### RESERVE FUND STUDY UPDATE

KEMPTON PARK SUFFOLK, VIRGINIA

Prepared for:
KEMPTON PARK HOMEOWNER'S ASSOCIATION
C/O UNITED PROPERTY ASSOCIATES

Prepared by:



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### 1.0 INTRODUCTION

Kempton Park, through United Property Associates, authorized Criterium Engineers to conduct an update to the Building Evaluation and Reserve Fund Study for Kempton Park, located at 3000 Cheltenham, Suffolk, VA. The previous study was completed in 2007. Studies of this nature are important to ensure that a community has sufficient funds for long-term, periodic capital expenditure requirements. Anticipating large expenditures over an extended period of time through a structured analysis and scheduling process assists the Association in meeting financial requirements without increasing the service fees above permitted maximums, borrowing the funds, or levying special financial assessments to the owners.

Typically, a community association has two broad cash requirements: the general operating reserves and the capital repair and replacement reserves. In this report, we will focus on those items falling under the capital repair and replacement reserve criteria. We have projected a capital repair and replacement reserve for twenty (20) years. The first ten years are the most reliable. Such a study should be updated every three to five years.

This report is structured to analyze components of the community for which the Association is responsible and to assess a useful expected life and useful remaining life to those components. The anticipated scheduled repair or replacement of the component and the anticipated expense for the activity are then analyzed in conjunction with the current capital reserves funding program for the community. Funding program recommendations are made with the objective of limiting substantial cash excesses while minimizing financial burdens that can result from significant cash inadequacies.

This report is intended to be used as a tool to determine reserve fund allocation requirements for the community, to manage future Association obligations, and to inform the community of future financial needs in general. The report that follows has been prepared from the perspective of what an owner of this property would benefit from knowing. Some items, beyond those of immediate concern, may be discussed. Therefore, the report should be read in its entirety in order to fully understand all of the information that has been obtained.



This property consists of 268 single family homes that are approximately 10-11 years old. The homes and the adjacent property are maintained by the individual homeowners. The common area elements consist of a swimming pool, kiddie pool, pool building and associated parking lot with sidewalks leading to the pool area, irrigation, chain link fencing, vinyl fencing, playground equipment, entrance signage, three retention ponds and one retention pond whose maintenance is shared with an adjacent property. Although the City of Suffolk may ultimately take over responsibility for the ponds (per the property manager); this decision has not been finalized and we have allocated funds in the future for major repairs and/or dredging for these ponds.

The common area elements are generally in fair-to-good condition. Based on our evaluation, the current level of funding of the reserve for this project is adequate assuming periodic increases to the funding are made. A more detailed analysis of the reserve fund has been provided in Appendix A.

Based on our observations, there are no immediate major material deficiencies. However, sealing and restriping the parking lot at the pool and repairing sections of deteriorated sidewalk should be conducted in 2013.

There are, of course, other capital expenditures to be expected over the next ten to twenty years. Those items that will require attention are discussed later in this report. For your convenience, we have prepared the following summary of the condition of the major systems of the property.

	PROPERTY	SUMMARY	
SYSTEM	CONDITION	ACTIVITY REQUIRED	ANTICIPATED YEAR OF
SITE	*		
Asphalt parking lot	F	Reseal, overlay	2013-2028
Concrete flatwork/curbing	F-G	Replace sections	2013-2030
Irrigation System	F-G	Replace contingency	2018
Chain link/vinyl fence	F-G	Replace	2028
Retention ponds	F-G	Major repairs/dredging	2023
Entrance signage	F	Replace	2015
BUILDING EXTERIOR			2013
Building roof	F-G	Resurface	2023
Painting	G	Repaint	2018
BUILDING INTERIOR			2010
Painting	G	Repaint	2018
MECHANICAL			20,0
Pond and drinking water fountain	F-G	Replace	2017-2032
Sand filters & associated equip.	F-G	Replace	2015-2027
AMENITIES			2015-2027
Playground equipment	F-G	Replace	2026
Swimming pools	F	Repair/recoat	2015-2027
Benches/bulletin board	P-G	Replace	2013-2027

Table 2.1: Summary

CRITERIUM \*

### 3.0 PURPOSE & SCOPE

3.1 Purpose

3.2 Scope

The purpose of this study is to perform a reserve fund analysis and to determine a capital needs plan. It is intended to be used as a tool for the Kempton Park Homeowner's Association in determining the allocation requirements into the reserve fund in order to meet future anticipated capital expenditures for the community.

This report forecasts obligations for the community twenty years into the future. It should be noted that events might occur that could have an effect on the underlying component or system useful life assumptions used in this study. Likewise, inevitable market fluctuations can have an impact on component or system replacement and repair costs. Therefore, a study such as this should be updated from time to time, usually on a three to five-year cycle, in order to reflect the most accurate needs and obligations of the community.

This study has been performed according to the scope as generally defined by United Property Associates, Criterium Engineers, and the standards of the Community Associations Institute. The findings and recommendations are based on interviews with the community's management personnel; a review of available documents; and an investigation of the buildings and site.

The guidelines used to determine which physical components within the community are to be included in the component inventory are based on the following general criteria:

- 1. The component must be a common element, or otherwise noted to be the responsibility of the Association to replace.
- The component must have an estimated remaining useful life of twenty years or less. As the site ages, additional components may need to be added.
- The funding for replacement should be from one source only, not funded from another area of the budget or through a maintenance contract.
- 4. The cost of replacement should be high enough to make it financially unsound to fund it from the operating budget.
- Components which are considered deferred maintenance, are most appropriately funded from the Operating Budget instead of Reserves.

Our reserve study analysis included evaluating the following association property:

• Site and Grounds. Chain link fencing surrounds the pool area and vinyl fencing around a portion of one of the retention ponds. In addition, wood entrance signage is mounted on a brick and stone and is in good condition and has a service life beyond the time period of this reserve study. There are three retention ponds that are fully maintained by Kempton Park and one additional retention pond that has shared maintenance responsibilities with an adjacent property.

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### 3.3 Sources of Information

### 3.4 Standards of Reference

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- Private Streets, Sidewalks and Curbs. Except for the parking lot area adjacent to the swimming pool, the streets, sidewalks and curbs are all maintained by the City.
- Amenities. A concrete swimming pool and small kiddie pool are provided on site. A small park with playground equipment and wood picnic tables and benches are also located in a separate location within the community.

The above list was obtained from the inspection, previous report and discussions with the property manager. No written facility list was provided.

This study estimates the funding levels required for maintaining the long term viability of the facility. Our approach involves:

- Examining association managed equipment, buildings and site facilities.
- Predicting their remaining service life and, approximating how frequently they will require repair or replacement.
- 3. Estimating repair or replacement costs (in 2012 dollars) for each capital item.
- 4. Using data developed in Steps 1, 2 and 3 to project Capital Reserve balances for Years 1 through 20.

The statements in this report are opinions about the present condition of the subject community. They are based on visual evidence available during a diligent investigation of all reasonably accessible areas falling under the responsibility of the Association. We did not remove any surface materials, perform any destructive testing, or move any furnishings. This study is not an exhaustive technical evaluation. Such an evaluation would entail a significantly larger scope than this effort. For additional limitations, see Section 8.0.

The onsite inspection of the property occurred on August 23, 2012.

The following people were interviewed during our study:

 Ms. Angela Rawlings, Property Manager (United Property Associates)

No building construction documents were available

We based our cost estimates on some or all of the following:

- R.S. Means
- Our data files on similar projects
- Local contractors

For your reference, the following definitions may be helpful:

Excellent: Component or system is in "as new" condition, requiring no rehabilitation and should perform in accordance with expected



### performance.

Good: Component or system is sound and performing its function, although it may show signs of normal wear and tear. Some minor rehabilitation work may be required.

Fair: Component or system falls into one or more of the following categories: a) Evidence of previous repairs not in compliance with commonly accepted practice, b) Workmanship not in compliance with commonly accepted standards, c) Component or system is obsolete, d) Component or system approaching end of expected performance. Repair or replacement is required to prevent further deterioration or to prolong expected life.

Poor: Component or system has either failed or cannot be relied upon to continue performing its original function as a result of having exceeded its expected performance, excessive deferred maintenance, or state of disrepair. Present condition could contribute to or cause the deterioration of other adjoining elements or systems. Repair or replacement is required.

Adequate: A component or system is of a capacity that is defined as enough for what is required, sufficient, suitable, and/or conforms to standard construction practices.

All ratings are determined by comparison to other buildings of similar age and construction type. Further, some details of workmanship and materials will be examined more closely in higher quality buildings where such details typically become more relevant.

All directions (left, right, rear, etc.), when used, are taken from the viewpoint of an observer standing in front of a building and facing it.

