





Capital Improvement Program FY 2021–2025 Long-Range Master Plan FY 2020–2029

**Superintendent's Proposed Budget** 

Superintendent's Proposed FY 2020 Capital Budget Capital Improvement Program FY 2021–2025 Long-Range Master Plan FY 2020–2029

## Superintendent

Michael J. Martirano, Ed.D.

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September 2018

## Superintendent's Proposed FY 2020 Capital Budget Capital Improvement Program FY 2021–2025 Long-Range Master Plan FY 2020–2029

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This is a publication of the Howard County Public School System.

Electronic copy of the Capital Budget can be found on the school system's website at www.hcpss.org.

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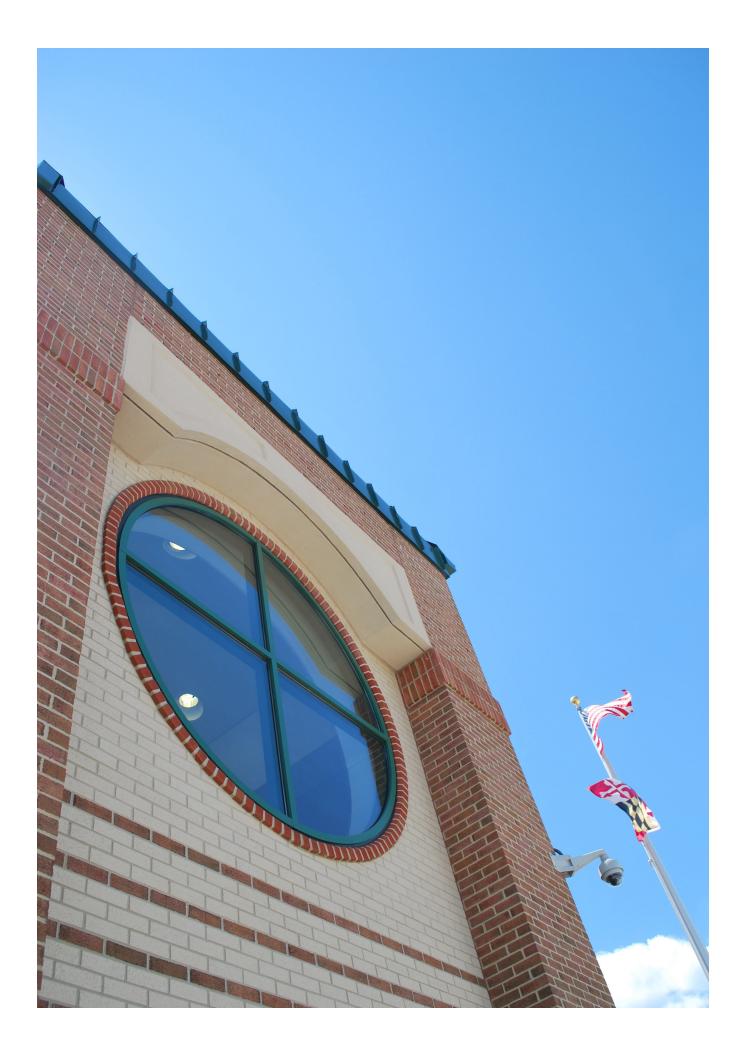
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Superintendent's Proposed FY 2020 Capital Budget Capital Improvement Program FY 2021–2025 Long-Range Master Plan FY 2020–2029

Section 1

## **Executive Summary**

September 2018



## Introduction

This document contains the Howard County Public School System's (HCPSS) Superintendent's Proposed FY 2020 Capital Budget and the FY 2021–2025 Capital Improvement Program (CIP) schedules. Projects are presented for the next fiscal year and future years, documenting long-range plans for the system.

The capital budget process, detailed within the Executive Summary, links capital planning with attendance area planning and addresses long-range planning issues identified in the annual feasibility study. Presented to the Board of Education on June 7, 2018, the Feasibility Study provided new enrollment projections and proposed future redistricting. Several factors affect the total FY 2020 Capital Budget. This year's capital improvement program provides for student capacity, renovations, and various other improvements that staff, parents, and community leaders have identified as needed. The formula used by the state to calculate school construction costs has increased to \$374 per square foot. Project budgets have increased to

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reflect rising costs such as the requirement to pay prevailing wages on all projects after July 1, 2014, costs to comply with LEED, and inflation.

