish	1 Allowance	\$4,000		4
Mailbox Structure: Remove/Demolish	1 Allowance	\$4,000		5
Mailbox Structure: Remove/Demolish	1 Allowance	\$1,500		1
Picnic Table	1 Each	\$1,300	30	29
Playlot: Equipment	1 Allowance	\$4,000	30	0
Playlot: Rebarking	1 Allowance	\$4,200	7	6
Recreation Equipment: Replace	1 Allowance	\$45,000	20	18
Streets	Unfunded, not Association responsibility			
Trees: Replacement, 25 Each Year	1 Allowance	\$25,000	1	0
Trees: Replacement, Extra for 2020 Only	1 Allowance	\$20,000		0
Total Current Costs		\$238,620		
Total Funded Components			25	

Components without a UL are one-time expenses, not expecting to reoccur at this time. It is important to note that actual costs may vary significantly based on scope of work, actual conditions, hidden deterioration, vendor selection, etc. This component list is for budget planning purposes only.

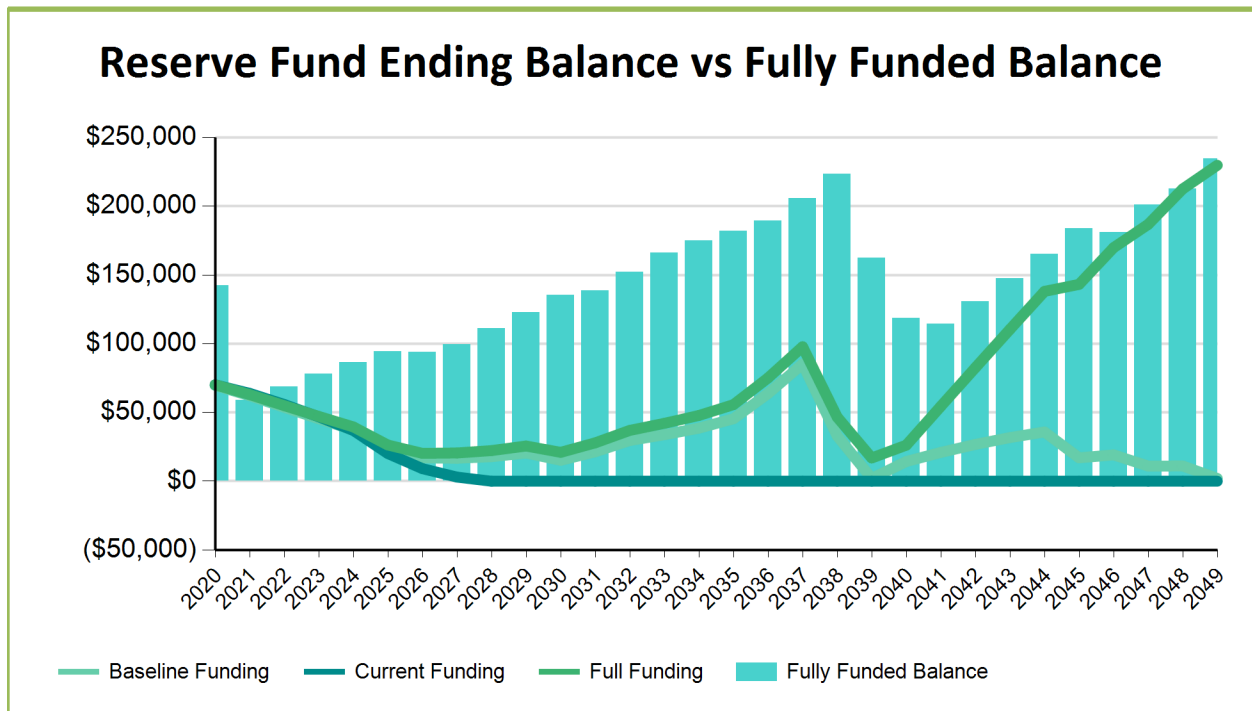
2. Financial Analysis

We have created the financial projections and recommendations based on the component list in Table One and a projected reserve fund balance \$168,090. For your Association to be 100% funded there should be \$142,231 in your reserve account(s). Therefore, your Association is projected to be 118.00% funded.

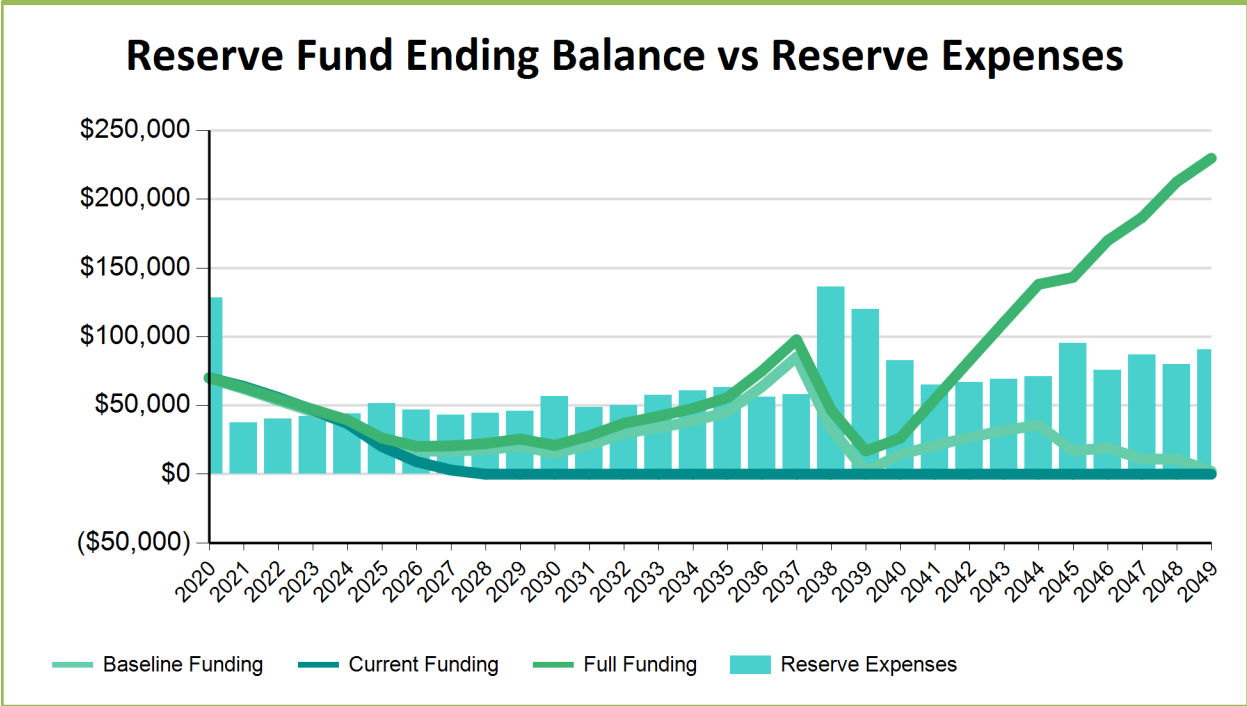
We recommend the Full Funding, which requires a monthly reserve contribution of \$2,500 with a 0.00 % increase in contributions each year for the next 1 years.

Currently the Association has monthly reserve contributions of \$2,500 and are Not projected to be sufficient over the next 30 years. The Baseline monthly reserve contribution requires \$2,467, with a 0.00 % increase in contributions each year for the next 1 years. The baseline funding plan is the lowest contribution amount calculated to prevent the Reserve Fund from dropping below a zero balance.

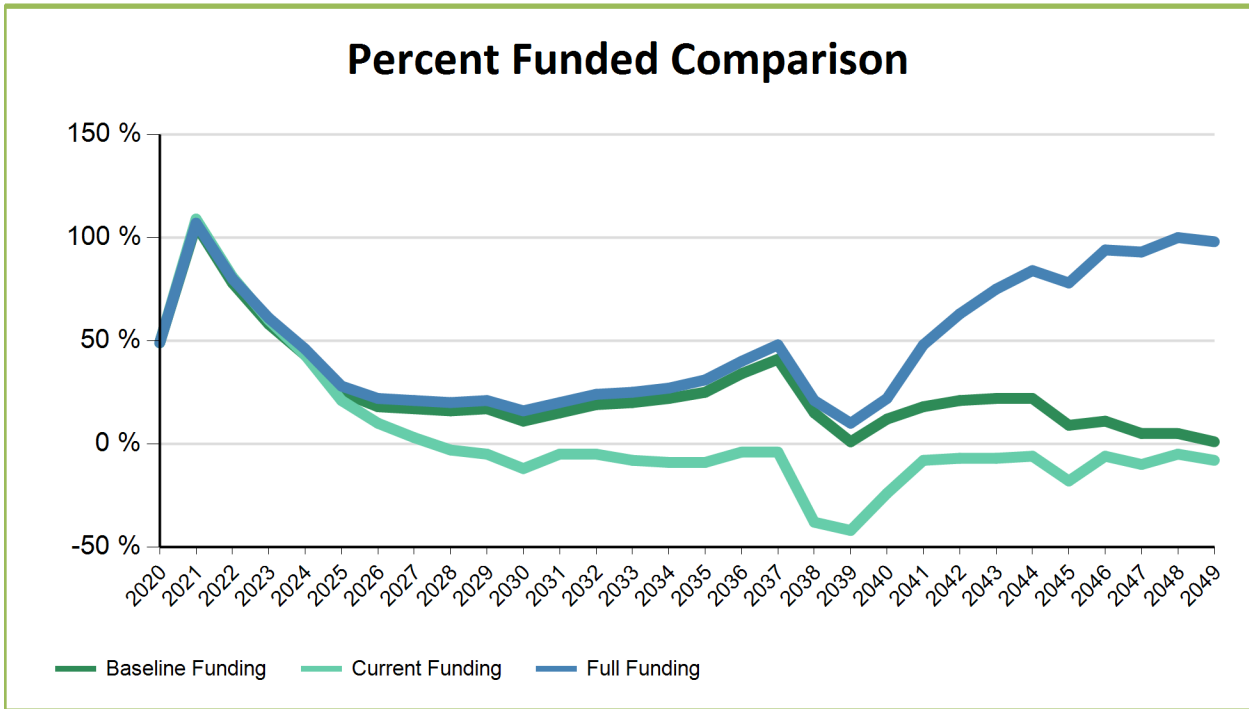
2.1 Figure 1 - Reserve Fund Ending Balance vs Fully Funded Balance