Repair/Replacement Reserves - Non-annual maintenance items that will require significant expenditure over the life of the buildings. Included are items that will reach the end of their estimated useful life during the course of this forecast, or, in the opinion of the investigator, will require attention during that time.



### 4.0 DESCRIPTION

### **5.0 OBSERVATIONS**

This property consists of 268 single family homes that are approximately 10-11 years old. The homes and the adjacent property are maintained by the individual homeowners. The bituminous asphalt paving and the concrete sidewalks leading to the single family homes are maintained by the City. The common area elements consist of a swimming pool, kiddie pool, pool building and parking lot, irrigation, chain link fencing, vinyl fencing, playground equipment, entrance signage and three retention ponds and one retention pond whose maintenance is shared with an adjacent property.

The following key observations were made about the current condition of the more significant and costly common elements of the property.

### Site and Grounds

The roads throughout the community are public, but the asphalt-paved parking lot at the pool is the responsibility of the Association. No indications of major structural failure were observed in the parking lot asphalt paving; however, we did observe cracking and worn sealant/striping in the lot.

Typically, we recommend the application of an oil resistant sealant to all asphalt paved surfaces on an approximately 5-year cycle. At this same time, all cracks and potholes should be properly filled, patched, and sealed. This cycle is scheduled to begin in 2013.

If sealant and crack repairs are accomplished in the interim, we anticipate the asphalt paving in the community to have an estimated useful life of approximately twenty years. We have allocated funds to resurface the asphalt paving in 2021.

The concrete curbing surrounding the parking lot generally appeared to be in fair-to-good condition. It is likely that due to differential settlement, cracking will develop and sections of the concrete curb will require repair on an approximately 8-year cycle. We have allocated funds to repair approximately 5% of the total amount of concrete curbing every 8 years, beginning in 2014.

Concrete sidewalks are provided from the parking lot to the pool building. The deck around the swimming pool is also comprised of concrete. Except for one area of deteriorated concrete near the pool building, the concrete flatwork generally appeared to be in good condition. We have allocated funds for periodic replacement of concrete surfaces including the concrete decking around the pool as required; and have assumed that 5% of the surfaces will require replacement every 5-years. Replacement of the deteriorated sidewalk sections should be completed in 2013.

Drainage systems include gutter downspouts that discharge to grade and inlet basins. We noted limited erosion behind the main brick entrance wall and repair of this eroded area should be funded from the Maintenance budget.

CRITERIUM

The stormwater retention pond and areas generally appeared to be in fair-to-good condition and generally well maintained. The ponds will require regular cleaning and maintenance. Annual maintenance costs for a retention pond are generally estimated to be three to five percent of the construction cost. These maintenance costs include inspections of the pond embankments, nuisance control, debris and litter removal, inlet and outlet maintenance and inspection. The association should ensure that the pond conforms to all applicable regulations at all times.

In addition to regular maintenance, we anticipate that more significant pond repair work will be performed on an approximately 20-year cycle. This larger repair work is expected to include items such as: significant erosion repair, replacing riprap and possibly dredging. Although the City of Suffolk may ultimately take over responsibility for the ponds (per the property manager); this decision has not been finalized and we have allocated funds in the future for major repairs and/or dredging for these ponds. We have allocated funds for dredging and repair beginning in 2023.

PVC has been installed around part of one stormwater pond and the open structure of the pool building. This type of fencing and the chain link fencing around the swimming pools have an expected useful life of approximately 25-years. We have allocated funds to replace all the fencing in 2028.

A landscape irrigation system has been installed around the common areas near the pool. We observed Hunter controls mounted on the back of the main entrance wall. Typically these systems required major repairs to heads, piping and controls on a 12-15 year cycle and we have allocated funds for major irrigation system repairs beginning in 2018. Minor repairs to damaged heads and piping should be funded from the Maintenance budget.

A brick entrance monument is located at the main entrance to the community at the corner of Bennetts Creek Park Road and Cheltenham Street. The sign mounted on the entrance wall monument is comprised of a painted wood/ composite material. The brick entrance wall and other brick monuments on Bennetts Creek Park Road have an expected life beyond the term of this analysis. The Kempton Park sign is showing signs of wear and we have scheduled replacement of the sign beginning in 2015.

### **Pool Building Exterior**

The pool building exterior is clad in vinyl siding. Trim and soffit are vinyl material and plastic shutters observed. Painted wood beams, painted composite columns and a painted wood trellis were observed. Windows are of vinyl double pane construction and pool building doors are metal clad. Painting of the non-vinyl components appeared to have been completed in the past 1-2 years.



We recommend painting the exterior doors, and non-vinyl components con a 7-year cycle. Additionally, painting the interior rooms should be completed at this time. We have allocated funds to paint the exterior and interior of the building beginning in 2018.

The pitched roof surface over the building is covered in 3-tab asphaltic fiberglass shingles. Roof surfacing is applied over plywood roof sheathing, and appears to be in fair-to-good condition. Typically, this type of roofing surface will last approximately twenty years and we have allocated funds to replace the shingles in 2023. We strongly recommend that any re-roofing project closely follow procedures outlined by the National Roofing Contractors Association's Roofing and Waterproofing Manual, Fourth Edition. A re-roofing sequence should include removal of the existing roofing material, replacement of any inadequate roof sheathing, replacement of any damaged flashing, and replacement of drip edge components.

Note that repairs and maintenance to the vent boots and flashing components of the roof systems will likely be required in the interim. We have assumed these repairs will be funded from a general operating budget.

Gutters and downspouts are in generally good condition and should not require replacement until the time of roof replacement, as this component typically provides twenty years of relatively trouble free service

### **Pool Building Interior**

The interior wall surfaces of the clubhouse are primarily comprised of smooth finished drywall. Painting of the interior should be completed at the time of exterior painting as noted above. The interior room flooring is concrete. We did not observe any significant upheaval or cracking of the concrete floor system.

### Mechanical

The Association is responsible for maintaining the mechanical equipment that serves the pool building and both swimming pools.

The pool building includes a hi-lo chilled drinking water fountain which has an expected life of approximately 15-years. . We have allocated funds to replace this equipment in 2017.

A fountain is provided in the stormwater pond located behind 3002 Kempton Park. We have allocated funds to replace the fountain controls and mechanical components on a 15-year cycle beginning in 2018.

### **Amenities**

Amenities include the swimming pools, small park and playground.

The main swimming pool and kiddle pool both appeared to be in fair-to-good condition. We noted deteriorated caulking between the tile and



concrete deck. Additionally, broken tiles were noted at the kiddie pool. The Property Manager advised that the general repairs to the coping/tiles and caulking would be completed this Fall. The pool surface will likely require repair and re-coating in the next 2-4 years and we have allocated funds to re-coat the pool surface in 2015 and on a 12-year cycle.

The swimming pool is served by a large 5-Horsepower electric pump, ¾-Horsepower pump (kiddie pool) and three sand filters. Chlorination equipment is also provided. We have allocated funds for major repairs of this equipment on a 12-year cycle beginning in 2015.

Pool furniture includes chaise lounges, chairs, six tables and small umbrellas. Ladders and hand rails provide access into the swimming pool We have allocated funds to replace approximately  $1/3^{rd}$  of the pool furnishings on a 3-year cycle beginning in 2014. Additionally, we observed tie-downs for a pool cover. Pool covers typically have an expected life of approximately 8-years (cycle varies according to style and storage methods) and we have allocated funds to replace in 2016.

A small park/playground area with a climbing structure and slide, wood picnic tables and wood benches are located in the community. Additional wood picnic tables and wood benches are located at the pool area. The playground equipment has an expected useful life of approximately 20-25 years and we have allocated funds for replacement in 2025. The condition of the wood picnic tables and benches varies widely with the tables/benches at the park in poor-to-fair condition. We have allocated funds to replace wood tables/benches in 2014.

An exterior PVC bulletin board was observed outside the pool building. These bulletin boards have an expected life of approximately 15-years and we have allocated funds to replace in 2018. We also observed a bicycle rack adjacent to the pool area parking lot. This rack appeared relatively new and has an expected life of approximately 25 years (beyond the term of this study).



### 6.0 RESERVE FUND ANALYSIS

Using software developed by Criterium Engineers and KPMG Peat Marwick, we have analyzed capital reserves draw-down for the projected capital expenditures to determine the amount needed. The following is a projected reserve fund analysis for non-annual items as discussed in the report. This projection takes into consideration a reasonable return on invested moneys and inflation. Please review this thoroughly and let us know of any changes that may be desired.

The intent of this reserve fund projection is to help the Association develop a reserve fund to provide for anticipated repair or replacements of various system components during the next twenty years.

The capital items listed are those that are typically the responsibility of the homeowner's association and are derived from a list provided by the property manager. However, association by-laws vary, and therefore, which components is the responsibility of the owner and which is the responsibility of the Association can vary. The Kempton Park Homeowner's Association should confirm that the items listed should be financed by the reserve fund.

