

Crossroads Farm

Frederick Road, Penn Laird, VA 22801



CAPITAL RESERVE STUDY & FINANCIAL ANALYSIS Executive Summary

revised Final Study

2022

Executive Summary

revised Final Study

Date: 9/15/2022

DMA Project #2204012

Prepared for: Crossroads Farm

Managed by: Rocktown Realty

Contact

Ashley Craig

ashley@rocktownrealty.com

(540) 705-7080

218 E Market St

Harrisonburg, VA 22801

Capital Reserve Study Level II

Prepared by: Mordechai Abada

DMA Reserves, Inc.

2302 E Cary Street

Richmond, Virginia 23223

804.644.6404

DMAreserves.com

Welcome to NAVIGATOR™ - DMA's Interactive Reserve Study

Thank you for retaining DMA Reserves Inc. to prepare this Capital Reserve Analysis and Report. This report and the accompanying supplemental reports have been prepared using NAVIGATOR™, DMA's proprietary operating system that combines our extensive database of reserve component information, national cost data, continually updated inflation indices and client-specific information with the industry's most powerful data analysis tools. NAVIGATOR™ is a robust tool to evaluate your reserves today and in the future to steer your funding plan through the ever-changing real-life conditions that affect your community over time.

To give you the maximum value of this tool, DMA conducts live working sessions with management and community leaders in an online format, which is included in our project fee, or in an in-person format for a small additional cost which is stated in our proposal. During these sessions all aspects of the analysis are open to discussion, correction, and modification in real time along with real-time alternate funding scenarios. This tool will give you greater power, knowledge and control over your community's capital reserve budgets.

You should review your reserve expenditures and funding plan at least annually as part of the annual budgeting process, but also at any time that significant changes are made or anticipated to be made to the reserve account. At any time, you may contact DMA to update the study based on any actual capital component replacements that you have made or expect to make, and to make corresponding adjustments to the funding plan. We provide this service on an hourly fee basis. As part of these adjustments, DMA will update all of our component cost and useful life estimates, as well as the current inflation rate and your current interest or income rates.

DMA recommends that this analysis be updated every five (5) years at a minimum. The five-year update will include a site visit to re-inspect the components, evaluate their condition and their remaining life, add any new observed components and delete any that have been removed. We will also update the unit costs, inflation, interest and threshold factors and revise the funding model. Fees for these updates, also called Level II reserve studies, are determined at time that you request the update. DMA will provide a new proposal for this work.

It is important that you keep a record of each reserve expenditure made by the community. We recommend that you keep copies of all purchase orders, invoices, work contracts, specifications, warranty information, etc. that can provide accurate information on your replacement history, costs and future replacement expectations for each component. Periodic updating of this report with recorded reserve expenditures and dates will create an actual history of your community's reserve activity, which is the best predictor of future needs.

Thank you again for the opportunity to provide you with this analysis.



Douglas L. Greene, RS, NCARB
President, DMA Reserves, Inc.

CONTENTS OF THIS REPORT

Section	Page
Purpose of the Reserve Study	1
Governing Statutes	2
Personnel and Project Information	3
Reserve Study History	4
Reserve Study Updates	5
The Physical Analysis	6
Summary Schedule of Components	11
Reserve Expenditures by Year (First 5 years)	19
The Financial Analysis	23
Financial Summary	27
DMA Cash Flow Funding Plan	28
DMA Assessment Allocation Model	31
Standards, Limitations, Conditions, Disclosure and Restrictions	32

ADDITIONAL SEPARATE FILES PROVIDED

Detailed Schedule of Components

- includes detail information about quantities, locations, lifecycle projections, client historical cost data, comments from DMA staff and estimated replacement costs for all components. All cost projections are in current values.

Expenditures by Year for Entire Study Period

- includes budgeted expenditures per year in total and by component. All costs are in future values based on the inflation rate used in the study.

Photographic Record

- digital folder of all photographs taken on site (provided with the Final Report).

Purpose of the Reserve Study

Your community contains capital improvements (assets) including infrastructure and amenities that are owned in common by all property or unit owners. Your owners' association is responsible for replacing these assets when they wear out or become unusable. A capital reserve account is a savings account designed specifically to accumulate funds for eventual replacement of your commonly owned assets when they reach the end of their useful lives. Funds in this dedicated account can be accumulated over a period of many years without being taxed, however they can only be used for the repair or replacement of capital assets. They cannot, for example, be returned to the operating account without the Association paying a penalty. Each capital asset is referred to in this study as a component of your Capital Reserves. All components eventually need to be replaced in full or in part, although they may normally function for 10, 20, 30 years, or longer. Regular operating and maintenance budgets do not cover the funding required for these needs. This capital reserve study looks at various ways to adequately fund your reserves.

A reserve study is a funding plan - not a maintenance schedule. This study is a general predictor for replacement of components however it is not a required maintenance or replacement schedule. Specific decisions about replacement of each component should be made by Management and the Board based on this information and on a periodic assessment of the actual condition of each component.

A reserve study is also not an engineering study. A reserve study is geared toward evaluating when a component needs to be replaced and how much it will cost to replace. It is not an in-depth engineering assessment of the component's functional operation, defects or design. Our company is staffed with construction professionals – architects, engineers and designers who understand the general nature of all of the components listed, however in-depth assessments of specific components is outside the scope of the reserve analysis. Where clients have specific questions or concerns about the condition, operation or suitability of specific components to their purpose, they should retain the services of specialized consultants who can provide such assessments. DMA may recommend such additional studies for specific components when our observations warrant.

Governing Statutes

Virginia

Updated on: 9/12/2022

Associations must conduct a reserve study at least once every five years to determine the necessity and amount of reserves required to repair, replace and restore the common elements or capital components. The board of directors must review the study at least annually and make adjustments as the board determines to keep the funding of reserves sufficient. The statutory provisions on reserves also include requirements for the contents of the association budget if reserves are determined to be a necessity. [Section 55.1-1965.](#)

Resale certificates must include the current reserve study report or a summary thereof, a statement of the status and amount of any reserve or replacement fund and any portion of the fund designated for any specified project by the association. [Section 55.1-1991.](#)

NOTE: This information is provided by Community Associations Institute© (www.caionline.org) and is intended for general educational and informational purposes only; it may not reflect the most recent developments, and it may contain errors or omissions. The publisher does not warrant or guarantee that the information contained here complies with applicable law of any given state. It is not intended to be a substitute for advice from a lawyer, community manager, accountant, insurance agent, reserve professional, lender, or any other professional.

Crossroads Farm

Personnel and Project Information

Community Size (Number of Units): 299**Year(s) constructed:** 2004**Unit Types:** Single Family Homes**Year converted:**

This study was prepared by Mordechai Abada NCARB, a Reserve Analyst, and was reviewed by Douglas Greene, AIA, RS, a Reserve Specialist. Both, Mr. Greene and Mr. Abada, hold a Bachelor of Architecture degree from Kent State University.

The field survey, inventory, and condition assessment was conducted by Mordechai Abada, a Reserve Analyst

DMA was awarded the contract on 4/26/2022

DMA conducted site visits at the property on 5/11/2022.

Photographs were taken at the site and a digital folder can be provided upon request at the completion of the project.

In addition to the on-site review of components, DMA also reviewed the following information provided by the client:

annual_budget_comparative-20210701 (1).pdf

annual_budget_comparative-20211201.pdf

balance_sheet-20220503 (1).pdf

balance_sheet-20220503.pdf

Crossroad Farm Master Plan.jpg

Re_ Crossroads Farm_ Request for Additional Information (1).msg

Re_ Crossroads Farm_ Request for Additional Information.msg

Crossroads Farm

Reserve Study History

Previous Study

This Analysis

Study Year:	2017	Study Year:	2022
Prepared by:	DMA Reserves, Inc.	Prepared by:	DMA Reserves, Inc.
Analysis Method:	Cash Flow	Analysis Method:	Cash Flow
Total Number of Components Included:	100	Total Number of Components Included:	73
Est. Single Replacement Value of All Components:	\$443,455	Est. Single Replacement Value of All Components:	\$1,248,986
Study Date Balance of Reserve Account:	\$396,176	Study Date Balance of Reserve Account:	\$566,238
Study Period (Years):	30	Study Period (Years):	30
Did the analysis incorporate an inflation projection?	Yes	Did the analysis incorporate an inflation projection?	Yes
If "yes," what inflation factor was used?	1.00%	If "yes," what inflation factor was used?	Variable Rate: See Chart
Is Investment Income from Reserves put back into the Account?	No	Is Investment Income from Reserves put back into the Account?	Yes
Recommended transfer to Reserves – Second Year:	\$54,346	Recommended transfer to Reserves – Second Year:	\$61,058
Initial Transfer Change Rate (+/-)	1.00%	Initial Transfer Change Rate (+/-)	4.10%

Comments

Reserve Study Updates**revised Final Study****Published on: Thursday, September 15, 2022**

This is the Final Report of your reserve study. The reporting package includes three (3) reports of which this Executive Summary is the primary report. In this report you will find an adjusted funding plan based on a Cash Flow analysis, narrative information on how the study is conducted, a five-year expenditure plan, and a summary schedule of all components observed at the site and included in the analysis.

Based on the current financial information and updated Schedule for Replacement Components, the Community would be able to maintain a bank balance above the Threshold on the Reserve Account (yellow horizontal line on the Reserve Funding Navigator Graph) for the full 30-year Study Period by maintaining the contribution at the current \$58,653, by maintaining the annual reserve contribution change rate at 4.1% through the remainder of the Study Period. This scenario will ensure future costs are funded above the Threshold on the Reserve Account through nearly all years of the 30-year study period. This is one solution; replacement Schedules and costs can be adjusted and other funding scenarios explored during the Working Session.

The Physical Analysis

RESERVE COMPONENTS DEFINED

A Reserve Component is defined as a specific project to replace, refurbish or significantly repair one or more capital assets in a specific location or in multiple locations on the property. Capital assets may include all types of property improvements which are owned by the owners Association, or for which the Association is required by the Declaration to provide maintenance. Examples would include any private roads, parking lots, sidewalks, paved trails, lakes, dams, swimming pools, tennis courts, playgrounds, clubhouses, etc., that make up the common area or shared amenities of the community. Other capital assets may include clubhouse or pool furniture, maintenance equipment and vehicles, or other miscellaneous assets like pumps, motors, generators, etc.

In condominiums, cooperatives and some HOA's capital assets can include certain exterior components of individual units or buildings containing units, as identified in the governing documents. Some capital assets may also be classified as limited common elements of individual homes or lots, such as driveways, patios, decks, siding and roofing. A limited common element may be owned by one unit-owner but maintained by the association, or used only by a limited group of owners and maintained by the association.

In large condominium buildings capital assets will include interior common areas – lobbies, halls, elevators, party rooms, etc., and common building equipment such as boilers, chillers, water pumps, generators, trash compactor and the like.

This study will also include any components related to hidden capital assets (within a structure or underground) which cannot be viewed or quantified by visual observation when we feel that replacement or significant capital repair activities will be required over the life of the asset. Such components may be listed as an "allowance" for costs related to potential repair or partial replacement projects.

This study may also include components with estimated useful lives and remaining lives that exceed the default 30-year study period. The cash flow financial analysis can be adjusted at any time (including during working sessions) to capture long-life components and examine their impact on reserve funding. DMA studies can be published with a study period of any time frame from 20 years to 50 years at the request of the client.

NAVIGATOR™ uses two descriptors to define individual components – a component name and a component location. These descriptors can be used interchangeably to identify the capital asset. In some cases, a specific project such as "mill and resurface asphalt" will be the component name and "Center Street" will be both the asset name and the asset location. In other cases, the asset, such as "split-system heat pump" will be the component name (meaning replacement of the split-system heat pump), and "Clubhouse" will be the location. Use of the asset name as the component name will always mean complete replacement of that asset unless otherwise noted.

MINIMUM CRITERIA FOR RESERVE COMPONENTS

DMA reserve studies do not set minimum criteria for reserve components. We prefer to leave the decision to include components up to the Reserve Specialist first, and then up to review by the client. We believe that arbitrary limits can potentially leave out components that may have significant impacts on association budgets and thus, diminish the effectiveness of the reserve analysis to predict funding needs. We can include minimum criteria upon request by the client. The two typical minimum limits are:

Keep in mind that all assets that an association owns and that need replacement, will be replaced with association funds – either from the reserve account or the operating account. DMA puts as many assets as possible in the reserve account so that they can be tracked over time in the reserve analysis. The operating account typically does not have this capability.

- ❖ Minimum dollar value (current dollars). For example, a client may ask that we not include any components with replacement costs less than \$1,000, \$5,000, etc.
- ❖ Minimum estimated useful life (EUL). For example, a client may ask that we not include any components with an EUL of less than 3 years.

Crossroads Farm

COMPONENT ASSEMBLIES AND RELATED COMPONENTS

Related components that may, of necessity, be replaced at the same time may be grouped into Assemblies. The Assembly is then the line-item component in our main Schedule of Components. Any sub-component included in an assembly can be pulled out of that assembly and listed separately if it is replaced individually.

Similarly, small components that may be too insignificant to track in the reserve study but which may likely be replaced as a group, will be combined into an assembly and put in the Schedule of Components as such. An example would be furniture which may be replaced as a group in a renovation or refurbishment project.

OPTIONAL COMPONENTS

In order to include all projected major expenditures involving capital assets, DMA may include components that may not typically qualify for tax exemption under IRS rulings for Associations filing Form 1120 or 1120H. It is incumbent upon the Association to determine the tax implications of comingling exempt capital expenditure funds from excluded or nonexempt designated funds in their bank and investment accounts. The Association should consult their attorney or accountant on this matter. Some of these items include:

- ❖ Painting, wall coverings and other cosmetic work.
- ❖ Landscape Improvements and replacement of any landscaping (trees, shrubbery, etc.).
- ❖ Irrigation system maintenance.
- ❖ Asphalt seal coating and striping.
- ❖ Cleaning and power washing activities.

EXCLUSIONS

Some capital assets are not included as reserve components. Components that you do not see in this report are generally related to one of the categories below or are not owned by the association

- ❖ Permanent Improvements: This group includes components that if properly maintained will have a useful life equal to the property as a whole. The end of the useful life of the property would occur when it would be necessary that all of the infrastructure would need to be demolished and cleared or the area and infrastructure completely evacuated and reconditioned to return the property to a safe and useful state. A typical example would be entire building structures.
- ❖ Masonry, Stone, Concrete: Generally, masonry, stone and concrete building cladding and flatwork would be considered to have an unlimited useful life and their replacement is not envisioned. However, repairs such as mortar tuck pointing, patching and replacing sections of broken or damaged masonry, stone and concrete is a reality and a component line item for this is often included in the reserve funding study.
- ❖ Unit or Home Owner Modifications: Components that are part of a Unit in a condominium, or a private home in an HOA are not included unless they are specifically defined in the Declaration or Bylaws as a Common Area or Limited Common Area. On occasion unit or home owners will modify components that are considered common or limited common elements. The cost of these modifications are typically not included as part of the capital reserves.
- ❖ Incidental or Maintenance Items: Some components are small enough, or may require repair or replacement on a recurring short-term basis. These items and actions are typically funded from the operating account as annual maintenance items.
- ❖ Capital Improvements: These include development or purchase of any new asset to be placed in service for the first time. These are not capital reserve components. After the asset has been placed in service, the money set aside for repair and replacement can then be included in the capital reserve study.

Crossroads Farm

COMPONENT QUANTITIES AND MEASUREMENT

The Schedule of Components provides the total quantity or measurement of each asset for which a reserve component is identified. This is stated as the amount, size, number or extent of each component based on defined units of measure. Typical units of measure include:

- ❖ SF = area measurement defined in square feet
- ❖ SY = area measurement defined in square yards
- ❖ SQ = area measurement defined by "square" (100 square feet)
- ❖ LF = length measurement defined by linear feet
- ❖ CY = volume measurement defined by cubic yards
- ❖ EA = quantity measurement defined by number of individual units, "each".
- ❖ PR = quantity measurement defined by number of paired units, "pair".
- ❖ LS = allowance measurement for components with indeterminant or combined quantities of different individual units "lump sum"

All components are viewed on site unless otherwise specified herein. The components are documented with a photo of the component or of a typical component or group of components where there are a large number of repetitive component elements. Quantities for each component are developed either by on-site measurement, measurement from scale engineering and architectural drawings when available, measurement on scaled photos or measurement by satellite mapping. In the case of on-site measurements of building envelope components for multiple buildings (i.e., roofs, siding, trim, doors, windows, gutters, etc.) it would take an extraordinary amount of time and money to identify and measure each and every component on each and every unit. In that case quantities may be arrived at by measuring a single model or a single unit of similar character and multiplying those quantities by the number of similar units. This methodology has resulted in acceptably accurate results as far as quantities are concerned for the reserve study budget analyses.

If this study is an update of a previous study, the quantities used are as determined in the previous study unless otherwise noted. In cases where a recent historic cost estimate or bid exists the bid amount may be used as a "lump sum" in lieu of a unit quantity estimate.

COMPONENT IN-SERVICE DATE, ESTIMATED LIFE AND REPLACEMENT SCHEDULE

The following component information is included in the Summary Schedule of Components in this report and/or in the Detailed Schedule of Components, provided as a separate file:

- ❖ In Service Date: This identifies either the known year or our estimate of the year that each component was placed in service (built, installed, replaced, etc.).
- ❖ Estimated Useful Life (EUL): This is the expected working life of the component in years, based on the actuarial or industry standard life, combined with our observation of the condition and use of the component in this setting. Our EUL for a component in one setting may be different for the same or similar component in another setting. The terminology "expected" is important in that some components are subject to partial failures and replacements even though a portion or majority of the component may have a much longer service life. An example is concrete sidewalks. Concrete may last in serviceable condition for 100 years, but outside factors can affect sidewalks and require replacement of specific locations in a shorter time frame. In some cases, the same portion may be replaced multiple times within the total life span. Some components may be a group of like entities such as doors. In this case some doors may be more susceptible to replacement than others based on use and exposure. The EUL sets a minimum estimated life before we expect some replacement activity even though many of the doors in the group may last much longer.

Our sources for these EUL's include R. S. Means Cost Data, Fannie Mae Property Condition Assessment tables, and American Society of Heating, Refrigerating and Air Conditioning Engineers (ASHRAE) Equipment Life Expectancy tables. These are industry averages based on nationwide experience

Crossroads Farm

in many different locations, conditions and building types. Since reserve studies are budget planning tools, these are reasonable approaches to guiding that planning, however, the Analyst performing your study may adjust some EUL's based on (a) what he/she observes about the component condition on site, (b) what your history has been with each component, if known, and (c) other potential impacts on the component due to location, exposure, usage, etc. Other factors will also affect the actual service life that you get from a component. Some components fail completely, i.e., they no longer work; others fail gradually through aging. For those components, the decision to replace may be guided by the amount of maintenance the component is requiring, obsolescence of the component, better technology and cost savings from new components, and relative appearance or operating condition that impacts the perception of your property or facility by owners / users. Remember that reserve studies are not prescriptive maintenance plans for your property. The final decision to replace a component rests with the Board of Directors based on its actual condition, relative priorities, and other maintenance options.

- ❖ Next Replacement Year: This number is computed by adding the Estimated Useful Life (EUL) to the In-Service Date.
- ❖ Remaining Useful Life: This number is computed by subtracting the Study Year (the year the analysis is being conducted) from the Next Replacement Year.
- ❖ Percent Replaced: In its simplest form, this number tells the analysis to either fund for the full replacement amount or to fund for a partial replacement amount at each occasion. Again, with the sidewalk example, the analysis may be told to fund for 5% of the total component quantity replacement at each interval. For a shingle roof, it would likely be for 100% of the component at each replacement interval.

This number can also be used to assist in "what if" scenarios. If an association is trying to decide if they want to replace a component, remove it, or do something else; the percent of replacement could be set at zero (0%) in order to remove the component from the funding plan, while still recognizing its existence in the community.