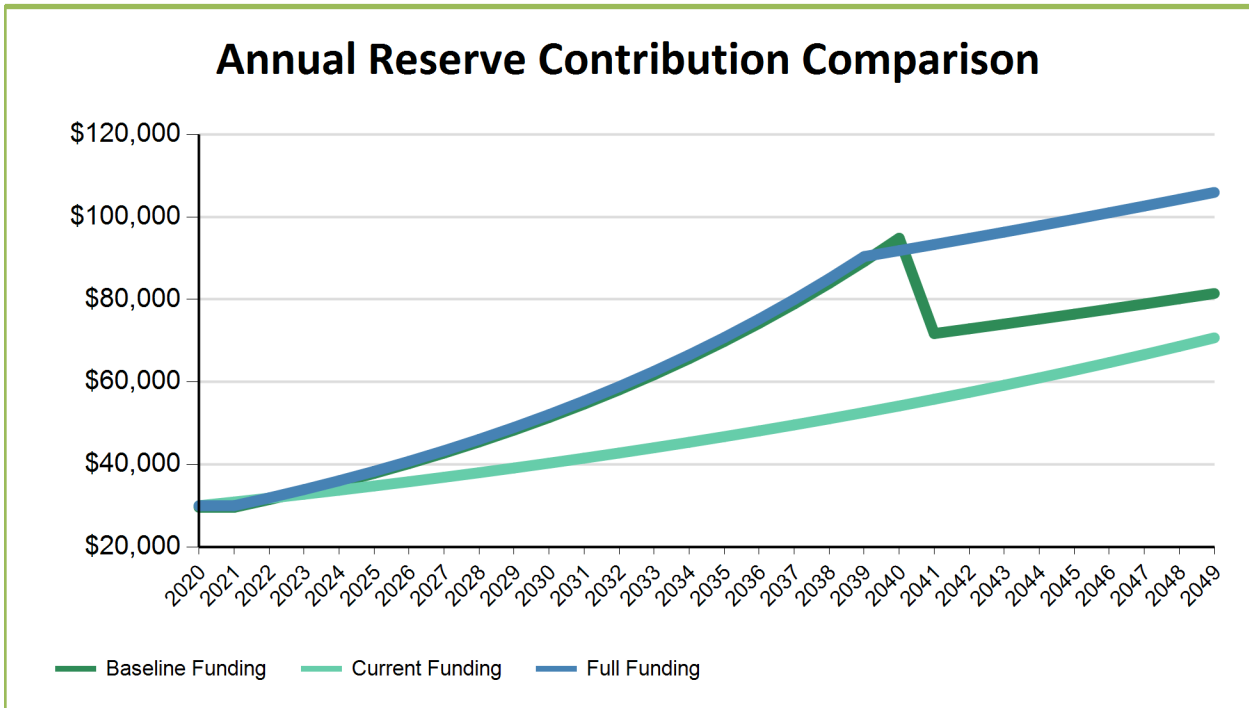
2.2 Figure 2 - Reserve Fund Ending Balance vs Reserve Expenses



2.3 Figure 3 - Percent Funded Comparison



2.4 Figure 4 – Reserve Contribution Comparison



2.5.1 - 30 Year Reserve Fund Projection (Current Funding)

Current Funding Plan								
Year	Start Balance	Annual Reserve Contribution	Special Assessments	Additional Assessments Necessary Per Unit /Per Year	Interest Income	Reserve Expenses	Fully Funded Balance	Percent Funded
2020	\$168,090	\$30,000	\$0		\$546	\$128,500	\$142,231	49.31 %
2021	\$70,136	\$30,900	\$0		\$480	\$37,595	\$58,896	108.53 %
2022	\$63,921	\$31,827	\$0		\$395	\$40,315	\$68,822	81.12 %
2023	\$55,828	\$32,782	\$0		\$301	\$42,070	\$77,797	60.21 %
2024	\$46,841	\$33,765	\$0		\$198	\$43,895	\$86,592	42.62 %
2025	\$36,909	\$34,778	\$0		\$27	\$51,588	\$94,492	21.30 %
2026	\$20,126	\$35,822	\$0		\$0	\$46,807	\$93,833	9.74 %
2027	\$9,141	\$36,896	\$0		\$0	\$43,046	\$99,568	3.00 %
2028	\$2,991	\$38,003	\$0	\$11	\$0	\$44,337	\$110,883	-3.01 %
2029	\$0	\$39,143	\$0	\$22	\$0	\$45,667	\$122,787	-5.31 %
2030	\$0	\$40,317	\$0	\$54	\$0	\$56,687	\$135,306	-12.10 %
2031	\$0	\$41,527	\$0	\$23	\$0	\$48,448	\$138,526	-5.00 %
2032	\$0	\$42,773	\$0	\$24	\$0	\$49,902	\$152,055	-4.69 %
2033	\$0	\$44,056	\$0	\$45	\$0	\$57,566	\$166,271	-8.13 %
2034	\$0	\$45,378	\$0	\$52	\$0	\$60,958	\$174,850	-8.91 %
2035	\$0	\$46,739	\$0	\$54	\$0	\$63,098	\$182,081	-8.98 %
2036	\$0	\$48,141	\$0	\$27	\$0	\$56,165	\$189,267	-4.24 %
2037	\$0	\$49,585	\$0	\$27	\$0	\$57,849	\$205,811	-4.02 %
2038	\$0	\$51,073	\$0	\$282	\$0	\$136,194	\$223,177	-38.14 %
2039	\$0	\$52,605	\$0	\$224	\$0	\$120,185	\$162,492	-41.59 %
2040	\$0	\$54,183	\$0	\$94	\$0	\$82,540	\$118,663	-23.90 %
2041	\$0	\$55,809	\$0	\$31	\$0	\$65,110	\$114,548	-8.12 %
2042	\$0	\$57,483	\$0	\$32	\$0	\$67,064	\$130,581	-7.34 %
2043	\$0	\$59,208	\$0	\$33	\$0	\$69,076	\$147,473	-6.69 %
2044	\$0	\$60,984	\$0	\$34	\$0	\$71,148	\$165,261	-6.15 %
2045	\$0	\$62,813	\$0	\$107	\$0	\$95,267	\$183,983	-17.64 %
2046	\$0	\$64,698	\$0	\$36	\$0	\$75,481	\$181,036	-5.96 %
2047	\$0	\$66,639	\$0	\$68	\$0	\$87,074	\$201,070	-10.16 %
2048	\$0	\$68,638	\$0	\$38	\$0	\$80,077	\$212,534	-5.38 %
2049	\$0	\$70,697	\$0	\$66	\$0	\$90,493	\$234,402	-8.45 %

2.5.3 - 30 Year Reserve Fund Projection (Full Funding)

Full Funding Plan							
Year	Start Balance	Annual Reserve Contribution	Special Assessments	Interest Income	Reserve Expenses	Fully Funded Balance	Percent Funded
2020	\$168,090	\$30,000	\$0	\$546	\$128,500	\$142,231	49.31 %
2021	\$70,136	\$30,000	\$0	\$475	\$37,595	\$58,896	107.00 %
2022	\$63,016	\$31,896	\$0	\$386	\$40,315	\$68,822	79.89 %
2023	\$54,983	\$33,912	\$0	\$299	\$42,070	\$77,797	60.57 %
2024	\$47,124	\$36,055	\$0	\$213	\$43,895	\$86,592	45.61 %
2025	\$39,497	\$38,334	\$0	\$71	\$51,588	\$94,492	27.85 %
2026	\$26,314	\$40,756	\$0	\$0	\$46,807	\$93,833	21.59 %
2027	\$20,263	\$43,332	\$0	\$0	\$43,046	\$99,568	20.64 %
2028	\$20,549	\$46,071	\$0	\$0	\$44,337	\$110,883	20.10 %
2029	\$22,283	\$48,983	\$0	\$11	\$45,667	\$122,787	20.86 %
2030	\$25,610	\$52,078	\$0	\$0	\$56,687	\$135,306	15.52 %
2031	\$21,001	\$55,370	\$0	\$2	\$48,448	\$138,526	20.16 %
2032	\$27,925	\$58,869	\$0	\$75	\$49,902	\$152,055	24.31 %
2033	\$36,967	\$62,589	\$0	\$107	\$57,566	\$166,271	25.32 %
2034	\$42,097	\$66,545	\$0	\$144	\$60,958	\$174,850	27.35 %
2035	\$47,828	\$70,751	\$0	\$201	\$63,098	\$182,081	30.58 %
2036	\$55,682	\$75,222	\$0	\$371	\$56,165	\$189,267	39.68 %
2037	\$75,110	\$79,976	\$0	\$572	\$57,849	\$205,811	47.52 %
2038	\$97,809	\$85,031	\$0	\$41	\$136,194	\$223,177	20.92 %
2039	\$46,687	\$90,405	\$0	\$0	\$120,185	\$162,492	10.40 %
2040	\$16,907	\$91,848	\$0	\$0	\$82,540	\$118,663	22.09 %
2041	\$26,215	\$93,318	\$0	\$78	\$65,110	\$114,548	47.58 %
2042	\$54,501	\$94,811	\$0	\$348	\$67,064	\$130,581	63.25 %
2043	\$82,596	\$96,328	\$0	\$617	\$69,076	\$147,473	74.91 %
2044	\$110,465	\$97,869	\$0	\$883	\$71,148	\$165,261	83.55 %
2045	\$138,069	\$99,435	\$0	\$925	\$95,267	\$183,983	77.81 %
2046	\$143,162	\$101,026	\$0	\$1,182	\$75,481	\$181,036	93.84 %
2047	\$169,889	\$102,642	\$0	\$1,341	\$87,074	\$201,070	92.90 %
2048	\$186,798	\$104,284	\$0	\$1,589	\$80,077	\$212,534	100.03 %
2049	\$212,594	\$105,953	\$0	\$1,751	\$90,493	\$234,402	98.04 %