The Superintendent's Proposed Capital Budget is the first step in this annual process which will ultimately end with the Board of Education's Approved Capital Budget in May 2019. The capital budget is submitted much earlier than the operating budget to accommodate deadlines associated with submission of the State capital budget to the Interagency Commission on School Construction.

Executive Summary provides an introduction to the Superintendent's Proposed FY 2020 Capital Budget, the Capital Improvement Program FY 2021–2025, and the Long-Range Master Plan FY 2020–2029. It presents a high level overview of the budget process and the FY 2020 Proposed Capital Budget. Included in the Executive Summary is the Superintendent's Message, which provides an overview of the budget issues. Other information found in the Executive Summary is enrollment projections and student capacities, recent capital budget accomplishments, the capital budget schedule, and information on the capital budget process.

**System Information** presents information on the school system with a map of school locations throughout the county.

**Project Detail** presents detail on each project presented in the proposed FY 2020 Capital Budget as well as information on long range projects.

**Supporting Data** includes data from the feasibility study, detailed enrollment data, school and region tests for Adequate Public Facilities Ordinance (APFO), and facilities constructed and/or renovated with state funds.

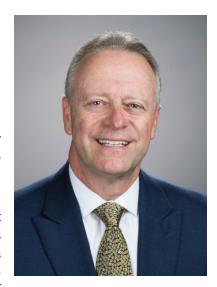
## Message from the Superintendent

September 6, 2018

Dear Howard County community,

I am pleased to present my Proposed FY 2020 Capital Budget, FY 2021-2025 Capital Improvement Program and the FY 2020-2029 Long-Range Master Plan for the Howard County Public School System.

In alignment with my Strategic Call to Action, the Capital Budget provides a framework for educational facilities that give all students and staff equitable opportunities to learn and achieve. It adds improvements and capacity where they are most urgently needed to relieve overcrowded schools and ensure the equitable allocation of



instructional resources. The proposed budget facilitates the delivery of the high-quality instructional programming needed to enable every student to reach their full potential in the classroom and beyond.

The \$89.2 million Capital Budget, \$557 million Capital Improvement Program and \$938 million Long-Range Master Plan for FY 2020-2029 support our ultimate goal to build an inclusive, nurturing environment, close opportunity gaps, and address projected student capacity and existing facility needs. The Capital Improvement Program and Long-Range Master Plan address existing and projected facility needs to support our projected growth of 7,900 additional students between 2019 and 2029.

The Long-Range Master Plan reflects the collaborative deliberation by a committee of school system and county government staff to develop a realistic and affordable plan that equitably meets student needs and community priorities.

#### FY 2020 Capital Budget Highlights

- Talbott Springs Elementary School Replacement, scheduled for opening in August 2022.
- New High School #13, scheduled for opening in August 2023.
- Hammond High School Renovation/Addition, scheduled for opening in August 2023.
- Systemic renovations (ex. HVAC, boilers).

#### FY 2021-2025 Capital Improvement Program Highlights

- \$92 million in systemic renovations for modernizations and major programmatic renovations to existing school facilities.
- New elementary schools to address enrollment growth.
- Renovations to address deferred maintenance and additions to add needed seats at current middle school facilities.

## Message from the Superintendent

#### FY 2020-2029 Long-Range Master Plan Highlights

- Includes funding for four future elementary schools and a future high school, which are necessary to meet projected enrollment growth and capacity needs.
- Replaces the Applications and Research Lab with a new Middle and High School Career Development Center in order to expand educational spaces to meet the growing curriculum.
- Provides for the addition of 4,300 additional seats.

The budget provides the facilities needed to give every student access to the high quality educational opportunities that lead to lifelong success. I want to acknowledge the stakeholder feedback that helped develop this budget. Thank you to our community, County Executive and Council, and Board of Education members for sharing your views and participating and collaborating with us during this process. Through our ongoing partnerships, we can continue to advance our vision of equity and support instructional growth with success.