- ❖ Replacement Interval (only shown in the Detailed Schedule of Components): This is the number of years after the first projected replacement event in the study, that we expect to have another. For a component with a predictable estimated life, such as shingle roofs, the replacement interval may be the same as the estimated useful life (EUL). If the EUL is 30 years the subsequent replacement interval will also be 30 years. For our concrete sidewalk example in the previous section, however, you may replace 5% of it after an EUL of 15 years, and then another 5% every 5 years thereafter, as the entire walkway component gradually ages. These numbers are often affected by outside forces that impact the component, and can also be affected by the manner in which the association maintains the community. One association may elect to replace portions of a component every 5 years or more often, and another association may not elect to do any work for 15 years at a time. These are all decisions that can be made in DMA's working session with the Association.
- ❖ Client Responsibility (only shown in the Detailed Schedule of Components): Generally, this will always be 100%. In some situations, however, the responsibility for maintenance of certain components may be shared with another entity, such as another association, or another property owner. In these cases, the % listed will be the percentage of responsibility applicable to this account only.

REPLACEMENT COST

The replacement cost for each component in the Schedule of Components is the product of a source cost and other component descriptors discussed above.

- ❖ Unit Cost: This is the source cost for the replacement of one unit of measure for each component. This will always be expressed in current dollars (See our discussion below on cost estimating.)
- ❖ Replacement Cost: This number is derived from multiplying the Quantity in units x the Unit Cost x the Percent Replaced x the Client Responsibility.

DMA uses three sources of costing for components in this study. Our standard source for computing component replacement costs is from cost data published by R. S. Means Company, a division of The Gordian Group, including Facility Construction, Facility Maintenance and Repair, Commercial Construction, and Residential Construction. Our second source is actual recent replacement costs for specific components provided by the association from your General Ledger or from actual contracts or invoices. Our third source is from local contractors and suppliers, and from manufacturers of specific products. All source unit costs are indexed (cost weighted) by geographic area based on R. S. Means national cost indexing system.

Crossroads Farm

All DMA estimated costs are “turn-key” costs, meaning that they include both materials and labor costs as well as indirect costs such as project staging, demolition or removal of the old components, overhead and profit, and permitting (for construction projects). They typically do not include soft costs such as engineering, design, specifications and inspections. Those can be provided as separate line-item costs when they represent material expenditures.

COST ASSEMBLY BY THE RESERVE SPECIALIST

The Reserve Specialist (RS) in charge of your project will select the most appropriate costs for the components that they see on your property or in your facility. In some cases, the RS will need to additionally assemble costs from our data base to fully address the needs of a replacement project – such as equipment replacement that requires architectural alterations, complex roof replacement projects, or underground utility replacement projects. The RS will also determine the percentage of replacement per occurrence for each component. Replacement occurrences for long-life components or component groups may be better projected as partial replacements on a recurring basis.

YOUR ACTUAL COSTS WILL VARY

DMA's cost estimating meets industry standards for this work and we use the best information available to develop our cost data base. Many factors affect the actual cost of project at a point in time however, and you should expect your cost experience to vary somewhat from the estimates. Factors to remember include:

- ❖ Actual cost growth for a particular product or labor market vs. projected inflation rates. Most costs grow in leaps and spurts, even though they average out over time to a measurable rate. Your experience at a point in time may be on one side or the other of a cost increase.
- ❖ Competition and local market factors at the time of your replacement may put temporary upward or downward pressures on the cost of a particular item or labor rate.
- ❖ Your replacement project may include other work within the scope that is not identified or anticipated in the component replacement cost.
- ❖ Component replacement estimates are made for the most similar product, material or labor cost to what we observe on your property. It may not be an exact match for your component.
- ❖ The community may elect to upgrade or downgrade the material or product selected for replacement vs. the existing component on which the estimate was based.

Because DMA's analyses are interactive, you can track your actual costs on our Schedule of Components and report back changes at any time and request an updated analysis based on this information.

OBSERVATIONS AND ASSESSMENT OF COMPONENT CONDITION

DMA enters observations, information and condition assessments of components in our database when we develop the Schedule of Components. This information is included in the Detailed Schedule of Components, which is issued as a separate document along with this report. In future updates this information can be updated to reflect changes in the condition or the component itself, including information provided by the client.

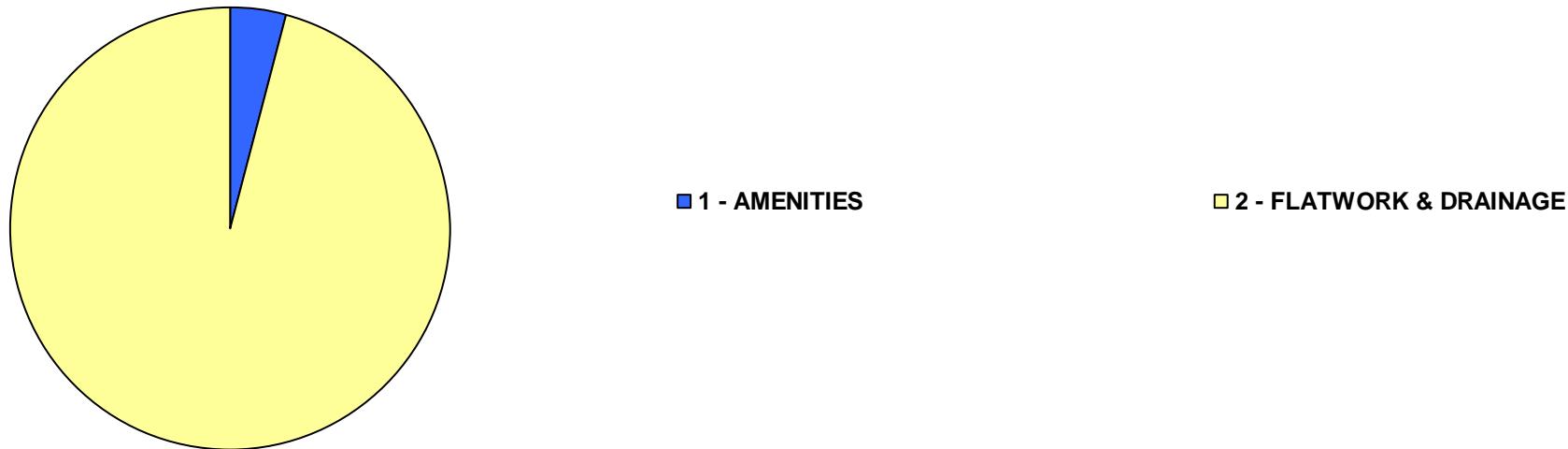
A photographic record of components is also provided in a companion folder to the final report. It contains photo documentation of our field observations. These photos are also linked to individual components in our database for ease of access in working sessions and in later reviews and updates.

The observations and opinions expressed in this report are based on our general professional knowledge of construction and our knowledge of the typical replacement experience of many communities and other entities with the same component types. Our projections are not architectural or engineering recommendations for specific projects. The Board of Directors should seek professional or industry assistance for each specific replacement project, based on the conditions in existence at the time of replacement and as the need for replacement or repair becomes imminent.

Summary Schedule of Components**Total Replacement Cost by Section**

Section	Section Name	Number of Components	Replacement Costs	% of Replacement Costs
1	AMENITIES	18	\$166,062	4.3%
2	FLATWORK & DRAINAGE	55	\$3,708,243	95.7%
Totals		73	\$3,874,304	100.0%

Replacement Costs are the projected inflation adjusted costs of ALL components within the timeframe of this analysis.

Replacement Costs Proportions

Crossroads Farm

Component Summary

Line	Component Name and Location	Quantity	Units	% Repl	In-Service/Replace Date	Current Estimated Useful Life	Remain Useful Life	Next Repl Year	Unit Cost	Replacement Cost for Study Year
001.000 - AMENITIES										
001.000.0001	Concrete curb and gutter - incidental replacement BELLAVISTA DRIVE	1260	LF	5%	2003	30	11	2033	\$85.63	\$5,395.00
001.000.0002	Asphalt walkway PEALE'S PARK.	856	SY	100%	2003	20	1	2023	\$17.91	\$15,331.00
001.000.0003	8 CMU retaining wall PEALE'S PARK.	150	SF	100%	2003	50	31	2053	\$24.02	\$3,603.00
001.000.0004	8 CMU retaining wall PEALE'S PARK.	120	SF	100%	2003	50	31	2053	\$24.02	\$2,882.00
001.000.0005	Stone retaining wall BELLAVISTA DRIVE	120	SF	100%	2007	50	35	2057	\$327.88	\$39,346.00
001.000.0006	Stone retaining wall, mortar set BELLAVISTA DRIVE	120	SF	100%	2007	35	20	2042	\$6.22	\$746.00
001.000.0007	Sign stone wall RED CLIFF LANE	90	VSF	100%	2011	50	39	2061	\$66.53	\$5,988.00
001.000.0008	Sign stone walls, mortar set RED CLIFF LANE	90	SF	100%	2011	35	24	2046	\$6.22	\$560.00
001.000.0009	Sign stone wall. RED CLIFF LANE	90	VSF	100%	2011	50	39	2061	\$66.53	\$5,988.00
001.000.0010	Sign stone walls, mortar set RED CLIFF LANE	90	SF	100%	2011	35	24	2046	\$6.22	\$560.00
001.000.0011	Sign lettering BELLAVISTA DRIVE	14	EA	100%	2007	25	10	2032	\$147.06	\$2,059.00
001.000.0012	Sign lettering RED CLIFF LANE	14	EA	100%	2011	25	14	2036	\$147.06	\$2,059.00

Crossroads Farm

Component Summary

Line	Component Name and Location	Quantity	Units	% Repl	In-Service/Replace Date	Current Estimated Useful Life	Remain Useful Life	Next Repl Year	Unit Cost	Replacement Cost for Study Year
001.000.0013	Vinyl fence, 4-raii BELLAVISTA DRIVE	480	LF	100%	2003	35	16	2038	\$27.58	\$13,238.00
001.000.0014	Street name signs Site-Wide	28	EA	100%	2003	25	6	2028	\$119.26	\$3,339.00
001.000.0015	Wood sign post Site-Wide	28	EA	100%	2003	25	6	2028	\$172.26	\$4,823.00
001.000.0016	Traffic control signs Site-Wide	37	EA	33%	2003	25	6	2028	\$313.07	\$3,823.00
001.000.0017	Irrigation system electro mechanical controller BELLAVISTA DRIVE	1	EA	100%	2003	25	6	2028	\$1,098.37	\$1,098.00
001.000.0018	Light poles, 12' steel or aluminum BELLAVISTA DRIVE	10	EA	100%	2004	35	17	2039	\$1,594.76	\$15,948.00
Total for 001.000 - AMENITIES										\$126,786.00

002.001 - ASPHALT OVERLAY

002.001.0001	Asphalt overlay BELLAVISTA DRIVE	3033	SY	100%	2004	20	2	2024	\$12.40	\$37,609.00
002.001.0002	Asphalt overlay - Sections 1-4 FREDERICK ROAD	4042	SY	100%	2004	20	2	2024	\$12.40	\$50,121.00
002.001.0003	Asphalt overlay HOBART COURT	931	SY	100%	2004	20	2	2024	\$12.40	\$11,544.00
002.001.0004	Asphalt overlay - Sections 1-4 CLAREMONT AVENUE	4508	SY	100%	2004	21	3	2025	\$12.40	\$55,899.00
002.001.0005	Asphalt overlay CHELSEA CIRCLE	1221	SY	100%	2004	21	3	2025	\$12.40	\$15,140.00

Crossroads Farm

Component Summary

Line	Component Name and Location	Quantity	Units	% Repl	In-Service/Replace Date	Current Estimated Useful Life	Remain Useful Life	Next Repl Year	Unit Cost	Replacement Cost for Study Year
002.001.0006	Asphalt overlay - Section 5 FREDERICK ROAD	4116	SY	100%	2006	25	9	2031	\$12.40	\$51,038.00
002.001.0007	Asphalt overlay BENNINGTON PLACE	1252	SY	100%	2006	25	9	2031	\$12.40	\$15,525.00
002.001.0008	Asphalt overlay YORK PLACE	1079	SY	100%	2006	25	9	2031	\$12.40	\$13,380.00
002.001.0009	Asphalt overlay CAMBRIDGE CIRCLE	873	SY	100%	2006	25	9	2031	\$12.40	\$10,825.00
002.001.0010	Asphalt overlay PENSHURST PLACE	898	SY	100%	2006	25	9	2031	\$12.40	\$11,135.00
002.001.0011	Asphalt overlay FLYNTSHIRE PLACE	1279	SY	100%	2006	25	9	2031	\$12.40	\$15,860.00
002.001.0012	Asphalt overlay CAMBRIDGE CIRCLE	1573	SY	100%	2006	25	9	2031	\$12.40	\$19,505.00
002.001.0013	Asphalt overlay - Section 7 FREDERICK ROAD	1040	SY	100%	2006	25	9	2031	\$12.40	\$12,896.00
002.001.0014	Asphalt overlay - Section 8 FREDERICK ROAD	3430	SY	100%	2006	25	9	2031	\$12.40	\$42,532.00
002.001.0015	Asphalt overlay PELHAM PLACE	1159	SY	100%	2006	25	9	2031	\$12.40	\$14,372.00
002.001.0016	Asphalt overlay ELGIN COURT	1187	SY	100%	2009	25	12	2034	\$12.40	\$14,719.00
002.001.0017	Asphalt overlay BEDFORD PLACE	946	SY	100%	2007	25	10	2032	\$12.40	\$11,730.00
002.001.0018	Asphalt overlay - Section 10 CLAREMONT AVENUE	4187	SY	100%	2007	25	10	2032	\$12.40	\$51,919.00

Crossroads Farm

Component Summary

Line	Component Name and Location	Quantity	Units	% Repl	In-Service/Replace Date	Current Estimated Useful Life	Remain Useful Life	Next Repl Year	Unit Cost	Replacement Cost for Study Year
002.001.0019	Asphalt overlay - Section 11 BEAUFORD ROAD	1540	SY	100%	2015	25	18	2040	\$12.40	\$19,096.00
002.001.0020	Asphalt overlay TILBURY COURT	444	SY	100%	2009	25	12	2034	\$12.40	\$5,506.00
002.001.0021	Asphalt overlay - Section 12 BEAUFORD ROAD	1067	SY	100%	2009	25	12	2034	\$12.40	\$13,231.00
002.001.0022	Asphalt overlay CADOGAN COURT	1020	SY	100%	2015	25	18	2040	\$12.40	\$12,648.00
002.001.0023	Asphalt overlay - Section 13 FREDERICK ROAD	2227	SY	100%	2008	25	11	2033	\$12.40	\$27,615.00
002.001.0024	Asphalt overlay HASTINGS PLACE	1293	SY	100%	2008	25	11	2033	\$12.40	\$16,033.00
002.001.0025	Asphalt overlay - Section 14 CLAREMONT AVENUE	2133	SY	100%	2011	25	14	2036	\$12.40	\$26,449.00
002.001.0026	Asphalt overlay WILTON PLACE	1453	SY	100%	2011	25	14	2036	\$12.40	\$18,017.00
002.001.0027	Asphalt overlay - Section 16 CLAREMONT AVENUE	1467	SY	100%	2011	25	14	2036	\$12.40	\$18,191.00
002.001.0028	Asphalt overlay MARKHAM PLACE	1284	SY	100%	2011	25	14	2036	\$12.40	\$15,922.00
002.001.0029	Asphalt overlay - Section 17 CLAREMONT AVENUE	1071	SY	100%	2011	25	14	2036	\$12.40	\$13,280.00
002.001.0030	Asphalt overlay RED CLIFF LANE	1653	SY	100%	2011	25	14	2036	\$12.40	\$20,497.00
002.001.0031	Asphalt overlay - Section 18 BEAUFORD ROAD	1540	SY	100%	2017	25	20	2042	\$12.40	\$19,096.00

Crossroads Farm

Component Summary

Line	Component Name and Location	Quantity	Units	% Repl	In-Service/Replace Date	Current Estimated Useful Life	Remain Useful Life	Next Repl Year	Unit Cost	Replacement Cost for Study Year
002.001.0032	Asphalt overlay BROMPTON COURT	1020	SY	100%	2017	25	20	2042	\$12.40	\$12,648.00
002.001.0033	Asphalt overlay - Section 19 FREDERICK ROAD	1668	SY	100%	2017	25	20	2042	\$12.40	\$20,683.00
002.001.0034	Asphalt overlay KESWICK COURT	925	SY	100%	2017	25	20	2042	\$12.40	\$11,470.00
002.001.0035	Asphalt overlay - Section 20 BEAUFORD ROAD	1540	SY	100%	2019	25	22	2044	\$12.40	\$19,096.00
002.001.0036	Asphalt overlay ALNWICK COURT	1441	SY	100%	2019	25	22	2044	\$12.40	\$17,868.00
002.001.0037	Asphalt overlay - Section 21 FREDERICK ROAD	2458	SY	100%	2021	25	24	2046	\$12.40	\$30,479.00
002.001.0038	Asphalt overlay COLCHESTER COURT	1109	SY	100%	2021	25	24	2046	\$12.40	\$13,752.00
002.001.0039	Asphalt overlay SALSBURY COURT	1166	SY	100%	2021	25	24	2046	\$12.40	\$14,458.00
002.001.0040	Asphalt overlay - Section 22 BEDFORD PLACE	1540	SY	100%	2017	25	20	2042	\$12.40	\$19,096.00
002.001.0041	Asphalt overlay - Section 23 BEAUFORD ROAD	1540	SY	100%	2017	25	20	2042	\$12.40	\$19,096.00
002.001.0042	Asphalt overlay RADNOR COURT	1381	SY	100%	2017	25	20	2042	\$12.40	\$17,124.00
002.001.0043	Asphalt patching allowance Site-Wide	1	LS	1%	2022	5	5	2027	\$3,929,927.00	\$39,299.00
002.001.0044	Crack filling allowance Site-Wide	1	LS	20%	2022	6	6	2028	\$119,890.00	\$23,978.00

Crossroads Farm

Component Summary

Line	Component Name and Location	Quantity	Units	% Repl	In-Service/Replace Date	Current Estimated Useful Life	Remain Useful Life	Next Repl Year	Unit Cost	Replacement Cost for Study Year
Total for 002.001 - ASPHALT OVERLAY										\$940,377.00
002.002 - EROSION CONTROL										
002.002.0001	Replace stormwater piping under roadway SECTIONS 1-4	752	LF	10%	2004	30	12	2034	\$118.01	\$8,874.00
002.002.0002	Corrugated metal pipe, 15" SECTION 5	170	LF	100%	2006	31	15	2037	\$188.66	\$32,072.00
002.002.0003	Corrugated metal pipe, 15" SECTION 7	56	LF	100%	2006	31	15	2037	\$188.66	\$10,565.00
002.002.0004	Corrugated metal pipe, 15" SECTION 8	112	LF	100%	2006	31	15	2037	\$188.66	\$21,130.00
002.002.0005	Corrugated metal pipe, 15" SECTION 9	55	LF	100%	2008	30	16	2038	\$188.66	\$10,376.00
002.002.0006	Corrugated metal pipe, 15" SECTION 12	37	LF	100%	2008	30	16	2038	\$188.66	\$6,980.00
002.002.0007	Corrugated metal pipe, 15" SECTION 13	50	LF	100%	2008	30	16	2038	\$188.66	\$9,433.00
002.002.0008	Corrugated metal pipe, 15" SECTION 14	62	LF	100%	2011	30	19	2041	\$188.66	\$11,697.00
002.002.0009	Corrugated metal pipe, 15" SECTION 16	53	LF	100%	2011	30	19	2041	\$188.66	\$9,999.00
002.002.0010	Corrugated metal pipe, 15" SECTION 21	52	LF	100%	2021	30	29	2051	\$188.66	\$9,810.00
002.002.0011	Erosion control allowance Site-Wide	1	LS	100%	2004	30	12	2034	\$50,887.00	\$50,887.00

Crossroads Farm

Component Summary

Line	Component Name and Location	Quantity	Units	% Repl	In-Service/ Replace Date	Current Estimated Useful Life	Remain Useful Life	Next Repl Year	Unit Cost	Replacement Cost for Study Year
Total for 002.002 - EROSION CONTROL										\$181,823.00