2.5.2 - 30 Year Reserve Fund Projection (Baseline Funding)

Baseline Funding Plan							
Year	Start Balance	Annual Reserve Contribution	Special Assessments	Interest Income	Reserve Expenses	Fully Funded Balance	Percent Funded
2020	\$168,090	\$29,604	\$0	\$544	\$128,500	\$142,231	49.03 %
2021	\$69,738	\$29,604	\$0	\$469	\$37,595	\$58,896	105.64 %
2022	\$62,216	\$31,475	\$0	\$376	\$40,315	\$68,822	78.10 %
2023	\$53,752	\$33,464	\$0	\$284	\$42,070	\$77,797	58.40 %
2024	\$45,430	\$35,579	\$0	\$193	\$43,895	\$86,592	43.08 %
2025	\$37,307	\$37,828	\$0	\$46	\$51,588	\$94,492	24.97 %
2026	\$23,593	\$40,218	\$0	\$0	\$46,807	\$93,833	18.12 %
2027	\$17,004	\$42,760	\$0	\$0	\$43,046	\$99,568	16.79 %
2028	\$16,718	\$45,463	\$0	\$0	\$44,337	\$110,883	16.09 %
2029	\$17,844	\$48,336	\$0	\$0	\$45,667	\$122,787	16.71 %
2030	\$20,513	\$51,391	\$0	\$0	\$56,687	\$135,306	11.25 %
2031	\$15,217	\$54,639	\$0	\$0	\$48,448	\$138,526	15.45 %
2032	\$21,408	\$58,092	\$0	\$6	\$49,902	\$152,055	19.47 %
2033	\$29,604	\$61,763	\$0	\$29	\$57,566	\$166,271	20.35 %
2034	\$33,830	\$65,667	\$0	\$57	\$60,958	\$174,850	22.07 %
2035	\$38,596	\$69,817	\$0	\$104	\$63,098	\$182,081	24.94 %
2036	\$45,419	\$74,229	\$0	\$264	\$56,165	\$189,267	33.68 %
2037	\$63,747	\$78,921	\$0	\$454	\$57,849	\$205,811	41.43 %
2038	\$85,273	\$83,908	\$0	\$0	\$136,194	\$223,177	14.78 %
2039	\$32,987	\$89,211	\$0	\$0	\$120,185	\$162,492	1.24 %
2040	\$2,013	\$94,849	\$0	\$0	\$82,540	\$118,663	12.07 %
2041	\$14,322	\$71,736	\$0	\$0	\$65,110	\$114,548	18.29 %
2042	\$20,948	\$72,884	\$0	\$0	\$67,064	\$130,581	20.50 %
2043	\$26,768	\$74,050	\$0	\$0	\$69,076	\$147,473	21.52 %
2044	\$31,742	\$75,235	\$0	\$0	\$71,148	\$165,261	21.68 %
2045	\$35,829	\$76,438	\$0	\$0	\$95,267	\$183,983	9.24 %
2046	\$17,000	\$77,661	\$0	\$0	\$75,481	\$181,036	10.59 %
2047	\$19,180	\$78,904	\$0	\$0	\$87,074	\$201,070	5.48 %
2048	\$11,010	\$80,167	\$0	\$0	\$80,077	\$212,534	5.22 %
2049	\$11,100	\$81,449	\$0	\$0	\$90,493	\$234,402	0.88 %

2.6 Funding Plan Cash Flow Projections

Full Funding Plan					
Year	2020	2021	2022	2023	2024
Percent Funded	49.31 %	107.00 %	79.89 %	60.57 %	45.61 %
Fully Funded Balance	\$142,231	\$58,896	\$68,822	\$77,797	\$86,592
Beginning Balance	\$168,090	\$70,136	\$63,016	\$54,983	\$47,124
Annual Contributions	\$30,000	\$30,000	\$31,896	\$33,912	\$36,055
Interest Earnings	\$546	\$475	\$386	\$299	\$213
Special Assessment	\$0	\$0	\$0	\$0	\$0
Reserve Expenses	\$128,500	\$37,595	\$40,315	\$42,070	\$43,895
Ending Balance	\$70,136	\$63,016	\$54,983	\$47,124	\$39,497

Expenses by Component & Year					
Components	2020	2021	2022	2023	2024
Bench: Replace	\$0	\$0	\$0	\$0	\$0
Concrete: Repairs	\$0	\$0	\$0	\$0	\$0
Entry Monument Sign: Replace, Janelle Estates	\$0	\$0	\$0	\$0	\$0
Entry Monument: Clean & Repair, The Estates	\$4,000	\$0	\$0	\$0	\$0
Entry Monument: New, Crystal Ridge, 23rd @ Shaw	\$55,000	\$0	\$0	\$0	\$0
Entry Monument: Repair, Crystal Ridge, 23rd @ Shaw	\$0	\$0	\$0	\$0	\$0
Fence: Chainlink, Replace	\$0	\$0	\$0	\$0	\$0
Fence: Wood, 3', Replace	\$0	\$0	\$0	\$0	\$0
Fence: Wood, 3', Replace, Jenelle Estates	\$0	\$0	\$0	\$0	\$0
Fence: Wood, Backyards, Replace	\$0	\$0	\$0	\$0	\$0
Fence: Wood, Playlot	\$0	\$0	\$0	\$0	\$0
Fence: Wood, Repaint and Concrete Sealer	\$5,500	\$0	\$0	\$0	\$0
Irrigation System: Repair/Replace	\$10,000	\$10,300	\$10,609	\$10,927	\$11,255
Lights, Monument: Repair/Replace	\$5,000	\$0	\$0	\$0	\$0
Mailbox Structure: Remove/Demolish	\$0	\$1,545	\$0	\$0	\$0
Mailbox Structure: Remove/Demolish	\$0	\$0	\$3,183	\$0	\$0
Mailbox Structure: Remove/Demolish	\$0	\$0	\$0	\$3,825	\$0
Mailbox Structure: Remove/Demolish	\$0	\$0	\$0	\$0	\$4,502
Mailbox Structure: Remove/Demolish	\$0	\$0	\$0	\$0	\$0
Picnic Table	\$0	\$0	\$0	\$0	\$0
Playlot: Equipment	\$4,000	\$0	\$0	\$0	\$0
Playlot: Rebarking	\$0	\$0	\$0	\$0	\$0
Recreation Equipment: Replace	\$0	\$0	\$0	\$0	\$0
Trees: Replacement, 25 Each Year	\$25,000	\$25,750	\$26,523	\$27,318	\$28,138
Trees: Replacement, Extra for 2020 Only	\$20,000	\$0	\$0	\$0	\$0

Full Funding Plan					
Year	2025	2026	2027	2028	2029
Percent Funded	27.85 %	21.59 %	20.64 %	20.10 %	20.86 %
Fully Funded Balance	\$94,492	\$93,833	\$99,568	\$110,883	\$122,787
Beginning Balance	\$39,497	\$26,314	\$20,263	\$20,549	\$22,283
Annual Contributions	\$38,334	\$40,756	\$43,332	\$46,071	\$48,983
Interest Earnings	\$71	\$0	\$0	\$0	\$11
Special Assessment	\$0	\$0	\$0	\$0	\$0
Reserve Expenses	\$51,588	\$46,807	\$43,046	\$44,337	\$45,667
Ending Balance	\$26,314	\$20,263	\$20,549	\$22,283	\$25,610

