COMPREHENSIVE MAINTENANCE PLAN

FOR FY 2024 AND EXPENDITURES FOR FY 2023

CALVERT COUNTY PUBLIC SCHOOLS

1305 Dares Beach Road Prince Frederick, MD 20678

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Vision of the Comprehensive Maintenance Plan

Calvert County Public Schools has a vision for the maintenance and operations of all school facilities. This vision for the maintenance of buildings, grounds, and equipment is designed to provide for the optimum safety and comfort of the occupants. Equally important, this plan is also designed to guarantee the maximum efficiency and life expectancy of each building and its equipment. It should minimize the need for major repairs or replacements and reduce the likelihood of any negative impact on instruction.

The characteristics of this maintenance plan are predicated primarily on prevention, which promotes optimal plant efficacy. It also provides for a more deliberate approach when devising and funding the maintenance and operations sections of the budget. All maintenance efforts and costs are tracked using a Comprehensive Maintenance Management System (CMMS).

Objectives of Maintenance

The primary objective of the maintenance program is to provide support of the Educational Facilities Master Plan and Capital Improvements Plan with continuous use of facilities without disruptions to the educational programs and to have optimal plant operation capability with a vigilant eye on the conservation of energy, management of resources, and proper utilization of workforce. Corrective and preventive maintenance performed during the 40 year or more life expectancy of the building can prevent future costs and/or minimize shutdowns and provide the best possible environment for education. Repairs or replacements are necessary to maintain the buildings and grounds, keeping them in operable condition. This can be further broken down as follows:

- 1. To provide buildings that function at optimal efficiency.
- 2. To maintain the buildings and grounds and fixed equipment in such a manner as to eliminate or reduce to acceptable levels the likelihood of fires, accidents, and safety hazards.
- 3. To protect public property by planned, scheduled, preventative and repair maintenance.
- 4. To conserve energy and resources by ensuring that maximum results are obtained with a minimal expenditure of energy. An incentive program is in place to reward schools that conserve electricity.
- 5. To provide a program which will produce the maximum amount of maintenance for the monies spent.

Long Term Strategic Focus

School Facilities' long-term focus will be decreasing the cost of major repairs by increasing the efficiency of preventive maintenance measures to ensure maximum life expectancy of equipment and facilities.

Short Term Strategic Focus

School Facilities' short-term focus will be increasing the time and resources used for preventive maintenance with the intent of decreasing resources used for major unscheduled repairs.

Facility Usability

The goal of School Facilities is to provide total use of each building for all scheduled student days. In FY23 Calvert County Public Schools lost no student days due to mechanical failures or weather-related events.

Certification

Boiler and pressure vessel certifications are performed bi-annually through the Maryland Association of Boards of Education (MABE). They also perform unscheduled, on-site inspections to ensure that the Calvert County Public Schools is maintaining a safe environment for all building occupants; one in compliance with the requirements set forth by state and local regulatory agencies and the recommendations of our insurer.

Environmental matters that relate to indoor air quality, water quality, and other environmental safeguards are managed by the Director of School Facilities, specific maintenance workers, and when needed, independent testing laboratories and outside contractors. When questions regarding environmental issues are presented, the appropriate maintenance workers and/or appropriate testing laboratories and contractors are contacted to perform assessments and, if the need is determined, to monitor issues affecting individual schools or the school system. Reports and findings are shared with the schools and corrective measures are taken should they be warranted.

We have one tech that has taken the Environmental Protection Agency's (EPA) Indoor Air Quality (IAQ) Master Class Professional Training and has received certification from the EPA. We have a Water Superintendent and Water Treatment Specialist who are licensed/certified by Maryland Department of the Environment. Many additional trade certifications and licenses are held by the staff of the Department of School Facilities Maintenance and Operations staff.

Our Energy and Environmental Specialist and Building Automation Systems Specialist continue their efforts to achieve the goals set by the Maryland Energy Administration under Empower Maryland and to maintain system wide Green School Certification. They will also be tasked to maintain future LEED certifications and high-performance building standards. Out of 27 facilities, CCPS (Calvert County Public School) currently has 20 buildings that are either entirely or partially on an energy management system and has recently added Northern High School, which is LEED Silver.

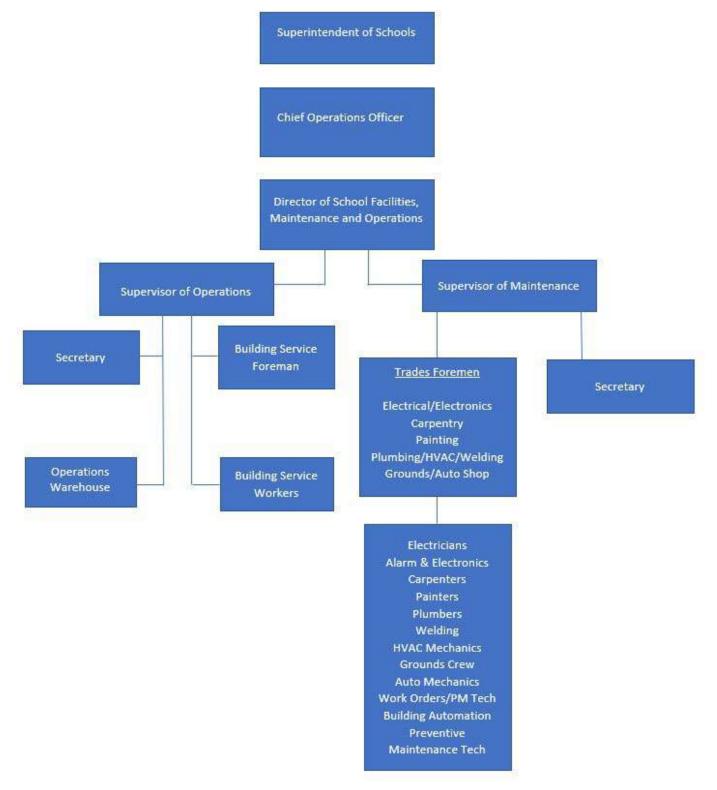
Computerized Maintenance Management System (CMMS)

Calvert County Public Schools utilizes Brightly Software (formerly known as School Dude) as our vendor for CMMS applications. Asset Essentials is the module that is being utilized to track our maintenance hours, assets, and use of funding. The work of contractors collected in the CMMS is only used to track funding. Preventive Maintenance work orders are automatically generated based on the schedules listed in the charts listed below. Major building assets are inventoried into the system as work orders are completed.