This projection provides the following:

- An input sheet that defines all the criteria used for the financial alternatives, including the assumed inflation rate and rate of return on deposited reserve funds.
- A table that lists anticipated replacement and/or repair items complete with estimated remaining life expectancies, projected costs of replacement and/or repair, a frequency in years of when these items require replacement and/or repair, and a projection based on this frequency.
- A table and graph that represent end of year balances versus capital expenditures based on your current funding program and reserve balances.
- Note that based on our developed list of capital items and taking inflation into account, the current funding is reasonable assuming periodic increases to the funding level are made over the next 20 years.
- The Association should bear in mind that unanticipated expenditures can always arise and maintenance of a significant reserve fund balance can be viewed as a way to avoid special assessments.

Current Funding Rate: \$561.25 per month Current Reserve Balance: \$99,136.62

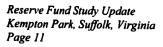
Alternative 1: Maintain the current monthly contribution to reserves of \$561.25 per month in 2013. Beginning in 2015, increase this contribution as a step function every two years. The magnitude of increase should be \$50 per month (\$600 per year). This alternative



will maintain a positive balance.

- Alternative 2: Maintain the current monthly contribution to reserves of \$561.25 per month in 2013. Beginning in 2014, increase this contribution amount by 5% annually over the next twenty years. This alternative will maintain a positive balance.
- <u>Alternative 3:</u> No special assessments are projected to be required for this association.

Addendum A lists estimated capital reserves from 2013 through 2032.





### 7.0 CONCLUSION

### 8.0 LIMITATIONS

We trust this answers any questions that may arise. If not, or if we can be of further assistance, please do not hesitate to call.

The observations described in this study are valid on the date of the investigation and have been made under the conditions noted in the report. We prepared this study for the exclusive use of United Property Associates and the Kempton Park Homeowner's Association. Criterium Engineers does not intend any other individual or party to rely upon this study without our express written consent. If another individual or party relies on this study, they shall indemnify and hold Criterium Engineers harmless for any damages, losses, or expenses they may incur as a result of its use.

This study is limited to the visual observations made during our inspection. We did not remove surface materials, conduct any destructive or invasive testing, move furnishings or equipment, or undertake any digging or excavation. Accordingly, we cannot comment on the condition of systems that we could not see, such as buried structures and utilities, nor are we responsible for conditions that could not be seen or were not within the scope of our services at the time of the investigation. We did not undertake to completely assess the stability of the buildings or the underlying foundation soil since this effort would require excavation and destructive testing. Likewise, this is not a seismic assessment.

We did not investigate the following areas:

- Buried utilities or infrastructure
- Concealed structural members or systems

We do not render an opinion on uninvestigated portions of the community.

We did not perform any computations or other engineering analysis as part of this evaluation, nor did we conduct a comprehensive code compliance investigation. This study is not to be considered a warranty of condition, and no warranty is implied. The appendices are an integral part of this report and must be included in any review.

In our Reserve Fund Analysis, we have provided estimated costs. These costs are based on our general knowledge of building systems and the contracting and construction industry. When appropriate, we have relied on standard sources, such as Means Building Construction Cost Data, to develop estimates. However, for items that we have developed costs (e.g.: structural repairs), no standard guide for developing such costs exists. Actual costs can vary significantly, based on the availability of qualified contractors to do the work, as well as many other variables. We cannot be responsible for the specific cost estimates provided.

We have performed no design work as part of this study, nor have we obtained competitive quotations or estimates from contractors as this also is beyond the scope of the project. The actual cost to remedy deficiencies and deferred maintenance items that we have identified may vary significantly from estimates and competitive quotations from contractors.



If you have any questions about this study or the reserve fund analysis, please feel free to contact us. Thank-you for the opportunity to be of assistance to you.

Respectfully submitted,

Criterium Engineers

Appendix A: RESERVE FUND PROJECTIONS

Reserve Fund Study Update Kempton Park, Suffolk, Virginia



### **Reserve Study Worksheet**



### General Information:

1 Organization: Kempton Park HOA
2 Address: 3000 Cheltenham Street

Suffolk, VA 23435

3	Number of Units	268
4	Age of Building (in years)	10
5a	Study Period (in years)	20
5b	Normal Fiscal Year starts:	January 1, 2013
5c	Partial Fiscal Year starts:	January 1, 2013
5d	Partial Year Length:	12 months
6 7	Site Inspection Date	August 23, 2012
7	Reserve Funds at start	\$99,137
8	Rate of Return on invested Reserve Funds (%)	2.5%
9	Inflation Rate (%)	3.0%

### 10 Current Funding Levels

Existing Funding Levels					
Reserve Fund Contribution	P0000000000000000000000000000000000000	Total/Month \$561	Total Annual \$6,735	Per Unit/Month \$2.09	Per Unit/Year \$25.13
	Years Out		Total Annual	Per Unit	
Planned Special Assessment	0		\$0	\$0	
Balance Computed	\$8,903				

### 11 Alternative Reserve Fund Contribution

Alternative 1 Level Funding with Steps					
		Total/Month	Total Annual	Per Unit/Month	Per Unit/Year
Monthly Amount, (First Year)		\$561	\$6,735	\$2.09	\$25.13
Monthly Amount, (Last Year)	*********	\$1,011	\$12,135	\$3.77	\$45.28
Balance Required Final Year	*******	\$13,033			
Special Assessments:	Years Out		Total/Year	Per Unit	
First Assessment	0		\$0	\$0	
Second Assessment	0		\$0	\$0	
Balance Computed	\$73,223				

Alternative 2 Escalating Funding at 5% per Yo	ear				
Monthly Amount, (First Year)  Monthly Amount, (Last Year)  Baiance Required Final Year	******************	Total/Month \$561 \$1,418 \$13,033	Total Annual \$6,735 \$17,019	Per Unit/Month \$2.09 \$5.29	Per Unit/Year \$25.13 \$63.50
Base Escalation %	5.00%				
Special Assessments:	Years Out		Total/Year	Per Unit	
First Assessment	0		\$0	\$0	
Second Assessment	0		\$0	\$0	
Balance Computed	\$112,747				

Alternative 3 Escalating Funding with Special Assessments (Not Used)