Expenses by Component & Year					
Components	2025	2026	2027	2028	2029
Bench: Replace	\$0	\$0	\$0	\$0	\$0
Concrete: Repairs	\$0	\$0	\$0	\$0	\$0
Entry Monument Sign: Replace, Janelle Estates	\$0	\$0	\$0	\$0	\$0
Entry Monument: Clean & Repair, The Estates	\$0	\$0	\$0	\$0	\$0
Entry Monument: New, Crystal Ridge, 23rd @ Shaw	\$0	\$0	\$0	\$0	\$0
Entry Monument: Repair, Crystal Ridge, 23rd @ Shaw	\$0	\$0	\$0	\$0	\$0
Fence: Chainlink, Replace	\$0	\$0	\$0	\$0	\$0
Fence: Wood, 3', Replace	\$0	\$0	\$0	\$0	\$0
Fence: Wood, 3', Replace, Jenelle Estates	\$0	\$0	\$0	\$0	\$0
Fence: Wood, Backyards, Replace	\$0	\$0	\$0	\$0	\$0
Fence: Wood, Playlot	\$0	\$0	\$0	\$0	\$0
Fence: Wood, Repaint and Concrete Sealer	\$6,376	\$0	\$0	\$0	\$0
Irrigation System: Repair/Replace	\$11,593	\$11,941	\$12,299	\$12,668	\$13,048
Lights, Monument: Repair/Replace	\$0	\$0	\$0	\$0	\$0
Mailbox Structure: Remove/Demolish	\$0	\$0	\$0	\$0	\$0
Mailbox Structure: Remove/Demolish	\$0	\$0	\$0	\$0	\$0
Mailbox Structure: Remove/Demolish	\$0	\$0	\$0	\$0	\$0
Mailbox Structure: Remove/Demolish	\$0	\$0	\$0	\$0	\$0
Mailbox Structure: Remove/Demolish	\$4,637	\$0	\$0	\$0	\$0
Picnic Table	\$0	\$0	\$0	\$0	\$0
Playlot: Equipment	\$0	\$0	\$0	\$0	\$0
Playlot: Rebarking	\$0	\$5,015	\$0	\$0	\$0
Recreation Equipment: Replace	\$0	\$0	\$0	\$0	\$0
Trees: Replacement, 25 Each Year	\$28,982	\$29,851	\$30,747	\$31,669	\$32,619
Trees: Replacement, Extra for 2020 Only	\$0	\$0	\$0	\$0	\$0

Full Funding Plan					
Year	2030	2031	2032	2033	2034
Percent Funded	15.52 %	20.16 %	24.31 %	25.32 %	27.35 %
Fully Funded Balance	\$135,306	\$138,526	\$152,055	\$166,271	\$174,850
Beginning Balance	\$25,610	\$21,001	\$27,925	\$36,967	\$42,097
Annual Contributions	\$52,078	\$55,370	\$58,869	\$62,589	\$66,545
Interest Earnings	\$0	\$2	\$75	\$107	\$144
Special Assessment	\$0	\$0	\$0	\$0	\$0
Reserve Expenses	\$56,687	\$48,448	\$49,902	\$57,566	\$60,958
Ending Balance	\$21,001	\$27,925	\$36,967	\$42,097	\$47,828

Expenses by Component & Year					
Components	2030	2031	2032	2033	2034
Bench: Replace	\$0	\$0	\$0	\$0	\$0
Concrete: Repairs	\$0	\$0	\$0	\$0	\$1,513
Entry Monument Sign: Replace, Janelle Estates	\$0	\$0	\$0	\$0	\$0
Entry Monument: Clean & Repair, The Estates	\$0	\$0	\$0	\$0	\$0
Entry Monument: New, Crystal Ridge, 23rd @ Shaw	\$0	\$0	\$0	\$0	\$0
Entry Monument: Repair, Crystal Ridge, 23rd @ Shaw	\$0	\$0	\$0	\$0	\$0
Fence: Chainlink, Replace	\$2,258	\$0	\$0	\$0	\$0
Fence: Wood, 3', Replace	\$0	\$0	\$0	\$0	\$6,504
Fence: Wood, 3', Replace, Jenelle Estates	\$0	\$0	\$0	\$0	\$0
Fence: Wood, Backyards, Replace	\$0	\$0	\$0	\$0	\$0
Fence: Wood, Playlot	\$0	\$0	\$0	\$0	\$0
Fence: Wood, Repaint and Concrete Sealer	\$7,392	\$0	\$0	\$0	\$0
Irrigation System: Repair/Replace	\$13,439	\$13,842	\$14,258	\$14,685	\$15,126
Lights, Monument: Repair/Replace	\$0	\$0	\$0	\$0	\$0
Mailbox Structure: Remove/Demolish	\$0	\$0	\$0	\$0	\$0
Mailbox Structure: Remove/Demolish	\$0	\$0	\$0	\$0	\$0
Mailbox Structure: Remove/Demolish	\$0	\$0	\$0	\$0	\$0
Mailbox Structure: Remove/Demolish	\$0	\$0	\$0	\$0	\$0
Mailbox Structure: Remove/Demolish	\$0	\$0	\$0	\$0	\$0
Picnic Table	\$0	\$0	\$0	\$0	\$0
Playlot: Equipment	\$0	\$0	\$0	\$0	\$0
Playlot: Rebarking	\$0	\$0	\$0	\$6,168	\$0
Recreation Equipment: Replace	\$0	\$0	\$0	\$0	\$0
Trees: Replacement, 25 Each Year	\$33,598	\$34,606	\$35,644	\$36,713	\$37,815
Trees: Replacement, Extra for 2020 Only	\$0	\$0	\$0	\$0	\$0

Full Funding Plan					
Year	2035	2036	2037	2038	2039
Percent Funded	30.58 %	39.68 %	47.52 %	20.92 %	10.40 %
Fully Funded Balance	\$182,081	\$189,267	\$205,811	\$223,177	\$162,492
Beginning Balance	\$47,828	\$55,682	\$75,110	\$97,809	\$46,687
Annual Contributions	\$70,751	\$75,222	\$79,976	\$85,031	\$90,405
Interest Earnings	\$201	\$371	\$572	\$41	\$0
Special Assessment	\$0	\$0	\$0	\$0	\$0
Reserve Expenses	\$63,098	\$56,165	\$57,849	\$136,194	\$120,185
Ending Balance	\$55,682	\$75,110	\$97,809	\$46,687	\$16,907

Expenses by Component & Year					
Components	2035	2036	2037	2038	2039
Bench: Replace	\$0	\$0	\$0	\$0	\$0
Concrete: Repairs	\$0	\$0	\$0	\$0	\$0
Entry Monument Sign: Replace, Janelle Estates	\$0	\$0	\$0	\$0	\$0
Entry Monument: Clean & Repair, The Estates	\$0	\$0	\$0	\$0	\$0
Entry Monument: New, Crystal Ridge, 23rd @ Shaw	\$0	\$0	\$0	\$0	\$0
Entry Monument: Repair, Crystal Ridge, 23rd @ Shaw	\$0	\$0	\$0	\$0	\$0
Fence: Chainlink, Replace	\$0	\$0	\$0	\$0	\$0
Fence: Wood, 3', Replace	\$0	\$0	\$0	\$0	\$0
Fence: Wood, 3', Replace, Jenelle Estates	\$0	\$0	\$0	\$0	\$2,525
Fence: Wood, Backyards, Replace	\$0	\$0	\$0	\$0	\$52,605
Fence: Wood, Playlot	\$0	\$0	\$0	\$0	\$3,682
Fence: Wood, Repaint and Concrete Sealer	\$8,569	\$0	\$0	\$0	\$0
Irrigation System: Repair/Replace	\$15,580	\$16,047	\$16,528	\$17,024	\$17,535
Lights, Monument: Repair/Replace	\$0	\$0	\$0	\$0	\$0
Mailbox Structure: Remove/Demolish	\$0	\$0	\$0	\$0	\$0
Mailbox Structure: Remove/Demolish	\$0	\$0	\$0	\$0	\$0
Mailbox Structure: Remove/Demolish	\$0	\$0	\$0	\$0	\$0
Mailbox Structure: Remove/Demolish	\$0	\$0	\$0	\$0	\$0
Mailbox Structure: Remove/Demolish	\$0	\$0	\$0	\$0	\$0
Picnic Table	\$0	\$0	\$0	\$0	\$0
Playlot: Equipment	\$0	\$0	\$0	\$0	\$0
Playlot: Rebarking	\$0	\$0	\$0	\$0	\$0
Recreation Equipment: Replace	\$0	\$0	\$0	\$76,609	\$0
Trees: Replacement, 25 Each Year	\$38,949	\$40,118	\$41,321	\$42,561	\$43,838
Trees: Replacement, Extra for 2020 Only	\$0	\$0	\$0	\$0	\$0

Full Funding Plan					
Year	2040	2041	2042	2043	2044
Percent Funded	22.09 %	47.58 %	63.25 %	74.91 %	83.55 %
Fully Funded Balance	\$118,663	\$114,548	\$130,581	\$147,473	\$165,261
Beginning Balance	\$16,907	\$26,215	\$54,501	\$82,596	\$110,465
Annual Contributions	\$91,848	\$93,318	\$94,811	\$96,328	\$97,869
Interest Earnings	\$0	\$78	\$348	\$617	\$883
Special Assessment	\$0	\$0	\$0	\$0	\$0
Reserve Expenses	\$82,540	\$65,110	\$67,064	\$69,076	\$71,148
Ending Balance	\$26,215	\$54,501	\$82,596	\$110,465	\$138,069