Component Summary Total for Crossroads Farm revised Final Study

Total Replacement Cost for Study Year	\$1,248,986.00
--	-----------------------

Crossroads Farm

Reserve Expenditures by Year (First 5 years)

Year 2022

Line #	Component	Location	Replacement Cost *
002.001.0043	Asphalt patching allowance	Site-Wide	\$39,299.00
002.001.0044	Crack filling allowance	Site-Wide	\$23,978.00
Total Expenditures for Year 2022			\$63,277.00

Crossroads Farm

Year 2023

Line #	Component	Location	Replacement Cost *
001.000.0002	Asphalt walkway	PEALE'S PARK.	\$16,871.77
Total Expenditures for Year 2023			\$16,871.77

Crossroads Farm

Year 2024			
Line #	Component	Location	Replacement Cost *
002.001.0001	Asphalt overlay	BELLAVISTA DRIVE	\$42,969.75
002.001.0002	Asphalt overlay - Sections 1-4	FREDERICK ROAD	\$57,265.20
002.001.0003	Asphalt overlay	HOBART COURT	\$13,189.47
Total Expenditures for Year 2024			\$113,424.42

Crossroads Farm

Year 2025

Line #	Component	Location	Replacement Cost *
002.001.0004	Asphalt overlay - Sections 1-4	CLAREMONT AVENUE	\$66,229.86
002.001.0005	Asphalt overlay	CHELSEA CIRCLE	\$17,938.07
Total Expenditures for Year 2025			\$84,167.93

The Financial Analysis

Parameters:

- ❖ Fiscal Year: Your budget year, identified with a start date and an end date. The most common fiscal year is the calendar year with a start date of January 1st and an end date of December 31st. For some associations, the fiscal year begins on another month, such June 1st, (ending on May 31st).
- ❖ Study Year: Your current fiscal year, unless otherwise noted in the study. When a fiscal year is not the calendar year, it may be defined as the year that includes the end date. For example, a fiscal year starting June 1st, 2020 and ending May 31st, 2021 is typically identified as FY 2021. In the DMA reserve study, the study year will be defined as year 2021. In studies that are completed close to the end of the fiscal year, DMA may elect to move ahead to the upcoming fiscal year to be the study year.
- ❖ Reserve Account Starting Balance: This is the total of all funds in cash and investment accounts for an identified capital reserve account, as defined in the association balance sheet for the period ending at the end of the previous fiscal year. Accounting methods and balance sheet vary. If the reserve account balance is not easily discernable from the balance sheet, then it is the association's responsibility to provide DMA with this value as of that date. If the study year is moved ahead to the upcoming fiscal year, the reserve account balance for that date needs to be estimated. Note: a balance sheet may include other factors that affect the reserve account balance used in the study. These can include outstanding loans from the reserve account to the operating account, any payables due from the reserve account that are not included in the funding plan, non-collected funds due to the reserve account or prepaid assessments already in the reserve account, among others. It is the association's responsibility to adjust the starting balance of the reserve account to reflect any of these factors that may be material. In the case of new communities, unbuilt communities or communities without existing reserve accounts, this starting balance may be \$0.00.
- ❖ Average Earnings Rate: This is the average of the rates of return on interest or income from reserve funds on deposit in banks and in investment accounts. This is the net income to the reserve account from these deposits, exclusive of taxes. If the association advises DMA that this income is not paid back into the reserve account, then the earnings rate in this study will be 0.00%.
- ❖ Budgeted Contribution: This is the cash contribution or transfer of assessment funds to the reserve account in the association's budget for the fiscal year corresponding to the study year. In the case of new communities, unbuilt communities or communities without existing reserve accounts, there may be no budgeted contribution, in which case this study will recommend the initial contribution.

CURRENT FUNDING STATUS – PERCENT FUNDED AND FUNDING DEFICIT

To assess your current funding level DMA calculates the percent funded for each component in the study at a point in time – generally at the beginning of the fiscal year corresponding with Year 1 of the study (study year). We use an inflation-adjusted method for calculating the relative replacement value of each component (the amount of money that should be available to replace the component if it were fully funded) and compare the total value for all components to the actual total balance of the reserve account. This is called the percent funded.

Note: the term "fully funded" does not mean that the total replacement cost of every component is always available at any time. It means that the funding level is sufficient such that the total replacement cost will be funded at the time that the component is projected to be replaced. The funding deficit (or surplus) is the difference between the combined inflation-adjusted replacement values of all components and the actual reserve account balance.

Some states require that reserve studies provide this information, and the Community Associations Institute requires that reserve studies provide a statement on the relative health of the reserve account. This information should meet both requirements, but we do not use this to project a long-term funding solution for your reserve account.

DMA'S INTERACTIVE CASH FLOW FUNDING PLAN

- ❖ Baseline Funding Model – The goal of this model is to keep the reserve cash balance above zero. This means that at no time during the funding period will the projected reserve balance drop below zero dollars. This is the least conservative model. An association using this model must understand that even a minor reduction in a component's remaining useful life can result in a deficit in the reserve cash balance. Associations can implement this model more safely by conducting annual reserve updates that include field observations.
- ❖ Threshold Funding Model – This model sets a minimum cash reserve balance at a predetermined dollar amount. This minimum balance becomes the “threshold” above which the reserve account should remain in every year of the study. There are two ways to set this threshold in NAVIGATOR™. The first way is simply to choose a specific dollar amount. The second way is to set a minimum dollar value based on a percentage of the total one-time replacement values of all components in the study. Different thresholds can be evaluated in the *working session*.
- ❖ Full Funding Model – (Also called the Component Method.) NAVIGATOR™ can also provide this funding model, upon request, in a separate report. This is the most conservative funding model. It funds each component as its own line-item budget. The goal of this model is to attain and maintain the reserves at or near 100%. For example, if an association has a component with a 10-year life and a \$10,000 replacement cost, it should have \$3,000 set aside for its replacement after three years. In this case, \$3,000 equals full funding. This method is only good for year-to-year projections and does not include inflation. DMA does not recommend this funding model, however some clients use it and some jurisdictions may require it.

NAVIGATOR™ uses a Cash Flow Funding Model to calculate your recommended reserve funding plan. This model includes our Reserve Navigator graph which shows the entire study period, which typically is 30 years. DMA can revise this study period to a minimum of 20 years or up to 50 years. Different study periods can be looked at in the live working session. This model includes two additional options:

The Reserve Navigator graph shows the projected total reserve expenditures in each year (red bars), the end-of-year reserve account balance (green bars) and the minimum threshold balance (yellow line) over the entire reserve study period. The table below the graph shows the beginning and end reserve balances in each year, the contribution or transfer to reserves in each year, the interest income in each year (if any) and the total expenditures in each year. Expenditures are adjusted for inflation. Ten year periods are shown on each page, and the graph is repeated on each subsequent page with the tabular period highlighted.

The goal of the Cash Flow funding plan is to keep your account above a minimum balance over the life of the study while ensuring that all components are fully funded when they are scheduled to be replaced. We can set that minimum balance to zero dollars (\$0.00), and convert this to a baseline funding model but we strongly recommend against using that model for your funding plan. We set the minimum account balance, or “threshold”, at a level above zero, in order to provide a buffer for the variations in actual expenditures that will inevitably occur over the life of the study. We generate that number from a percentage of the total estimated one-time replacement costs of all components in current dollars. The percentage amount is entered into the study as a bottom limit for the cash flow in the account. We then index this amount to the projected rate of inflation so that it increases every year in proportion to the relative value of the dollar. Note: The threshold amount is an arbitrary number. It is not set by any law or any accounting standard. We can look at different threshold amounts in the working session and evaluate what would be most appropriate for your association and the expenditure projections. Ultimately, you the client can establish the threshold amount.

Reserve Account Transfer Change Rate

As inflation decreases the value of the dollar over time, it is logical to introduce a transfer change rate to the reserve contribution so that it grows in relation to the growth in actual costs over time. If we did not do this - if we kept the contribution constant - owners today would have to contribute a much larger amount in order to offset the declining value of the same contributions made in the future. The change rate provides parity for present and future owners.

As inflation decreases the value of the dollar over time, it is logical to introduce a transfer change rate to the reserve contribution so that it grows in relation to the growth in actual costs over time. If we did not do this - if we kept the contribution constant - owners today would have to contribute a much larger amount in order to offset the declining value of the same contributions made in the future. The change rate provides parity for present and future owners.

Crossroads Farm

In communities that are underfunded, it may be necessary to use a change rate that is greater than the inflation rate in order to gradually increase your contributions to an acceptable level. The Reserve Account Transfer Change Rate is expressed as a percentage (%). We can adjust this rate as a constant over the entire study period, or manually adjust it from year to year, to help us design the appropriate funding plan.

Specific Project Funding, Special Assessments and Commercial Loans

In some instances, it will be necessary for an association to fund a specific single project or one or more years of total reserve expenses with additional funds. This may be due to a history of underfunding the reserves, or it may be due to an unexpected significant expense in a given year. This additional funding can come from two sources – a special assessment and a commercial loan. DMA studies can include either or both options as appropriate to the needs and resources of the community and its members. We can evaluate both options, and also a combination option, in the working session. A funding solution that includes one or more of these options can become part of the published reserve funding plan.

Assessment Allocation Model

This reserve analysis also includes an Assessment Allocation Model. It is important to keep the reserve account funding in perspective with your overall assessment needs. Usually, the reserve budget is smaller than your operating budget and this model puts your reserve account in context of your overall budget. Keep in mind that this is only an example model. DMA does not have any responsibility for your overall budget or your operating budget, and this model makes a specific assumption about the growth of your operating budget over the next few years which may vary from your actual budget. This model shows percentage of your overall budget allotted to reserves and shows how the recommended reserve funding plan in this study might affect your overall budget in the next several years.

Inflation

This study includes a projected inflation rate for the study period. While this is only a projection, it is also important to understand how significantly inflation impacts replacement costs projected to occur 5, 10, 20 or more years from now: At an inflation rate of just 3.00% a project that costs \$10,000 in the current year will cost over \$18,000 in 20 years.

For non-building related components (such as a television), we use the Consumer Price Index (CPI), published by the U.S. Department of Labor, and is a yearly index of price changes for general consumer goods. For building related components (such as flooring), DMA uses a focused building construction inflation (BCI) index provided by R.S. Means. The BCI is an historical record of actual yearly changes to construction costs and is focused on residential or non-residential construction as opposed to the CPI. Each year our rates are updated to include the most recently published rates.

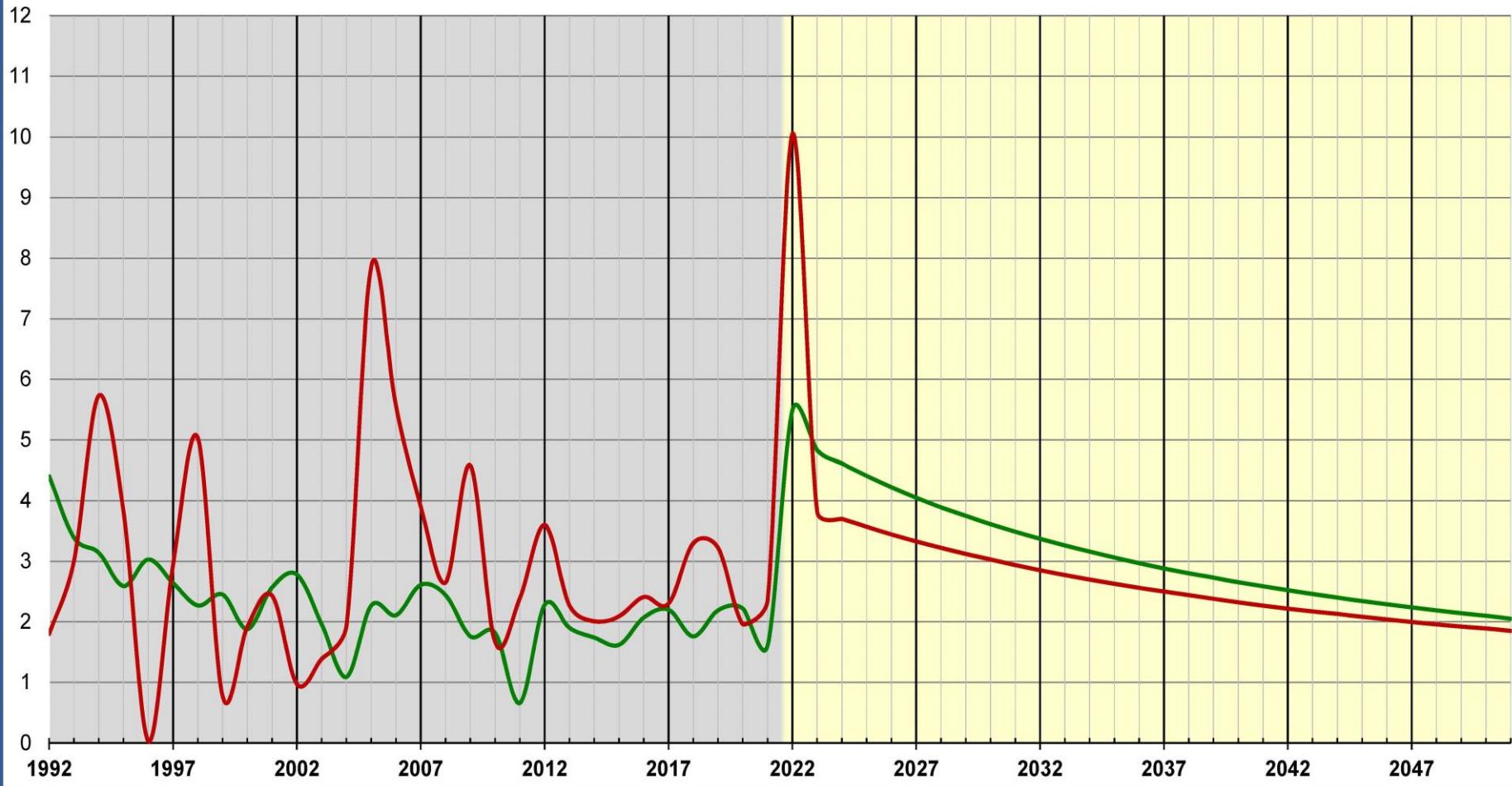
DMA offers two methods for calculating inflation expenditures: Straight-Line and Variable. The Straight Line method uses the same inflation rate over the course of the study period. If your study uses the Straight Line method, we use the most current index available and we use that same rate to project inflation for all years in the study. The Variable Rate uses a rate that changes each year using the Holt-Winters algorithm of regression analysis. If your study uses the Variable Rate method, please refer to the following graph for the yearly rate.

Crossroads Farm

Variable Inflation Rate: Regression Analysis for a 30 year study

% Change in CPI

% Change in BCI



Year	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
% Change in CPI	4.4	3.39	3.14	2.59	3.03	2.64	2.27	2.45	1.88	2.57	2.78	1.96	1.09	2.27	2.11	2.61	2.44	1.76	1.82	0.66	2.28	1.9	1.74	1.62	2.07	2.2	1.76	2.19	2.22	1.61
% Change in BCI	1.8	3.01	5.73	3.82	0.03	2.95	5.03	0.77	1.92	2.43	0.97	1.39	1.94	7.87	5.55	3.9	2.65	4.58	1.66	2.39	3.6	2.27	2.01	2.09	2.41	2.3	3.3	3.22	1.96	2.36

Year	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051
% Change in CPI	5.49	4.83	4.61	4.41	4.22	4.05	3.89	3.75	3.61	3.49	3.37	3.26	3.16	3.06	2.97	2.88	2.8	2.73	2.65	2.59	2.52	2.46	2.4	2.34	2.29	2.24	2.19	2.14	2.1	2.05
% Change in BCI	10.1	3.82	3.7	3.57	3.44	3.33	3.22	3.12	3.03	2.94	2.85	2.77	2.7	2.63	2.56	2.5	2.44	2.38	2.32	2.27	2.22	2.17	2.13	2.08	2.04	2	1.96	1.92	1.89	1.85

Financial Summary

Study Year 2022

Fiscal Year 8/1/2021 to 7/31/2022

Budgeted Total Assessment for current fiscal year	\$156,700
Budgeted Replacement Reserve Transfer (Assessment) for current fiscal year	\$58,653
Balance of the Replacement Reserve Account as of 8/1/2021	\$566,238
Source of current financial information	
Total current replacement value of all components	\$1,248,986
Minimum Threshold Reserve Balance in Study Year	\$42,466

Threshold calculated as 3.4% of total current replacement value of all components.

Recommended Reserve Transfers (first 5 years)

Cash Flow Study Period is 30 Years

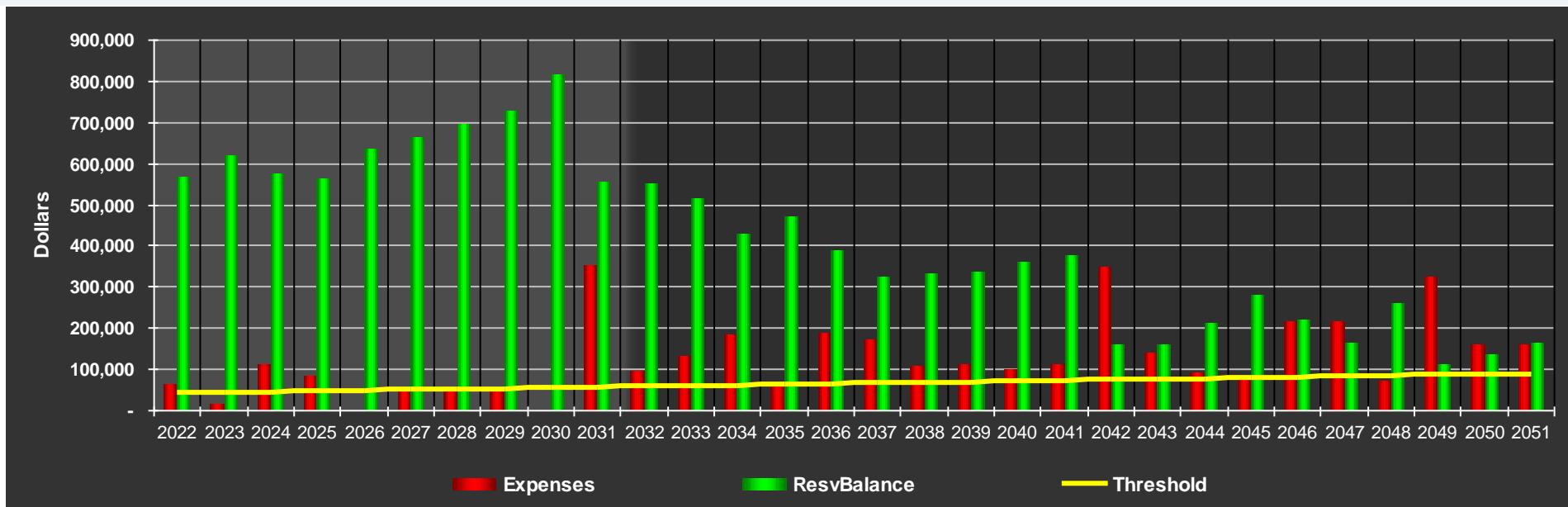
Year	Reserve Transfer Amount	% Increase
2022	\$58,653	0.00%
2023	\$61,058	4.10%
2024	\$63,561	4.10%
2025	\$66,167	4.10%
2026	\$68,880	4.10%

Please see the recommended funding plan for the entire study period on the following pages.