Facilities Assessment Process

Calvert County Public Schools utilizes the IAC School Assessments as its means of assessing the condition of its school facilities. IAC School Inspections along with MABE Safety Inspections provide additional information for the assessment of school facilities. Contracted inspections information is also utilized for facilities assessment.

Management Flow Chart



Personnel Organization

Supervisory

Supervisor of Maintenance (1) Supervisor of Operations (1)

Carpentry

This shop has seven (7) employees. They are responsible for repairs to and construction or installation of the following:

- 1. Flooring tile, carpet, cement, and wood
- 2. Ceiling drywall, plaster, and acoustical
- 3. Hardware locks, panic bars, door closures, keys
- 4. Furniture repair if possible
- 5. Roof repairs built-up, shingles, semi-annual inspections.
- 6. Pest control
- 7. The installation of new cabinets, corkboards, and bookshelves
- 8. Annual inspection and maintenance of fire extinguishers
- 9. Lockers and restroom hardware
- 10. Building structure, sidewalk repairs
- 11. Bleachers Annual inspections and repairs

Painting

This shop has five (5) employees. They are responsible for:

- 1. Interior painting
- 2. Exterior painting
- 3. Glass replacement
- 4. Shade and blind repairs
- 5. Sign preparation
- 6. Parking lot markings
- 7. Furniture refinishing
- 8. Drywall taping and finishing.
- 9. Gym floor painting and finishing.

Interior painting of schools is usually scheduled for every five to six years with interim "touch up" painting and wall repair as needed.

Exterior painting is typically scheduled every five to six years, depending on the condition of the building.

Electrical

This shop has three (3) employees. They are responsible for all repairs and upgrades to and/or installation of the following:

- 1. Lighting systems interior, exterior, and emergency
- 2. Electrical distribution equipment, circuit breakers, switchgear, disconnects.
- 3. Instruction Shop equipment, kilns
- 4. Parking lot lighting repair and lamp replacement.

- 5. Instructional Theater lighting systems, fixture & wiring repairs
- 6. Electrical wiring for computer labs
- 7. Athletic lighting repair and replacement

Plumbing / Water

This shop has four (4) employees. They are responsible for repairs to and/or installation of the following:

- 1. Summer maintenance toilets, fountains, water pumps, etc.
- 2. Dosing pumps on water systems
- 3. Reading and recording of time elapse and flow meters for monthly water usage
- 4. Grease traps, sewage lines, sump pumps, storm drains
- 5. Kitchens dishwashers, garbage disposals, steam kettles
- 6. Maintaining sewage plant equipment air pumps, valves, blowers, etc.
- 7. Fire sprinkler systems, fire hydrants, science lab equipment
- 8. General plumbing
- 9. Water Testing and monitoring of all wells
- 10. Installation, replacement, and monitoring of backflow preventers

Heating / Welding

This shop has three (3) employees. They are responsible for repairs to, cleaning of, and maintenance of the following:

- 1. Boilers, burners, pumps
- 2. Filters, valves, fire boxes
- 3. Summer cleaning and servicing
- 4. Major repairs scheduled for summer re-tubing boilers, rebuilding fire boxes, etc.
- 5. General HVAC service
- 6. Welding

Air Conditioning / Mechanical

This shop has nine (9) employees. They are responsible for repairing, cleaning, and maintaining the following:

- 1. Air Conditioning units and exhaust fans
- 2. Chillers, cooling towers, pumps
- 3. Air handling equipment pneumatic and electronic controls
- 4. Energy Management Systems
- 5. Air compressors, heat pumps
- 6. Filters, bearings, belts, motors
- 7. Instructional refrigerators, freezers, ice machines, etc.
- 8. Refrigeration ice cream boxes, milk coolers, salad bars, walk- in boxes.
- 9. Kitchen equipment including instructional kitchen equipment
- 10. Preventive maintenance of bottle fillers and air scrubbers

Grounds / Automotive

This shop has eight (8) employees. They are responsible for repairs to, and/or installation of the following:

- 1. Minor repairs to driveways and parking lots
- 2. Cutting grass at all schools and buildings

- 3. Seeding and fertilizing of athletic fields
- 4. Repair of all vehicles, lawn mowers, tractors, generators, and snow removal equipment
- 5. Snow removal and pretreatment of all facilities
- 6. Playground equipment installation & repair
- 7. Athletic field irrigation systems
- 8. Delivery of fuel to schools for lawn equipment
- 9. Maintain and repair storm water management ponds.

Electronics / Safety & Security

This shop has three (3) employees. They are responsible for repairs to, cleaning of, and maintenance of the following:

- 1. Keeping all audio-visual equipment in an operable condition
- 2. Public address systems and scoreboards
- 3. Master clocks and bells
- 4. TV and cabling repair
- 5. Fire alarm & security systems
- 6. Auditorium lighting and sound systems
- 7. Emergency weather radios
- 8. Telephone repairs and cabling within the facilities
- 9. Repair and installation of Access systems

Operations / Warehouse & Delivery

This section typically has one (1) employee who is given an additional workforce when needed. They are responsible for the following:

- 1. Warehousing and distribution of operational supplies
- 2. Coordinating the movement of equipment between buildings
- 3. Moving and hauling furniture, tables, and chairs for various functions
- 4. Chair & desk repair
- 5. Office moves & relocations.
- 6. Collection of lamps and books for recycling
- 7. Delivery of man lifts

Energy and Environmental

One (1) employee: The Building Automation Specialist is responsible for varying aspects of energy conservation.

- 1. Monitor school HVAC systems for proper operation.
- 2. Schedule HVAC equipment for after hour events
- 3. Maintain and update building automation system interfacing.
- 4. Modify existing program logic to achieve optimal equipment operation.
- 5. Monitor building heating systems during the heating season.