## **Itemized Worksheet**

Cipped   C										F	
tring for againal reseal and striping 800 SY \$11.23 \$1,000.00 \$1,433.56 \$5 \$6 \$13.40 \$10.00.00 \$1,000.00 \$1,000.00 \$1,433.56 \$5 \$6 \$13.40 \$10.00.00 \$1,000.00 \$1,000.00 \$1,130.00 \$1,000.00 \$1,130.00 \$1,000.00 \$1,130.0	Capital Item To Be Replaced	Ouentity	Unit cost	Reserve	Beginning	Frequency	Remaining Life (vrs)	Reserve Fundi	ng Required	Funding	a contraction of
ing lot suphial testal and surphing  800 SY \$11.20  81.000.00  81.000.00  81.000.00  82.							200	Month	Things.	Damine	composition control
sing lot suphal overlay  800 SY \$11.30  \$11.50  \$20.000  \$71.51  \$11.50  \$20.000  \$71.51  \$71.52  \$20.000  \$71.51  \$71.52  \$71	Parking tot asphalt reseat and striping	800 SY	\$1.25	\$1,000.00	\$1,433.56	10	0	\$0.00	20.00	\$1,000,00	
rate activity graphic rest curbing repair 15 LF \$20,000 \$500,000 \$500,000 \$500,000 \$716,787 5 5 6 5 0 50,000 \$500,000 \$716,787 5 5 6 5 0 50,000 \$500,000 \$716,787 5 5 6 5 0 50,000 \$500,000 \$716,000 \$716,787 5 5 6 5 0 50,000 \$716,787 5 5 0 5 0 50,000 \$716,000 \$716,787 5 5 0 5 0 5 0 5 0 5 0 5 0 5 0 5 0 5 0	Parking lot asphalt overlay	800 SY	\$11.50	\$9,200.00	\$7,913.26	20	80	\$13.40	\$160.84	\$5,520.00	
trepair sidewalk repair  1 57 55000 \$550000 \$776.76 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	Concrete curbing repair	23 LF	\$20.00		\$627.18	80	-	(\$10.60)	(\$127.18)	\$437.50	
1   25,000.00   \$2,500.00	Concrete sidewalk repair	10 SY	\$50.00	\$500.00	\$716.78	S	0	\$0.00	\$0.00	\$500.00	
1 ca   24,500.00   21,700.00   21,700.00	Major repairs to irrigation system	l sys	\$2,500.00	\$2,500.00	\$2,389.27	5	S	\$1.85	\$22.15	\$1,888.67	
1 ca   \$5,000.00   \$5,000.00   \$5,000.00   \$5,000.00   \$5,000.00   \$5,000.00   \$5,000.00   \$6,192.89   \$25   \$15   \$25.59   \$25.50   \$25	Major repairs/dredging of stormwater ponds	2 8	\$4,500.00	\$13,500.00	\$9,676.54	20	10	\$31.86	\$382.35	\$6,750,00	
Bix e PVC feace at stormwater pond         540 LF         \$20.00         \$10,800.00         \$6,182.98         25         15         \$25.59         \$307.13         \$4,320.00           alse centrate at pool ball and the feace at pool in the feace at pool are pool ball and the feace at fea	Major repairs to shared stormwater pond	8	\$5,000.00	\$5,000.00	\$3,583.90	8	0	\$11.80	\$141.61	\$2,500,00	50% of total cost
Second bare chain link fence at pool   573 LF   525.00   51,300.00   51,500.00   51,700.	teplace PVC fence at stormwater pond	£ 5€	\$20.00	•	\$6,192.98	25	15	\$25.59	\$307.13	\$4,320,00	
car	Replace chain link fence at pool	575 LF	\$25.00		\$8,242.98	25	15	\$34.07	\$408.80	\$5,750.00	
age branched         1 sys         \$1,500.00         \$614.38         7         5         \$14.76         \$177.12         \$428.57           I building painting (interior/cuterior)         20 SQ         \$275.00         \$5,500.00         \$3,942.29         20         10         \$12.98         \$177.12         \$428.57           ang later/sor         ang later/sor         1 sys         \$10,000.00         \$11,946.34         12         2         (\$81.10)         \$177.12         \$428.57           natect pool building months         1 ea         \$4,500.00         \$4,500.00         \$1,946.34         12         2         (\$81.10)         \$80.00.00           I con chilled drinking fountain         1 ea         \$4,500.00         \$4,500.00         \$1,500.00         \$1,576.92         \$15,500.00         \$1,500.00         \$1,500.00         \$1,500.00         \$1,500.00         \$1,500.00         \$1,500.00         \$1,500.00         \$1,600.00 <t< td=""><td>teplace entrance signage</td><td>8 -</td><td>\$1,500.00</td><td></td><td>\$1,791.95</td><td>12</td><td>7</td><td>(\$12.16)</td><td>(\$145.98)</td><td>\$1,250.00</td><td></td></t<>	teplace entrance signage	8 -	\$1,500.00		\$1,791.95	12	7	(\$12.16)	(\$145.98)	\$1,250.00	
1	iguing Exterior That building mainting (interior/exterior)	-	60 60	64 500 00	00 7 700	٠	•				
bace pool building roofing 20 SQ \$275.00 \$5,500.00 \$1,942.29 20 10 \$12.98 \$155.77 \$2,750.00  ***Relation system equipment**	on concerns beautiful (ancillot/caccitor)	8 8 9 8	31,300,00	00.000	40 M	•	n	514 /6	21.//12	4426.57	
1 sys   \$10,000.00   \$11,946.34   12   2   \$451.10   \$4533.33   \$4533.33   \$4530.00   \$4500.00	(eplace pool building roofing Ilding Interior	% 8	\$275.00	\$5,500.00	\$3,942.29	8	5	\$12.98	\$155.77	\$2,750.00	
1 sys   \$10,000.00   \$10,000.00   \$11,946.34   12   2   \$801.10   \$89.33.33   \$89.33.33   \$10,000.00   \$10,000.00   \$11,946.34   12   5   \$13.22   \$13.28   \$13.00.00   \$10,000.00   \$10,000.00   \$15,	chanical										
ca   \$4,500.00   \$4,500.00   \$4,500.00   \$1,576.92   15   \$23.32   \$39.86   \$3,000.00   \$1,500.00   \$1,500.00   \$1,576.92   15   4   \$1,600   \$1,500.00   \$1,032.16   5   3   \$27.33   \$255.26   \$1,032.16   \$1,	leplace pool fitration system equipment	l sys	\$10,000.00	\$10,000.00	\$11,946.34	12	7	(\$81.10)	(\$973.17)	\$8,333,33	
titles  2.100 SF 56.00 \$1.500.00 \$15.052.39 12 (\$102.18) (\$12.02.0) \$1.00.00 \$1.500.00	ond fountain	8	\$4,500.00	\$4,500.00	\$4,300.68	15	ĸ	\$3.32	\$39.86	\$3,000,00	
air and recoal pool surface         2,100 SF         \$6.00         \$12,600.00         \$15,052.39         12         2         (\$102.16)         (\$1,226.20)         \$10,500.00           decking sectional replacement         30 SY         \$6.00         \$1,600.00         \$1,032.16         5         3         \$27.33         \$255.86         \$1720.00           lace playground equipment         1 sys         \$8,000.00         \$6,000.00         \$5,212.96         22         12         \$19.36         \$20.25         \$20.00         \$10.00         \$10.00         \$1,148.85         15         5         \$0.89         \$10.00         \$20.00         \$20.00         \$10.00         \$20.00	ii-lo chilled drinking fountain seulties	8 -	\$1,500.00	\$1,500.00	\$1,576.92	\$t	4	(\$1.60)	(\$19.23)	\$1,100.00	
decking sectional replacement 3 SY S60.00 \$1,000.00 \$1,0	enair and recoat noof curface	2 100 SE	8	£12 BDD DD	£15 0E2 30	ţ	•	(6100 40)	100 000 101	00 002 004	
les professioned in parameters (1) 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	on decking sectional randorsment	3 5	20.05	64 800 00	410,006.38	4 1	4 (	(9102.10)	(07:027)	0.000.01	
ace playground equipment 1 sys \$8,000.00 \$8,000.00 \$5,212.95 \$2 12 \$19.35 \$232.25 \$3,636.36 \$40.80 \$40.00 \$40.000 \$1,146.85 \$12.25 \$19.35 \$232.25 \$3,636.35	or account sections represent	16 00	300.00	00.000	91,032.10	n	7	\$21.33	\$200.BD	\$720.00	Replace 5% every 5 years
Lace exterior bulletin board  1 ea \$1,200.00 \$1,200.00 \$1,148.85 15 \$0.89 \$10.63 \$800.00  25 ea \$1,200.00 \$3,563.90 3 1 \$13.84 \$166.10 \$2,500.00  26 bace pool cover  1 ea \$5,000.00 \$4,479.88 8 3 \$14.45 \$173.37 \$3,125.00  27,750.00 \$3,679.47 15 1 (\$777.46) (\$828.47) \$2,566.67  Totals \$116,975.00 \$99,136.62 (\$65.61) (\$787.29) \$69,154.10	eplace playground equipment	l sys	\$8,000.00	\$8,000.00	\$5,212.95	8	12	\$19.35	\$232.25	\$3,636.36	
Auce pool furniture 25 ca \$150.00 \$3,750.00 \$3,563.90 3 1 \$13.84 \$166.10 \$2,500.00	eplace exterior bulletin board	5	\$1,200.00	\$1,200.00	\$1,146.85	5	KO	\$0.89	\$10.83	\$800.00	
the pool cover 1 ea \$5,000.00 \$5,000.00 \$4,479.88 8 3 \$14.45 \$173.37 \$3,125.00	eplace pool fumiture	25 68	\$150.00	\$3,750.00	\$3,583.90	6	-	\$13.84	\$186.10	\$2,500,00	
li ea \$236.00 \$3,679.47 15 1 (\$77.46) (\$928.47)   Strong tend benches and benches   Totals \$116,975.00 \$99,136.62   Strong tend tend tend tend tend tend tend tend	eplace pool cover	8 -	\$5,000.00	\$5,000.00	\$4,479.88	80	က	\$14.45	\$173.37	\$3,125,00	
Tocals \$116,975.00 \$99,136.62 (\$65.61) (\$787.29)	eplace wood picnic tables and benches	2 =	\$250.00	\$2,750.00	\$3,679.47	15	•	(\$77.46)	(\$929.47)	\$2,566.67	
\$116,975.00 \$99,136.62 (\$65.61) (\$787.29)											
			Totah		\$99,136.62			(\$65.61)	(\$787.29)	\$69,154.10	

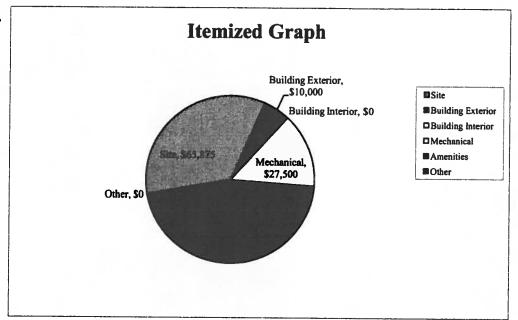
• Costs are typically 10%et •• Reserve study is based on a 20 year projection of non-annual maintenance