This is a Cash Flow analysis, which DMA recommends for your funding plan. DMA also offers an alternate component method "Full Funding" analysis, which can be provided upon request as a separate report

DMA Cash Flow Funding Plan

NAVIGATOR™

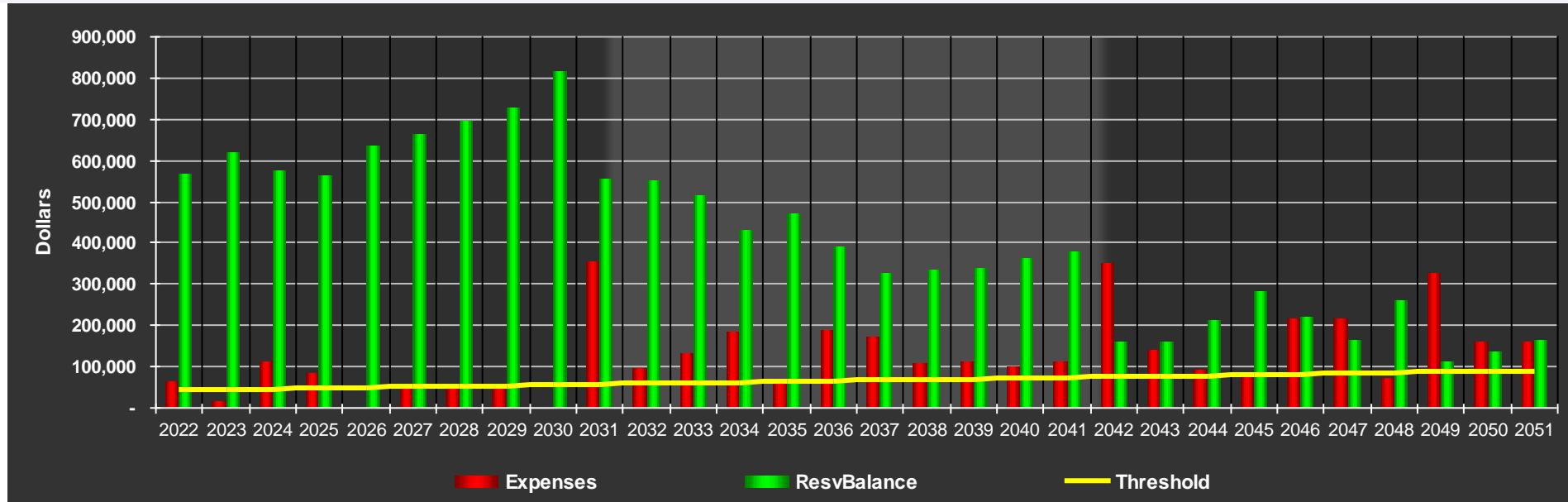


Cash Flow Summary

Years:	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031
Beginning Balance	\$566,238	\$567,276	\$617,135	\$573,443	\$561,176	\$635,668	\$663,846	\$696,519	\$727,984	\$816,154
Transfer to Reserves	\$58,653	\$61,058	\$63,561	\$66,167	\$68,880	\$71,704	\$74,644	\$77,704	\$80,890	\$84,206
Investment Interest	\$5,662	\$5,673	\$6,171	\$5,734	\$5,612	\$6,357	\$6,638	\$6,965	\$7,280	\$8,162
Yearly Expenditures	-\$63,277	-\$16,872	-\$113,424	-\$84,168	\$0	-\$49,883	-\$48,608	-\$53,204	\$0	-\$354,364
Ending Balance	\$567,276	\$617,135	\$573,443	\$561,176	\$635,668	\$663,846	\$696,519	\$727,984	\$816,154	\$554,156
Threshold	\$42,466	\$44,088	\$45,719	\$47,351	\$48,980	\$50,611	\$52,241	\$53,871	\$55,503	\$57,135
Transfer change +/-	0.00%	4.10%	4.10%	4.10%	4.10%	4.10%	4.10%	4.10%	4.10%	4.10%
Investment Ave Rate		1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%

Crossroads Farm

NAVIGATOR™

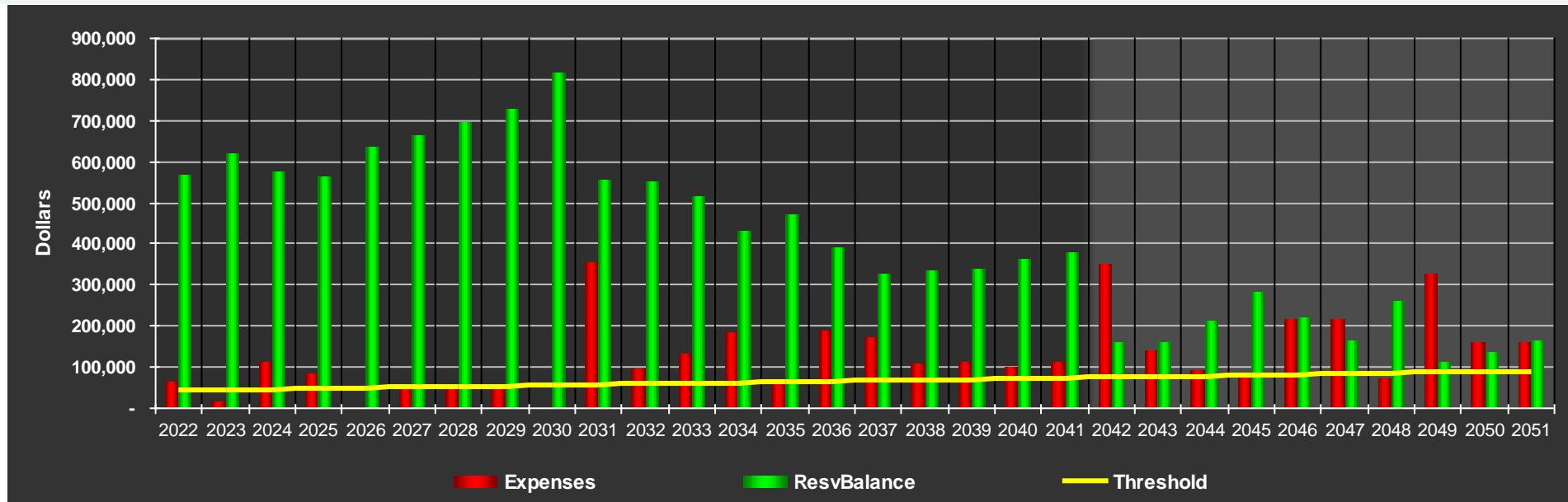


Cash Flow Summary

Years:	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041
Beginning Balance	\$554,156	\$550,065	\$512,286	\$428,988	\$469,001	\$387,898	\$324,574	\$332,122	\$337,670	\$360,599
Transfer to Reserves	\$87,658	\$91,252	\$94,993	\$98,888	\$102,942	\$107,163	\$111,557	\$116,131	\$120,892	\$125,849
Investment Interest	\$5,542	\$5,501	\$5,123	\$4,290	\$4,690	\$3,879	\$3,246	\$3,321	\$3,377	\$3,606
Yearly Expenditures	-\$97,291	-\$134,533	-\$183,414	-\$63,165	-\$188,733	-\$174,367	-\$107,255	-\$113,905	-\$101,340	-\$113,504
Ending Balance	\$550,065	\$512,286	\$428,988	\$469,001	\$387,898	\$324,574	\$332,122	\$337,670	\$360,599	\$376,550
Threshold	\$58,763	\$60,391	\$62,021	\$63,652	\$65,282	\$66,914	\$68,547	\$70,178	\$71,806	\$73,436
Transfer Change +/-	4.10%	4.10%	4.10%	4.10%	4.10%	4.10%	4.10%	4.10%	4.10%	4.10%
Investment Ave Rate	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%

Crossroads Farm

NAVIGATOR™



Cash Flow Summary

Years:	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051
Beginning Balance	\$376,550	\$161,674	\$160,611	\$213,083	\$283,234	\$221,344	\$165,795	\$262,402	\$114,360	\$136,973
Transfer to Reserves	\$131,009	\$136,380	\$141,972	\$147,793	\$153,853	\$160,161	\$166,728	\$173,564	\$180,680	\$188,088
Investment Interest	\$3,766	\$1,617	\$1,606	\$2,131	\$2,832	\$2,213	\$1,658	\$2,624	\$1,144	\$1,370
Yearly Expenditures	-\$349,653	-\$139,061	-\$91,107	-\$79,773	-\$218,575	-\$217,923	-\$71,779	-\$324,231	-\$159,211	-\$161,687
Ending Balance	\$161,674	\$160,611	\$213,083	\$283,234	\$221,344	\$165,795	\$262,402	\$114,360	\$136,973	\$164,745
Threshold	\$75,067	\$76,696	\$78,329	\$79,958	\$81,590	\$83,221	\$84,852	\$86,482	\$88,116	\$89,746
Transfer Change +/-	4.10%	4.10%	4.10%	4.10%	4.10%	4.10%	4.10%	4.10%	4.10%	4.10%
Investment Ave Rate	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%

Crossroads Farm

DMA Assessment Allocation Model

Annual Change

Year	Operating Assessment *	% of Budget Increase	% Ann Increase	Reserve Transfer	% of Budget Increase	% Ann Increase	Total Budget Assessments	% Ann Increase	Special Assessments	Total ALL Assessments	% Ann Increase
2022	\$98,047	62.56%	0.00%	\$58,653	37.44%	0.00%	\$156,700	0.00%	\$0	\$156,700	0.00%
2023	\$103,430	62.87%	5.49%	\$61,058	37.13%	4.10%	\$164,488	4.97%	\$0	\$164,488	4.97%
2024	\$109,108	63.18%	5.49%	\$63,561	36.82%	4.10%	\$172,669	4.97%	\$0	\$172,669	4.97%
2025	\$115,098	63.49%	5.49%	\$66,167	36.51%	4.10%	\$181,265	4.98%	\$0	\$181,265	4.98%
2026	\$121,417	63.80%	5.49%	\$68,880	36.20%	4.10%	\$190,297	4.98%	\$0	\$190,297	4.98%

* In the model above, the annual reserve transfer amounts are as recommended in this analysis. The operating assessment budget amount is increased annually at a rate based on the consumer price index and may not reflect any actual budget planning that will be undertaken as part of the association's annual budgeting process. The purpose of this analysis is to show the potential impact of the reserve recommendation on a hypothetical overall budget. The current operating budget increase used in this model is 5.49%.

Average Annual Assessment per Unit

No Units	Unit Type	Alloc %	Year	Operating *	Reserve	Special	TOTAL	
299	Single Family Homes	Units	100.0%	2022	\$328	\$196	\$0	\$524
				2023	\$346	\$204	\$0	\$550
				2024	\$365	\$213	\$0	\$577
				2025	\$385	\$221	\$0	\$606
				2026	\$406	\$230	\$0	\$636

Average Monthly Assessment per Unit

No Units	Unit Type	Alloc %	Year	Operating *	Reserve	Special	TOTAL	
299	Single Family Homes	Units	100.0%	2022	\$27	\$16	\$0	\$44
				2023	\$29	\$17	\$0	\$46
				2024	\$30	\$18	\$0	\$48
				2025	\$32	\$18	\$0	\$51
				2026	\$34	\$19	\$0	\$53

Standards, Limitations, Conditions, Disclosure and Restrictions

STUDY STANDARDS

This study was conducted in accordance with the Community Associations Institute National Reserve Study Standards. A summary of the standards is contained in our information article entitled "National Standards" which is included in the Appendix.

The data and analysis information that forms a part of this report contains proprietary programming and program coding that is not available for distribution to outside parties. Copies of the data and analysis have been made available in Adobe's Portable Document Format and included as part of this report. Upon request, component information can also be provided in Excel format for easier viewing and navigating through the data.

STUDY LIMITATIONS AND CONDITIONS

- 1 No destructive testing, lab analysis or other investigative methods were used to determine the condition of the components. Due to these limitations, as set forth in the reserve study guidelines that we subscribe to, the limited visual observations that were made are not sufficient to be considered a qualified architectural or engineering assessment of the state or condition of the components.
- 2 All common areas on the property were observed unless access was limited or not made available to us at the time of the inspection. The observations and opinions expressed herein with regard to the useful life of the components are based on our general professional knowledge of construction and our knowledge of the typical replacement experience of many communities and other entities with the same component types.
- 3 The inventory included taking field measurements, measurements from aerial and satellite imagery, digitized measurement over photo imagery and takeoffs and measurements from design and as-built drawings as there were deemed to be reliable. In the case of a Level II Update the quantities provided by the Client from previous studies was utilized when it was deemed to be reliable and accurate. In the case of a Level III Update all inventory data from previous studies provided by the Client was deemed accurate and reliable.
- 4 Our projections of remaining useful life are not architectural or engineering recommendations for executing specific projects. As the end of the remaining useful life approaches, as set forth in this study, the association should seek professional architectural, engineering, contractor, service providers or qualified product manufacturer or supplier assistance, as appropriate, and as to the need for and the scheduling of each specific replacement project. Particularly those of any significant magnitude.
- 5 An asset can be made up of several components that need to be maintained, repaired and replaced. Other elements of the asset may be considered permanent with respect to the asset. The schedule of components provided herein, is based upon information received from the client regarding the common elements and/or assets that the client is responsible for. It is the client's responsibility to verify that the schedule of components is complete.
- 6 Financial information including the present fund balance, interest from funds on deposit, and recent capital expenditures, were provided by the Client and are deemed reliable and complete by DMA Reserves, Inc.
- 7 Information provided by the Association about prior reserve replacement projects is considered to be reliable and complete. No inspection by DMA Reserves, Inc. should be interpreted as a project audit or quality inspection.
- 8 Industry Life Expectancy is based on printed product literature, product or material warranties, industry standards literature, and on the opinions of manufacturers, installers, or maintenance contractors based on their experience with these products and materials.
- 9 Unit prices are based on published unit price standards such as R. S. Means "Residential Cost Data", Facilities Maintenance and Repair Cost Data, and "Facilities Construction Cost Data", latest editions, and on pricing obtained from contractors, installers, or manufacturers. All prices are given in present dollars unless noted otherwise. Prices listed are not guaranteed as exact quotes for work included.

Crossroads Farm

- 10 This analysis incorporates assumptions about the future rate of inflation, and the future interest income on your account deposits. If significant changes occur in either of these rates, this calculation should be re-run with current information.
- 11 The results of this analysis are predicated on your contributing the recommended amount in each previous year and on expenses occurring generally as predicted. This Reserve Study can be updated as a Level III study every year up to 4 years from the original study date, and should be updated with a Level II study or replaced with a new Level I study every 3 to 5 years, which may depend on statutory requirements, to correct for normal variations.
- 12 DMA's Capital Replacement Reserve Studies are designed to be used as planning tools. They are a reflection of information provided by the Client and our analytical inputs, and are assembled for the Client's use. This reserve study should not be used for the purpose of performing an audit, quality/forensic analysis, or for background checks of historical records.

DISCLOSURE

DMA does not have any financial interest in this community or facility, its management company or any vendor mentioned or used in this study beyond this work. This study represents all facts known to DMA at the time of it's preparation that if purposefully omitted would cause a distortion of the Client's situation regarding it's capital reserve plan.

LEGAL RESTRICTIONS ON USE OF THIS INFORMATION

Ownership of Reports, Electronic Files, Data, Media, Software Programs and Other Related Materials: Reports, electronic files, media, and software programs are instruments of professional service and the intellectual property of DMA Reserves Inc., and where appropriate, shall be protected and copyrighted under the laws of the United States with all rights reserved. The Client and their authorized representative or agent are entitled to use these documents in connection with this project. This use may include distribution of DMA reports including electronic files to membership, including publication on private member access portions of client's website. Client may also share DMA reports with Client's accountants, auditors, and bankers, and may include DMA reports in required disclosures to buyers or prospective members in accordance with governing statutes. DMA reports, electronic files, data, media, software programs, written and electronic communications relative to this project, may NOT be shared with or distributed to ANY THIRD PARTIES not defined above without the express written consent of DMA Reserves Inc.

Use of Electronic Files, Media, Software and Programs: DMA may transmit these documents as electronic files. DMA shall not be responsible for any viruses that may be transmitted with the electronic files, media, software or programs furnished to the Client. DMA shall not be responsible for any data erosion, erasure, alteration or failure of electronic files, media, software or programs that may occur at the time of transmission or over time. DMA makes no warranty as to the compatibility of the electronic files, media, software or programs with any operating system or programs.

Crossroads Farm

Penn Laird, VA

CAPITAL RESERVE STUDY & FINANCIAL ANALYSIS

2022

Component Detail

revised Final Study

Date: 9/15/2022

DMA Project #2204012



Prepared by : DMA Reserves, Inc.

2302 E Cary Street
Richmond, Virginia 23223
804.644.6404

Table of Contents

Section		Page
001.000	AMENITIES	1
002.001	ASPHALT OVERLAY	7
002.002	EROSION CONTROL	32

Crossroads Farm

001.000 AMENITIES

001.000.0001

Concrete curb and gutter - incidental replacement

BELLAVISTA DRIVE

Component Details

Field Meas. Quantity or	Units	% Replaced Per Interval	Client Responsibility	Last In- Service	Est Useful Life	Repl Interval	Remain Useful Life	Next Repl. Year	Unit Cost	Replacement Cost for Study Year
1260	LF	5.0%	100.00%	2003	30	5	11	2033	\$85.63	\$5,395.00

Yearly Expenditures for this component Year(s) and expenditures are shown below for this component if occurring within the study period.

Unless a One-Time Expenditure, any expenditures after 2022 include a compounded inflation factor (see last page of this report).

2033	\$8,215.79	2038	\$9,355.40	2043	\$10,495.21
2048	\$11,635.34				

001.000.0002

Asphalt walkway

PEALE'S PARK.

Component Details

Field Meas. Quantity or	Units	% Replaced Per Interval	Client Responsibility	Last In- Service	Est Useful Life	Repl Interval	Remain Useful Life	Next Repl. Year	Unit Cost	Replacement Cost for Study Year
856	SY	100.0%	100.00%	2003	20	15	1	2023	\$17.91	\$15,331.00

Yearly Expenditures for this component Year(s) and expenditures are shown below for this component if occurring within the study period.

Unless a One-Time Expenditure, any expenditures after 2022 include a compounded inflation factor (see last page of this report).

2023	\$16,871.77	2038	\$26,585.29
------	-------------	------	-------------

On 5/31/2022

By Mordechai Abada, DMA Reserves

Few transverse cracks with growing weed, creating bumps and potentially trip hazards.

001.000.0003

8 CMU retaining wall

PEALE'S PARK.