Rising costs and continued increasing enrollment have led to school system capital needs that will require an increase to historical funding levels by the county and state. We know that resources are limited and there are many competing needs. I am committed to working collaboratively with our state and county partners to secure the funding that is necessary to move these projects forward.

Large public organizations demonstrate their priorities through their budgets. This recommended budget reflects our priorities as a school system for supporting our children and maintaining excellence in instruction by leading with equity.

The FY 2020 Capital Budget schedule is detailed at the end of the Executive Summary and includes the dates of Board public hearings and work sessions. I am dedicated to working with the Board of Education and our community stakeholders to advance these important capital projects forward.

Sincerely,

Michael J. Martirano, Ed.D.

Superintendent

## **HCPSS Strategic Call to Action**

## **HCPSS Strategic Call to Action**



# **Learning and Leading with Equity** *The Fierce Urgency of Now*

#### Vision

Every student and staff member embraces diversity and possesses the skills, knowledge and confidence to positively influence the larger community.



#### Mission

HCPSS ensures academic success and social-emotional well-being for each student in an inclusive and nurturing environment that closes opportunity gaps.

### Four Overarching Commitments

#### **VALUE**

Every HCPSS stakeholder feels happy and rewarded in their roles and takes pride in cultivating the learning community.

#### ACHIEVE

An individualized focus supports every person in reaching milestones for success.

#### CONNECT

Students and staff thrive in a safe, nurturing and inclusive culture that embraces diversity.

#### **EMPOWER**

Schools, families and the community are mutually invested in student achievement and well-being.

## **Desired Outcomes**

- Equity and relationships are at the foundation of all decisions and actions.
- Students' social-emotional learning is nurtured through life skills development and collaborative dialogue, such as restorative practices to solve problems.
- Graduation rates among all high schools and each demographic group are at exemplary levels.
- Students graduate with the skills, attributes and knowledge necessary to acquire meaningful and rewarding employment in a dynamic international workplace.
- All students have equitable opportunities to earn college credit or industry certification.
- Through collaboration with families and the greater community, all students enter kindergarten **ready to learn**.
- Each and every student receives a high-quality education through individualized instruction, challenges, supports and opportunities.
- High quality special education services are delivered in a consistent and collaborative manner.

- Curriculum is based on standards and best practices, implemented with fidelity, and aligned with meaningful assessments that provide actionable data for instructional planning.
- Students see diversity and inclusion reflected in the curriculum, and respect the contributions of all populations.
- Staff reflect the diversity of the student and community population.
- Parents, guardians and community members trust in the integrity of the school system and are active and valued partners.
- All staff feel valued, are effective in their roles, and have equitable access to additional opportunities through professional learning and leadership development.
- Organizational culture and climate are supportive and nurturing, and provide a safe and healthy environment for all.
- All operations and practices are responsive, accountable, efficient and student-centered.

#### HOWARD COUNTY PUBLIC SCHOOL SYSTEM

## **FY 2020 Capital Budget**

Superintendent's Proposed September 6, 2018

(In Thousands)

FY 2020 Superintendent's Proposed Capital Budget

Howard County Public School System

Capacity	Project	County Project	Occupancy	Approved Appropriations	Local Bonds	Codes	Total FY20 Request	Requested Project Totals Through FY20
540	Talbott Springs ES Replacement	E1043	Sept 2022	\$ 8,050	\$ 9,500	(C)	\$ 9,500	\$ 17,550
1,615	New HS #13	E1035	Sept 2023	6,732	15,600	(C)	15,600	22,332
200	Hammond HS Renovation/Addition	E1024	Sept 2023	4,000	12,500	(C)	12,500	16,500
	Systemic Renovations/Modernizations	E1044		25,455	37,060	(P,C,E)	37,060	62,515
	Roofing Projects	E1046		12,500	5,000	(P,C,E)	5,000	17,500
	Playground Equipment	E0990		2,930	250	(E)	250	3,180
	Relocatable Classrooms	E1045		1,800	3,200	(P,C,E)	3,200	5,000
	Site Acquisition & Construction Reserve	E1047		-	-	(P,C)	-	-
	Technology	E1048		2,750	5,500	(C,E)	5,500	8,250
	School Parking Lot Expansions	E1012		4,200	-	(P,C,E)	-	4,200
	Planning and Design	E1038		700	400	(P)	400	1,100
	Barrier Free	E0989		5,603	200	(P,C,E)	200	5,803
	TOTALS			\$ 74,720	\$ 89,210		\$ 89,210	\$ 163,930