Total Over Term \$191,725.00

### **Itemized Graph**



Categories	Totals
Site	\$65,875
<b>Building Exterior</b>	\$10,000
<b>Building Interior</b>	\$0
Mechanical	\$27,500
Amenities	\$88,350
Other	\$0
Total	\$191,725



### **Itemized Funding**



Categories	Reserve Requirement	Beginning Balance	Balance Requiring Funding	Monthly Reserve Funding Required	Annual Reserve Funding Required	Full Funding Balance	Percent Funded
Site	\$65,875	\$42,568	\$23,307	\$96	\$1,150	\$29,694	
Building Exterior	\$10,000	\$4,557	\$5,443	\$28	\$333	\$3,179	
Building Interior	\$0	\$0	\$0	\$0	\$0	\$0	
Mechanical	\$27,500	\$17,824	\$9,676	(\$79)	(\$953)	\$12,433	
Amenities	\$88,350	\$34,188	\$54,162	(\$110)	(\$1,317)	\$23,848	
Other	\$0	\$0	\$0	\$0	\$0	\$0	
Totals	\$191,725	\$99,137	\$92,588	(\$66)	(\$787)	\$69,154	143.4%



# Annual Expense By Year

																	9
	Year: Year Number:	2013	2014	3 3	2016 4	2017	2018 6	2019 7	2020 8	2021 9	202 10	2023	202 <b>4</b> 12	13 202	2026 14	2027 15	2028 16
Site										1	•		•	•	•	ć	8
Parking lot asphalt rescal and striping		000.	•	0	0	0	000.	•	0	•	5	000,1	•	<b>-</b>	•	•	90.
Parking lot asphalt overlay		0	0	0	0	•	0	0	0	9,200	•	0	0	0	0	9	9
Concrete curbing repair		0	200	0	0	0	0	•	0	0	200	0	•	0	•	•	0
Concrete aidwalk renair		200	•	0	0	0	200	•	0	0	0	200	0	0	•	•	200
Major menain to impation system		•	0	0	•	0	2,500	•	•	0	•	0	0	•	•	•	0
Major renaire/dradeing of stormwater nonds		0	0	•	•	0	0	0	0	0	0	13,500	0	0	•	•	0
Major repairs to absend atomicator nand		•	0	0	•	0	0	0	0	0	0	5,000	0	0	•	•	0
Parlace DVC frace at stormwater road		•	•	0	•	0	0	0	0	0	•	0	0	0	0	0	10,800
Denlace chain link fence at nool		•	0	0	0	0	0	0	0	•	•	0	0	0	0	0	14,375
Replace entrance signage		•	•	1,500	0	0	•	0	0	•	0	0	0	0	•	1,500	0
Building Exterior																	
Pool building painting (interior/exterior)		0	0	0	0	0	1,500	0	0	0	•	0	•	1,500	0	•	•
Replace pool building roofing		0	0	0	•	0	0	•	0	0	0	9,500	0	0	0	•	0
Building Interior																	
Mechanical													,		•		
Replace pool fitration system equipment		•	•	10,000	0	0	•	0	•	•	•	•	•	•	•	10,000	•
Pond fountain		0	0	0	•	0	4,500	0	0	0	•	•	•	•	•	0	•
Hi-lo chilled drinking fountain		•	•	0	•	1,500	0	0	•	0	•	•	•	•	0	•	•
Amenities															,	;	•
Repair and recout pool surface		0	0	12,600	•	•	0	0	•	0	•	•	0	0	0	12,600	•
Pool decking sectional replacement		0	0	0	908	0	0	0	0	900	•	•	•	0	1,800	•	0
Replace playground equipment		0	0	•	0	•	•	0	•	•	0	0	•	8,000	•	0	0
Replace extenor bulletin board		•	0	0	•	•	1,200	•	•	0	0	0	•	0	•	•	•
Replace pool furniture		•	3,750	0	•	3,750	•	0	3,750	0	0	3,750	0	0	3,750	0	0
Replace pool cover		•	•	0	5,000	0	0	0	0	•	0	0	2,000	•	•	•	•
Replace wood picnic tables and benches		•	2,750	•	0	0	0	0	0	•	0	•	•	0	•	0	0
Other																	
Total Costs		9051	000	24.100	908'9	878	11,200	•	3,750	11,000	95	29,250	9,000	9,500	5,550	24,100	26,675
Total Costs Adjusted For 3% Inflation		905	7,210	25,568	7,431	\$,909	12,984	•	4,612	13,934	653	39,310	6,921	13,545	8,150	36,453	41,559
						The second second second			The course of								

# Annual Expense By Year

CRITERIUM \*

	Year	2029	2030	2031	2032
	Year Number:	11	<b>8</b> 2	6	70
Site					
Parking lot asphalt rescal and striping		•	•	0	•
Parking lot asphalt overlay		0	0	0	Ī
Concrete curbing repair		0	200	0	0
Concrete sidewalk repair		0	•	0	0
Major repairs to irrigation system		0	0	•	•
Major repairs/dredging of stormwater ponds		•	•	0	0
Major repairs to shared stormwater pond		0	0	•	٥
Replace PVC fence at stormwater pond		0	0	0	0
Replace chain link fence at pool		0	•	0	•
Replace entrance signage		0	0	0	•
Building Exterior					
Pool building painting (interior/exterior)		0	0	0	1,500
Replace pool building roofing		•	0	•	•
Building Interior					
Mechanical					
Replace pool fitration system equipment		•	0	0	0
Pond fountain		•	0	•	•
Hi-lo chilled drinking fountain		0	0	•	1,500
Amenities					
Repair and recoat pool surface		0	0	0	_
Pool decking sectional replacement		0	0	1,800	Ĭ
Replace playground equipment		0	0	•	•
Replace exterior bulletin board		0	•	•	•
Replace pool furniture		3,750	0	•	3,750
Replace pool cover		•	•	0	2,000
Replace wood picnic tables and benches		2,750	•	0	0
Other					
Fotal Costs		905	98	1.800	11,750
Fotal Costs Adjusted For 3% Inflation		10,431	826	3.064	20.604



Year	Year Number	Beginning Reserve Fund Balance	Fee Revenue	Special Assessments	Investment Earnings	Capital Expenditures	Ending Balance
2013	1	\$99,137	\$6,735	\$0	\$2,609	\$1,500	\$106,981
2014	2	\$106,981	\$6,735	\$0	\$2,663	\$7,210	\$109,169
2015	3	\$109,169	\$6,735	\$0	\$2,258	\$25,568	\$92,594
2016	4	\$92,594	\$6,735	\$0	\$2,297	\$7,431	\$94,196
2017	5	\$94,196	\$6,735	\$0	\$2,376	\$5,909	\$97,398
2018	6	\$97,398	\$6,735	\$0	\$2,279	\$12,984	\$93,428
2019	7	\$93,428	\$6,735	\$0	\$2,504	\$0	\$102,667
2020	8	\$102,667	\$6,735	\$0	\$2,620	\$4,612	\$107,409
2021	9	\$107,409	\$6,735	\$0	\$2,505	\$13,934	\$102,715
2021	10	\$102,715	\$6,735	\$0	\$2,720	\$652	\$111,518
2022	11	\$111,518	\$6,735	\$0	\$1,974	\$39,310	\$80,917
2023	12	\$80,917	\$6,735	\$0	\$2,018	\$6,921	\$82,749
2025	13	\$82,749	\$6,735	\$0	\$1,898	\$13,545	\$77,838
2025	14	\$77,838	\$6,735	\$0	\$1,911	\$8,150	\$78,333
2020	15	\$78,333	\$6,735	\$0	\$1,215	\$36,453	\$49,830
2027	16	\$49,830	\$6,735	\$0	\$375	\$41,559	\$15,381
	17	\$15,381	\$6,735	\$0	\$292	\$10,431	\$11,978
2029	18	\$13,381 \$11,978	\$6,735 \$6,735	\$0	\$447	\$826	\$18,333
2030	19	\$11,978	\$6,735	\$0	\$550	\$3,064	\$22,554
2031 2032	20	\$16,535 \$22,554	\$6,735	\$0	\$217	\$20,604	\$8,903



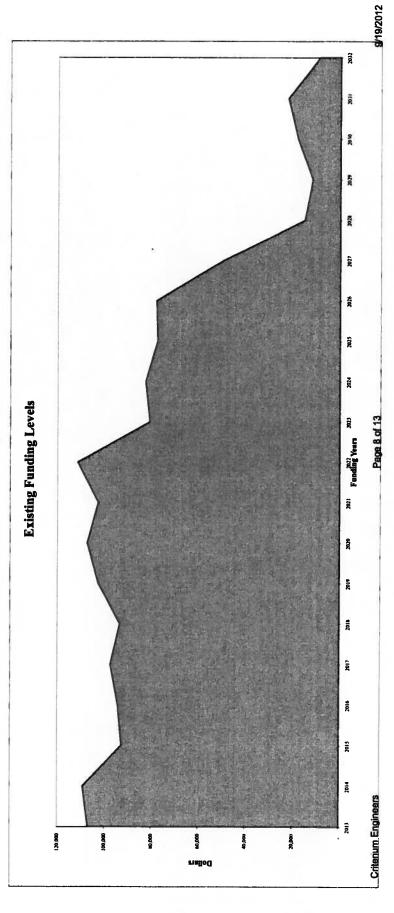
### Existing Funding Levels Begnaing Balance as of start of year beginning Jan 2013: \$99,137