Expenses by Component & Year					
Components	2040	2041	2042	2043	2044
Bench: Replace	\$0	\$0	\$0	\$0	\$0
Concrete: Repairs	\$0	\$0	\$0	\$0	\$0
Entry Monument Sign: Replace, Janelle Estates	\$1,806	\$0	\$0	\$0	\$0
Entry Monument: Clean & Repair, The Estates	\$0	\$0	\$0	\$0	\$0
Entry Monument: New, Crystal Ridge, 23rd @ Shaw	\$0	\$0	\$0	\$0	\$0
Entry Monument: Repair, Crystal Ridge, 23rd @ Shaw	\$0	\$0	\$0	\$0	\$0
Fence: Chainlink, Replace	\$0	\$0	\$0	\$0	\$0
Fence: Wood, 3', Replace	\$0	\$0	\$0	\$0	\$0
Fence: Wood, 3', Replace, Jenelle Estates	\$0	\$0	\$0	\$0	\$0
Fence: Wood, Backyards, Replace	\$0	\$0	\$0	\$0	\$0
Fence: Wood, Playlot	\$0	\$0	\$0	\$0	\$0
Fence: Wood, Repaint and Concrete Sealer	\$9,934	\$0	\$0	\$0	\$0
Irrigation System: Repair/Replace	\$18,061	\$18,603	\$19,161	\$19,736	\$20,328
Lights, Monument: Repair/Replace	\$0	\$0	\$0	\$0	\$0
Mailbox Structure: Remove/Demolish	\$0	\$0	\$0	\$0	\$0
Mailbox Structure: Remove/Demolish	\$0	\$0	\$0	\$0	\$0
Mailbox Structure: Remove/Demolish	\$0	\$0	\$0	\$0	\$0
Mailbox Structure: Remove/Demolish	\$0	\$0	\$0	\$0	\$0
Mailbox Structure: Remove/Demolish	\$0	\$0	\$0	\$0	\$0
Picnic Table	\$0	\$0	\$0	\$0	\$0
Playlot: Equipment	\$0	\$0	\$0	\$0	\$0
Playlot: Rebarking	\$7,586	\$0	\$0	\$0	\$0
Recreation Equipment: Replace	\$0	\$0	\$0	\$0	\$0
Trees: Replacement, 25 Each Year	\$45,153	\$46,507	\$47,903	\$49,340	\$50,820
Trees: Replacement, Extra for 2020 Only	\$0	\$0	\$0	\$0	\$0

Full Funding Plan					
Year	2045	2046	2047	2048	2049
Percent Funded	77.81	93.84	92.90	100.03	98.04
Fully Funded Balance	\$183,983	\$181,036	\$201,070	\$212,534	\$234,402
Beginning Balance	\$138,069	\$143,162	\$169,889	\$186,798	\$212,594
Annual Contributions	\$99,435	\$101,026	\$102,642	\$104,284	\$105,953
Interest Earnings	\$925	\$1,182	\$1,341	\$1,589	\$1,751
Special Assessment	\$0	\$0	\$0	\$0	\$0
Reserve Expenses	\$95,267	\$75,481	\$87,074	\$80,077	\$90,493
Ending Balance	\$143,162	\$169,889	\$186,798	\$212,594	\$229,805

Expenses by Component & Year					
Components	2045	2046	2047	2048	2049
Bench: Replace	\$0	\$0	\$0	\$0	\$2,592
Concrete: Repairs	\$0	\$0	\$0	\$0	\$2,357
Entry Monument Sign: Replace, Janelle Estates	\$0	\$0	\$0	\$0	\$0
Entry Monument: Clean & Repair, The Estates	\$8,375	\$0	\$0	\$0	\$0
Entry Monument: New, Crystal Ridge, 23rd @ Shaw	\$0	\$0	\$0	\$0	\$0
Entry Monument: Repair, Crystal Ridge, 23rd @ Shaw	\$2,094	\$0	\$0	\$0	\$0
Fence: Chainlink, Replace	\$0	\$0	\$0	\$0	\$0
Fence: Wood, 3', Replace	\$0	\$0	\$0	\$0	\$0
Fence: Wood, 3', Replace, Jenelle Estates	\$0	\$0	\$0	\$0	\$0
Fence: Wood, Backyards, Replace	\$0	\$0	\$0	\$0	\$0
Fence: Wood, Playlot	\$0	\$0	\$0	\$0	\$0
Fence: Wood, Repaint and Concrete Sealer	\$11,516	\$0	\$0	\$0	\$0
Irrigation System: Repair/Replace	\$20,938	\$21,566	\$22,213	\$22,879	\$23,566
Lights, Monument: Repair/Replace	\$0	\$0	\$0	\$0	\$0
Mailbox Structure: Remove/Demolish	\$0	\$0	\$0	\$0	\$0
Mailbox Structure: Remove/Demolish	\$0	\$0	\$0	\$0	\$0
Mailbox Structure: Remove/Demolish	\$0	\$0	\$0	\$0	\$0
Mailbox Structure: Remove/Demolish	\$0	\$0	\$0	\$0	\$0
Mailbox Structure: Remove/Demolish	\$0	\$0	\$0	\$0	\$0
Picnic Table	\$0	\$0	\$0	\$0	\$3,064
Playlot: Equipment	\$0	\$0	\$0	\$0	\$0
Playlot: Rebarking	\$0	\$0	\$9,329	\$0	\$0
Recreation Equipment: Replace	\$0	\$0	\$0	\$0	\$0
Trees: Replacement, 25 Each Year	\$52,344	\$53,915	\$55,532	\$57,198	\$58,914
Trees: Replacement, Extra for 2020 Only	\$0	\$0	\$0	\$0	\$0

3. Physical Analysis

We completed a site visit as part of this reserve study on 9/27/2019. Table 2 below shows all the components considered for funding and explains the basis of the funding decision.

3.1 Table 2: Component Funding Basis

Component	Condition	Funding Basis
Bench: Replace	Fair	Funded based on the typical life expectancy
Concrete: Repairs	Assorted Condition	Funded based on Association direction
Concrete: Sealcoat		Unfunded, funded within another component
Drainage	Unknown	Unfunded, not Association responsibility
Electrical	Unknown	Unfunded outside the 30 year scope of report
Entry Monument Sign: Replace, Janelle Estates		Funded based on Association direction
Entry Monument: Clean & Repair, The Estates	Good	Funded based on the typical life expectancy
Entry Monument: New, Crystal Ridge, 23rd @ Shaw	Good	Funded based on the typical life expectancy
Entry Monument: Repair, Crystal Ridge, 23rd @ Shaw	Good	Funded based on the typical life expectancy
Fence: Chainlink, Replace	Fair	Funded based on the typical life expectancy
Fence: Wood, 3', Replace	Good	Funded based on the typical life expectancy
Fence: Wood, 3', Replace, Jenelle Estates	Excellent	Funded based on the typical life expectancy
Fence: Wood, Backyards, Replace	Excellent	Funded based on the typical life expectancy
Fence: Wood, Playlot	Excellent	Funded based on the typical life expectancy
Fence: Wood, Repaint and Concrete Sealer		Funded based on the typical life expectancy
Irrigation System: Repair/Replace	Assorted Condition	Funded based on the typical life expectancy
Lights, Monument: Repair/Replace		Funded based on Association direction
Mailbox Cluster: Replace		Unfunded, not Association responsibility
Mailbox Structure: Remove/Demolish		Funded based on Association direction
Mailbox Structure: Remove/Demolish		Funded based on Association direction
Mailbox Structure: Remove/Demolish		Funded based on Association direction
Mailbox Structure: Remove/Demolish		Funded based on Association direction
Mailbox Structure: Remove/Demolish		Funded based on Association direction
Picnic Table	Excellent	Funded based on the typical life expectancy
Playlot: Equipment	Good	Funded based on Association direction
Playlot: Rebarking	Good	Funded based on the typical life expectancy
Recreation Equipment: Replace	Excellent	Funded based on the typical life expectancy
Streets	Assorted Condition	Unfunded, not Association responsibility
Trees: Replacement, 25 Each Year	Assorted Condition	Funded based on Association direction
Trees: Replacement, Extra for 2020 Only	Assorted Condition	Funded based on Association direction

3.2 Table 3: Component Metrics

Component	FFB	% FFB	Annual Cost	% Annual Cost
Bench: Replace	\$37	0.03%	\$37	0.08%
Concrete: Repairs	\$67	0.05%	\$67	0.14%
Entry Monument Sign: Replace, Janelle Estates	\$200	0.14%	\$40	0.08%
Entry Monument: Clean & Repair, The Estates	\$4,000	2.81%	\$160	0.34%
Entry Monument: New, Crystal Ridge, 23rd @ Shaw	\$55,000	38.67%		
Entry Monument: Repair, Crystal Ridge, 23rd @ Shaw	\$0	0.00%	\$40	0.08%
Fence: Chainlink, Replace	\$1,226	0.86%	\$45	0.10%
Fence: Wood, 3', Replace	\$1,290	0.91%	\$215	0.45%
Fence: Wood, 3', Replace, Jenelle Estates	\$72	0.05%	\$72	0.15%
Fence: Wood, Backyards, Replace	\$1,500	1.05%	\$1,500	3.16%
Fence: Wood, Playlot	\$105	0.07%	\$105	0.22%
Fence: Wood, Repaint and Concrete Sealer	\$5,500	3.87%	\$1,100	2.31%
Irrigation System: Repair/Replace	\$10,000	7.03%	\$10,000	21.03%
Lights, Monument: Repair/Replace	\$5,000	3.52%	\$167	0.35%
Mailbox Structure: Remove/Demolish	\$1,000	0.70%	\$1,500	3.16%
Mailbox Structure: Remove/Demolish	\$875	0.62%	\$1,167	2.45%
Mailbox Structure: Remove/Demolish	\$800	0.56%	\$1,000	2.10%
Mailbox Structure: Remove/Demolish	\$667	0.47%	\$800	1.68%
Mailbox Structure: Remove/Demolish	\$750	0.53%	\$1,500	3.16%
Picnic Table	\$43	0.03%	\$43	0.09%
Playlot: Equipment	\$4,000	2.81%	\$133	0.28%
Playlot: Rebarking	\$600	0.42%	\$600	1.26%
Recreation Equipment: Replace	\$4,500	3.16%	\$2,250	4.73%
Trees: Replacement, 25 Each Year	\$25,000	17.58%	\$25,000	52.59%
Trees: Replacement, Extra for 2020 Only	\$20,000	14.06%		
Current Fully Funded Balance	\$142,231		\$47,541 Per Year	
Current Reserve Fund Deficit/Surplus	\$25,859		\$3,962 Per Month	

This table shows metric information regarding the influence each component has on the fully funded balance and contribution requirements.