Secretarial & Work Order

This section of the office has three (3) employees, and they are responsible for the following:

1. Taking calls from schools and channeling them to the proper area of maintenance or operations.

- 2. All correspondence that enters and leaves the office, including various reports submitted to the County and State.
- 3. Record keeping for all areas of the School Facilities Department including [typing reports, running payroll, leave documentation, etc.]
- 4. Coordinating placement of building service worker subs at all schools
- 5. Receiving all work orders that are generated and directing work crews to the areas in need
- 6. Aiding school staff, supervisors, administrators, and support staff
- 7. Requesting and tracking of all purchase orders, oversight of petty cash and deposits, and all other matters of finance
- 8. Operation of all aspects of the work order system

Maintenance Categories

Definitions and Information required:

Maintenance of Plant shall be defined as those activities which are concerned with keeping the grounds, buildings, and fixed equipment, excluding moveable equipment, at or near their original condition and efficiency, either through repairs or by replacement during the life expectancy of the building (at least 40 years). Maintenance of Plant shall further be subdivided into the following categories and subcategories:

- I. Scheduled Maintenance Scheduled maintenance includes maintenance and repair activities which can be forecast and for which expenditure of parts and labor are based on a predictable timetable of use schedule. The subcategories of scheduled maintenance are as follows:
 - A. Preventative Maintenance Our preventive maintenance program is an action taken by our maintenance personnel to prevent expensive repairs and breakdowns before they occur. It is a planned program which includes lubricating, cleaning, adjusting, painting, replacement of expendable parts, and other activities designed to maintain the buildings, grounds, and fixed equipment in a condition as near to original as possible. This usually occurs during, but is not limited to, the summer. All motor driven equipment is cleaned, oiled, adjusted, repaired, and belts replaced; HVAC coils and air handling equipment are cleaned and serviced. Electrical systems, including the switch gear, circuit breakers and disconnects, are inspected and exercised; boilers are opened and cleaned and then inspected by our insurance carrier; fire alarm systems, public address systems, and emergency lighting systems are checked; major painting of building interiors and refinishing of gym floors are also scheduled during the summer months. Preventive Maintenance Table Chart is attached.

Actual expenditure for the previous fiscal year: \$611,905.36

B. Scheduled Repairs – Scheduled repairs are actions which involve a more sizeable effort than preventive maintenance to maintain a facility in good condition. Scheduled repairs usually occur at or near the end of the specified life of an item or system. It includes such items as roof replacements or renovations, carpet/tile replacements, and boiler overhauls.

Our scheduled repair program is through our Capital Budget and required repairs and/or replacement is through contracted services.

Repair/Replacement Schedules attached for:

1.Boiler Overhaul/Replacement

- 2.Boiler Inspection
- 3.Painting
- 4.Roof Replacement

5.Septic Tank and Grease Trap Cleaning

- 6.Bleacher Repair/Replacement
- 7. Tile Floor Replacement
- 8.Carpet Replacement
- 9. Resurfacing Blacktop
- 10. Maintenance Vehicle Replacement
- 11. Oil Tank Servicing
- 12. Chiller Overhaul/Replacement
- 13. Storm Water Systems Maintenance.

Actual expenditure for the previous year: \$320,703.34

C. Modernization and Alterations – Modernizations and alterations are actions where labor and material are expended to improve the building's original condition or to make alterations in the building configuration or functions. Included in this area are classroom trailers for population growth. This includes code corrections, renovations, and repair work, but does not include construction of new building additions or adapting buildings to major changes in use. Most modernization and alterations are handled through our carpentry, mechanical and electrical departments. Items included under this category are converting open space, moving partitions, code corrections, rewiring, and, when required, obtaining the Fire Marshall's approval prior to commencing any work.

Actual expenditure for previous fiscal year: \$702,711.88

- II. Unscheduled Maintenance Unscheduled maintenance includes repair activities which cannot be programmed or forecasted. It includes corrections of day-to-day routine breakdowns or failures and emergency repairs. It is usually based on reports or work requests received from principals, building services managers, or other authorized building-based personnel. The subcategories of unscheduled maintenance are as follows:
 - A. Unscheduled Repairs Unscheduled repairs are actions to correct unforeseen breakdowns or failures of building systems or equipment. They include routine repairs such as failure of light fixtures and emergency repairs such as correction of pipe breakage. Unscheduled maintenance is handled on a day-to-day basis through work orders sent into the Maintenance Department from the Principals or produced by the individual traders. Emergency situations are phoned in as they occur.

Examples of unscheduled repairs are as follows:

- 1.Compressor and condenser replacements
- 2.Pump replacement (circulating, well, etc.)
- 3.Small equipment repair
- 4.Electric switch gear
- 5. Vehicle repairs
- 6.Furniture repairs
- 7.Breakage resulting from prolonged use or misuse of equipment and furnishings.
- 8.Weather related damages.

Actual expenditures for previous fiscal year: \$405,453.29

B. Vandalism and Security Related Repairs – A vandalism and security related repair item are one which requires the expenditure of labor and material to restore it to its original condition after it has been damaged or provide temporary protection in some manner. It does not generally include modifications of the facilities for the purpose of improving building security such as installation or enlargement of intrusion systems. Depending on the nature and extent of vandalism, all repairs are handled within a 24-hour period; fire extinguishers are replaced, graffiti removed, windows replaced, etc.

Here are some examples of vandalism that occurs on CCPS property arranged in order of prevalence:

1.Graffiti

2.Broken windows

3.Grounds damage (includes tire ruts and cut fences)

4.Random destruction of property (lockers, doors, walls, etc.)

5.Expended fire extinguishers.

Actual expenditures for the previous fiscal year: \$ 5,277.90

III. Deferred Maintenance – Deferred maintenance includes maintenance and repair activities which have been delayed or postponed due to lack of funds or personnel or which have been delayed pending some future decision regarding the building such as major renovation, disposal, or change of use. It may include any of the above-described categories of maintenance.

Anticipated expenditure: \$ 273,219.

<u>Charts</u>

Preventative Maintenance Chart for Maintenance, Operations and Contracted Services

ITEMS	PROCEDURE	RESPONS	IBILITY		FREQUENCY					
		MAINT.	OPER.	OTHER	DAILY	WKLY	MONTH	QRTR	SEMI A	ANNUAL
Fire Extinguishers	Check, Change & Inspect	Х	X	X			X			Х
Sprinkler Systems	Check and inspect	Х	X	X				X		X
Sprinkler Systems	Check Flow, Test Switches & Bells	X		x					X	
Kitchen Hood Ansul System	Inspection			X					X	
State Fire Inspection	Fire Marshall Inspection		Х	X						Х
Emergency Generators	Test Run One-Half Hour	X	X	X		X		X		
Health Inspection – Kitchen	Health Department Inspections			X					X	
Risk Inspections	Building/Equip. Safety Inspections	Х	X	X						X
Oil Burner Cleaning & Inspection	Clean, Set Clearances, Check Pump Pressure, Check Start- Up	X								X
Boiler Tube Cleaning	Brush Clean Boiler Tubes & Sheets	Х								X
Pest Control (IPM)	Monitor & Appropriate Action		X	X			X			
Roof Cleaning	Remove Debris, Clean Drains	X	X			X			X	
Venetian Blind Shade	Check Operation, Repair	Х	X			X			X	
Boiler Inspection	Inspection	Х	X	X	X		X			X
Maintenance Vehicles	Change Oil, Filters and Grease	Х			3,000-5,000 MILES					