<sup>(</sup>P) Planning

<sup>(</sup>C) Construction

<sup>(</sup>E) Equipment

## **FY 2021-2025 Capital Improvement Program**

Superintendent's Proposed September 6, 2018

(In Thousands)

FY 2020 Superintendent's Proposed Capital Budget

Howard County Public School System

Grades	Capacity	Project	County Project	Occupancy	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	5 Year CIP Total
K-5	540	Talbott Springs ES Replacement	E1043	Sept 2022	\$ 14,218	\$ 9,856	\$ -	\$ -	\$ -	\$ 24,074
9-12		New HS #13	E1035	Sept 2023	29,260	29,280	29,260	19,505	-	107,305
9-12	200	Hammond HS Renovation/Addition	E1024	Sept 2023	23,955	24,075	24,156	10,342	-	82,528
K-5	600	New ES #43	E1039	Sept 2024	4,000	15,500	14,500	12,439	4,588	51,027
6-8	97	Dunloggin MS Renovation/Addition	E1049	Sept 2024	2,000	8,694	11,671	11,534	5,000	38,899
6-8	156	Ellicott Mills MS Addition	E1037	Sept 2023	-	1,000	6,415	1,000	-	8,415
6-8	-	Oakland Mills MS Renovation	E1036	Sept 2026	-	-	-	7,500	15,500	23,000
K-5	600	New ES #44	E1040	Sept 2026	-	-	4,000	15,550	14,500	34,050
6-12	TBD	MS/HS Career Development Center	E1051	Sept 2028	-	-	-	8,232	25,566	33,798
		Systemic Renovations/Modernizations	E1044		22,724	21,481	18,515	18,430	10,405	91,555
		Roofing Projects	E1046		1,000	5,000	1,000	1,000	5,000	13,000
		Playground Equipment	E0990		250	250	250	250	500	1,500
		Relocatable Classrooms	E1045		1,500	1,500	1,500	1,500	1,500	7,500
		Site Acquisition & Construction Reserve	E1047		-	-	-	-	2,000	2,000
		Technology	E1048		5,500	7,500	7,500	7,500	7,500	35,500
		School Parking Lot Expansions							600	600
		Planning and Design	E1038		400	300	300	300	300	1,600
		Barrier Free	E0989		200	200	200	200	200	1,000
		TOTALS			\$ 105,007	\$ 124,636	\$ 119,267	\$ 115,282	\$ 93,159	\$ 557,351

## FY 2020-2025 Long-Range Systemic Renovation Projects

Superintendent's Proposed September 6, 2018
(In Thousands)

Project	FY 2020 Local Bonds	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Totals
Modification of FY 2019 HVAC Project Scopes	\$ 4,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 4,000
Long Reach HS - Building Envelope	2,000	-	-	-	-	-	2,000
Applications and Research Lab Maintenance	2,500	1,500	1,500	1,500	-	-	7,000
Room Reconfigurations and Modernizations	1,000	-	-	-	-	-	1,000
Forest Ridge ES Office Reconfiguration	750	-	-	-	-	-	750
Guilford ES Exterior Windows/Doors	1,300	-	-	-	-	-	1,300
Ascend One Relocation/Renovations	3,000	-	-	-	-	-	3,000
West Friendship ES MBR/Well	3,000	3,000	-	-	-	-	6,000
Fulton ES HVAC Replacement	8,500	-	-	-	-	-	8,500
Cradlerock ES/Lake Elkhorn MS Boiler Replacement	550	-	-	-	-	-	550
Dump Trucks for Grounds Services (2)	360	-	-	-	-	-	360
Manor Woods ES HVAC Replacement	-	3,984	3,516	-	-	-	7,500
Elkridge Landing MS HVAC Replacement	-	5,185	4,515	-	-	-	9,700
Hammond MS Boiler Replacement	-	455	-	-	-	-	455
Forest Ridge ES Boiler Replacement	-	-	350	-	-	-	350
Bonnie Branch MS HVAC Replacement	-	-	-	5,065	4,435	-	9,500
Bonnie Branch MS Boiler Replacement	-	-	-	350	-	-	350
Hollifield Station ES HVAC Replacement	-	-	-	-	4,395	3,805	8,200
Administration Office	-	-	4,000	5,000	3,000	-	12,000
Kitchen Modernizations	300	300	300	300	300	300	1,800
Special Education/Regional Program Needs	300	300	300	300	300	300	1,800
Indoor Environmental Quality Repairs	3,500	3,000	2,000	1,000	1,000	1,000	11,500
School Security Measures	1,000	-	-	-	-	-	1,000
Emergency Reserve	5,000	5,000	5,000	5,000	5,000	5,000	30,000
TOTALS	\$ 37,060	\$ 22,724	\$ 21,481	\$ 18,515	\$ 18,430	\$ 10,405	\$ 128,615