CONTRIBUTIONS	OUNT	\$6,735.00 per year	\$25.13 per unit per year	\$561.25 per month	\$2.09 ner unit ner month
	AMOUNT	\$6.73	\$2	\$56	U

		20
IAL ASSESSMENTS	Totals	So Per Unit
SPECIA		Per Year

\$2.09 per unit per month	outh													
Projected Annual Funding and Expenditures:	yenditures:													
Year.	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Year Number:	-	7		4	٠,	9	7	œ	6	0	=	12	2	4
End of Year Reserve Fund Balance	106,981	109,169	92,594	94,196	97,398	93.428	102,667	107.409	102.715	111.518	80.917	82.749	77 838	78 333
Capital Expenditures:	1,500	7,210	25,568	7,431	5,909	12,984	•	4.612	13.934	652	39.310	6 921	13 545	8.150
Total Revenue (all sources)	9,344	9,398	8,993	9,032	9,111	9.014	9,239	9,355	9,240	9,455	8,709	8,753	8,633	8,646
Year.	2028	2029	2030	2031	2032									
Year Number:	91	11	82	61	70									
End of Year Reserve Fund Balance	15,381	11,978	18,333	22.554	8,903									
Capital Expenditures:	41,559	10,431	826	3,064	20,604									
Total Revenue (all sources)	7,110	7,027	7,182	7,285	6,952									

2027 15 49,830 36,453 7,950



### Alternative 1: Level Funding with Steps



		<b>V</b>	Beginning	<b>.</b>	6	0			
	<b>V</b>	Year	Reserve Fund	Fee	Special	Special	Investment	Capital	Ending
_	Year	Number	Balance	Revenue	Assessments 1	Assessments 2	Earnings	Expenditures	Balance
	2013	1	\$99,137	\$6,735	\$0	\$0	\$2,609	\$1,500	\$106,981
	2014	2	\$106,981	\$6,735	\$0	\$0	\$2,663	\$7,210	\$109,169
	2015	3	\$109,169	\$7,335	\$0	\$0	\$2,273	\$25,568	\$93,209
	2016	4	\$93,209	\$7,335	\$0	\$0	\$2,328	\$7,431	\$95,442
	2017	5	\$95,442	\$7,935	\$0	\$0	\$2,437	\$5,909	\$99,904
	2018	6	\$99,904	\$7,935	\$0	\$0	\$2,371	\$12,984	\$97,227
	2019	7	\$97,227	\$8,535	\$0	\$0	\$2,644	\$0	\$108,406
	2020	8	\$108,406	\$8,535	\$0	\$0	\$2,808	\$4,612	\$115,137
	2021	9	\$115,137	\$9,135	\$0	\$0	\$2,758	\$13,934	\$113,096
	2022	10	\$113,096	\$9,135	\$0	\$0	\$3,039	\$652	\$124,618
	2023	11	\$124,618	\$9,735	\$0	\$0	\$2,376	\$39,310	\$97,420
	2024	12	\$97,420	\$9,735	\$0	\$0	\$2,506	\$6,921	\$102,739
	2025	13	\$102,739	\$10,335	\$0	\$0	\$2,488	\$13,545	\$102,018
	2026	14	\$102,018	\$10,335	\$0	\$0	\$2,605	\$8,150	\$106,808
	2027	15	\$106,808	\$10,935	\$0	\$0	\$2,032	\$36,453	\$83,321
	2028	16	\$83,321	\$10,935	\$0	\$0	\$1,317	\$41,559	\$54,015
	2029	17	\$54,015	\$11,535	\$0	\$0	\$1,378	\$10,431	\$56,497
	2030	18	\$56,497	\$11,535	\$0	\$0	\$1,680	\$826	\$68,886
	2031	19	\$68,886	\$12,135	\$0	\$0	\$1,949	\$3,064	\$79,906
	2032	20	\$79,906	\$12,135	\$0	\$0	\$1,786	\$20,604	\$73,223



Alternative 1: Level Funding with Steps Begianing Bahases as of start of year begianing Jan 2013: 599,137

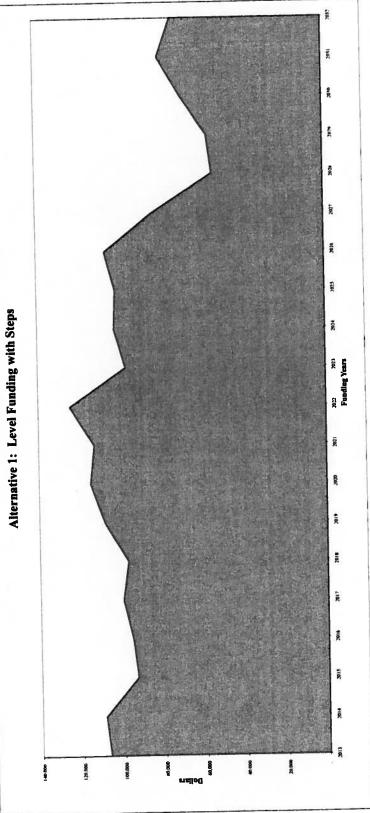
	i		Second		
CONTRIBUTIONS	LAST YR	\$12,135.00 per year	\$45.28 per unit per year	\$1,011.25 per month	\$3.77 per unit per month
	FIRST YR	\$6,735.00	\$25.13	\$561.25	\$2.09

AL ASSESSMENT	SMENTS		SELLINGS (BER
	Totals		Starting amount (5):
r Year	So Per Unit	os S	Increment by (5):
r Vear	So Per Unit	os S	Every
			Frequency:

_	_			٦
'ear)			year	time
yzed by y	561.25	20	7	2
SETTINGS (analyzed by year)	arting amount (5):	Increment by (S):	Every	Frequency:
	Sta			

CONTRIBILITIONS	SNOL		L		SP	SPECIAL ASSESSMENTS	SMENTS				Camping am	ofter amount (6):	561.25	
FIRST YR LAST WE S6,735.00 \$12,135.00 per year	T YR 135.00 per year			First		Per Year Per Year	Totals S0 S0	Per Unit Per Unit	88		Increment by (5):  Every	nent by (S): Every	2 2 2 2	year
\$1.0	Si,011.25 per month S3.77 per unit per month	south	j							J				
Projected Annual Funding and Expenditures: Year: Year Vannber: Ford Van Reserve Fund Balance 106,97 Capital Expenditures: Total Revenue (all sources) 9,3	penditures: 2013 1 106,981 1,500 9,344	2014 2 109,169 7,210 9,398	2015 3 93,209 25,568 9,608	2016 4 95,442 7,431 9,663	2017 5 99,904 5,909 10,372	2018 6 97,227 12,984 10,306	2019 7 108,406	2020 8 115,137 4,612 11,343	2021 9 113,096 13,934 11,893	2022 10 124,618 652 12,174	2023 11 97,420 39,310 12,111	2024 12 102,739 6,921 12,241	2025 13 102,018 13,545 12,823	2026 14 106,808 8,150 12,940
Year: Year Number: Fed of Year Reserve Fund Balance Capital Expenditures: Total Revenue (all sources)	2028 16 54,015 41,559 12,252	2029 17 56,497 10,431 12,913	2030 18 68,886 826 13,215	2031 19 79,906 3,064 14,084	2032 20 73,223 20,604 13,921									