	Tune-up	x			30,00	0 MILES (OR AS RECC	MMENDED	BY MANU	JFACTURER
Roof Inspection	Inspect and assess	X							X	X
Storm Water Management	Inspect and maintain	Х								X
Oil Burners	Check Operation	Х	X		Х	X	X			
Air Compressors	Check Operation, Oil, Drain Tank, Air Filter, Belts	X	X		X		X			
Air Conditioner Units	Check Operation and Clean Coils	x	X		X	X	X			X
Air Handling Equipment	Grease, Oil, Clean Filters, Belts, Check Operation	X	X		X		X		X	
Condensers and Coils for Refrigerators and Freezers	Clean and Oil Motors, Vacuum and Clean Condenser Coils	X							X	
Elevators	Inspect and service	x		x				x		X
Motors	Check belts, Oil or Grease	Х							X	
Pumps	Lubricate Bearings, Clean Strainers, Check Leaks, Couplings, Flow	X	X		X	X				X
Water Coolers	Vacuum & Clean Condenser Coils	х							X	
Chillers	Dismantle, Inspect and Clean	Х								X
Cooling Towers	Clean, Check Belts, Grease, Water Treatment	X			X	X				x
Chlorinators	Check Pump, Solution Level & Test Concentration		X		X		X			

Oil Tanks	Check Oil Levels and	Х	Х	Х	Х		Х
	Perform Inspections						

Frequency of service on equipment is determined by the manufacturer and/or based on need. Revised 08/03/2023.

Maintenance Vehicle Replacement Schedule

YEAR	MAKE	STYLE	USE	2024	2025	2026	2027	2028	2029
2016	Ford	Transit 150 Van	Electric			X			
2016	Ford	Transit 150 Van	Electric				x		
2016	Ford	Transit 150 Van	Electronics			x			
2016	Ford	F350 4x4	Grounds						
2016	Ford	Transit 150 Van	HVAC			x			
2016	Ford	Transit 150 Van	HVAC				X		
2016	Ford	Transit 150 Van	HVAC				X		
2016	Ford	F350 4x4	Painters			X			
2016	Ford	Transit Connect Van	Painters			X			
2016	Ford	Transit Connect Van	Painters						
2016	Ford	Transit Connect Van	Painters						
2017	Ford	Transit 150 Van	Carpentry						
2017	Ford	Transit 150 Van	Carpentry				X		
2017	Ford	Escape	Fleet						
2017	Ford	Escape	Fleet						

2017	Ford	F350	HVAC		X		
		Plumbers					
		Truck					
2017	Ford	F350	HVAC			Х	
		Plumbers					
		Truck					
2017	Ford	Transit 150	HVAC			X	
		Van					
2017	Ford	Transit 150	HVAC			X	
		Van					
2017	Ford	Transit 150	HVAC				
		Van					
2017	Ford	Transit 150	HVAC				
		Van					
2017	Ford	Transit	HVAC				
		Connect					
		Van		 			
2017	Ford	Escape	New Construction	 			
2017	Ford	Escape	New Construction	 			
2018	Ford	Transit 150	Electronics				
		Van		 			
2018	Ford	Transit 150	Electronics				
2010		Van	111/10	 			
2018	Ford	Transit 150	HVAC				
2010	E a sal	Van	Detata				
2018	Ford	Transit 150	Painters				
2018	Ford	Van Transit 150	Carpontry	 			
2018	Ford	Van	Carpentry Locksmith				
2019	Ford	Transit 350	Warehouse				
2019	FOIG	Van	warenouse				
2019	Ford	F350	HVAC				
2019		Welding					
		Truck					
2020	Ford	F350 4x4	Grounds			Х	
2020	Ford	F350 4x4	Grounds			X	
2020	Ford	Ranger	Water	 			
2020	TUTU	Nanger	water				

2020	Ford	Ranger	Water					
1990	GMC	Flatbed	Brine Spreader					
1999	Ford	F250	CHS/Untagged/Off					
			road					
2001	Ford	F750 Dump	Grounds	X				
2003	Chevy	S-10 Pick-	NHS/Untagged/Off					
		up	Road					
2004	Chevy	Cavalier	Fleet					
2004	Chevy	Impala	Fleet					
2004	Chevy	G3500 Van	Grounds	Х				
2004	Chevy	G2500 Van	Spare		Х			
2004	Chevy	G3500 Van	NHS/Untagged/Off					
			Road					
2005	Chevy	K2500 HD	Grounds					
2005	GMC	Canyon	Water					
2005	GMC	Canyon	Water					
2006	GMC	W3500 Tilt	Custodial					
		Box Van						
2006	GMC	G2500 Van	HHS/Untagged/Off					
			Road					
2007	Chevy	G2500 Van	Grounds	Х				
2007	Ford	E250 Van	PHS/Untagged/Off					
			Road					
2007	GMC	G3500	HVAC					
		Savanna						
2008	GMC	K2500 HD	Grounds					
2008	Ford	E350 Van	Spare	Х				
2010	GMC	K2500 HD	Grounds		X			
2010	Ford	E350 Van	HVAC	Х				
2011	Dodge	Dump	Grounds	Х				
2011	Dodge	Dump	Grounds		Х			
2012	GMC	Canyon	Custodial		Х			
2013	International	4300 Dump	Grounds		X			
		Truck						
2013	lsuzu	NPR HD	Warehouse			Х		
2013	International	4300 Dump	Grounds			X		
		Truck						

2014	Ford	E250 Van	Electric		X		
2014	Ford	F250 4x4	Grounds		Х		
2015	Ford	F350 4x4	Auto Service Truck		X		
2016	Ford	Transit 150	Carpentry		X		
		Van					
2016	Ford	Transit 150	Carpentry			Х	
		Van					

X = Purchased Replacement (proposed) X* = In House Replacement D = Pending Disposal Revised 08/03/2021