Component Details

Field Meas. Quantity or	Units	% Replaced Per Interval	Client Responsibility	Last In- Service	Est Useful Life	Repl Interval	Remain Useful Life	Next Repl. Year	Unit Cost	Replacement Cost for Study Year
150	SF	100.0%	100.00%	2003	50	50	31	2053	\$24.02	\$3,603.00

On 5/31/2022

By Mordechai Abada, DMA Reserves

In good condition,

Crossroads Farm

001.000.0004	8 CMU retaining wall		PEALE'S PARK.							
Component Details										
Field Meas. Quantity or	Units	% Replaced Per Interval	Client Responsibility	Last In-Service	Est Useful Life	Repl Interval	Remain Useful Life	Next Repl. Year	Unit Cost	Replacement Cost for Study Year
120	SF	100.0%	100.00%	2003	50	50	31	2053	\$24.02	\$2,882.00
On 5/31/2022 By Mordechai Abada, DMA Reserves										
In good condition,										
001.000.0005	Stone retaining wall		BELLAVISTA DRIVE							
Component Details										
Field Meas. Quantity or	Units	% Replaced Per Interval	Client Responsibility	Last In-Service	Est Useful Life	Repl Interval	Remain Useful Life	Next Repl. Year	Unit Cost	Replacement Cost for Study Year
120	SF	100.0%	100.00%	2007	50	50	35	2057	\$327.88	\$39,346.00
001.000.0006	Stone retaining wall, mortar set		BELLAVISTA DRIVE							
Component Details										
Field Meas. Quantity or	Units	% Replaced Per Interval	Client Responsibility	Last In-Service	Est Useful Life	Repl Interval	Remain Useful Life	Next Repl. Year	Unit Cost	Replacement Cost for Study Year
120	SF	100.0%	100.00%	2007	35	35	20	2042	\$6.22	\$746.00
Yearly Expenditures for this component Year(s) and expenditures are shown below for this component if occurring within the study period.										
Unless a One-Time Expenditure, any expenditures after 2022 include a compounded inflation factor (see last page of this report).										
2042	\$1,419.71									
On 5/31/2022 By Mordechai Abada, DMA Reserves										
In good condition,										
001.000.0007	Sign stone wall		RED CLIFF LANE							
Component Details										
Field Meas. Quantity or	Units	% Replaced Per Interval	Client Responsibility	Last In-Service	Est Useful Life	Repl Interval	Remain Useful Life	Next Repl. Year	Unit Cost	Replacement Cost for Study Year
90	VSF	100.0%	100.00%	2011	50	50	39	2061	\$66.53	\$5,988.00

Crossroads Farm

001.000.0008		Sign stone walls, mortar set		RED CLIFF LANE							
Component Details											
Field Meas. Quantity or	Units	% Replaced Per Interval	Client Responsibility	Last In-Service	Est Useful Life	Repl Interval	Remain Useful Life	Next Repl. Year	Unit Cost	Replacement Cost for Study Year	
90	SF	100.00%	100.00%	2011	35	35	24	2046	\$6.22	\$560.00	
Yearly Expenditures for this component Year(s) and expenditures are shown below for this component if occurring within the study period.											
Unless a One-Time Expenditure, any expenditures after 2022 include a compounded inflation factor (see last page of this report).											
2046											
2046 \$1,160.37											
On 5/31/2022 By Mordechai Abada, DMA Reserves											
In good condition,											
001.000.0009		Sign stone wall.		RED CLIFF LANE							
Component Details											
Field Meas. Quantity or	Units	% Replaced Per Interval	Client Responsibility	Last In-Service	Est Useful Life	Repl Interval	Remain Useful Life	Next Repl. Year	Unit Cost	Replacement Cost for Study Year	
90	VSF	100.00%	100.00%	2011	50	50	39	2061	\$66.53	\$5,988.00	
001.000.0010		Sign stone walls, mortar set		RED CLIFF LANE							
Component Details											
Field Meas. Quantity or	Units	% Replaced Per Interval	Client Responsibility	Last In-Service	Est Useful Life	Repl Interval	Remain Useful Life	Next Repl. Year	Unit Cost	Replacement Cost for Study Year	
90	SF	100.00%	100.00%	2011	35	35	24	2046	\$6.22	\$560.00	
Yearly Expenditures for this component Year(s) and expenditures are shown below for this component if occurring within the study period.											
Unless a One-Time Expenditure, any expenditures after 2022 include a compounded inflation factor (see last page of this report).											
2046											
2046 \$1,160.37											

Crossroads Farm

001.000.0011		Sign lettering									BELLAVISTA DRIVE	
Component Details												
Field Meas. Quantity or	Units	% Replaced Per Interval	Client Responsibility	Last In- Service	Est Useful Life	Repl Interval	Remain Useful Life	Next Repl. Year	Unit Cost	Replacement Cost for Study Year		
14	EA	100.0%	100.00%	2007	25	25	10	2032	\$147.06	\$2,059.00		
Yearly Expenditures for this component Year(s) and expenditures are shown below for this component if occurring within the study period.												
Unless a One-Time Expenditure, any expenditures after 2022 include a compounded inflation factor (see last page of this report).												
2032												
001.000.0012		Sign lettering									RED CLIFF LANE	
Component Details												
Field Meas. Quantity or	Units	% Replaced Per Interval	Client Responsibility	Last In- Service	Est Useful Life	Repl Interval	Remain Useful Life	Next Repl. Year	Unit Cost	Replacement Cost for Study Year		
14	EA	100.0%	100.00%	2011	25	25	14	2036	\$147.06	\$2,059.00		
Yearly Expenditures for this component Year(s) and expenditures are shown below for this component if occurring within the study period.												
Unless a One-Time Expenditure, any expenditures after 2022 include a compounded inflation factor (see last page of this report).												
2036												
001.000.0013		Vinyl fence, 4-raii									BELLAVISTA DRIVE	
Component Details												
Field Meas. Quantity or	Units	% Replaced Per Interval	Client Responsibility	Last In- Service	Est Useful Life	Repl Interval	Remain Useful Life	Next Repl. Year	Unit Cost	Replacement Cost for Study Year		
480	LF	100.0%	100.00%	2003	35	35	16	2038	\$27.58	\$13,238.00		
Yearly Expenditures for this component Year(s) and expenditures are shown below for this component if occurring within the study period.												
Unless a One-Time Expenditure, any expenditures after 2022 include a compounded inflation factor (see last page of this report).												
2038												

Crossroads Farm

001.000.0014		Street name signs		Site-Wide												
Component Details																
Field Meas. Quantity or	Units	% Replaced Per Interval	Client Responsibility	Last In-Service	Est Useful Life	Repl Interval	Remain Useful Life	Next Repl. Year	Unit Cost	Replacement Cost for Study Year						
28	EA	100.00%	100.00%	2003	25	25	6	2028	\$119.26	\$3,339.00						
Yearly Expenditures for this component Year(s) and expenditures are shown below for this component if occurring within the study period.																
Unless a One-Time Expenditure, any expenditures after 2022 include a compounded inflation factor (see last page of this report).																
2028		\$4,379.40														
001.000.0015		Wood sign post		Site-Wide												
Component Details																
Field Meas. Quantity or	Units	% Replaced Per Interval	Client Responsibility	Last In-Service	Est Useful Life	Repl Interval	Remain Useful Life	Next Repl. Year	Unit Cost	Replacement Cost for Study Year						
28	EA	100.00%	100.00%	2003	25	25	6	2028	\$172.26	\$4,823.00						
Yearly Expenditures for this component Year(s) and expenditures are shown below for this component if occurring within the study period.																
Unless a One-Time Expenditure, any expenditures after 2022 include a compounded inflation factor (see last page of this report).																
2028		\$6,325.80														
001.000.0016		Traffic control signs		Site-Wide												
Component Details																
Field Meas. Quantity or	Units	% Replaced Per Interval	Client Responsibility	Last In-Service	Est Useful Life	Repl Interval	Remain Useful Life	Next Repl. Year	Unit Cost	Replacement Cost for Study Year						
37	EA	33.0%	100.00%	2003	25	25	6	2028	\$313.07	\$3,823.00						
Documented Costs were used for this component cost																
Year	Replacement Cost	Repl %	Quant	Unit	Comment											
2017	\$275.00	33.0%	37	EA												
Yearly Expenditures for this component Year(s) and expenditures are shown below for this component if occurring within the study period.																
Unless a One-Time Expenditure, any expenditures after 2022 include a compounded inflation factor (see last page of this report).																
2028		\$5,014.21														

Crossroads Farm

001.000.0017		Irrigation system electro mechanical controller				BELLAVISTA DRIVE				
Component Details										
Field Meas. Quantity or	Units	% Replaced Per Interval	Client Responsibility	Last In-Service	Est Useful Life	Repl Interval	Remain Useful Life	Next Repl. Year	Unit Cost	Replacement Cost for Study Year
1	EA	100.00%	100.00%	2003	25	10	6	2028	\$1,098.37	\$1,098.00

Yearly Expenditures for this component Year(s) and expenditures are shown below for this component if occurring within the study period.
Unless a One-Time Expenditure, any expenditures after 2022 include a compounded inflation factor (see last page of this report).

2028	\$1,440.13	2038	\$1,904.03	2048	\$2,368.04
------	------------	------	------------	------	------------

001.000.0018		Light poles, 12' steel or aluminum				BELLAVISTA DRIVE				
Component Details										
Field Meas. Quantity or	Units	% Replaced Per Interval	Client Responsibility	Last In-Service	Est Useful Life	Repl Interval	Remain Useful Life	Next Repl. Year	Unit Cost	Replacement Cost for Study Year
10	EA	100.00%	100.00%	2004	35	30	17	2039	\$1,594.76	\$15,948.00

Yearly Expenditures for this component Year(s) and expenditures are shown below for this component if occurring within the study period.
Unless a One-Time Expenditure, any expenditures after 2022 include a compounded inflation factor (see last page of this report).

2039	\$28,329.99
------	-------------

On 6/6/2022 By Mordechai Abada, DMA Reserves
Component Quantity was changed from 0 to 10.

On 6/6/2022 By Mordechai Abada, DMA Reserves
Estimated Useful Life was changed from 30 to 35.

Total for 001.000 AMENITIES	\$126,786.00
------------------------------------	---------------------

Crossroads Farm

002.001 ASPHALT OVERLAY

002.001.0001 Asphalt overlay

BELLAVISTA DRIVE

Component Details

Field Meas. Quantity or	Units	% Replaced Per Interval	Client Responsibility	Last In- Service	Est Useful Life	Repl Interval	Remain Useful Life	Next Repl. Year	Unit Cost	Replacement Cost for Study Year
3033	SY	100.0%	100.00%	2004	20	25	2	2024	\$12.40	\$37,609.00

Yearly Expenditures for this component Year(s) and expenditures are shown below for this component if occurring within the study period.

Unless a One-Time Expenditure, any expenditures after 2022 include a compounded inflation factor (see last page of this report).

2024	\$42,969.75	2049	\$82,700.77
------	-------------	------	-------------

On 5/27/2022 By Mordechai Abada, DMA Reserves

Asphalt shows signs of aging and deterioration. Some asphalt crack fillers and patching are failing.

002.001.0002 Asphalt overlay - Sections 1-4

FREDERICK ROAD

Component Details

Field Meas. Quantity or	Units	% Replaced Per Interval	Client Responsibility	Last In- Service	Est Useful Life	Repl Interval	Remain Useful Life	Next Repl. Year	Unit Cost	Replacement Cost for Study Year
4042	SY	100.0%	100.00%	2004	20	25	2	2024	\$12.40	\$50,121.00

Yearly Expenditures for this component Year(s) and expenditures are shown below for this component if occurring within the study period.

Unless a One-Time Expenditure, any expenditures after 2022 include a compounded inflation factor (see last page of this report).

2024	\$57,265.20	2049	\$110,214.21
------	-------------	------	--------------

On 5/27/2022 By Mordechai Abada, DMA Reserves

Asphalt shows signs of aging and deterioration. Some asphalt crack fillers and patching are failing.

Crossroads Farm

002.001.0003 Asphalt overlay		HOBART COURT								
Component Details										
Field Meas. Quantity or	Units	% Replaced Per Interval	Client Responsibility	Last In-Service	Est Useful Life	Repl Interval	Remain Useful Life	Next Repl. Year	Unit Cost	Replacement Cost for Study Year
931	SY	100.0%	100.00%	2004	20	25	2	2024	\$12.40	\$11,544.00
Yearly Expenditures for this component Year(s) and expenditures are shown below for this component if occurring within the study period.										
Unless a One-Time Expenditure, any expenditures after 2022 include a compounded inflation factor (see last page of this report).										
2024		\$13,189.47		2049			\$25,384.81			
On 5/27/2022 By Mordechai Abada, DMA Reserves										
Asphalt shows signs of aging and deterioration. Some asphalt crack fillers and patching are failing.										
002.001.0004 Asphalt overlay - Sections 1-4		CLAREMONT AVENUE								
Component Details										
Field Meas. Quantity or	Units	% Replaced Per Interval	Client Responsibility	Last In-Service	Est Useful Life	Repl Interval	Remain Useful Life	Next Repl. Year	Unit Cost	Replacement Cost for Study Year
4508	SY	100.0%	100.00%	2004	21	25	3	2025	\$12.40	\$55,899.00
Yearly Expenditures for this component Year(s) and expenditures are shown below for this component if occurring within the study period.										
Unless a One-Time Expenditure, any expenditures after 2022 include a compounded inflation factor (see last page of this report).										
2025		\$66,229.86		2050			\$125,279.88			
On 5/31/2022 By Mordechai Abada, DMA Reserves										
Asphalt shows signs of aging. Some asphalt fillers and patching are failing in addition to new cracks.										

Crossroads Farm

002.001.0005 Asphalt overlay		CHELSEA CIRCLE								
Component Details										
Field Meas. Quantity or	Units	% Replaced Per Interval	Client Responsibility	Last In-Service	Est Useful Life	Repl Interval	Remain Useful Life	Next Repl. Year	Unit Cost	Replacement Cost for Study Year
1221	SY	100.0%	100.00%	2004	21	25	3	2025	\$12.40	\$15,140.00
Yearly Expenditures for this component Year(s) and expenditures are shown below for this component if occurring within the study period.										
Unless a One-Time Expenditure, any expenditures after 2022 include a compounded inflation factor (see last page of this report).										
2025		\$17,938.07		2050			\$33,931.47			
On 5/27/2022 By Mordechai Abada, DMA Reserves										
Asphalt shows signs of aging. Some asphalt fillers and patching are failing in addition to new cracks.										
002.001.0006 Asphalt overlay - Section 5		FREDERICK ROAD								
Component Details										
Field Meas. Quantity or	Units	% Replaced Per Interval	Client Responsibility	Last In-Service	Est Useful Life	Repl Interval	Remain Useful Life	Next Repl. Year	Unit Cost	Replacement Cost for Study Year
4116	SY	100.0%	100.00%	2006	25	25	9	2031	\$12.40	\$51,038.00
Yearly Expenditures for this component Year(s) and expenditures are shown below for this component if occurring within the study period.										
Unless a One-Time Expenditure, any expenditures after 2022 include a compounded inflation factor (see last page of this report).										
2031		\$73,411.30								
On 5/27/2022 By Mordechai Abada, DMA Reserves										
Asphalt is in fair condition.										

Crossroads Farm

002.001.0007 Asphalt overlay		BENNINGTON PLACE								
Component Details										
Field Meas. Quantity or	Units	% Replaced Per Interval	Client Responsibility	Last In-Service	Est Useful Life	Repl Interval	Remain Useful Life	Next Repl. Year	Unit Cost	Replacement Cost for Study Year
1252	SY	100.0%	100.00%	2006	25	25	9	2031	\$12.40	\$15,525.00

Yearly Expenditures for this component Year(s) and expenditures are shown below for this component if occurring within the study period.
Unless a One-Time Expenditure, any expenditures after 2022 include a compounded inflation factor (see last page of this report).

2031	\$22,330.62
------	-------------

On 5/27/2022 By Mordechai Abada, DMA Reserves
Asphalt is in fair condition.

002.001.0008 Asphalt overlay		YORK PLACE								
Component Details										
Field Meas. Quantity or	Units	% Replaced Per Interval	Client Responsibility	Last In-Service	Est Useful Life	Repl Interval	Remain Useful Life	Next Repl. Year	Unit Cost	Replacement Cost for Study Year
1079	SY	100.0%	100.00%	2006	25	25	9	2031	\$12.40	\$13,380.00

Yearly Expenditures for this component Year(s) and expenditures are shown below for this component if occurring within the study period.
Unless a One-Time Expenditure, any expenditures after 2022 include a compounded inflation factor (see last page of this report).

2031	\$19,245.31
------	-------------

Crossroads Farm

002.001.0009 Asphalt overlay		CAMBRIDGE CIRCLE								
Component Details										
Field Meas. Quantity or	Units	% Replaced Per Interval	Client Responsibility	Last In-Service	Est Useful Life	Repl Interval	Remain Useful Life	Next Repl. Year	Unit Cost	Replacement Cost for Study Year
873	SY	100.0%	100.00%	2006	25	25	9	2031	\$12.40	\$10,825.00
Yearly Expenditures for this component Year(s) and expenditures are shown below for this component if occurring within the study period.										
Unless a One-Time Expenditure, any expenditures after 2022 include a compounded inflation factor (see last page of this report).										
2031		\$15,570.30								
On 5/27/2022		By Mordechai Abada, DMA Reserves								
Asphalt is in fair condition.										
002.001.0010 Asphalt overlay		PENSHURST PLACE								
Component Details										
Field Meas. Quantity or	Units	% Replaced Per Interval	Client Responsibility	Last In-Service	Est Useful Life	Repl Interval	Remain Useful Life	Next Repl. Year	Unit Cost	Replacement Cost for Study Year
898	SY	100.0%	100.00%	2006	25	25	9	2031	\$12.40	\$11,135.00
Yearly Expenditures for this component Year(s) and expenditures are shown below for this component if occurring within the study period.										
Unless a One-Time Expenditure, any expenditures after 2022 include a compounded inflation factor (see last page of this report).										
2031		\$16,016.22								
On 5/27/2022		By Mordechai Abada, DMA Reserves								
Asphalt is in fair condition.										

Crossroads Farm

002.001.0011 Asphalt overlay		FLYNTSHIRE PLACE								
Component Details										
Field Meas. Quantity or	Units	% Replaced Per Interval	Client Responsibility	Last In-Service	Est Useful Life	Repl Interval	Remain Useful Life	Next Repl. Year	Unit Cost	Replacement Cost for Study Year
1279	SY	100.0%	100.00%	2006	25	25	9	2031	\$12.40	\$15,860.00

Yearly Expenditures for this component Year(s) and expenditures are shown below for this component if occurring within the study period.
Unless a One-Time Expenditure, any expenditures after 2022 include a compounded inflation factor (see last page of this report).

2031	\$22,812.47
------	-------------

On 5/27/2022 By Mordechai Abada, DMA Reserves
Asphalt is in fair condition.

002.001.0012 Asphalt overlay		CAMBRIDGE CIRCLE								
Component Details										
Field Meas. Quantity or	Units	% Replaced Per Interval	Client Responsibility	Last In-Service	Est Useful Life	Repl Interval	Remain Useful Life	Next Repl. Year	Unit Cost	Replacement Cost for Study Year
1573	SY	100.0%	100.00%	2006	25	25	9	2031	\$12.40	\$19,505.00

Yearly Expenditures for this component Year(s) and expenditures are shown below for this component if occurring within the study period.
Unless a One-Time Expenditure, any expenditures after 2022 include a compounded inflation factor (see last page of this report).

2031	\$28,055.32
------	-------------

On 5/27/2022 By Mordechai Abada, DMA Reserves
Asphalt is in fair condition.

Crossroads Farm

002.001.0013		Asphalt overlay - Section 7		FREDERICK ROAD																	
Component Details																					
Field Meas. Quantity or	Units	% Replaced Per Interval	Client Responsibility	Last In- Service	Est Useful Life	Repl Interval	Remain Useful Life	Next Repl. Year	Unit Cost	Replacement Cost for Study Year											
1040		SY		100.00%		100.00%		2006		25											
								25		9											
								2031		\$12.40											
										\$12,896.00											
Yearly Expenditures for this component Year(s) and expenditures are shown below for this component if occurring within the study period.																					
Unless a One-Time Expenditure, any expenditures after 2022 include a compounded inflation factor (see last page of this report).																					
2031		\$18,549.16																			

002.001.0014		Asphalt overlay - Section 8		FREDERICK ROAD																	
Component Details																					
Field Meas. Quantity or	Units	% Replaced Per Interval	Client Responsibility	Last In- Service	Est Useful Life	Repl Interval	Remain Useful Life	Next Repl. Year	Unit Cost	Replacement Cost for Study Year											
3430		SY		100.00%		100.00%		2006		25											
						25		25		9											
								2031		\$12.40											
Yearly Expenditures for this component Year(s) and expenditures are shown below for this component if occurring within the study period.																					
Unless a One-Time Expenditure, any expenditures after 2022 include a compounded inflation factor (see last page of this report).																					
2031		\$61,176.57																			
On 5/27/2022		By Mordechai Abada, DMA Reserves																			
Asphalt is in fair condition.																					

002.001.0015		Asphalt overlay		PELHAM PLACE																	
Component Details																					
Field Meas. Quantity or	Units	% Replaced Per Interval	Client Responsibility	Last In- Service	Est Useful Life	Repl Interval	Remain Useful Life	Next Repl. Year	Unit Cost	Replacement Cost for Study Year											
1159		SY		100.00%		100.00%		2006		25											
						25		25		9											
								2031		\$12.40											
Yearly Expenditures for this component Year(s) and expenditures are shown below for this component if occurring within the study period.																					
Unless a One-Time Expenditure, any expenditures after 2022 include a compounded inflation factor (see last page of this report).																					
2031		\$20,672.19																			

Crossroads Farm

002.001.0016	Asphalt overlay	ELGIN COURT
--------------	-----------------	-------------

Component Details

Field Meas. Quantity or	Units	% Replaced Per Interval	Client Responsibility	Last In- Service	Est Useful Life	Repl Interval	Remain Useful Life	Next Repl. Year	Unit Cost	Replacement Cost for Study Year
1187	SY	100.0%	100.00%	2009	25	25	12	2034	\$12.40	\$14,719.00

Yearly Expenditures for this component Year(s) and expenditures are shown below for this component if occurring within the study period.