2027 15 83,321 36,453 12,967





Year	Year Number	Beginning Reserve Fund Balance	Fee Revenue	Special Assessments 1	Special Assessments 2	Investment Earnings	Capitai Expenditures	Ending Balance
2013	1	\$99,137	\$6,735	\$0	\$0	\$2,609	\$1,500	\$106,981
2013	2	\$106,981	\$7,072	SO	\$0	\$2,671	\$7,210	\$109,514
2015	3	\$109,514	\$7,425	\$0	\$0	\$2,284	\$25,568	\$93,656
2015	4	\$93,656	\$7,797	\$0	\$0	\$2,351	\$7,431	\$96,372
2017	5	\$96,372	\$8,186	\$0	\$0	\$2,466	\$5,909	\$101,116
2017	6	\$101,116	\$8,596	\$0	\$0	\$2,418	\$12,984	\$99,146
2019	7	\$99,146	\$9,026	\$0	\$0	\$2,704	\$0	\$110,876
2019	8	\$110,876	\$9,477	\$0	\$0	\$2,894	\$4,612	\$118,634
2020	9	\$118,634	\$9,951	\$0	\$0	\$2,866	\$13,934	\$117,517
2021	10	\$117,517	\$10,448	\$0	\$0	\$3,183	\$652	\$130,495
2022	11	\$130,495	\$10,971	\$0	\$0	\$2,554	\$39,310	\$104,710
2023	12	\$104,710	\$11,519	\$0	\$0	\$2,733	\$6,921	\$112,041
2024	13	\$112,041	\$12,095	\$0	\$0	\$2,765	\$13,545	\$113,356
2025	14	\$113,356	\$12,700	\$0	\$0	\$2,948	\$8,150	\$120,853
	15	\$120,853	\$13,335	\$0	\$0	\$2,443	\$36,453	\$100,178
2027	16	\$100,178	\$14,002	\$0	\$0	\$1,816	\$41,559	\$74,436
2028		\$74,436	\$14,702	\$0	\$0	\$1,968	\$10,431	\$80,675
2029	17	\$80,675	\$15,437	\$0	\$0	\$2,382	\$826	\$97,668
2030	18		\$16,209	\$0	\$0	\$2,770	\$3,064	\$113,582
2031 2032	19 20	\$97,668 \$113,582	\$17,019	\$0	\$0	\$2,750	\$20,604	\$112,747



Alternative 2: Escalating Funding at 5% per Year Beginning Balance as of start of year beginning 320 2013: 599,137

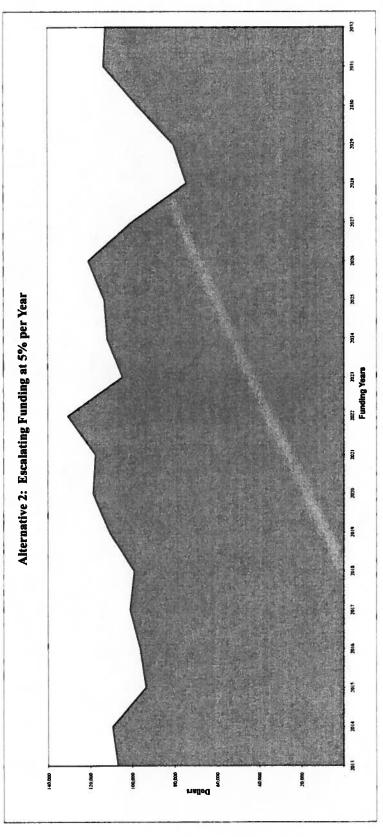
	CONTRIBUTIONS		SPECIAL A
FIRST VR	LAST YR		
\$6,735.00	\$17,019.01 per year	First	Per Ye
\$25.13	563.50 per unit per year	Second	Per Ye
\$561.25	\$1,418.25 per month		
\$2.09	\$5.29 per unit per month		

AL ASSESSMENT	SMENTS			SETTING
	Total	als.		Starting amoun
r Year	8	Per Unit	22	Increment by
r Year	S	Per Unit	20	Step
				The same

SETTINGS (analyzed by year) Starting amount (\$): 561.25 Increment by (%): 5 Step (%): Every 1 year Frequency: 20 time						_
SETTINGS (analyzed by ) Starting amount (5): 561.25 Increment by (%): 5 Step (%): Every 1 Frequency: 20	(car)				year	time
SETTINGS (and Starting amount (5): Increment by (%): Step (%): Every Frequency:	lyzed by y	561.25	٧.		-	20
	SETTINGS (and	Starting amount (5):	Increment by (%):	Step (%):	Every	Frequency:

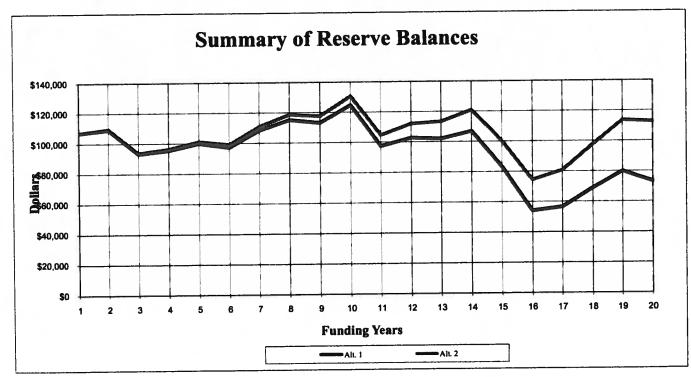
	CONTRIBUTIONS	SNC				SPE	SPECIAL ASSESSMENTS	SSMENTS				25	INGS (SIMIL	yzed by year	-
FIRST VR	LAST YR							Total	.5			Starting an	10unt (S):	561.25	
\$6,735.00	\$17,019.01 per year	r year			First		Per Year	05	Per Unit	22		Incremen	t by (%):	۰	
\$25.13	563.50 per unit per y	Ę	/ear		Second		Per Year	\$0	Per Unit	S		Step (%):	Step (%):		
\$561.25	\$1,418.25 per month	r month											Every	× -	year
\$2.09	\$5.29 per	\$5.29 per unit per month	lonth								لـ	=	Frequency:	20 ti	ğ
Projected Assual	Projected Annual Funding and Expenditures:	ditures:		ļ	;					į		, 000	, ,	3000	) euc
Year.		2013	2014	2015	2016	2017	2018	2019	2020	202	7077	2023	707	5707	9707
Year Number		-	2	m	4	•	•	7	œ	•	2	=	22	2	4
End of Year Reserve Fund Balance	e Fund Balance	106,981	109,514	93,656	96.372	101,116	99,146	110,876	118,634	117,517	130,495	104,710	112,041	113,356	120,853
Capital Expenditures:	u	1,500	7,210	25,568	7,431	8'606	12,984		4,612	13,934	652	39,310	6,921	13,545	8,150
Total Revenue (all sources)	ources)	9,344	9,743	9,710	10,147	10,653	11,014	11,730	12,370	12,817	13,631	13,525	14,252	14,860	15,647
Year		2028	2029	2030	2031	2032									
Year Number:		91	1	<u>se</u>	2	20									
End of Year Reserve Fund Balance	e Fund Balance	74,436	80,675	899'46	113,582	112,747									
Capital Expenditures.		41,559	10,431	826	3,064	20,604									
Total Revenue (all sources)	(counces)	15,817	16,669	17.819	18,979	19,769									

2027 15 100,178 36,453 15,778





	Year	Yearly	A14. 1	A14 2
<u>Year</u>	<u>Number</u>	Expenditures	<u>Alt. 1</u>	Alt. 2
2013	1	\$1,500	\$106,981	\$106,981
2014	2	\$7,210	\$109,169	\$109,514
2015	½ <b>3</b>	\$25,568	\$93,209	\$93,656
2016	4	\$7,431	\$95,442	\$96,372
2017	5	\$5,909	\$99,904	\$101,116
2018	6	\$12,984	\$97,227	\$99,146
2019	7	\$0	\$108,406	\$110,876
2020	8	\$4,612	\$115,137	\$118,634
2021	9	\$13,934	\$113,096	\$117,517
2022	10	\$652	\$124,618	\$130,495
2023	11	\$39,310	\$97,420	\$104,710
2024	12	\$6,921	\$102,739	\$112,041
2025	13	\$13,545	\$102,018	\$113,356
2026	14	\$8,150	\$106,808	\$120,853
2027	15	\$36,453	\$83,321	\$100,178
2028	16	\$41,559	\$54,015	\$74,436
2029	17	\$10,431	\$56,497	\$80,675
2030	18	\$826	\$68,886	\$97,668
2031	19	\$3,064	\$79,906	\$113,582
2032	20	\$20,604	\$73,223	\$112,747