## FY 2020-2029 Long-Range Master Plan

Superintendent's Proposed September 6, 2018

(In Thousands)

FY 2020 Superintendent's Proposed Capital Budget

Howard County Public School System

Capacity	Project	County Project	Occupancy	Approved Appropriations	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	Total Approp. plus FY20-FY29 Request
540	Talbott Springs ES Replacement	E1043	Sept 2022	\$ 8,050	\$ 9,500	\$ 14,218	\$ 9,856	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 41,624
1,615	New HS #13	E1035	Sept 2023	6,732	15,600	29,260	29,280	29,260	19,505	-	-	-	-	-	129,637
200	Hammond HS Renovation/Addition	E1024	Sept 2023	4,000	12,500	23,955	24,075	24, 156	10,342	-	-	-	-	-	99,028
600	New ES #43	E1039	Sept 2024	-	-	4,000	15,500	14,500	12,439	4,588	-	-	-	-	51,027
97	Dunloggin MS Renovation/Addition	E1049	Sept 2024	-	-	2,000	8,694	11,671	11,534	5,000	-	-	-	-	38,899
156	Ellicott Mills MS Addition	E1037	Sept 2023	-	-	-	1,000	6,415	1,000	-	-	-	-	-	8,415
-	Oakland Mills MS Renovation	E1036	Sept 2026	-	-	-	-	-	7,500	15,500	12,500	2,810	-	-	38,310
600	New ES #44	E1040	Sept 2026	-	-	-	-	4,000	15,550	14,500	12,439	6,524	-	-	53,013
TBD	MS/HS Career Development Center	E1051	Sept 2028	-	-	-	-	-	8,232	25,566	30,850	31,686	22,566	-	118,900
480	New ES #45	E1041	Sept 2030	-	-	-	-	-	-	-	-	4,000	11,500	12,500	28,000
	Systemic Renovations/Modernizations	E1044		25,455	37,060	22,724	21,481	18,515	18,430	10,405	17,000	18,000	19,000	20,000	228,070
	Roofing Projects	E1046		12,500	5,000	1,000	5,000	1,000	1,000	5,000	5,000	5,000	5,000	5,000	50,500
	Playground Equipment	E0990		2,930	250	250	250	250	250	500	500	500	500	500	6,680
	Relocatable Classrooms	E1045		1,800	3,200	1,500	1,500	1,500	1,500	1,500	1,500	1,500	1,500	1,500	18,500
	Site Acquisition & Construction Reserve	E1047		-	-	-	-	-	-	2,000	2,000	2,000	2,000	2,000	10,000
	Technology	E1048		2,750	5,500	5,500	7,500	7,500	7,500	7,500	7,500	7,500	7,500	7,500	73,750
	School Parking Lot Expansions	E1012		4,200	-	-	-	-	-	600	600	600	600	600	7,200
	Planning and Design	E1038		700	400	400	300	300	300	300	300	300	300	300	3,900
	Barrier Free	E0989		5,603	200	200	200	200	200	200	200	200	200	200	7,603
	TOTALS			\$ 74,720	\$ 89,210	\$ 105,007	\$ 124,636	\$ 119,267	\$ 115,282	\$ 93,159	\$ 90,389	\$ 80,620	\$ 70,666	\$ 50,100	\$ 1,013,056

## Capital Planning



Capital planning is an ongoing process where the annual Capital Improvement Program (CIP) and Long-Range Master Plan are updated to reflect changes in enrollments, building capacities, and other conditions. The HCPSS provides other relevant publications, which should be taken as a whole with the capital budget. These include the Feasibility Study, Educational Facilities Master Plan, and the Comprehensive Maintenance Plan.