Unless a One-Time Expenditure, any expenditures after 2022 include a compounded inflation factor (see last page of this report).

2034	\$23,035.74
------	-------------

On 5/27/2022 By Mordechai Abada, DMA Reserves

Asphalt is in fair condition.

002.001.0017	Asphalt overlay	BEDFORD PLACE
--------------	-----------------	---------------

Component Details

Field Meas. Quantity or	Units	% Replaced Per Interval	Client Responsibility	Last In- Service	Est Useful Life	Repl Interval	Remain Useful Life	Next Repl. Year	Unit Cost	Replacement Cost for Study Year
946	SY	100.0%	100.00%	2007	25	25	10	2032	\$12.40	\$11,730.00

Yearly Expenditures for this component Year(s) and expenditures are shown below for this component if occurring within the study period.

Unless a One-Time Expenditure, any expenditures after 2022 include a compounded inflation factor (see last page of this report).

2032	\$17,368.07
------	-------------

On 5/27/2022 By Mordechai Abada, DMA Reserves

Asphalt is in fair condition.

Crossroads Farm

002.001.0018		Asphalt overlay - Section 10		CLAREMONT AVENUE																									
Component Details																													
Field Meas. Quantity or	Units	% Replaced Per Interval	Client Responsibility	Last In- Service	Est Useful Life	Repl Interval	Remain Useful Life	Next Repl. Year	Unit Cost	Replacement Cost for Study Year																			
4187		SY		100.00%		100.00%		2007		25																			
								25		10																			
								2032		\$12.40																			
										\$51,919.00																			
Yearly Expenditures for this component Year(s) and expenditures are shown below for this component if occurring within the study period.																													
Unless a One-Time Expenditure, any expenditures after 2022 include a compounded inflation factor (see last page of this report).																													
2032		\$76,874.04																											
On 5/27/2022		By Mordechai Abada, DMA Reserves																											
Asphalt is in fair condition.																													
002.001.0019		Asphalt overlay - Section 11		BEAUFORD ROAD																									
Component Details																													
Field Meas. Quantity or	Units	% Replaced Per Interval	Client Responsibility	Last In- Service	Est Useful Life	Repl Interval	Remain Useful Life	Next Repl. Year	Unit Cost	Replacement Cost for Study Year																			
1540		SY		100.0%		100.00%		2015		25																			
								25		18																			
								2040		\$12.40																			
		\$19,096.00																											
Yearly Expenditures for this component Year(s) and expenditures are shown below for this component if occurring within the study period.																													
Unless a One-Time Expenditure, any expenditures after 2022 include a compounded inflation factor (see last page of this report).																													
2040		\$34,729.44																											
On 5/27/2022		By Mordechai Abada, DMA Reserves																											
Asphalt is in good condition.																													

Crossroads Farm

002.001.0020 Asphalt overlay		TILBURY COURT								
Component Details										
Field Meas. Quantity or	Units	% Replaced Per Interval	Client Responsibility	Last In-Service	Est Useful Life	Repl Interval	Remain Useful Life	Next Repl. Year	Unit Cost	Replacement Cost for Study Year
444	SY	100.0%	100.00%	2009	25	25	12	2034	\$12.40	\$5,506.00

Yearly Expenditures for this component Year(s) and expenditures are shown below for this component if occurring within the study period.
Unless a One-Time Expenditure, any expenditures after 2022 include a compounded inflation factor (see last page of this report).

2034	\$8,617.09
------	------------

On 5/27/2022 By Mordechai Abada, DMA Reserves
Asphalt is in fair condition.

002.001.0021 Asphalt overlay - Section 12		BEAUFORD ROAD								
Component Details										
Field Meas. Quantity or	Units	% Replaced Per Interval	Client Responsibility	Last In-Service	Est Useful Life	Repl Interval	Remain Useful Life	Next Repl. Year	Unit Cost	Replacement Cost for Study Year
1067	SY	100.0%	100.00%	2009	25	25	12	2034	\$12.40	\$13,231.00

Yearly Expenditures for this component Year(s) and expenditures are shown below for this component if occurring within the study period.
Unless a One-Time Expenditure, any expenditures after 2022 include a compounded inflation factor (see last page of this report).

2034	\$20,706.98
------	-------------

On 5/27/2022 By Mordechai Abada, DMA Reserves
Asphalt is in fair condition.

Crossroads Farm

002.001.0022 Asphalt overlay		CADOGAN COURT								
Component Details										
Field Meas. Quantity or	Units	% Replaced Per Interval	Client Responsibility	Last In-Service	Est Useful Life	Repl Interval	Remain Useful Life	Next Repl. Year	Unit Cost	Replacement Cost for Study Year
1020	SY	100.00%	100.00%	2015	25	25	18	2040	\$12.40	\$12,648.00

Yearly Expenditures for this component Year(s) and expenditures are shown below for this component if occurring within the study period.
Unless a One-Time Expenditure, any expenditures after 2022 include a compounded inflation factor (see last page of this report).

2040	\$23,002.60
------	-------------

On 5/27/2022 By Mordechai Abada, DMA Reserves
Asphalt is in good condition.

002.001.0023 Asphalt overlay - Section 13		FREDERICK ROAD								
Component Details										
Field Meas. Quantity or	Units	% Replaced Per Interval	Client Responsibility	Last In-Service	Est Useful Life	Repl Interval	Remain Useful Life	Next Repl. Year	Unit Cost	Replacement Cost for Study Year
2227	SY	100.00%	100.00%	2008	25	25	11	2033	\$12.40	\$27,615.00

Yearly Expenditures for this component Year(s) and expenditures are shown below for this component if occurring within the study period.
Unless a One-Time Expenditure, any expenditures after 2022 include a compounded inflation factor (see last page of this report).

2033	\$42,053.55
------	-------------

On 5/27/2022 By Mordechai Abada, DMA Reserves
Asphalt is in fair condition.

Crossroads Farm

002.001.0024 Asphalt overlay		HASTINGS PLACE								
Component Details										
Field Meas. Quantity or	Units	% Replaced Per Interval	Client Responsibility	Last In-Service	Est Useful Life	Repl Interval	Remain Useful Life	Next Repl. Year	Unit Cost	Replacement Cost for Study Year
1293	SY	100.0%	100.00%	2008	25	25	11	2033	\$12.40	\$16,033.00

Yearly Expenditures for this component Year(s) and expenditures are shown below for this component if occurring within the study period.
Unless a One-Time Expenditure, any expenditures after 2022 include a compounded inflation factor (see last page of this report).

2033	\$24,415.88
------	-------------

002.001.0025 Asphalt overlay - Section 14		CLAREMONT AVENUE								
Component Details										
Field Meas. Quantity or	Units	% Replaced Per Interval	Client Responsibility	Last In-Service	Est Useful Life	Repl Interval	Remain Useful Life	Next Repl. Year	Unit Cost	Replacement Cost for Study Year
2133	SY	100.0%	100.00%	2011	25	25	14	2036	\$12.40	\$26,449.00

Yearly Expenditures for this component Year(s) and expenditures are shown below for this component if occurring within the study period.
Unless a One-Time Expenditure, any expenditures after 2022 include a compounded inflation factor (see last page of this report).

2036	\$43,629.27
------	-------------

On 5/27/2022 By Mordechai Abada, DMA Reserves
Asphalt is in good condition.

Crossroads Farm

002.001.0026 Asphalt overlay		WILTON PLACE								
Component Details										
Field Meas. Quantity or	Units	% Replaced Per Interval	Client Responsibility	Last In-Service	Est Useful Life	Repl Interval	Remain Useful Life	Next Repl. Year	Unit Cost	Replacement Cost for Study Year
1453	SY	100.0%	100.00%	2011	25	25	14	2036	\$12.40	\$18,017.00

Yearly Expenditures for this component Year(s) and expenditures are shown below for this component if occurring within the study period.
Unless a One-Time Expenditure, any expenditures after 2022 include a compounded inflation factor (see last page of this report).

2036	\$29,720.17
------	-------------

On 5/27/2022 By Mordechai Abada, DMA Reserves
Asphalt is in fair condition.

002.001.0027 Asphalt overlay - Section 16		CLAREMONT AVENUE								
Component Details										
Field Meas. Quantity or	Units	% Replaced Per Interval	Client Responsibility	Last In-Service	Est Useful Life	Repl Interval	Remain Useful Life	Next Repl. Year	Unit Cost	Replacement Cost for Study Year
1467	SY	100.0%	100.00%	2011	25	25	14	2036	\$12.40	\$18,191.00

Yearly Expenditures for this component Year(s) and expenditures are shown below for this component if occurring within the study period.
Unless a One-Time Expenditure, any expenditures after 2022 include a compounded inflation factor (see last page of this report).

2036	\$30,007.22
------	-------------

On 5/27/2022 By Mordechai Abada, DMA Reserves
Asphalt is in fair condition.

Crossroads Farm

002.001.0028 Asphalt overlay		MARKHAM PLACE								
Component Details										
Field Meas. Quantity or	Units	% Replaced Per Interval	Client Responsibility	Last In-Service	Est Useful Life	Repl Interval	Remain Useful Life	Next Repl. Year	Unit Cost	Replacement Cost for Study Year
1284	SY	100.0%	100.00%	2011	25	25	14	2036	\$12.40	\$15,922.00

Yearly Expenditures for this component Year(s) and expenditures are shown below for this component if occurring within the study period.
Unless a One-Time Expenditure, any expenditures after 2022 include a compounded inflation factor (see last page of this report).

2036	\$26,264.36
------	-------------

On 5/27/2022 By Mordechai Abada, DMA Reserves
Asphalt is in fair condition.

002.001.0029 Asphalt overlay - Section 17		CLAREMONT AVENUE								
Component Details										
Field Meas. Quantity or	Units	% Replaced Per Interval	Client Responsibility	Last In-Service	Est Useful Life	Repl Interval	Remain Useful Life	Next Repl. Year	Unit Cost	Replacement Cost for Study Year
1071	SY	100.0%	100.00%	2011	25	25	14	2036	\$12.40	\$13,280.00

Yearly Expenditures for this component Year(s) and expenditures are shown below for this component if occurring within the study period.
Unless a One-Time Expenditure, any expenditures after 2022 include a compounded inflation factor (see last page of this report).

2036	\$21,906.20
------	-------------

On 5/27/2022 By Mordechai Abada, DMA Reserves
Asphalt is in fair condition.

Crossroads Farm

002.001.0030	Asphalt overlay	RED CLIFF LANE
--------------	-----------------	----------------

Component Details

Field Meas. Quantity or	Units	% Replaced Per Interval	Client Responsibility	Last In- Service	Est Useful Life	Repl Interval	Remain Useful Life	Next Repl. Year	Unit Cost	Replacement Cost for Study Year
1653	SY	100.0%	100.00%	2011	25	25	14	2036	\$12.40	\$20,497.00

Yearly Expenditures for this component Year(s) and expenditures are shown below for this component if occurring within the study period.

Unless a One-Time Expenditure, any expenditures after 2022 include a compounded inflation factor (see last page of this report).

2036	\$33,811.11
------	-------------

On 5/27/2022 By Mordechai Abada, DMA Reserves

Asphalt is in fair condition.

002.001.0031	Asphalt overlay - Section 18	BEAUFORD ROAD
--------------	------------------------------	---------------

Component Details

Field Meas. Quantity or	Units	% Replaced Per Interval	Client Responsibility	Last In- Service	Est Useful Life	Repl Interval	Remain Useful Life	Next Repl. Year	Unit Cost	Replacement Cost for Study Year
1540	SY	100.0%	100.00%	2017	25	25	20	2042	\$12.40	\$19,096.00

Yearly Expenditures for this component Year(s) and expenditures are shown below for this component if occurring within the study period.

Unless a One-Time Expenditure, any expenditures after 2022 include a compounded inflation factor (see last page of this report).

2042	\$36,341.81
------	-------------

On 5/27/2022 By Mordechai Abada, DMA Reserves

Asphalt is in good condition.

Crossroads Farm

002.001.0032	Asphalt overlay	BROMPTON COURT
--------------	-----------------	----------------

Component Details

Field Meas. Quantity or	Units	% Replaced Per Interval	Client Responsibility	Last In- Service	Est Useful Life	Repl Interval	Remain Useful Life	Next Repl. Year	Unit Cost	Replacement Cost for Study Year
1020	SY	100.00%	100.00%	2017	25	25	20	2042	\$12.40	\$12,648.00

Yearly Expenditures for this component Year(s) and expenditures are shown below for this component if occurring within the study period.

Unless a One-Time Expenditure, any expenditures after 2022 include a compounded inflation factor (see last page of this report).

2042	\$24,070.53
------	-------------

On 5/27/2022 By Mordechai Abada, DMA Reserves

Asphalt is in good condition.

002.001.0033	Asphalt overlay - Section 19	FREDERICK ROAD
--------------	------------------------------	----------------

Component Details

Field Meas. Quantity or	Units	% Replaced Per Interval	Client Responsibility	Last In- Service	Est Useful Life	Repl Interval	Remain Useful Life	Next Repl. Year	Unit Cost	Replacement Cost for Study Year
1668	SY	100.0%	100.00%	2017	25	25	20	2042	\$12.40	\$20,683.00

Yearly Expenditures for this component Year(s) and expenditures are shown below for this component if occurring within the study period.

Unless a One-Time Expenditure, any expenditures after 2022 include a compounded inflation factor (see last page of this report).

2042	\$39,362.04
------	-------------

On 5/27/2022 By Mordechai Abada, DMA Reserves

Asphalt is in good condition.

Crossroads Farm

002.001.0034 Asphalt overlay		KESWICK COURT								
Component Details										
Field Meas. Quantity or	Units	% Replaced Per Interval	Client Responsibility	Last In-Service	Est Useful Life	Repl Interval	Remain Useful Life	Next Repl. Year	Unit Cost	Replacement Cost for Study Year
925	SY	100.00%	100.00%	2017	25	25	20	2042	\$12.40	\$11,470.00
Yearly Expenditures for this component Year(s) and expenditures are shown below for this component if occurring within the study period.										
Unless a One-Time Expenditure, any expenditures after 2022 include a compounded inflation factor (see last page of this report).										
2042										
On 5/31/2022		By Mordechai Abada, DMA Reserves								
Asphalt is in good condition.										

002.001.0035 Asphalt overlay - Section 20		BEAUFORD ROAD								
Component Details										
Field Meas. Quantity or	Units	% Replaced Per Interval	Client Responsibility	Last In-Service	Est Useful Life	Repl Interval	Remain Useful Life	Next Repl. Year	Unit Cost	Replacement Cost for Study Year
1540	SY	100.00%	100.00%	2019	25	25	22	2044	\$12.40	\$19,096.00
Yearly Expenditures for this component Year(s) and expenditures are shown below for this component if occurring within the study period.										
Unless a One-Time Expenditure, any expenditures after 2022 include a compounded inflation factor (see last page of this report).										
2044										
On 5/27/2022		By Mordechai Abada, DMA Reserves								
Asphalt is in good condition.										
On 6/6/2022		By Mordechai Abada, DMA Reserves								
Last Inservice Year was changed from 2018 to 2019.										

Crossroads Farm

002.001.0036 Asphalt overlay		ALNWICK COURT								
Component Details										
Field Meas. Quantity or	Units	% Replaced Per Interval	Client Responsibility	Last In-Service	Est Useful Life	Repl Interval	Remain Useful Life	Next Repl. Year	Unit Cost	Replacement Cost for Study Year
1441	SY	100.0%	100.00%	2019	25	25	22	2044	\$12.40	\$17,868.00
Yearly Expenditures for this component Year(s) and expenditures are shown below for this component if occurring within the study period.										
Unless a One-Time Expenditure, any expenditures after 2022 include a compounded inflation factor (see last page of this report).										
2044										
On 5/27/2022 By Mordechai Abada, DMA Reserves										
Asphalt is in good condition.										
On 6/6/2022 By Mordechai Abada, DMA Reserves										
Last Inservice Year was changed from 2018 to 2019.										
002.001.0037 Asphalt overlay - Section 21		FREDERICK ROAD								
Component Details										
Field Meas. Quantity or	Units	% Replaced Per Interval	Client Responsibility	Last In-Service	Est Useful Life	Repl Interval	Remain Useful Life	Next Repl. Year	Unit Cost	Replacement Cost for Study Year
2458	SY	100.0%	100.00%	2021	25	25	24	2046	\$12.40	\$30,479.00
Yearly Expenditures for this component Year(s) and expenditures are shown below for this component if occurring within the study period.										
Unless a One-Time Expenditure, any expenditures after 2022 include a compounded inflation factor (see last page of this report).										
2046										
On 5/27/2022 By Mordechai Abada, DMA Reserves										
Asphalt is in good condition.										

Crossroads Farm

002.001.0038 Asphalt overlay		COLCHESTER COURT								
Component Details										
Field Meas. Quantity or	Units	% Replaced Per Interval	Client Responsibility	Last In-Service	Est Useful Life	Repl Interval	Remain Useful Life	Next Repl. Year	Unit Cost	Replacement Cost for Study Year
1109	SY	100.0%	100.00%	2021	25	25	24	2046	\$12.40	\$13,752.00

Yearly Expenditures for this component Year(s) and expenditures are shown below for this component if occurring within the study period.
Unless a One-Time Expenditure, any expenditures after 2022 include a compounded inflation factor (see last page of this report).

2046	\$28,495.97
------	-------------

On 5/27/2022 By Mordechai Abada, DMA Reserves
Asphalt is in good condition.

002.001.0039 Asphalt overlay		SALSBURY COURT								
Component Details										
Field Meas. Quantity or	Units	% Replaced Per Interval	Client Responsibility	Last In-Service	Est Useful Life	Repl Interval	Remain Useful Life	Next Repl. Year	Unit Cost	Replacement Cost for Study Year
1166	SY	100.0%	100.00%	2021	25	25	24	2046	\$12.40	\$14,458.00

Yearly Expenditures for this component Year(s) and expenditures are shown below for this component if occurring within the study period.
Unless a One-Time Expenditure, any expenditures after 2022 include a compounded inflation factor (see last page of this report).

2046	\$29,958.89
------	-------------

On 5/27/2022 By Mordechai Abada, DMA Reserves
Asphalt is in good condition.

Crossroads Farm

002.001.0040	Asphalt overlay - Section 22		BEDFORD PLACE							
--------------	------------------------------	--	---------------	--	--	--	--	--	--	--

Component Details

Field Meas. Quantity or	Units	% Replaced Per Interval	Client Responsibility	Last In- Service	Est Useful Life	Repl Interval	Remain Useful Life	Next Repl. Year	Unit Cost	Replacement Cost for Study Year
1540	SY	100.0%	100.00%	2017	25	25	20	2042	\$12.40	\$19,096.00

Yearly Expenditures for this component Year(s) and expenditures are shown below for this component if occurring within the study period.

Unless a One-Time Expenditure, any expenditures after 2022 include a compounded inflation factor (see last page of this report).

2042	\$36,341.81
------	-------------

On 5/27/2022 By Mordechai Abada, DMA Reserves

Asphalt is in good condition.

002.001.0041	Asphalt overlay - Section 23		BEAUFORD ROAD							
--------------	------------------------------	--	---------------	--	--	--	--	--	--	--

Component Details

Field Meas. Quantity or	Units	% Replaced Per Interval	Client Responsibility	Last In- Service	Est Useful Life	Repl Interval	Remain Useful Life	Next Repl. Year	Unit Cost	Replacement Cost for Study Year
1540	SY	100.0%	100.00%	2017	25	25	20	2042	\$12.40	\$19,096.00

Yearly Expenditures for this component Year(s) and expenditures are shown below for this component if occurring within the study period.

Unless a One-Time Expenditure, any expenditures after 2022 include a compounded inflation factor (see last page of this report).

2042	\$36,341.81
------	-------------

On 5/27/2022 By Mordechai Abada, DMA Reserves

Asphalt is in good condition.