Roof Replacement Schedule

School	Built	Renovated/Add.	Re-Roofed	2024	2025	2026	2027	2028	2029
Appeal Elementary	1949	1956,1958,1971,1989, 2005	2013*						
Barstow Elementary	2008								
Beach Elementary	1953	1971,1981,2006	1998/2008						
Brooks Administrative Building	1950	1973	1998						
Career & Technology Academy	1970	2005,2023							
Calvert Country	1958	1983	2010						
Calvert Elementary	1964	1974,1981,2007,2023	1999						
Calvert Middle	2010								
Calvert High	2012	2014							
Planetarium	1977		1998						
Field House	1963								
Dowell Elementary	1999	2007							
Huntingtown Elementary	1971	1980,2006	2006						

Huntingtown	2004						
High							
Mill Creek Middle	1999						
Mt. Harmony Elementary	1961	1970,1975,2007	1999				
, Mutual Elementary	1975	1989,2007,2014	2005				
Northern Middle	1976		1993				
Northern High	1972	1985,1992	1999	X*			
Patuxent Elementary	1992	2006					
Patuxent High	1996		2013*			X*	
Plum Point Elementary	1991	2006	2013*				
Plum Point Middle	1992		2011*				
Southern Middle	1979	1996	2006				
St. Leonard Elementary	1996	2006					
Sunderland Elementary	1988	2005	2013*				
Windy Hill Elementary	1996	2006					
Windy Hill Middle	1998						
Maintenance Warehouse	1978						
Storage Shed	TIN						
Carpentry Shop	TIN						
Auto Shop	TIN						

* Partial Replacement X = Flat Roof Y = Metal Roof Z = Asphalt Shingle Roof

Revised 08/03/2021

Painting – Interior

School	Built	Renovated/Add.	2024	2025	2026	2027	2028	2029
Appeal Elementary	1949	1956,1958,1971,1989,2005, 2021				X		
Barstow Elementary	2008	2020			Х			
Beach Elementary	1953	1971,1981,2006,2022						
Brooks Administrative Building	1950	1973	X					X
Career & Technology Academy	1970	2005, 2021				X		
Calvert Country	1958	1983,2022						
Calvert Elementary	1964	1974,1981,2007			X			
Calvert Middle	2010	2022						
Calvert High	2012	2014, 2021				X		
Planetarium	1977	2023						
Field House	1963	2023						
Dowell Elementary	1999	2007,2021,2023						
Huntingtown Elementary	1971	1980,2006, 2021				X		
Huntingtown High	2004			X				
Mill Creek Middle	1999		X					X
Mt. Harmony Elementary	1961	1970,1975,2007, 2021				X		
Mutual Elementary	1975	1989,2007,2014,2023						

Northern Middle	1976	2023					
Northern High	1972	1985,1992		X			
Patuxent Elementary	1992	2006,2023					
Patuxent High	1996				X		
Plum Point Elementary	1991	2006, 2022					
Plum Point Middle	1992	2022					
Southern Middle	1979	1996			X		
St. Leonard Elementary	1996	2006	X				X
Sunderland Elementary	1988	2005		X			
Windy Hill Elementary	1996	2006		X			
Windy Hill Middle	1998		X				X
Maintenance Warehouse	1978			X			
Carpentry/Paint Shop	Unknown			X			

Interior painting includes lobby, hallways, cafeteria, gym, restrooms, media center, & auditorium. Classrooms are painted as needed; approx. every 5-6 years.

Painting – Exterior

School	Built	Renovated/Add.	2024	2025	2026	2027	2028	2029
Appeal	1949	1956,1958,1971,1989,2005						
Elementary		2023						
Barstow	2008	2021				Х		
Elementary								

Beach Elementary	1953	1971,1981,2006,2022					
Brooks	1950	1973	X				X
Administrative Building							
Career & Technology	1970	2005			X		
Academy							
Calvert Country	1958	1983		Х			
Calvert Elementary	1964	1974,1981,2007			X		
Calvert Middle	2010	2023					
Calvert High	2012	2014,2022					
Planetarium	1977	2022					
Field House	1963	2022					
Dowell	1999	2007,2020	Х				X
Elementary	1071	1000 2006 2021				N N	
Huntingtown Elementary	1971	1980,2006, 2021				X	
Huntingtown High	2004		X				X
Mill Creek Middle	1999	2023					
Mt. Harmony Elementary	1961	1970,1975,2007		X			
Mutual Elementary	1975	1989,2007,2014, 2021				X	
Northern Middle	1976				X		
Northern High	1972	1985,1992		X			
Patuxent Elementary	1992	2006,2023					
, Patuxent High	1996				X		
Plum Point Elementary	1991	2006	X				Х
Plum Point Middle	1992	2022					

Southern Middle	1979	1996	X				X
St. Leonard Elementary	1996	2006		X			
Sunderland Elementary	1988	2005,2023					
Windy Hill Elementary	1996	2006, 2021				X	
Windy Hill Middle	1998	2021				X	
Maintenance Warehouse	1978				X		
Carpentry/Paint Shop	Unknown			X			

Exterior painting is done on an "as needed" basis; approx. every 5-6 years

Revised 08/03/2021

Carpet Replacement

School	Built	Renovated/Add.	2024	2025	2026	2027	2028	2029
Appeal Elementary	1949	1956,1958,1971,1989,2005,2023						
Barstow Elementary	2008	2022	X*					
Beach Elementary	1953	1971,1981,2006						
Brooks Administrative Building	1952	1973,2021						
Career & Technology Academy	1970	2005		X*				
Calvert Country	1958	1983		X*				
Calvert Elementary	1964	1974,1981,2007	X*					
Calvert Middle	2010				X			
Calvert High	2012	2014						

Planetarium	1977						
Field House	1963						
Dowell Elementary	1999	2007					
Huntingtown Elementary	1971	1980,2006					
Huntingtown High	2004		X*				
Mill Creek Middle	1999						
Mt. Harmony Elementary	1961	1970,1975,2007	X*				
Mutual Elementary	1975	1989,2007,2014				X*	
Northern Middle	1976						
Northern High	1972	1985,1992					
Patuxent Elementary	1992	2006					
Patuxent High	1996						
Plum Point Elementary	1991	2006,2023					
Plum Point Middle	1992						
Southern Middle	1979	1996	X*				
St. Leonard Elementary	1996	2006					
Sunderland Elementary	1988	2005		X*			
Windy Hill Elementary	1996	2006	X*				
Windy Hill Middle	1999	2021					

*Due to size and funding, some replacements require multiple years and are only partial in scope. Revised 08/03/2021