The formulation of the FY 2020 Capital Budget, FY 2021–2025 Capital Improvement Plan, and the FY 2020–2029 Long-Range Master Plan begins with the annual completion of enrollment projections first presented in the 2018 Feasibility Study. The results of this projection are also included in this document in pre- and post-measures charts. Capacities of schools dictate the calculation of capacity utilization percentage, a measure which allows the effect of school projections to be illustrated in a meaningful way. A school with capacity utilization over 110 percent is deemed to be over-utilized, while a school below 90 percent capacity utilization is deemed to be under-utilized. This range is set by Board of Education policy.



The redistricting of school attendance areas is an integral part of the CIP. The HCPSS is responsible for ensuring that school buildings in the county are run efficiently and effectively. This means keeping schools at or near capacity and ensuring that most available seats are used before new schools would be built. Redistricting is used to ensure that existing capacity and the scheduled capital projects efficiently accommodate projected student enrollments.



While redistricting plans are implied for new facilities proposed in this plan, formal approval of those plans will not occur until the year before they take effect. Changing circumstances may require different plans. For planning purposes, the school attendance areas are grouped into six planning regions. Redistricting plans may include more than one region. The schools and their regions are identified by level in the Supporting Data section.

## Capital Planning and Growth Management

#### General Plan

The Capital Improvement Plan (CIP) must conform with an important County planning document, the Howard County General Plan. Known as *PlanHoward 2030*, it includes annual residential development targets through 2030. The HCPSS will work closely with the Howard County Government to identify future funding sources so that our capital plan best supports the growth management goals of the Howard County General Plan. The capital budget is presented to the Howard County Planning Board so they may make a finding of conformance with the General Plan to the County Council.

The General Plan policy most relevant to this capital budget is Policy 6.1h -- Schools, which directs HCPSS to make efficient use of existing school capacity avoiding unnecessary capital outlays. HCPSS has conducted four years of redistricting since the adoption of *PlanHoward 2030* to open new schools and make more efficient use of existing schools. Approximately 5,700 students were moved. Nearly three quarters of these students were relocated to existing schools.

The General Plan also guides land development in accordance with relevant state growth management laws like the 1997 Priority Funding Areas Act and Smart Green and Growing Act which direct state spending to existing communities and places where local governments want state investment to support future growth, rather than farmland or undeveloped land. The HCPSS has invested heavily in priority funding areas with the construction of Ducketts Lane Elementary School, Thomas Viaduct Middle School and Hanover Hills Elementary School. Projects proposed outside of the priority funding area are systemic renovations necessary to maintain systems in existing schools, like boiler or HVAC upgrades.

#### Adequate Public Facilities Ordinance

The Adequate Public Facilities Ordinance (APFO) ties future residential construction in Howard County to projected school enrollments and school capacities. Elementary and middle school attendance areas that show a projected enrollment over 115 percent of a school's program capacity are closed to future residential development until an attendance area adjustment or a capital improvement can be completed. The APFO test for opening or closing a school attendance area to new residential building looks at the projected population of a school three years out from the current year. An update to the APFO was adopted by the County Council on February 5, 2018. While most of the ordinance is in effect now, changes to the meaning of "Open" for the School Capacity chart (elementary schools and elementary regions at 105%, middle schools at 110%, and high schools at 115%) will change with any chart adopted by the County Council after January 1, 2019.