3.3 Component Details

Site/Grounds - Bench: Replace

Quantity: 1 Each
 UL: 30
 RUL: 29
 Current Cost: \$1,100
 Condition: Fair
 Funding Basis: Funded based on the typical life expectancy



Good condition with no unusual deterioration or instability observed. No history of concern. Repair as needed from the operating budget. Best to plan for total replacement for appearance and functionality.

Site/Grounds - Concrete: Repairs

Quantity: 1 Allowance
 Condition: Assorted Condition
 Funding Basis: Funded based on Association direction

UL: 15
 RUL: 14
 Current Cost: \$1,000.00

Generally fair condition. We have included an allowance to replace curbs and concrete as needed. Routine pressure washing to minimize slip and fall hazard is recommended.

Site/Grounds - Concrete: Sealcoat

Current Cost:
 Funding Basis: Unfunded, funded within another component



Site/Grounds - Drainage

Current Cost:
 Condition: Unknown
 Funding Basis: Unfunded, not Association responsibility



Public utility responsibility.

Mechanical & Equipment - Electrical

Current Cost:

Condition: Unknown

Funding Basis: Unfunded outside the 30 year scope of report



No reported problems. Analysis of the electrical system is beyond the scope of a reserve study. At this time, there is no expectation of significant repair or expenses required. Minor amount of electrical equipment that can be funded from the Operating budget.

Site/Grounds - Entry Monument Sign: Replace, Janelle Estates

Quantity: 1 Allowance

UL: 25

RUL: 20

Funding Basis: Funded based on Association direction

Current Cost: \$1,000.00

Site/Grounds - Entry Monument: Clean & Repair, The Estates

Location: Entry

Quantity: 4 Allowance

UL: 25

RUL: 0

Current Cost: \$4,000

Condition: Good

Funding Basis: Funded based on the typical life expectancy



Good condition with no issues at this time. Sturdy construction and materials. No expectation of large scale expenses at this time. Funded for cleaning and minor repairs as needed.

Site/Grounds - Entry Monument: New, Crystal Ridge, 23rd @ Shaw

Quantity: 1 Allowance

Condition: Good

RUL: 0

Funding Basis: Funded based on the typical life expectancy

Current Cost: \$55,000.00

Good condition with no issues at this time. Sturdy construction and materials. No expectation of large scale expenses at this time.

Site/Grounds - Entry Monument: Repair, Crystal Ridge, 23rd @ Shaw

Quantity: 1 Allowance

UL: 25

Condition: Good

RUL: 25

Funding Basis: Funded based on the typical life expectancy

Current Cost: \$1,000.00

Good condition with no issues at this time. Sturdy construction and materials. No expectation of large scale expenses at this time.

Site/Grounds - Fence: Chainlink, Replace

Quantity: 60 Linear Feet
 UL: 37
 RUL: 10
 Current Cost: \$1,680
 Condition: Fair
 Funding Basis: Funded based on the typical life expectancy



Fair condition of the black vinyl chain link fencing. The life expectancy of these units are approximately 30 years. Reserve funding recommended.

Site/Grounds - Fence: Wood, 3', Replace

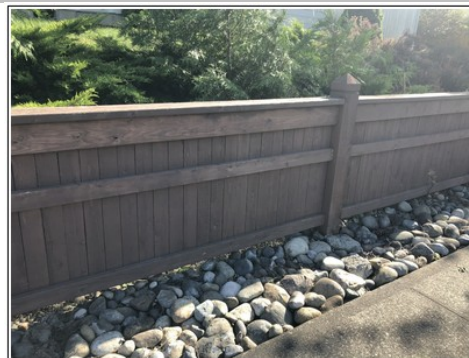
Quantity: 143 Linear Feet
 Condition: Good
 Funding Basis: Funded based on the typical life expectancy

UL: 20
 RUL: 14
 Current Cost: \$4,300.00

Good condition of wood fencing with no unusual deterioration. Reportedly the community inspects and repairs regularly utilizing the operating budget. Remove any contact with the ground and overgrowth to minimize advanced deterioration. We suggest continuing to seal for appearance and protection of fencing. Reserve funding is provided for the replacement at approximately the 20 year mark of life.

Site/Grounds - Fence: Wood, 3', Replace, Jenelle Estates

Location: Play park area
 Quantity: 48 Linear Feet
 UL: 20
 RUL: 19
 Current Cost: \$1,440
 Condition: Excellent
 Funding Basis: Funded based on the typical life expectancy



Excellent condition of wood fencing with no unusual deterioration. Reportedly the community inspects and repairs regularly utilizing the operating budget. Remove any contact with the ground and overgrowth to minimize advanced deterioration. We suggest continuing to seal for appearance and protection of fencing. Reserve funding is provided for the replacement at approximately the 20 year mark of life.

Site/Grounds - Fence: Wood, Backyards, Replace

Quantity: 1000 Linear Feet
 Condition: Excellent
 Funding Basis: Funded based on the typical life expectancy

UL: 20
 RUL: 19
 Current Cost: \$30,000.00

Excellent condition of wood fencing with no unusual deterioration. Reportedly the community inspects and repairs regularly utilizing the operating budget. Remove any contact with the ground and overgrowth to minimize advanced deterioration. We suggest continuing to seal for appearance and protection of fencing. Reserve funding is provided for the replacement at approximately the 20 year mark of life.

Site/Grounds - Fence: Wood, Playlot

Quantity: 70 Linear Feet UL: 20
 Condition: Excellent RUL: 19
 Funding Basis: Funded based on the Current Cost: \$2,100.00
 typical life expectancy

Excellent condition of wood fencing with no unusual deterioration. Reportedly the community inspects and repairs regularly utilizing the operating budget. Remove any contact with the ground and overgrowth to minimize advanced deterioration. We suggest continuing to seal for appearance and protection of fencing. Reserve funding is provided for the replacement at approximately the 20 year mark of life.

Site/Grounds - Fence: Wood, Repaint and Concrete Sealer

Quantity: 1000 Linear Feet UL: 5
RUL: 0
 Funding Basis: Funded based on the Current Cost: \$5,500.00
 typical life expectancy

Presently unstained. We recommend sealing the wood for appearance, protection of fencing and longer life. Reserve funding is provided for the regular reapplication of stain, paint or sealer.

Site/Grounds - Irrigation System: Repair/Replace

Quantity: 1 Allowance
 UL: 1
 RUL: 0
 Current Cost: \$10,000
 Condition: Assorted Condition
 Funding Basis: Funded based on the typical life expectancy



Assorted condition with significant expenses every year. As the community and irrigation lines age, local areas of line replacement may be needed and generally is not covered by the landscape contract. At this time there is no expectation of total line replacement, however, we have included an allowance for partial repair/replacement annually. As these expenses occur and trends are developed update the reserve funding as needed.

Site/Grounds - Lights, Monument: Repair/Replace

Quantity: 1 Allowance UL: 30
RUL: 0
 Funding Basis: Funded based on Current Cost: \$5,000.00
 Association direction

Site/Grounds - Mailbox Cluster: Replace

Funding Basis: Unfunded, not Association responsibility

Fair condition of mailboxes with no unusual damage observed. Clean as needed to maintain appearance. We suggest planning for eventual replacement of the mailboxes to ensure functionality and community aesthetics.

Site/Grounds - Mailbox Structure: Remove/Demolish

Quantity: 1 Allowance

RUL: 1

Funding Basis: Funded based on
Association direction

Current Cost: \$1,500.00

Site/Grounds - Mailbox Structure: Remove/Demolish

Quantity: 1 Allowance

RUL: 2

Funding Basis: Funded based on
Association direction

Current Cost: \$3,000.00

Site/Grounds - Mailbox Structure: Remove/Demolish

Quantity: 1 Allowance

RUL: 3

Funding Basis: Funded based on
Association direction

Current Cost: \$3,500.00

Site/Grounds - Mailbox Structure: Remove/Demolish

Quantity: 1 Allowance

RUL: 4

Funding Basis: Funded based on
Association direction

Current Cost: \$4,000.00

Site/Grounds - Mailbox Structure: Remove/Demolish

Quantity: 1 Allowance

RUL: 5

Funding Basis: Funded based on
Association direction

Current Cost: \$4,000.00

Recreation - Picnic Table

Quantity: 1 Each

UL: 30

RUL: 29

Current Cost: \$1,300

Condition: Excellent

Funding Basis: Funded based on the typical life
expectancy



Site/Grounds - Playlot: Equipment

Quantity: 1 Allowance

UL: 30

Condition: Good

RUL: 0

Funding Basis: Funded based on
Association direction

Current Cost: \$4,000.00

Playlot equipment for ages 3 to 5.

Site/Grounds - Playlot: Rebarbing

Quantity: 1 Allowance

UL: 7

Condition: Good

RUL: 6

Funding Basis: Funded based on the typical life expectancy

Current Cost: \$4,200.00

Playlot rebaring on a periodic basis. Fluff up annually to increase life.