Crossroads Farm

002.001.0042 Asphalt overlay		RADNOR COURT								
Component Details										
Field Meas. Quantity or	Units	% Replaced Per Interval	Client Responsibility	Last In- Service	Est Useful Life	Repl Interval	Remain Useful Life	Next Repl. Year	Unit Cost	Replacement Cost for Study Year
1381	SY	100.0%	100.00%	2017	25	25	20	2042	\$12.40	\$17,124.00

Yearly Expenditures for this component Year(s) and expenditures are shown below for this component if occurring within the study period.
Unless a One-Time Expenditure, any expenditures after 2022 include a compounded inflation factor (see last page of this report).

2042	\$32,588.90
------	-------------

On 5/27/2022 By Mordechai Abada, DMA Reserves
Asphalt is in good condition.

Crossroads Farm

002.001.0043		Asphalt patching allowance		Site-Wide							
Component Details											
Field Meas. Quantity or	Units	% Replaced Per Interval	Client Responsibility	Last In-Service	Est Useful Life	Repl. Interval	Remain Useful Life	Next Repl. Year	Unit Cost	Replacement Cost for Study Year	
1	LS	1.0%	100.00%	2022	5	2	5	2027	\$3,929,927.00	\$39,299.00	
<u>Detail of components within the assembly:</u>											
1	Asphalt patching allowance SECTIONS 1-4			13735	SY		100.00%	100.0%	\$55.56	\$763,117.00	
2	Asphalt patching allowance SECTION 5			7320	SY		100.00%	100.0%	\$55.56	\$406,699.00	
3	Asphalt patching allowance SECTION 6			1573	SY		100.00%	100.0%	\$55.56	\$87,396.00	
4	Asphalt patching allowance SECTION 7			1938	SY		100.00%	100.0%	\$55.56	\$107,675.00	
5	Asphalt patching allowance SECTION 8			5868	SY		100.00%	100.0%	\$55.56	\$326,026.00	
6	Asphalt patching allowance SECTION 9			1187	SY		100.00%	100.0%	\$55.56	\$65,950.00	
7	Asphalt patching allowance SECTION 10			5133	SY		100.00%	100.0%	\$55.56	\$285,190.00	
8	Asphalt patching allowance SECTION 12			1511	SY		100.00%	100.0%	\$55.56	\$83,951.00	
9	Asphalt patching allowance SECTION ??			2560	SY		100.00%	100.0%	\$55.56	\$142,234.00	
10	Asphalt patching allowance SECTION 13			3520	SY		100.00%	100.0%	\$55.56	\$195,571.00	
11	Asphalt patching allowance SECTION 14			3586	SY		100.00%	100.0%	\$55.56	\$199,238.00	
12	Asphalt patching allowance SECTION 16			3120	SY		100.00%	100.0%	\$55.56	\$173,347.00	
13	Asphalt patching allowance SECTION 17			2355	SY		100.00%	100.0%	\$55.56	\$130,844.00	

Crossroads Farm

14	Asphalt patching allowance SECTION 18	2560	SY	100.00%	100.0%	\$55.56	\$142,234.00
15	Asphalt patching allowance SECTION 19	2592	SY	100.00%	100.0%	\$55.56	\$144,012.00
16	Asphalt patching allowance SECTION 20.	2981	SY	100.00%	100.0%	\$55.56	\$165,624.00
17	Asphalt patching allowance SECTION 21	4733	SY	100.00%	100.0%	\$55.56	\$262,966.00
18	Asphalt patching allowance SECTION 22?	2921	SY	100.00%	100.0%	\$55.56	\$162,291.00
19	Asphalt patching allowance SECTION 23?	1540	SY	100.00%	100.0%	\$55.56	\$85,562.00

Yearly Expenditures for this component Year(s) and expenditures are shown below for this component if occurring within the study period.

Unless a One-Time Expenditure, any expenditures after 2022 include a compounded inflation factor (see last page of this report).

2022	\$39,299.00	2027	\$49,883.13	2029	\$53,203.96
2031	\$56,526.30	2033	\$59,846.53	2035	\$63,164.90
2037	\$66,485.69	2039	\$69,810.64	2041	\$73,130.28
2043	\$76,450.69	2045	\$79,773.41	2047	\$83,093.93
2049	\$86,417.02	2051	\$89,740.87		

Crossroads Farm

002.001.0044		Crack filling allowance		Site-Wide							
Component Details											
Field Meas. Quantity or	Units	% Replaced Per Interval	Client Responsibility	Last In- Service	Est Useful Life	Repl Interval	Remain Useful Life	Next Repl. Year	Unit Cost	Replacement Cost for Study Year	
1	LS	20.0%	100.00%	2022	6	6	6	2028	\$119,890.00	\$23,978.00	
<u>Detail of components within the assembly:</u>											
1	Crack Filler SECTIONS 1-4			10302	LF	100.00%	100.0%		\$2.26	\$23,283.00	
2	Crack Filler SECTION 5			5490	LF	100.00%	100.0%		\$2.26	\$12,407.00	
3	Crack Filler SECTION 6			1180	LF	100.00%	100.0%		\$2.26	\$2,667.00	
4	Crack Filler SECTION 7			1454	LF	100.00%	100.0%		\$2.26	\$3,286.00	
5	Crack Filler SECTION 8			4401	LF	100.00%	100.0%		\$2.26	\$9,946.00	
6	Crack Filler SECTION 9			890	LF	100.00%	100.0%		\$2.26	\$2,011.00	
7	Crack Filler SECTION 10			3850	LF	100.00%	100.0%		\$2.26	\$8,701.00	
8	Crack Filler SECTION 12			1133	LF	100.00%	100.0%		\$2.26	\$2,561.00	
9	Crack Filler SECTION ??			1920	LF	100.00%	100.0%		\$2.26	\$4,339.00	
10	Crack Filler SECTION 13			2640	LF	100.00%	100.0%		\$2.26	\$5,966.00	
11	Crack Filler SECTION 14			2690	LF	100.00%	100.0%		\$2.26	\$6,079.00	
12	Crack Filler SECTION 16			2340	LF	100.00%	100.0%		\$2.26	\$5,288.00	
13	Crack Filler SECTION 17			1766	LF	100.00%	100.0%		\$2.26	\$3,991.00	

Crossroads Farm

14	Crack Filler SECTION 18	1920	LF	100.00%	100.0%	\$2.26	\$4,339.00
15	Crack Filler SECTION 19	1944	LF	100.00%	100.0%	\$2.26	\$4,393.00
16	Crack Filler SECTION 20.	2235	LF	100.00%	100.0%	\$2.26	\$5,051.00
17	Crack Filler SECTION 21	3550	LF	100.00%	100.0%	\$2.26	\$8,023.00
18	Crack Filler SECTION 22?	2190	LF	100.00%	100.0%	\$2.26	\$4,949.00
19	Crack Filler SECTION 23?	1155	LF	100.00%	100.0%	\$2.26	\$2,610.00

Yearly Expenditures for this component Year(s) and expenditures are shown below for this component if occurring within the study period.

Unless a One-Time Expenditure, any expenditures after 2022 include a compounded inflation factor (see last page of this report).

2022	\$23,978.00	2028	\$31,449.34	2034	\$37,526.39
2040	\$43,608.19	2046	\$49,685.55		

Total for 002.001 ASPHALT OVERLAY **\$940,377.00**

Crossroads Farm

002.002 EROSION CONTROL

002.002.0001 Replace stormwater piping under roadway

SECTIONS 1-4

Component Details

Field Meas. Quantity or	Units	% Replaced Per Interval	Client Responsibility	Last In- Service	Est Useful Life	Repl Interval	Remain Useful Life	Next Repl. Year	Unit Cost	Replacement Cost for Study Year
752	LF	10.0%	100.00%	2004	30	5	12	2034	\$118.01	\$8,874.00

Yearly Expenditures for this component Year(s) and expenditures are shown below for this component if occurring within the study period.

Unless a One-Time Expenditure, any expenditures after 2022 include a compounded inflation factor (see last page of this report).

2034	\$13,888.13	2039	\$15,763.76	2044	\$17,637.74
2049	\$19,513.59				

On 5/31/2022 By Mordechai Abada, DMA Reserves

Assumed to be in proper functioning condition.

002.002.0002 Corrugated metal pipe, 15"

SECTION 5

Component Details

Field Meas. Quantity or	Units	% Replaced Per Interval	Client Responsibility	Last In- Service	Est Useful Life	Repl Interval	Remain Useful Life	Next Repl. Year	Unit Cost	Replacement Cost for Study Year
170	LF	100.0%	100.00%	2006	31	5	15	2037	\$188.66	\$32,072.00

Yearly Expenditures for this component Year(s) and expenditures are shown below for this component if occurring within the study period.

Unless a One-Time Expenditure, any expenditures after 2022 include a compounded inflation factor (see last page of this report).

2037	\$54,259.13	2042	\$61,036.58	2047	\$67,813.15
------	-------------	------	-------------	------	-------------

On 5/31/2022 By Mordechai Abada, DMA Reserves

Assumed to be in proper functioning condition.

Crossroads Farm

002.002.0003 Corrugated metal pipe, 15" SECTION 7

Component Details

Field Meas. Quantity or	Units	% Replaced Per Interval	Client Responsibility	Last In- Service	Est Useful Life	Repl Interval	Remain Useful Life	Next Repl. Year	Unit Cost	Replacement Cost for Study Year
56	LF	100.0%	100.00%	2006	31	5	15	2037	\$188.66	\$10,565.00

Yearly Expenditures for this component Year(s) and expenditures are shown below for this component if occurring within the study period.

Unless a One-Time Expenditure, any expenditures after 2022 include a compounded inflation factor (see last page of this report).

2037	\$17,873.77	2042	\$20,106.35	2047	\$22,338.65
------	-------------	------	-------------	------	-------------

002.002.0004 Corrugated metal pipe, 15" SECTION 8

Component Details

Field Meas. Quantity or	Units	% Replaced Per Interval	Client Responsibility	Last In- Service	Est Useful Life	Repl Interval	Remain Useful Life	Next Repl. Year	Unit Cost	Replacement Cost for Study Year
112	LF	100.0%	100.00%	2006	31	5	15	2037	\$188.66	\$21,130.00

Yearly Expenditures for this component Year(s) and expenditures are shown below for this component if occurring within the study period.

Unless a One-Time Expenditure, any expenditures after 2022 include a compounded inflation factor (see last page of this report).

2037	\$35,747.56	2042	\$40,212.75	2047	\$44,677.36
------	-------------	------	-------------	------	-------------

On 5/31/2022 By Mordechai Abada, DMA Reserves

Assumed to be in proper functioning condition.

Crossroads Farm

002.002.0005 Corrugated metal pipe, 15" SECTION 9

Component Details

Field Meas. Quantity or	Units	% Replaced Per Interval	Client Responsibility	Last In- Service	Est Useful Life	Repl Interval	Remain Useful Life	Next Repl. Year	Unit Cost	Replacement Cost for Study Year
55	LF	100.0%	100.00%	2008	30	5	16	2038	\$188.66	\$10,376.00

Yearly Expenditures for this component Year(s) and expenditures are shown below for this component if occurring within the study period.

Unless a One-Time Expenditure, any expenditures after 2022 include a compounded inflation factor (see last page of this report).

2038	\$17,992.88	2043	\$20,185.07	2048	\$22,377.85
------	-------------	------	-------------	------	-------------

On 5/31/2022 By Mordechai Abada, DMA Reserves

Assumed to be in proper functioning condition.

002.002.0006 Corrugated metal pipe, 15" SECTION 12

Component Details

Field Meas. Quantity or	Units	% Replaced Per Interval	Client Responsibility	Last In- Service	Est Useful Life	Repl Interval	Remain Useful Life	Next Repl. Year	Unit Cost	Replacement Cost for Study Year
37	LF	100.0%	100.00%	2008	30	5	16	2038	\$188.66	\$6,980.00

Yearly Expenditures for this component Year(s) and expenditures are shown below for this component if occurring within the study period.

Unless a One-Time Expenditure, any expenditures after 2022 include a compounded inflation factor (see last page of this report).

2038	\$12,103.93	2043	\$13,578.63	2048	\$15,053.73
------	-------------	------	-------------	------	-------------

On 5/31/2022 By Mordechai Abada, DMA Reserves

Assumed to be in proper functioning condition.

Crossroads Farm

002.002.0007 Corrugated metal pipe, 15" SECTION 13

Component Details

Field Meas. Quantity or	Units	% Replaced Per Interval	Client Responsibility	Last In- Service	Est Useful Life	Repl Interval	Remain Useful Life	Next Repl. Year	Unit Cost	Replacement Cost for Study Year
50	LF	100.0%	100.00%	2008	30	5	16	2038	\$188.66	\$9,433.00

Yearly Expenditures for this component Year(s) and expenditures are shown below for this component if occurring within the study period.

Unless a One-Time Expenditure, any expenditures after 2022 include a compounded inflation factor (see last page of this report).

2038	\$16,357.63	2043	\$18,350.59	2048	\$20,344.08
------	-------------	------	-------------	------	-------------

On 5/31/2022 By Mordechai Abada, DMA Reserves

Assumed to be in proper functioning condition.

002.002.0008 Corrugated metal pipe, 15" SECTION 14

Component Details

Field Meas. Quantity or	Units	% Replaced Per Interval	Client Responsibility	Last In- Service	Est Useful Life	Repl Interval	Remain Useful Life	Next Repl. Year	Unit Cost	Replacement Cost for Study Year
62	LF	100.0%	100.00%	2011	30	5	19	2041	\$188.66	\$11,697.00

Yearly Expenditures for this component Year(s) and expenditures are shown below for this component if occurring within the study period.

Unless a One-Time Expenditure, any expenditures after 2022 include a compounded inflation factor (see last page of this report).

2041	\$21,766.57	2046	\$24,237.71	2051	\$26,710.57
------	-------------	------	-------------	------	-------------

On 5/31/2022 By Mordechai Abada, DMA Reserves

Assumed to be in proper functioning condition.

Crossroads Farm

002.002.0009	Corrugated metal pipe, 15"	SECTION 16
--------------	----------------------------	------------

Component Details

Field Meas. Quantity or	Units	% Replaced Per Interval	Client Responsibility	Last In- Service	Est Useful Life	Repl Interval	Remain Useful Life	Next Repl. Year	Unit Cost	Replacement Cost for Study Year
53	LF	100.00%	100.00%	2011	30	5	19	2041	\$188.66	\$9,999.00

Yearly Expenditures for this component Year(s) and expenditures are shown below for this component if occurring within the study period.

Unless a One-Time Expenditure, any expenditures after 2022 include a compounded inflation factor (see last page of this report).

2041	\$18,606.86	2046	\$20,719.28	2051	\$22,833.16
------	-------------	------	-------------	------	-------------

On 5/31/2022 By Mordechai Abada, DMA Reserves

Assumed to be in proper functioning condition.

002.002.0010	Corrugated metal pipe, 15"	SECTION 21
--------------	----------------------------	------------

Component Details

Field Meas. Quantity or	Units	% Replaced Per Interval	Client Responsibility	Last In- Service	Est Useful Life	Repl Interval	Remain Useful Life	Next Repl. Year	Unit Cost	Replacement Cost for Study Year
52	LF	100.00%	100.00%	2021	30	5	29	2051	\$188.66	\$9,810.00

Yearly Expenditures for this component Year(s) and expenditures are shown below for this component if occurring within the study period.

Unless a One-Time Expenditure, any expenditures after 2022 include a compounded inflation factor (see last page of this report).

2051	\$22,401.55
------	-------------

On 5/31/2022 By Mordechai Abada, DMA Reserves

Assumed to be in proper functioning condition.

Crossroads Farm

002.002.0011		Erosion control allowance		Site-Wide							
Component Details											
Field Meas. Quantity or	Units	% Replaced Per Interval	Client Responsibility	Last In- Service	Est Useful Life	Repl Interval	Remain Useful Life	Next Repl. Year	Unit Cost	Replacement Cost for Study Year	
1	LS	100.0%	100.00%	2004	30	30	12	2034	\$50,887.00	\$50,887.00	
<u>Detail of components within the assembly:</u>											
1	Erosion Control SECTIONS 1-4			1718	SY		100.00%	100.0%	\$5.75	\$9,879.00	
2	Erosion Control SECTION 5			915	SY		100.00%	100.0%	\$5.75	\$5,261.00	
3	Erosion Control SECTION 6			197	SY		100.00%	100.0%	\$5.75	\$1,133.00	
4	Erosion Control SECTION 7			242	SY		100.00%	100.0%	\$5.75	\$1,392.00	
5	Erosion Control SECTION 8			734	SY		100.00%	100.0%	\$5.75	\$4,221.00	
6	Erosion Control SECTION 9			149	SY		100.00%	100.0%	\$5.75	\$857.00	
7	Erosion Control SECTION 10			642	SY		100.00%	100.0%	\$5.75	\$3,692.00	
8	Erosion Control SECTION 12			189	SY		100.00%	100.0%	\$5.75	\$1,087.00	
9	Erosion Control SECTION ??			321	SY		100.00%	100.0%	\$5.75	\$1,846.00	
10	Erosion Control SECTION 13			441	SY		100.00%	100.0%	\$5.75	\$2,536.00	
11	Erosion Control SECTION 14			449	SY		100.00%	100.0%	\$5.75	\$2,582.00	
12	Erosion Control SECTION 16			390	SY		100.00%	100.0%	\$5.75	\$2,243.00	
13	Erosion Control SECTION 17			294	SY		100.00%	100.0%	\$5.75	\$1,691.00	

Crossroads Farm

14	Erosion Control SECTION 18	321	SY	100.00%	100.0%	\$5.75	\$1,846.00
15	Erosion Control SECTION 19	324	SY	100.00%	100.0%	\$5.75	\$1,863.00
16	Erosion Control SECTION 20.	373	SY	100.00%	100.0%	\$5.75	\$2,145.00
17	Erosion Control SECTION 21	592	SY	100.00%	100.0%	\$5.75	\$3,404.00
18	Erosion Control SECTION 22?	365	SY	100.00%	100.0%	\$5.75	\$2,099.00
19	Erosion Control SECTION 23?	193	SY	100.00%	100.0%	\$5.75	\$1,110.00

Yearly Expenditures for this component Year(s) and expenditures are shown below for this component if occurring within the study period.

Unless a One-Time Expenditure, any expenditures after 2022 include a compounded inflation factor (see last page of this report).

2034	\$79,639.92
------	-------------

On 5/31/2022 By Mordechai Abada, DMA Reserves

Asphalt is in good to fair condition.