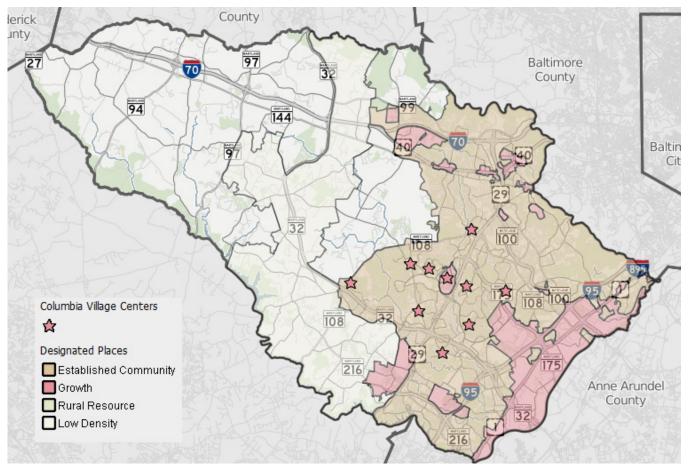


## Capital Planning and Growth Management

The School Capacity charts that appear in the Supporting Data section are the charts that were approved for submission to the Howard County Council by the Board of Education on May 17, 2018, and subsequently submitted to the County Council and begin with the year 2021. The School Capacity charts do not include new schools or projects when their sites have not yet been acquired. As the school system secures deeds for the sites to these planned schools or projects, they will be reflected in that year's School Capacity chart.

Along with the elementary and middle school tests, a regional test within planning regions at the elementary level is also included in the ordinance. Using the School Capacity charts as indicators at the elementary level, no region is "closed" in 2021 and eight schools are "closed" in 2021. At the middle school level, three schools are "closed" in 2021.

With the pre-/post-measures approach, the APFO formatted charts found in the Supporting Data section are in the pre-measures format. These charts represent the FY 2019 Capital Budget projects and the new projections. The post-measures charts represent the recommended capital projects for the FY 2020 Capital Budget and no proposed boundary adjustments and are for demonstrative purposes only.



The General Plan process was followed by adoption of the growth tiers map. Future development and school needs are planned in growth areas or village centers.

## **Enrollment Projections and School Capacities**

#### Methodologies

The formulation of the FY 2020 Capital Budget, FY 2021–2025 Capital Improvement Program, and the FY 2020–2029 Long-Range Master Plan begins with the annual completion of enrollment projections, which were first published in the 2018 Feasibility Study. The projections included in this document are the result of a collaborative effort between the HCPSS, Howard County Department of Planning and Zoning, Maryland Department of Health and Mental Hygiene, and other county and state agencies.

The calculation of the future enrollment projection is based upon a "cohort survival ratio" method of projecting student enrollments. This methodology looks at past population patterns within the county to construct "survival ratios" in predicting a particular grade's migration through the school system. For example, cohort-survival ratios predict how many second graders will result from last year's first graders, how many third graders will result from last year's second graders, and continues until the number of twelfth graders from last year's eleventh graders is predicted. A geographical cohort survival ratio is used rather than a school-based cohort survival ratio to maintain comparability regardless of any redistricting. Finally, the effects of new housing, the net effect of resale of existing housing, and programs housed at the school that impact enrollment are added to the cohort.



#### **Capacities**

Equitable evaluation of the impact of projected enrollment growth requires calculation of the capacities of schools. Capacities are not necessarily fixed to the capacity designed when a building first opened. Changes in use, programs, and standards can effectively change capacity.

High school capacities were evaluated and updated by the Board of Education in March 2009. High school program capacities are a product of either 80 or 85 percent of the total number of teaching stations multiplied by 25 students, exclusive of special education classrooms, and factored with consideration that not all teaching stations can be scheduled for use every period of the school day. Further, special-use teaching stations may not be adaptable for academic programs even if the space is available for a period of the school day.

Middle school capacities were evaluated and approved by the Board on September 26, 2013, after a full study and report by Gilbert Architects Inc. Middle school program capacities are a product of 95 percent of the total number of teaching stations multiplied by 20.5 students, exclusive of special education classrooms. Like high schools, not all teaching stations can be scheduled for use every period of the school day.