Floor Tile Replacement

School	Built	Renovated/Add.	2024	2025	2026	2027	2028	2029
Appeal	1949	1956,1958,1971,1989,2005	Χ*					
Elementary								
Barstow	2008	2022		X*				
Elementary								
Beach	1953	1971,1981,2006						
Elementary								
Brooks	1950	1973						
Administrative								
Building								
Career &	1970	2005,2021	X*					
Technology								
Academy	1059	1983		X*				
Calvert	1958	1983		X				
Country								
Calvert	1964	1974,1981,2007	X*					
Elementary	2010							
Calvert Middle	2010	2011						
Calvert High	2012	2014						
Planetarium	1977							
Field House	1963	2007						
Dowell	1999	2007						
Elementary Huntingtown	1971	1980,2006,2021						
Elementary	19/1	1980,2008,2021						
Huntingtown	2004		X*					
High	2004		^					
Mill Creek	1999							
Middle	1999							
Mt. Harmony	1961	1970,1975,2007						
Elementary								
Mutual	1975	1989,2007,2014			X*			
Elementary								
Northern	1976	2022						
Middle								

Northern High	1972	1985,1992				
Patuxent	1992	2006				
Elementary						
Patuxent High	1996					
Plum Point	1991	2006	X*			
Elementary						
Plum Point	1992		X*			
Middle						
Southern	1979	1996		X*		
Middle						
St. Leonard	1996	2006				
Elementary						
Sunderland	1988	2005		X*		
Elementary						
Windy Hill	1996	2006		X*		
Elementary						
Windy Hill	1998			X*		
Middle						
Maintenance	1978					
Warehouse						

* Most floor tile replacements are only partial and are done on an "as needed" basis Revised 08/03/2021

Bleacher Inspection – Repair/Replacement

School	Built	Renovated/Add.	2024	2025	2026	2027	2028	2029
Appeal	1949	1956,1958,1971,1989,2005						
Elementary								
Barstow	2008							
Elementary								
Beach	1953	1971,1981,2006						
Elementary								
Brooks	1950	1973						
Administrative								
Building								
Career &	1970	2005						
Technology								
Academy								

Calvert	1958	1983						
Country								
Calvert	1964	1974,1981,2007						
Elementary								
Calvert Middle	2010	2023	Х	X	X	X	Х	X
Calvert High	2012	2014,2023	Х	X	X	X	Х	X
Planetarium	1977							
Field House	1963							
Dowell	1999	2007						
Elementary								
Huntingtown	1971	1980,2006						
Elementary								
Huntingtown	2004	2023	Х	X	X	X	Х	X
High								
Mill Creek	1999	2023	Х	X	X	X	Х	X
Middle								
Mt. Harmony	1961	1970,1975,2007						
Elementary								
Mutual	1975	1989,2007,2014						
Elementary								
Northern	1976	2023	X	X	X	X	X	X
Middle								
Northern High	1972	1985,1992,2023	X	X	X	X	Х	X
Patuxent	1992	2006						
Elementary								
Patuxent High	1996	2023	X	X	X	X	Х	X
Plum Point	1991	2006						
Elementary								
Plum Point	1992	2023	X	X	X	X	Х	X
Middle								
Southern	1979	1996	Y	X	X	X	Х	X
Middle								
St. Leonard	1996	2006						
Elementary								
Sunderland	1988	2005						
Elementary								

Windy Hill	1996	2006						
Elementary								
Windy Hill	1998	2023	Х	Х	X	Х	Х	Х
Middle								
All bleachers are	inspected annua	ally and repaired as needed	Y = Replaceme	nt X = Ins	pect/Repair	Revised 08/03	/2021	

Blacktop Resurfacing (Seal Coating)/Repaving

School	Built	Renovated/Add.	2024	2025	2026	2027	2028	2029
Appeal	1949	1956,1958,1971,1989,	X					
Elementary		2005						
Barstow	2008							
Elementary								
Beach	1953	1971,1981,2006						
Elementary								
Brooks	1950	1973						
Administrative								
Building								
Career &	1970	2005						
Technology								
Academy								
Calvert	1958	1983		X				
Country								
Calvert	1964	1974,1981,2007	X					
Elementary								
Calvert Middle	2010							
Calvert High	2012	2014	X					
Planetarium	1977							
Field House	1963							
Dowell	1999	2007	X					
Elementary								
Huntingtown	1971	1980,2006,2023						
Elementary								
Huntingtown	2004							
High								
Mill Creek	1999							
Middle								

Mt. Harmony	1961	1970,1975,2007	Y			
Elementary						
Mutual	1975	1989,2007,2014	X			
Elementary						
Northern	1976					
Middle						
Northern High	1972	1985,1992				
Patuxent	1992	2006		X		
Elementary						
Patuxent High	1996					
Plum Point	1991	2006	Y			
Elementary						
Plum Point	1992					
Middle						
Southern	1979	1996		Y		
Middle						
St. Leonard	1996	2006	Х	Z		
Elementary						
Sunderland	1988	2005				
Elementary						
Windy Hill	1996	2006				
Elementary						
Windy Hill	1998		Z			
Middle						
Maintenance	1978					
Warehouse						

X = Crack fill, seal coating, & restriping; may include some minor repairs Y = Partial Paving Z = Repave entire parking lot Revised 08/03/2021

Boilers and Pressure Vessels Inspections

School	Built	Renovated/Add.	2024	2025	2026	2027	2028	2029
Appeal	1949	1956,1958,1971,1989,2005,2023	Х	X *	X	X *	Х	Х
Elementary								
Barstow	2008	2023	Y *	Y	Y *	Y	Y *	Y *
Elementary								
Beach	1953	1971,1981,2006,2023	Х	X *	Х	X *	Х	Х
Elementary								

Brooks Administrative Building	1950	1973,2023	X *	X	X *	X	X *	X *
Career & Technology Academy	1970	2005,2023	x	X *	X	X *	X	X
Calvert Country	1958	1983,2023	X *	X	X *	X	X *	X *
Calvert Elementary	1964	1974,1981,2007,2023	X *	X	X *	X	X *	X *
Calvert Middle	2010	2023	Y *	Y	Y *	Y	Y *	Y *
Calvert High	2012	2014,2023	X *	X	X *	X	X *	X *
Planetarium	1977	2023						
Field House	1963	2023						
Dowell Elementary	1999	2007,2023	X	X *	X	X *	X	X
Huntingtown Elementary	1971	1980,2006,2023	X	X *	x	X *	X	X
Huntingtown High	2004	2023	X *	X	X *	X	X *	X *
Mill Creek Middle	1999	2023	Y *	Y	Y *	Y	Y *	Y *
Mt. Harmony Elementary	1961	1970,1975,2007,2023	X *	X	X *	X	X *	X *
Mutual Elementary	1975	1989,2007,2014,2023	X	X *	X	X *	X	X
Northern Middle	1976	2023	X	X *	X	X *	X	X
Northern High	1972	1985,1992,2023	X *	X	X *	X	X *	X *
Patuxent Elementary	1992	2006,2023	X *	X	X *	X	X *	X *
, Patuxent High	1996	2023	X	X *	Х	X *	Х	X
Plum Point Elementary	1991	2006,2023	X *	X	X *	X	X *	X *
Plum Point Middle	1992	2023	X *	X	X *	X	X *	X *