Recreation - Recreation Equipment: Replace

Quantity: 1 Allowance

UL: 20

RUL: 18

Current Cost: \$45,000

Condition: Excellent

Funding Basis: Funded based on the typical life expectancy



Excellent condition with no structural instability or unusual deterioration noted during our inspection. Inspect regularly and refurbish fall zones and repair as needed utilizing the operating budget. Reserve funding recommended.

Site/Grounds - Streets

Current Cost:

Condition: Assorted Condition

Funding Basis: Unfunded, not Association responsibility



Dedicated to the Public.

Site/Grounds - Trees: Replacement, 25 Each Year

Quantity: 1 Allowance

UL: 1

RUL: 0

Current Cost: \$25,000

Condition: Assorted Condition

Funding Basis: Funded based on Association direction



Site/Grounds - Trees: Replacement, Extra for 2020 Only

Quantity: 1 Allowance

Condition: Assorted Condition

Funding Basis: Funded based on Association direction

RUL: 0

Current Cost: \$20,000.00

4. How to Read Your Reserve Study

This reserve study is an important planning tool that contains long-term common area replacement and financial recommendations for your Association. In order to accomplish this, we provide you with critical information that should be considered when evaluating the current health of your reserve fund, future maintenance, repair and replacement expenses and reserve contribution rates to include within the regular unit owner assessments. With the use of this reserve study your Association will be better prepared for present and future expenses.

We have worked to identify your common area assets, called **components**, which have maintenance or replacement expenses that can be anticipated. Our recommendations should help to minimize deferred maintenance and special assessments, as well as maximize your property value.

Having properly funded reserves enables the Association to keep the common area assets in good condition. When potential buyers consider which association to purchase a home in, the overall condition of the association and reserve fund may be considered. Having good financials, maintenance, and curb appeal, all work together to increase your property value.

We know that your needs are different from the needs of others. Therefore, we have created this report specifically for your Association. When possible, we have had discussions with the Association Board of Directors, vendors and professional management to provide recommendations that will help you meet your Association's goals and objectives.

4.1 About Reserve Studies

By definition a reserve study is a budget planning tool. It identifies the current status of the reserve fund with a stable and equitable funding plan, to offset the anticipated future major common area expenditures. Plainly, a reserve study is a long term plan that indicates how much money needs to be set aside to pay for future expenses. The reserve study consists of two parts: the physical analysis and financial analysis.

The **physical analysis** identifies which components are appropriate for reserve funding and the current physical condition assessment of each asset; then indicates the life expectancy or useful life of the component as well as the life remaining or remaining useful life of each component. The physical analysis is concluded with the current cost to replace each component. The physical analysis information is used within the financial analysis. Therefore, it generally contains many recommendations and justifications regarding component repair, maintenance and replacement recommendations as well as cost and life cycles.

The **financial analysis** includes two results. First, it reveals the health of the reserve fund. This is completed by determining the current status of the reserve fund known as percent funded. The second result is the reserve contribution recommendation. Using the information contained within the physical analysis, the future expected expenses are analyzed and reviewed. Then multi-year funding plans are developed to meet various funding goals. The reserve contributions required to meet the funding goal desired is then presented and recommended to the Association.

4.2 Reserve Study Levels

- **Level I:** Full Reserve Study Funding Analysis and Plan. This is the most labor intensive reserve study, as it includes both a physical and financial analysis. The component inventory list and current component condition assessments with life and valuation estimates are determined from an on-site visual inspection. This information is used to conduct the financial analysis, which includes the current fund status and a recommended funding plan. A "Full Reserve Study" is recommended when a previous reserve study is not available, a substantial time has elapsed since the last study (7-10

years), or there are concerns with an existing reserve study's component inventory or measurements.

- **Level II:** Update with Visual Site Inspection. This report updates both the physical analysis and financial analysis of an existing report. An on-site visual inspection is conducted to verify and/or make adjustments to the existing component list, condition assessments, useful life and component valuation estimates. The financial analysis is also updated, including the current fund status and recommended funding plan. A level II report is recommended at least every three years, before and after major projects and as required by state law.
- **Level III:** Update with No Visual Site Inspection. This report updates the financial analysis of an existing reserve study only. No on-site visual inspection is completed. An existing fund status and funding plan is updated using research conducted with board members, vendors, association managers and information contained within a prior reserve study. A level III report is recommended to review, adjust and verify that the existing funding plan is accurate and suitable for current economic conditions. A level III report is recommended at least annually.

4.3 Percent Funded

Percent funded is a way to measure the strength of the reserve fund. The Community Associations Institute (CAI) defines "Percent Funded" as "the ratio, at a particular point of time, of the actual (or projected) Reserve Balance to the Fully Funded Balance, expressed as a percentage." The **fully funded balance** is the total accrued depreciation or deterioration of the component(s). This balance is the cost of how much life has been used up. The fully funded balance is then used as an indicator against which the actual (or projected) reserve fund balance can be compared; known as percent funded.

For example, if an association were to replace interior carpeting in 10 years at an expense of \$10,000; then each year the cost of deterioration is 1/10th of the replacement cost. Therefore, each year \$1,000 of cost is accrued. In year 2, the fully funded balance would be \$2,000. In year 5, the cost of existing deterioration is \$5,000, and so on. To determine the percent funded, the FFB is compared to the reserve fund balance. To continue the above example, the association has \$2,000 in their reserve fund in year 2. The total accrued deterioration or FFB is \$2,000, therefore they are 100% funded. The association has saved 100% of the accrued deterioration or fully funded balance. If they have set aside only \$1,000, the association is 50% funded, having saved 50% of the existing deterioration or cost.

Using Percent Funded to Measure Strength

- **0-30% Funded is a "weak" status.** There is a lack of funds reserved toward the amount of accrued deterioration. Whenever an association has a weak status there is an increased possibility of requiring special assessments, loans or deferred maintenance.
- **31-69% Funded is a "fair" status.** There is a decreased chance of requiring special assessments or deferred maintenance, however, cash flow problems may very easily arise.
- **70-100% Funded is a "strong" status.** Associations in this range generally have financial stability. There are generally no cash flow issues, special assessments or deferred maintenance necessary.
- **100% Funded is known as "ideal."** The reserve fund balance equals the fully funded balance. This is "ideal" because funds are reserved as components are used. It is thought to be the most fair for members because they pay as they go, or they pay their share.

Use Caution When Using Percent Funded

Percent funded is a ratio and therefore does not convey the urgency that is often times required. There are two aspects that need to be considered when evaluating the urgency of the current situation, the time remaining before an expense is scheduled to occur, as well as the cost of the expense.

The first aspect that percent funded does not consider is the time remaining before the expense is to occur. Use the same carpet replacement example (\$10,000 carpet expense to be saved over 10 years). If, in year 5 they have only saved \$2,500 they are 50% funded (remember the total accrued deterioration or FFB would be \$5,000). To have the capital required to complete the project as scheduled in year 10 for \$10,000, they would need to save \$1,500 each year for the next 5 years.

Changing the time frames, if in year 10 they have set aside \$5,000, they would still be 50% funded (having saved 50% of the total accrued deterioration of \$10,000). However, they now need to attain \$5,000 of the required \$10,000 expense immediately rather than over a period of time.

These examples show that the percent funded ratio lacks the urgency that each association may have in attaining the rest of the financing.

Percent funded also does not consider the cost of the expense. Using the same 10 year cycle, changing the cost of the required expense from \$10,000 to a \$30,000 paint project, in year 5 the association is 50% funded by having set aside \$15,000. In this case, they must save \$3,000 each year, not \$1,500. If in year 10, they are 50% funded, they would need to save \$15,000 not \$5,000. Notice how the percent funded is the same, but the amount needed to meet the financial obligation is very different.

Percent funded is a very useful ratio, however, it must be placed in context. Remember to evaluate not only the percent funded but also the cash balance and size of the upcoming expenditures as well.

4.4 Reserve Funding Plans & Goals

To determine the contribution rate to the reserve fund, the association needs to determine their reserve fund goal. This may be based on a number of objectives and analysis' corresponding to the reserve fund. There are three different funding goals associations may choose based on their risk tolerance:

- **Baseline Funding Goal** – This sets the reserve contribution amount as low as possible without the reserve fund dropping below a zero balance. This is the most risky method with the least contributed to the reserve fund. If an expense arrives early, or unexpected, there is a significant chance of needing a special assessment or loan.
- **Threshold Funding Goal** - The goal of Threshold Funding is to set the reserve contribution amount to meet a specified goal. Common goals to achieve and maintain are 70 Percent Funded, to maintain a cash-balance of 15% of the prior year's expenses, or to maintain a minimum cash-balance of the prior year's reserve contribution amount.
- **Full Funding Goal** – Sets the goal at being fully funded. This plan sets the reserve contribution amount to achieve a fully funded balance. Fully funded is achieved when the percent funded is 100%. It requires the largest contribution to the reserve fund of the three goals, but is also the least risky.

4.5 Reserve Contributions

There are three ways to contribute to your Reserve Account:

- **Regular Contributions:** If adequate regular contributions are not established the reserve fund will eventually be underfunded. An underfunded reserve account leads to deferred maintenance and potentially extensive repair. As already mentioned, the effects of deferred maintenance and extensive repair are significantly more than routine or preventative maintenance. Additionally, it is the most fair and equitable to the association members. If reserve contributions are not set properly, whether too high or low, the individuals who use the asset will not be paying for it. If the contributions are set too high, current owners are paying for what future owners should pay for.