Appendix B: PROJECT PHOTOGRAPHS

Reserve Fund Study Update Kempton Park, Suffolk, Virginia CRITERIUM

Photos Taken by: Robert C. Giles, PE

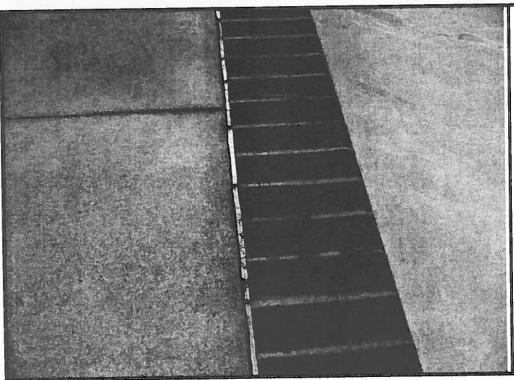
**Date:** August 23, 2012





Description:
View of swimming pool and pool building

Photo Number



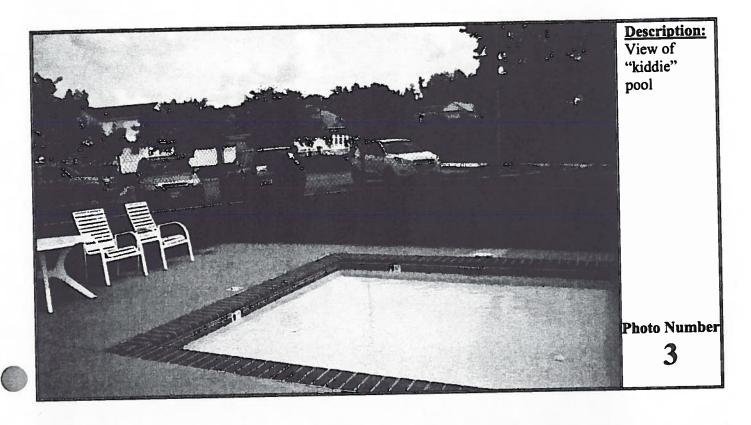
Description:
Caulk deteriorating at tile to concrete deck joint

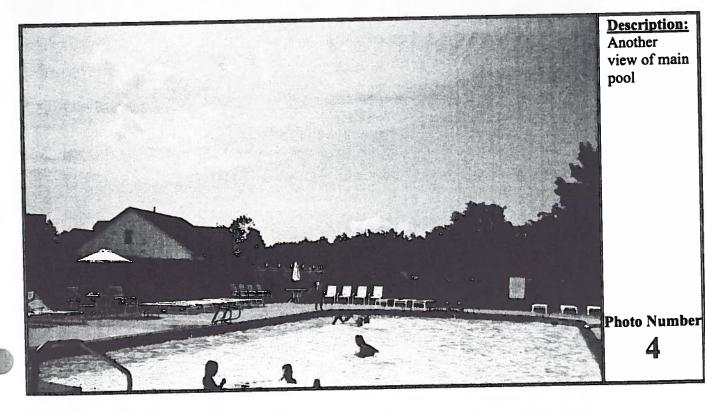
Photo Number

2

Photos Taken by: Robert C. Giles, PE **Date:** August 23, 2012

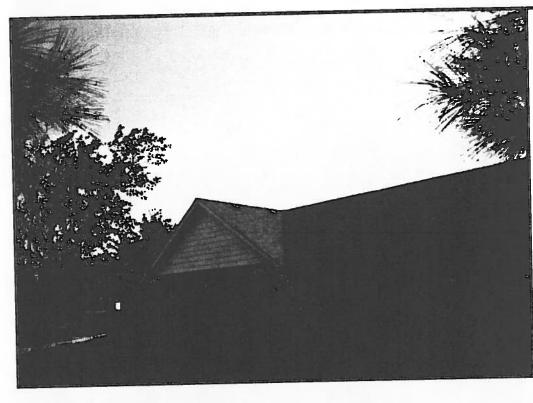






Photos Taken by: Robert C. Giles, PE **Date:** August 23, 2012





Description: View of pool building roof

Photo Number 5



Description:
Another view of pool building roof and siding

Photos Taken by: Robert C. Giles, PE **Date:** August 23, 2012

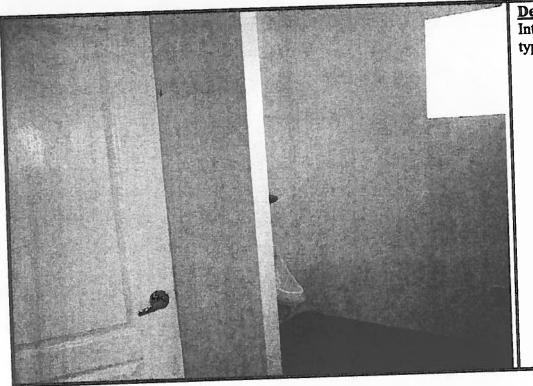




Description:
Note door leading to restrooms, benches and water fountain in open area under pool building roof

Photo Number

7



### Description: Interior view of typical rest room

**Photo Number** 

8

Photos Taken by: Robert C. Giles, PE

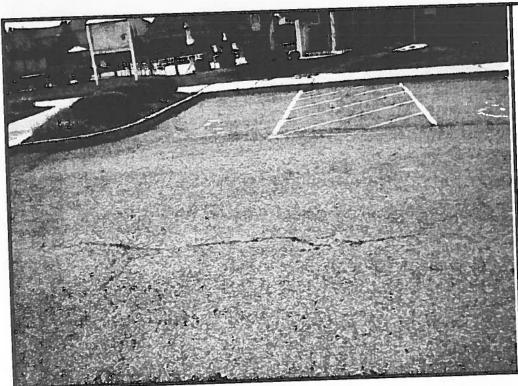
Date: August 23, 2012





Description:
View of pool
filtration equipment

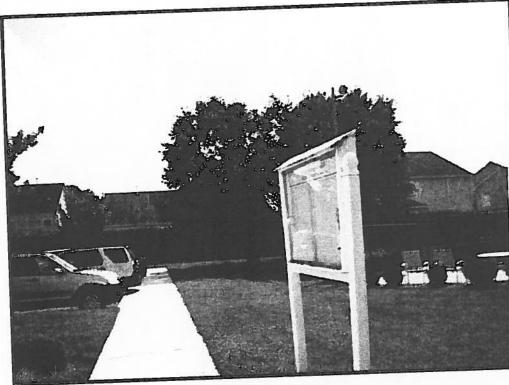
Photo Number



**Description:**Note cracking in pool parking lot

Photos Taken by: Robert C. Giles, PE Date: August 23, 2012





**Description:**View of sidewalks leading to pool and bulletin board

> Photo Number 11



Description:
Sprinkler system controls at rear of brick monument

Photos Taken by: Robert C. Giles, PE **Date:** August 23, 2012





Description:
View of
community
entrance signage
near pool

Photo Number



Description: View of small park and playground equipment

Photos Taken by: Robert C. Giles, PE Date: August 23, 2012





Description:
Stormwater pond and PVC fence at Kelso Street and Kempton Park Rd

> **Photo Number** 15



Description:
Stormwater pond across from 3015

Kempton Park Rd.

Photos Taken by: Robert C. Giles, PE

**Date:** August 23, 2012





Description:
Pond with fountain between subject neighborhood and adjacent community

Photo Number 17



Description:
Stormwater pond
near 5000 Kelso

Appendix C: PROFESSIONAL QUALIFICATIONS

Reserve Fund Study Update Kempton Park, Suffolk, Virginia



### PROFESSIONAL QUALIFICATIONS AND EXPERIENCE ROBERT C. GILES, P.E.

### Area of Expertise

As President of Criterium-Giles Engineers, prepares reserves studies for HOA's, performs PCA's and Phase I Environmental Site Assessments for commercial properties and directs the efforts of staff on civil/structural designs and residential structural assessments.

### Qualifications

Principal Engineer, PCA Development, El, Inc. Performed over one thousand property condition assessments and environmental assessments on commercial, retail, industrial, multi-family and historic properties.

Significant recent property condition assessments include, (1) circa 1900 Woolworth building in Durham, NC conducted for the City of Durham, (2) 20-story tower in Durham for the Dilweg Companies, (3) 26story Meidenger Tower in Louisville Kentucky, (4) circa 1927 Buckeye Building (16-sotry) in Columbus Ohio and (5) Two office towers in Winston Salem, NC for GMAC Insurance.

Project Manager, Plant retrofit modifications, Black & Veatch and life extension studies on large commercial and industrial facilities.

Project Manager, Brunswick Plant modifications, Halliburton-NUS Corporation

Mechanical Design Manager, Duke Power Company Performed life extension studies on power plant equipment and structures.

### **Education and Affiliations**

Duke University, Durham, NC, Bachelor of Science, Engineering American Society of Mechanical Engineers Professional Engineering Registrations: North Carolina - No. 12579 South Carolina - No. 11016 - No. 031934 Virginia

### Kempton Park

Thu 9/20/2012 1:50 PM

From: Peter Hollander

To: arawlings@unitedproperty.org

Cc: Cam Grant

### Dear Angela:

Attached is our reserve study for Kempton Park. Please let me know if you have any questions, or if you require a hard copy of the report. Our invoice for the balance due is being sent to you under separate cover. It has been a pleasure working with you. I hope you will call on us again for other associations you are managing. Best regards

Peter

Peter E. Hollander
Senior Vice President
Criterium Engineers
22 Monument Sq., Ste. 600, Portland, ME 04101
P 800-242-1969 x112
C 207-232-5783
F 207-775-4405
peter@criterium.net
www.criterium-commercial.com

### BUILDING INSPECTION ENGINEERS PROUDLY SERVING NORTH AMERICA SINCE 1957



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