Southern Middle	1979	1996,2023	X *	X	X *	X	X *	X *
St. Leonard	1996	2006,2023	Х	X *	Х	X *	Х	X
Elementary								
Sunderland	1988	2005,2023	X *	X	X *	Х	X *	X *
Elementary								
Windy Hill	1996	2006,2023	Х	X *	X	X *	Х	Х
Elementary								
Windy Hill	1998	2023	Х	X *	X	X *	X	X
Middle								
Maintenance	1978							
Warehouse								
Paint Shop	Unknown		X *	X	X *	X	X *	X *
Y = Pressure	X = Boilers							
Vessels only	and Pressure							
	Vessels							

Inspections are completed yearly by Maintenance boiler mechanics and bi-annually by MABE * using outside contractors Revised 08/03/2021

Septic Tank, Pump Station and Grease Trap Cleaning/Replacement

School	Built	Renovated/Add.	2024	2025	2026	2027	2028	2029
Appeal Elementary	1949	1956,1958,1971,1989,2005,2023	X	X	X	X	X	X
Barstow Elementary	2008	2023	X	x	X	X	x	x
Beach Elementary	1953	1971,1981,2006,2023	X	X	X	X	X	x
Brooks Administrative Building	1950	1973,2023	X	X	X	X	X	X
Career & Technology Academy	1970	2005,2023	X	X	X	X	X	X
Calvert Country	1958	1983,2023	X	X	X	X	X	X
Calvert Elementary	1964	1974,1981,2007,2023	Х	X	X	x	x	X

Calvert Middle	2010	2023	X	X	X	X	X	X
Calvert High	2012	2014,2023	X	Х	X	X	X	X
Dowell Elementary	1999	2007,2023	X	X	X	X	X	X
Huntingtown Elementary	1971	1980,2006,2023	X	X	X	X	X	X
Huntingtown High	2004	2023	X	X	X	X	X	X
Mill Creek Middle	1999	2023	X	X	X	X	X	X
Mt. Harmony Elementary	1961	1970,1975,2007,2023	X	X	X	X	X	X
Mutual Elementary	1975	1989,2007,2014,2023	X	X	X	X	X	X
Northern Middle	1976	2023	X	X	X	X	X	X
Northern High	1972	1985,1992,2023	X	Х	Х	X	X	X
Patuxent Elementary	1992	2006,2023	X	X	X	X	X	X
Patuxent High	1996	2023	Х	Х	Х	X *	X	Х
Plum Point Elementary	1991	2006,2023	X	X	X	X	X	X
Plum Point Middle	1992	2023	X	X	X	X	X	X
Southern Middle	1979	1996,2023	X	X	X	X	X	X
St. Leonard Elementary	1996	2006,2023	X	X	X	X	X	X
Sunderland Elementary	1988	2005,2023	X	X	X	X	X	X
Windy Hill Elementary	1996	2006,2023	X	X	X	X	X	X
Windy Hill Middle	1998	2023	X	X	X	X	X	X

Middle
Image: March and Participation and Participation

Boiler Overhaul/Replacement

School	Built	Renovated/Add.	2024	2025	2026	2027	2028	2029
Appeal	1949	1956,1958,1971,1989,2005		X				
Elementary								
Barstow	2008							
Elementary								
Beach	1953	1971,1981,2006						
Elementary								
Brooks	1950	1973						
Administrative								
Building								
Career &	1970	2005						
Technology								
Academy								
Calvert	1958	1983						
Country								
Calvert	1964	1974,1981,2007						
Elementary								
Calvert Middle	2010							
Calvert High	2012	2014						
Planetarium	1977							
Field House	1963							
Dowell	1999	2007						
Elementary								
Huntingtown	1971	1980,2006						
Elementary								
Huntingtown	2004							
High								
Mill Creek	1999							
Middle								
Mt. Harmony	1961	1970,1975,2007,2021						
Elementary								
Mutual	1975	1989,2007,2014						
Elementary								
Northern	1976							
Middle								

Northern High	1972	1095 1002				
		1985,1992	 			
Patuxent	1992	2006				
Elementary						
Patuxent High	1996					
Plum Point	1991	2006				
Elementary						
Plum Point	1992					
Middle						
Southern	1979	1996				
Middle						
St. Leonard	1996	2006				
Elementary						
Sunderland	1988	2005				
Elementary						
Windy Hill	1996	2006				
Elementary						
Windy Hill	1998					
Middle						
Maintenance	1978					
Warehouse						
Paint Shop	Unknown	ted annually Deviced 08/02				

All boilers are cleaned and inspected annually Revised 08/03/2021

In-Ground Oil Tank Inspections/Testing

School	Built	Renovated/Add.	2024	2025	2026	2027	2028	2029
Appeal	1949	1956,1958,1971,1989,2005,						
Elementary		2023						
Barstow	2008							
Elementary								
Beach	1953	1971,1981,2006, Removed						
Elementary								
Brooks	1950	1973,2021 Removed						
Administrative								
Building								

Career &	1970	2005					
Technology							
Academy							
Calvert	1958	1983					
Country							
Calvert	1964	1974,1981,2007					
Elementary							
Calvert Middle	2010			X			
Calvert High	2012	2014	Х				
Planetarium	1977						
Field House	1963						
Dowell	1999	2007					
Elementary							
Huntingtown	1971	1980,2006,2021					
Elementary							
Huntingtown	2004		X				
High							
Mill Creek	1999						
Middle							
Mt. Harmony	1961	1970,1975,2007, 2023					
Elementary							
Mutual	1975	1989,2007,2014,2021					
Elementary							
Northern	1976	2021					
Middle							
Northern High	1972	1985,1992,2021					
Patuxent	1992	2006, 2023					
Elementary	4000						
Patuxent High	1996	2006 2022		X			
Plum Point	1991	2006, 2023					
Elementary	1002			X			
Plum Point Middle	1992			X			
Southern	1979	1996					
Middle	13/3	1330					
St. Leonard	1996	2006 2021					
	1990	2006,2021					
Elementary					<u> </u>		

Sunderland	1988	2005	Х		
Elementary					
Windy Hill	1996	2006, 2023			
Elementary					
Windy Hill	1998	2023			
Middle					
Maintenance	1978				
Warehouse					
Paint Shop	Unknown				

All tanks are fiberglass. A certified contractor performs yearly containment sump inspections and a complete tank inspection 15 years after initial installation and then every 5 years thereafter (X). Revised 08/03/2021.