Likewise, when contributions are set too low, future owners will pay for what current owners should have paid for. Having properly set reserve contributions is the most fair for everyone involved.

- **Special Assessments:** If the reserve fund is underfunded at the time an expense is required, the association is forced to hold a special assessment. Most often, this occurs when deferred maintenance catches up and the association is forced to deal with it. It is better to have a small monthly increase now rather than a very large and unexpected increase later.
- **Loans:** If the association members do not have the finances to contribute to a special assessment or the required repairs are too extensive and costly for a special assessment, a loan may be required. This not only requires a monthly increase in dues, but members are then paying for past as well as future expenses, rather than just future expenses. The future still needs to be anticipated and saved for.

4.6 Reserve Components

The components of a reserve study have significant impact on the accuracy of the report. If items are improperly included or excluded from the reserve study, then the projected expenses and subsequent required reserve contributions will likewise be affected. Before a component is included within the reserve study, it is evaluated and qualified using a nationally recognized four-part test:

- **Common Area:** The component must be association responsibility; limited common areas may be included.
- **Limited Useful Life:** The life of the component must be limited.
- **Predictable Life:** The limited life must be predictable.
- **Minimum Threshold Cost:** Generally greater than 1% of the annual operating budget or \$1,000 whichever is greater.

Repairs or replacements of components that are predicted to have an estimated remaining useful life exceeding this 30-year report period are generally not included. Items that are below the minimum threshold cost, or reoccur annually are generally included within the annual operating budget. Expenses that are necessitated by acts of nature, accidents or other occurrences that are more properly insured for, rather than reserved for, are also excluded.

Maintaining Components

There are three ways to manage capital reserve expenses:

- **Preventative Maintenance:** This is the most effective way to extend the useful life of components and save money in the long run, as it is a proactive maintaining of components. The cost of maintaining the condition and quality of a component is much less than repair or replacing the component to bring it back to a usable condition and may also prolong the life expectancy of an asset.
- **Deferred Maintenance:** This is deferring routine maintenance rather than completing maintenance as recommended. A common household example of this is deferring the oil changes in a vehicle. Deferred maintenance is likely the first indication of, and results in, having inadequate reserve funds. While in the short run the association is contributing less money, the effects of deferring maintenance and the costs associated with it are far greater than the cost of preventative maintenance.
- **Extensive Repair or Replacement:** This is when a component needs to have significant repair(s) completed or even replacement prior than anticipated. While not always, this is generally a result of deferred maintenance. The cost of significant repair or advanced replacement is not only expensive, it also decreases association morale through poor association management, poor curb appeal and out of commission assets.

4.7 Implementing Your Reserve Study

- **Step 1 - Understand:** The board of directors has the responsibility to lead the association, therefore, the first step is for the board to hold a meeting. This meeting should discuss the results of the reserve study in order for the Board to better understand the current position of the association and the upcoming reserve requirements of the association.
- **Step 2 - Plan:** The board should then create a plan to determine how best to manage the association's common area assets and financial position. Using this reserve study as a guide, the board should make the adjustments required to meet the needs of the association and its members. This includes setting the reserve contribution amount.
- **Step 3 - Communicate:** After the board has determined the best course of action, the plan needs to be communicated to the association members. This can be accomplished through the distribution of the results of this reserve study and/or through association meetings. This allows them to ask questions and understand the direction the association will be heading.
- **Step 4 - Update and Adjust:** Reserve studies are a one-year document, and need to be updated and adjusted annually. We recommend additional collaboration with specialized professionals to provide the expertise and adjustments to this reserve study. Additionally, we recommend the board review and make minor adjustments of this plan before and after reserve projects throughout the year.

5. Supplemental Report Information

5.1 Definitions

COMPONENT: The individual line items in the Reserve Study developed or updated in the Physical Analysis. These elements form the building blocks for the Reserve Study. Components are defined as being:

1. Association responsibility
2. Having a limited Useful Life expectancy
3. Predictable Remaining Useful Life expectancies
4. Above a minimum threshold cost
5. As required by law

DEFICIT/SURPLUS: The Reserve Balance less the Fully Funded Balance.

FULLY FUNDED BALANCE (FFB): Equivalent to Total Accrued Depreciation. This represents the deteriorated or used portion of the component. This is calculated for each component, then summed together for a total FFB.

$$\text{FFB} = \text{Current Cost} \times \text{Effective Age} / \text{Useful Life}$$

PERCENT FUNDED: The ratio at a particular point of time of the actual (or projected) Reserve Balance to the Fully Funded Balance, expressed as a percentage.

PROJECTED RESERVE BALANCE: The anticipated reserve balance on the first day of the fiscal year for which this report has been prepared. This is based upon information provided and not audited.

REMAINING USEFUL LIFE (RUL): The estimated time, in years, that a reserve component can be expected to continue to serve its intended function.

REPLACEMENT COST: The cost of replacing, repairing, or restoring a Reserve Component to its original functional condition. The Current Replacement Cost would be the cost to replace, repair, or restore the component during that particular year.

USEFUL LIFE (UL): The estimated time, in years, that a reserve component can be expected to serve its intended function if properly constructed in its present application or installation.

5.2 Table 4 - RCW Required Information & Location

RCW Required Information	Report Location
(a) A reserve component list, including any reserve component that would cost more than one percent of the annual budget of the association, not including the reserve account, for major maintenance, repair, or replacement. If one of these reserve components is not included in the reserve study, the study should provide commentary explaining the basis for its exclusion. The study must also include quantities and estimates for the useful life of each reserve component, remaining useful life of each reserve component, and current major maintenance, repair, or replacement cost for each reserve component;	Table 1 Table 4
(b) The date of the study and a statement that the study meets the requirements of this section;	Disclosure Page
(c) The level of reserve study performed:	Cover Page
(d) The association's reserve account balance;	Executive Summary
(e) The percentage of the fully funded balance that the reserve account is funded;	Executive Summary Financial Summary
(f) Special assessments already implemented or planned;	Executive Summary Financial Summary
(g) Interest and inflation assumptions;	Executive Summary Financial Summary
(h) Current reserve account contribution rate;	Executive Summary Financial Summary
(i) Recommended reserve account contribution rate; a contribution rate for a full funding plan to achieve one hundred percent fully funded reserves by the end of the thirty-year study period, a baseline funding plan to maintain the reserve balance above zero throughout the thirty-year study period without special assessments, and a contribution rate recommended by the reserve study professional;	Executive Summary Financial Summary
(j) Projected reserve account balance for thirty years and a funding plan to pay for projected costs from those reserves without reliance on future unplanned special assessments;	Spread Sheet of Reserve Expenses
(k) Whether the reserve study was prepared with the assistance of a reserve study professional.	Executive Summary
(3) A reserve study shall include the following disclosure: "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."	Disclosure Page

5.3 Reserve Study Disclosure

This document is the sole opinion of CEDCORE, LLC and has been provided pursuant to an agreement containing restrictions on its use. No part of this document may be copied or distributed, in any form or by any means, nor disclosed to third parties without the expressed written permission of CEDCORE. The client shall have the right to reproduce and distribute copies of this report, or the information contained within, as may be required for compliance with all applicable regulations.

This reserve study and the parameters under which it has been completed are based upon information provided to us in part by representatives of the association, its contractors, assorted vendors, specialists and independent contractors. The site visit is a limited scope visual observation of the surface condition of identified and exposed components. Hidden systems including but not limited to mechanical, electrical, structural, plumbing, storm water, sewer, water supply, foundations, etc. are beyond the scope of a reserve study. No destructive testing was undertaken, nor does this study purport to address any latent and/or patent defects or life expectancies which are abnormally short due to either improper design and/or installation or due to subsequent improper maintenance. It is assumed that all components are to be reasonably maintained for the remainder of their life expectancy.

Various construction pricing and scheduling manuals may be used as well as costs and life expectancies obtained from numerous vendors, vendor catalogues, actual quotations or historical costs, and our own experience in the field of Reserve Study preparation.

It has been assumed, unless otherwise noted in this report, that all assets have been designed and constructed properly and that each estimated Useful Life will approximate that of the norm per industry standards and/or manufacturer's specifications. In some cases, estimates may have been used on assets, which have an indeterminable but potential liability to the association. The decision for the inclusion of these as well as all assets considered is left to the client.

We recommend that your Reserve Study be updated on an annual basis due to fluctuating interest rates, inflationary changes, and the unpredictable nature of the useful life and cost of many of the assets under consideration.

This Reserve Study is provided as an aid for planning purposes and not as an accounting tool. Since it deals with events yet to take place, there is no assurance that the results enumerated within it will, in fact, occur as described. Additionally, other unanticipated expenses may arise that are not included within this reserve study. 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 the association to (1) defer major maintenance, repair, or replacement, (2) increase future reserve contributions, (3) borrow funds to pay for major maintenance, repair, or replacement, or (4) impose special assessments for the cost of major maintenance, repair, or replacement.

This Reserve Study was prepared by or under the direct supervision of a Reserve Study Professional following National Reserve Study Standards and complies with RCW 64.34.382 and 64.90.550. The Reserve Study Professional is independent from the Association, and has no other involvement with the Association which would result in actual or perceived conflicts of interest. This Reserve Study needs to be updated annually as well as when any new material information is obtained.



3800 Bridgeport Way W, Suite A464
University Place, WA 98466
253-292-2125
www.cedcore.com