Total for 002.002 EROSION CONTROL

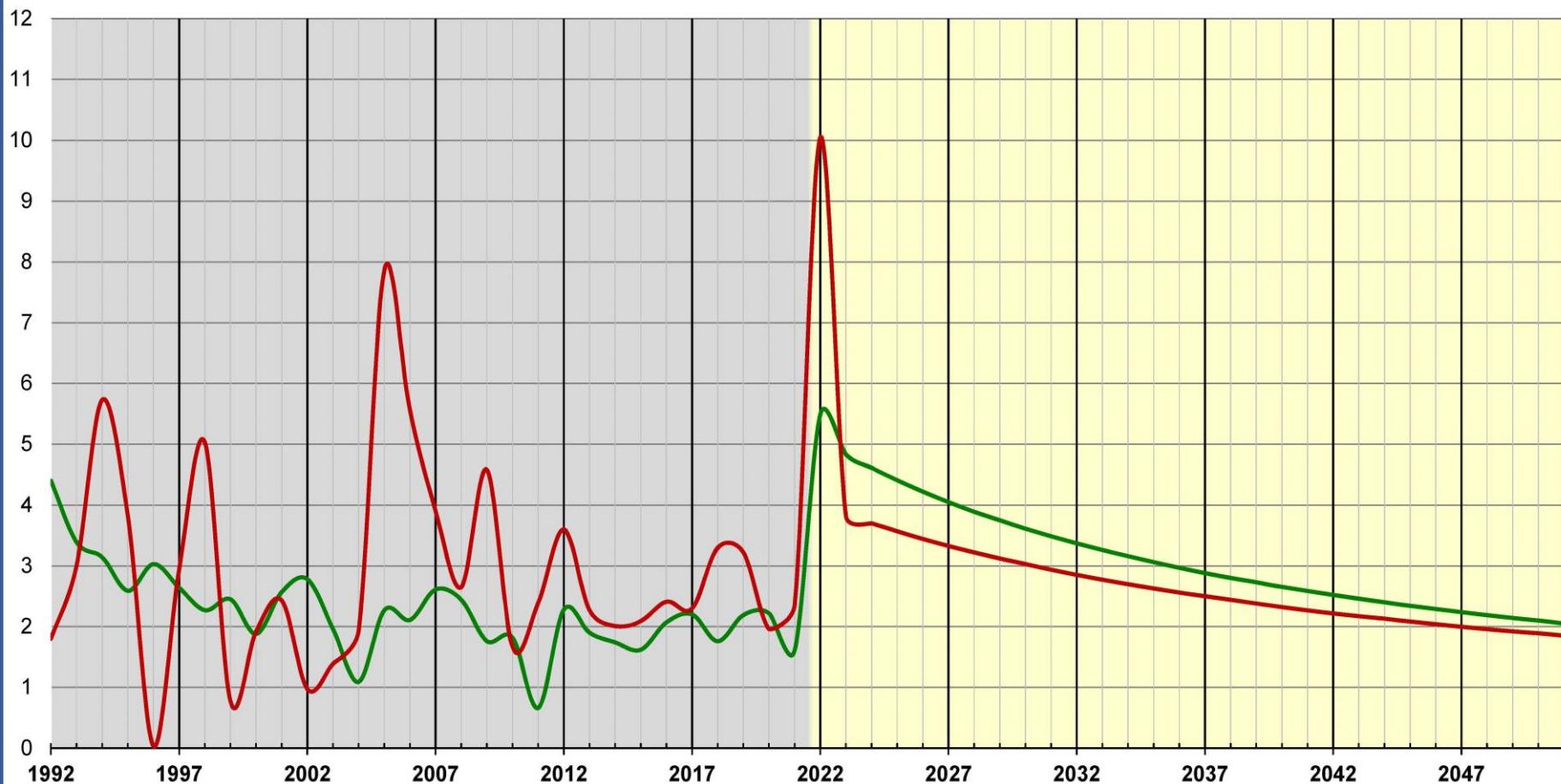
\$181,823.00

Crossroads Farm

Variable Inflation Rate: Regression Analysis for a 30 year study

% Change in CPI

% Change in BCI



Year	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
% Change in CPI	4.4	3.39	3.14	2.59	3.03	2.64	2.27	2.45	1.88	2.57	2.78	1.96	1.09	2.27	2.11	2.61	2.44	1.76	1.82	0.66	2.28	1.9	1.74	1.62	2.07	2.2	1.76	2.19	2.22	1.61
% Change in BCI	1.8	3.01	5.73	3.82	0.03	2.95	5.03	0.77	1.92	2.43	0.97	1.39	1.94	7.87	5.55	3.9	2.65	4.58	1.66	2.39	3.6	2.27	2.01	2.09	2.41	2.3	3.3	3.22	1.96	2.36

Year	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051
% Change in CPI	5.49	4.83	4.61	4.41	4.22	4.05	3.89	3.75	3.61	3.49	3.37	3.26	3.16	3.06	2.97	2.88	2.8	2.73	2.65	2.59	2.52	2.46	2.4	2.34	2.29	2.24	2.19	2.14	2.1	2.05
% Change in BCI	10.1	3.82	3.7	3.57	3.44	3.33	3.22	3.12	3.03	2.94	2.85	2.77	2.7	2.63	2.56	2.5	2.44	2.38	2.32	2.27	2.22	2.17	2.13	2.08	2.04	2	1.96	1.92	1.89	1.85

Crossroads Farm

Penn Laird, VA

CAPITAL RESERVE STUDY & FINANCIAL ANALYSIS

2022

Capital Expenditures by Year

revised Final Study

Date: 9/15/2022

DMA Project #2204012



Prepared by : DMA Reserves, Inc.

2302 E Cary Street
Richmond, Virginia 23223
804.644.6404

Table of Contents

Year	Total Expenditures	Page
Year: 2022	\$63,277.00	1
Year: 2023	\$16,871.77	2
Year: 2024	\$113,424.42	3
Year: 2025	\$84,167.93	4
Year: 2026	No Yearly Expenses	
Year: 2027	\$49,883.13	5
Year: 2028	\$48,608.88	6
Year: 2029	\$53,203.96	7
Year: 2030	No Yearly Expenses	
Year: 2031	\$354,365.76	8
Year: 2032	\$97,290.78	9
Year: 2033	\$134,531.75	10
Year: 2034	\$183,414.25	11
Year: 2035	\$63,164.90	12
Year: 2036	\$188,734.80	13
Year: 2037	\$174,366.15	14
Year: 2038	\$107,254.98	15
Year: 2039	\$113,904.39	16
Year: 2040	\$101,340.23	17

Table of Contents

Year	Total Expenditures	Page
Year: 2041	\$113,503.71	18
Year: 2042	\$349,651.01	19
Year: 2043	\$139,060.19	20
Year: 2044	\$91,106.40	21
Year: 2045	\$79,773.41	22
Year: 2046	\$218,574.66	23
Year: 2047	\$217,923.09	24
Year: 2048	\$71,779.04	25
Year: 2049	\$324,230.40	26
Year: 2050	\$159,211.35	27
Year: 2051	\$161,686.15	28

Crossroads Farm

Capital Expenditures for Year 2022

Line #	Component	Location	Replacement Cost *
002.001. 0043	Asphalt patching allowance	Site-Wide	\$39,299.00
002.001. 0044	Crack filling allowance	Site-Wide	\$23,978.00
Total Expenditures for Year 2022			\$63,277.00

Crossroads Farm

Capital Expenditures for Year 2023

Line #	Component	Location	Replacement Cost *
001.000. 0002	Asphalt walkway	PEALE'S PARK.	\$16,871.77
Total Expenditures for Year 2023			\$16,871.77

Crossroads Farm

Capital Expenditures for Year 2024

Line #	Component	Location	Replacement Cost *
002.001. 0001	Asphalt overlay	BELLAVISTA DRIVE	\$42,969.75
002.001. 0002	Asphalt overlay - Sections 1-4	FREDERICK ROAD	\$57,265.20
002.001. 0003	Asphalt overlay	HOBART COURT	\$13,189.47
Total Expenditures for Year 2024			\$113,424.42

Crossroads Farm

Capital Expenditures for Year 2025

Line #	Component	Location	Replacement Cost *
002.001. 0004	Asphalt overlay - Sections 1-4	CLAREMONT AVENUE	\$66,229.86
002.001. 0005	Asphalt overlay	CHELSEA CIRCLE	\$17,938.07
Total Expenditures for Year 2025			\$84,167.93

Crossroads Farm

Capital Expenditures for Year 2027

Line #	Component	Location	Replacement Cost *
002.001. 0043	Asphalt patching allowance	Site-Wide	\$49,883.13
Total Expenditures for Year 2027			\$49,883.13

Crossroads Farm

Capital Expenditures for Year 2028

Line #	Component	Location	Replacement Cost *
001.000. 0014	Street name signs	Site-Wide	\$4,379.40
001.000. 0015	Wood sign post	Site-Wide	\$6,325.80
001.000. 0016	Traffic control signs	Site-Wide	\$5,014.21
001.000. 0017	Irrigation system electro mechanical controller	BELLAVISTA DRIVE	\$1,440.13
002.001. 0044	Crack filling allowance	Site-Wide	\$31,449.34
Total Expenditures for Year 2028			\$48,608.88

Crossroads Farm

Capital Expenditures for Year 2029

Line #	Component	Location	Replacement Cost *
002.001. 0043	Asphalt patching allowance	Site-Wide	\$53,203.96
Total Expenditures for Year 2029			\$53,203.96

Crossroads Farm

Capital Expenditures for Year 2031

Line #	Component	Location	Replacement Cost *
002.001. 0006	Asphalt overlay - Section 5	FREDERICK ROAD	\$73,411.30
002.001. 0007	Asphalt overlay	BENNINGTON PLACE	\$22,330.62
002.001. 0008	Asphalt overlay	YORK PLACE	\$19,245.31
002.001. 0009	Asphalt overlay	CAMBRIDGE CIRCLE	\$15,570.30
002.001. 0010	Asphalt overlay	PENSHURST PLACE	\$16,016.22
002.001. 0011	Asphalt overlay	FLYNTSHIRE PLACE	\$22,812.47
002.001. 0012	Asphalt overlay	CAMBRIDGE CIRCLE	\$28,055.32
002.001. 0013	Asphalt overlay - Section 7	FREDERICK ROAD	\$18,549.16
002.001. 0014	Asphalt overlay - Section 8	FREDERICK ROAD	\$61,176.57
002.001. 0015	Asphalt overlay	PELHAM PLACE	\$20,672.19
002.001. 0043	Asphalt patching allowance	Site-Wide	\$56,526.30
Total Expenditures for Year 2031			\$354,365.76

Crossroads Farm

Capital Expenditures for Year 2032

Line #	Component	Location	Replacement Cost *
001.000. 0011	Sign lettering	BELLAVISTA DRIVE	\$3,048.67
002.001. 0017	Asphalt overlay	BEDFORD PLACE	\$17,368.07
002.001. 0018	Asphalt overlay - Section 10	CLAREMONT AVENUE	\$76,874.04
Total Expenditures for Year 2032			\$97,290.78

Crossroads Farm

Capital Expenditures for Year 2033

Line #	Component	Location	Replacement Cost *
001.000. 0001	Concrete curb and gutter - incidental replacement	BELLAVISTA DRIVE	\$8,215.79
002.001. 0023	Asphalt overlay - Section 13	FREDERICK ROAD	\$42,053.55
002.001. 0024	Asphalt overlay	HASTINGS PLACE	\$24,415.88
002.001. 0043	Asphalt patching allowance	Site-Wide	\$59,846.53
Total Expenditures for Year 2033			\$134,531.75

Crossroads Farm

Capital Expenditures for Year 2034

Line #	Component	Location	Replacement Cost *
002.001. 0016	Asphalt overlay	ELGIN COURT	\$23,035.74
002.001. 0020	Asphalt overlay	TILBURY COURT	\$8,617.09
002.001. 0021	Asphalt overlay - Section 12	BEAUFORD ROAD	\$20,706.98
002.001. 0044	Crack filling allowance	Site-Wide	\$37,526.39
002.002. 0001	Replace stormwater piping under roadway	SECTIONS 1-4	\$13,888.13
002.002. 0011	Erosion control allowance	Site-Wide	\$79,639.92
Total Expenditures for Year 2034			\$183,414.25

Crossroads Farm

Capital Expenditures for Year 2035

Line #	Component	Location	Replacement Cost *
002.001. 0043	Asphalt patching allowance	Site-Wide	\$63,164.90
Total Expenditures for Year 2035			\$63,164.90

Crossroads Farm

Capital Expenditures for Year 2036

Line #	Component	Location	Replacement Cost *
001.000. 0012	Sign lettering	RED CLIFF LANE	\$3,396.47
002.001. 0025	Asphalt overlay - Section 14	CLAREMONT AVENUE	\$43,629.27
002.001. 0026	Asphalt overlay	WILTON PLACE	\$29,720.17
002.001. 0027	Asphalt overlay - Section 16	CLAREMONT AVENUE	\$30,007.22
002.001. 0028	Asphalt overlay	MARKHAM PLACE	\$26,264.36
002.001. 0029	Asphalt overlay - Section 17	CLAREMONT AVENUE	\$21,906.20
002.001. 0030	Asphalt overlay	RED CLIFF LANE	\$33,811.11
Total Expenditures for Year 2036			\$188,734.80

Crossroads Farm

Capital Expenditures for Year 2037

Line #	Component	Location	Replacement Cost *
002.001. 0043	Asphalt patching allowance	Site-Wide	\$66,485.69
002.002. 0002	Corrugated metal pipe, 15"	SECTION 5	\$54,259.13
002.002. 0003	Corrugated metal pipe, 15"	SECTION 7	\$17,873.77
002.002. 0004	Corrugated metal pipe, 15"	SECTION 8	\$35,747.56
Total Expenditures for Year 2037			\$174,366.15

Crossroads Farm

Capital Expenditures for Year 2038

Line #	Component	Location	Replacement Cost *
001.000. 0001	Concrete curb and gutter - incidental replacement	BELLAVISTA DRIVE	\$9,355.40
001.000. 0002	Asphalt walkway	PEALE'S PARK.	\$26,585.29
001.000. 0013	Vinyl fence, 4-raii	BELLAVISTA DRIVE	\$22,955.82
001.000. 0017	Irrigation system electro mechanical controller	BELLAVISTA DRIVE	\$1,904.03
002.002. 0005	Corrugated metal pipe, 15"	SECTION 9	\$17,992.88
002.002. 0006	Corrugated metal pipe, 15"	SECTION 12	\$12,103.93
002.002. 0007	Corrugated metal pipe, 15"	SECTION 13	\$16,357.63
Total Expenditures for Year 2038			\$107,254.98

Crossroads Farm

Capital Expenditures for Year 2039

Line #	Component	Location	Replacement Cost *
001.000. 0018	Light poles, 12' steel or aluminum	BELLAVISTA DRIVE	\$28,329.99
002.001. 0043	Asphalt patching allowance	Site-Wide	\$69,810.64
002.002. 0001	Replace stormwater piping under roadway	SECTIONS 1-4	\$15,763.76
Total Expenditures for Year 2039			\$113,904.39

Crossroads Farm

Capital Expenditures for Year 2040

Line #	Component	Location	Replacement Cost *
002.001. 0019	Asphalt overlay - Section 11	BEAUFORD ROAD	\$34,729.44
002.001. 0022	Asphalt overlay	CADOGAN COURT	\$23,002.60
002.001. 0044	Crack filling allowance	Site-Wide	\$43,608.19
Total Expenditures for Year 2040			\$101,340.23

Crossroads Farm

Capital Expenditures for Year 2041

Line #	Component	Location	Replacement Cost *
002.001. 0043	Asphalt patching allowance	Site-Wide	\$73,130.28
002.002. 0008	Corrugated metal pipe, 15"	SECTION 14	\$21,766.57
002.002. 0009	Corrugated metal pipe, 15"	SECTION 16	\$18,606.86
Total Expenditures for Year 2041			\$113,503.71

Crossroads Farm

Capital Expenditures for Year 2042

Line #	Component	Location	Replacement Cost *
001.000. 0006	Stone retaining wall, mortar set	BELLAVISTA DRIVE	\$1,419.71
002.001. 0031	Asphalt overlay - Section 18	BEAUFORD ROAD	\$36,341.81
002.001. 0032	Asphalt overlay	BROMPTON COURT	\$24,070.53
002.001. 0033	Asphalt overlay - Section 19	FREDERICK ROAD	\$39,362.04
002.001. 0034	Asphalt overlay	KESWICK COURT	\$21,828.72
002.001. 0040	Asphalt overlay - Section 22	BEDFORD PLACE	\$36,341.81
002.001. 0041	Asphalt overlay - Section 23	BEAUFORD ROAD	\$36,341.81
002.001. 0042	Asphalt overlay	RADNOR COURT	\$32,588.90
002.002. 0002	Corrugated metal pipe, 15"	SECTION 5	\$61,036.58
002.002. 0003	Corrugated metal pipe, 15"	SECTION 7	\$20,106.35
002.002. 0004	Corrugated metal pipe, 15"	SECTION 8	\$40,212.75
Total Expenditures for Year 2042			\$349,651.01

Crossroads Farm

Capital Expenditures for Year 2043

Line #	Component	Location	Replacement Cost *
001.000. 0001	Concrete curb and gutter - incidental replacement	BELLAVISTA DRIVE	\$10,495.21
002.001. 0043	Asphalt patching allowance	Site-Wide	\$76,450.69
002.002. 0005	Corrugated metal pipe, 15"	SECTION 9	\$20,185.07
002.002. 0006	Corrugated metal pipe, 15"	SECTION 12	\$13,578.63
002.002. 0007	Corrugated metal pipe, 15"	SECTION 13	\$18,350.59
Total Expenditures for Year 2043			\$139,060.19

Crossroads Farm

Capital Expenditures for Year 2044

Line #	Component	Location	Replacement Cost *
002.001. 0035	Asphalt overlay - Section 20	BEAUFORD ROAD	\$37,954.72
002.001. 0036	Asphalt overlay	ALNWICK COURT	\$35,513.94
002.002. 0001	Replace stormwater piping under roadway	SECTIONS 1-4	\$17,637.74
Total Expenditures for Year 2044			\$91,106.40

Crossroads Farm

Capital Expenditures for Year 2045

Line #	Component	Location	Replacement Cost *
002.001. 0043	Asphalt patching allowance	Site-Wide	\$79,773.41
Total Expenditures for Year 2045			\$79,773.41

Crossroads Farm

Capital Expenditures for Year 2046

Line #	Component	Location	Replacement Cost *
001.000. 0008	Sign stone walls, mortar set	RED CLIFF LANE	\$1,160.37
001.000. 0010	Sign stone walls, mortar set	RED CLIFF LANE	\$1,160.37
002.001. 0037	Asphalt overlay - Section 21	FREDERICK ROAD	\$63,156.52
002.001. 0038	Asphalt overlay	COLCHESTER COURT	\$28,495.97
002.001. 0039	Asphalt overlay	SALSBURY COURT	\$29,958.89
002.001. 0044	Crack filling allowance	Site-Wide	\$49,685.55
002.002. 0008	Corrugated metal pipe, 15"	SECTION 14	\$24,237.71
002.002. 0009	Corrugated metal pipe, 15"	SECTION 16	\$20,719.28
Total Expenditures for Year 2046			\$218,574.66

Crossroads Farm

Capital Expenditures for Year 2047

Line #	Component	Location	Replacement Cost *
002.001. 0043	Asphalt patching allowance	Site-Wide	\$83,093.93
002.002. 0002	Corrugated metal pipe, 15"	SECTION 5	\$67,813.15
002.002. 0003	Corrugated metal pipe, 15"	SECTION 7	\$22,338.65
002.002. 0004	Corrugated metal pipe, 15"	SECTION 8	\$44,677.36
Total Expenditures for Year 2047			\$217,923.09

Crossroads Farm

Capital Expenditures for Year 2048

Line #	Component	Location	Replacement Cost *
001.000. 0001	Concrete curb and gutter - incidental replacement	BELLAVISTA DRIVE	\$11,635.34
001.000. 0017	Irrigation system electro mechanical controller	BELLAVISTA DRIVE	\$2,368.04
002.002. 0005	Corrugated metal pipe, 15"	SECTION 9	\$22,377.85
002.002. 0006	Corrugated metal pipe, 15"	SECTION 12	\$15,053.73
002.002. 0007	Corrugated metal pipe, 15"	SECTION 13	\$20,344.08
Total Expenditures for Year 2048			\$71,779.04

Crossroads Farm

Capital Expenditures for Year 2049

Line #	Component	Location	Replacement Cost *
002.001. 0001	Asphalt overlay	BELLAVISTA DRIVE	\$82,700.77
002.001. 0002	Asphalt overlay - Sections 1-4	FREDERICK ROAD	\$110,214.21
002.001. 0003	Asphalt overlay	HOBART COURT	\$25,384.81
002.001. 0043	Asphalt patching allowance	Site-Wide	\$86,417.02
002.002. 0001	Replace stormwater piping under roadway	SECTIONS 1-4	\$19,513.59
Total Expenditures for Year 2049			\$324,230.40

Crossroads Farm

Capital Expenditures for Year 2050

Line #	Component	Location	Replacement Cost *
002.001. 0004	Asphalt overlay - Sections 1-4	CLAREMONT AVENUE	\$125,279.88
002.001. 0005	Asphalt overlay	CHELSEA CIRCLE	\$33,931.47
Total Expenditures for Year 2050			\$159,211.35

Crossroads Farm

Capital Expenditures for Year 2051

Line #	Component	Location	Replacement Cost *
002.001. 0043	Asphalt patching allowance	Site-Wide	\$89,740.87
002.002. 0008	Corrugated metal pipe, 15"	SECTION 14	\$26,710.57
002.002. 0009	Corrugated metal pipe, 15"	SECTION 16	\$22,833.16
002.002. 0010	Corrugated metal pipe, 15"	SECTION 21	\$22,401.55
Total Expenditures for Year 2051			\$161,686.15