Storm Water Management Ponds – Preventative Maintenance

School	Built	Renovated/Add.	2024	2025	2026	2027	2028	2029
Appeal Elementary	1949	1956,1958,1971,1989,2005	Х	X	X	X	X	X
Barstow Elementary	2008		X	X	X	X	X	X
Beach Elementary	1953	1971,1981,2006,2023	Х	X	X	X	X	X
Brooks Administrative Building	1950	1973,2023						
Career & Technology Academy	1970	2005,2023	X	X	X	X	X	X
Calvert Country	1958	1983,2023	Х	X	X	X	X	X
Calvert Elementary	1964	1974,1981,2007,2023						
Calvert Middle	2010	2023	Х	X	X	X	X	X
Calvert High	2012	2014,2023	Х	X	X	X	X	X
Planetarium	1977	2023						
Field House	1963	2023						
Dowell Elementary	1999	2007,2023	Х	X	X	X	X	X

Huntingtown Elementary	1971	1980,2006,2023						
Huntingtown High	2004	2023	X	X	X	X	X	X
Mill Creek Middle	1999	2023	X	X	X	X	X	X
Mt. Harmony Elementary	1961	1970,1975,2007,2023	X	X	X	X	X	X
Mutual Elementary	1975	1989,2007,2014,2023						
Northern Middle	1976	2023	X	X	X	X	X	X
Northern High	1972	1985,1992,2023	X	X	Х	Х	X	X
Patuxent Elementary	1992	2006,2023	X	X	X	X	X	X
Patuxent High	1996	2023	X	X	Х	Х	X	X
Plum Point Elementary	1991	2006,2021,2023	X	X	X	X	X	X
Plum Point Middle	1992	2023	X	X	X	X	X	X
Southern Middle	1979	1996,2023	X	X	X	X	X	X
St. Leonard Elementary	1996	2006,2023	X	X	X	X	X	X
Sunderland Elementary	1988	2005,2021,2023	X	X	X	X	X	X
Windy Hill Elementary	1996	2006,2023	x	X	X	X	X	X
Windy Hill Middle	1998	2023	x	X	x	x	X	X
Maintenance Warehouse	1978							
Paint Shop	Unknown							

X = Inspected and maintained annually Revised 08/03/2021

Chiller/Cooling Tower Replacement and Minor Overhauls

School	Built	Renovated/Add.	2024	2025	2026	2027	2028	2029
Appeal	1949	1956,1958,1971,1989,2005		X				
Elementary								
Barstow	2008							
Elementary								
Beach	1953	1971,1981,2006						
Elementary								
Brooks	1950	1973						
Administrative								
Building								
Career &	1970	2005						
Technology								
Academy								
Calvert	1958	1983						
Country								
Calvert	1964	1974,1981,2007						
Elementary								
Calvert Middle	2010							
Calvert High	2012	2014						
Dowell	1999	2007						
Elementary								
Huntingtown	1971	1980,2006						
Elementary	2024							
Huntingtown High	2004							
Mill Creek	1999							
Middle								
Mt. Harmony	1961	1970,1975,2007,2021						
Elementary								
Mutual	1975	1989,2007,2014						
Elementary								
Northern	1976							
Middle								
Northern High	1972	1985,1992						

Patuxent	1992	2006						
Elementary								
Patuxent High	1996							
Plum Point	1991	2006						
Elementary								
Plum Point	1992							
Middle								
Southern	1979	1996						
Middle								
St. Leonard	1996	2006						
Elementary								
Sunderland	1988	2005,2023						
Elementary								
Windy Hill	1996	2006						
Elementary								
Windy Hill	1998							
Middle								
X = Chiller ۲	K = Chiller Y = Cooling Tower * Minor Overhauls Revised 08/03/2021							

Metric	Industry Standard	Previous FY	Previous FY	Current FY Budgeted
		Budgeted	Actual	
a) Maintenance Staffing (FTEs for Total GSF)	APPA Level 2 (Comprehensive Stewardship):FTEs for Total GSF*	FTE 40	FTE 40	FTE40
b) Maintenance Load (GSF per FTE)	APPA Level 2 (Comprehensive Stewardship): 67,456 GSF per FTE	GSF 58,910	GSF 58,910	GSF 61,419
c) Percent of Maint. Staff delivering bldg services**	N/A	100	100	100
d) Custodial Staffing (FTEs for Total GSF)	APPA Level 2 (Ordinary Tidiness): FTEs for Total GSF*	FTE 159.25	FTE 159.25	FTE 159.25
e) Custodial Load (GSF per FTE)	APPA Level 2 (Ordinary Tidiness): 16,700 GSF per FTE	GSF 14,796	GSF 14,796	GSF 15,427

	Industry Standard	Previous FY Goal/Budget	Previous FY Goal/Budget per GSF	Previous FY Actual	Previous FY Actual per GSF	Current FY Goal/Budget	Current FY Goal/Budget per GSF
Spending							
All Maintenance	(CRV x .03)	N/A	N/A	34,285,649	GFS 14.55	33,756,363	GSF 13.74
All Maintenance, per GSF	N/A	Budget 3,721,403	GSF 1.57	Budget	GSF N/A	Budget 4,019,600	GSF 1.63
Operations	(CRV x .01)	N/A	N/A	11,428,549	4.84	11,252,121	GSF 4.58
Operations, per GSF	N/A	Budget 18,588,895	GSF 7.88	Budget	GSF N/A	Budget 19,568,300	GSF 7.96
M&O Combined	(CRV x .04)			45,714,198	GFS 19.39	45,008,484	GSF 18.32
M&O Combined, per GSF	N/A	Budget 22,310,298	GSF 9.46	Budget	GSF 7.48	Budget 23,587,900	GSF 9.60