Elementary school capacities were evaluated and approved by the Board on October 23, 2014, after a full study and report by Gilbert Architects Inc. Elementary school program capacities are based on 22 students for each Kindergarten classroom, 19 students for each classroom in Grades 1 and 2, and 25 students for each classroom in Grades 3–5. Not included in the capacities for elementary schools are resource/instructional spaces that are utilized on a schoolwide basis where no one group of students is assigned exclusively. Some examples of spaces not included in the capacity are gymnasiums or multipurpose rooms, cafetoriums, art rooms, music rooms, media centers, gifted and talented rooms, or rooms dedicated to regional programs such as prekindergarten.

## Types of Capital Projects



The Capital Improvement Plan (CIP) provides for all facilities needs for the school system. Projects are identified by their purpose as described below.

#### Capacity Projects

New facilities or additions are proposed when projected enrollments cannot be accommodated reasonably within available capacity. The decision to construct a new facility or build an addition on an existing school involves consideration of fiscal implications as well as consideration of the following:

- Growth and location of the population to be served.
- Available capacity in surrounding schools.
- Accommodating needs of current and desired educational programs.

Each capacity project in the CIP has first been evaluated in the annual feasibility study, which balances school boundary adjustments with capital investments. If the attendance areas for existing schools can be adjusted, capital expenditures can be avoided or at least delayed. The Board of Education will review the CIP and set direction as appropriate during capital budget presentations each year. The opening of new schools requires changes in boundaries. Attendance area adjustments are not annual but potential options are evaluated annually in the feasibility study.

From the receipt of planning funds until completion of a project, it typically requires a maximum of three years to plan and construct an elementary or middle school and four years for a high school. Some parts of the construction process can be expedited at cost.

#### **Non-Capacity Projects**

Capital projects, which don't produce capacity are "systemic" and serve the long-term plans of HCPSS and the state of Maryland by keeping and maintaining the systems that support 30–40 year infrastructure investments. Most maintenance investments are covered by the operating budget and documented in the annual Comprehensive Maintenance Plan published as a requirement of the Maryland State Department of Education (MSDE). Each year staff evaluates the comprehensive maintenance plan to identify projects that exceed regular maintenance and add these projects to the capital improvement program as appropriate.

Renovations of existing schools are proposed when repairs of the structure's internal systems are no longer economically feasible. As the Comprehensive Facility Master Plan is updated using the results of ongoing facility assessments, specific projects are identified in the long-range master plan.

## Types of Capital Projects

The decision to renovate an existing school involves the following considerations:

- Prioritization of needs based upon the current facility assessment.
- Optimal sequencing to ensure eligibility for state funding.
- Existing electrical, HVAC, roofing, and/or other major mechanical systems needs.
- Educational space needs.
- Health and safety needs.
- Americans with Disability Act (ADA) needs.
- Need to provide improved spaces for general teaching areas and/or supporting areas.

When renovating an older school, there are multiple considerations of how to best balance the existing footprint of the building against requirements defined in newer versions of the educational specifications. Renovation guidelines have been developed to provide a set of standards, guidelines, and procedures for use by HCPSS administrative staff and architectural/engineering firms engaged in the planning and design of renovation work for the school system.

#### **Roofing Projects**

A well-planned roofing program is critical to all other systems in a capital facility. When roofing systems wear, the damage from a failure can impact other systems and multiply costs. HCPSS regularly inspects roofing systems and provides reports to the state of Maryland. Planning and project execution must balance system warranties, state funding eligibility, and the risk of maintenance deferral.

#### Playground Equipment

Elementary school students are stimulated by interesting and engaging playground installations. The playground planning process considers the needs of a wide-range of ages and skills to develop strength, social skills, coordination, balance, and motor planning. Each year various playgrounds are replaced, repaired, or upgraded based upon need.



## Types of Capital Projects

#### Relocatable Classrooms

Relocatable classrooms are pre-fabricated, standalone buildings which provide temporary capacity to a school to relieve overcapacity, provide temporary swing space during renovations/additions, or provide space for a school's program needs. Currently there are 229 modular/relocatable classrooms for Grades K–12 being used by the HCPSS, including several larger modular units of at least five classrooms.

In some cases modular units are integrated into a building's core facility, such as at St. John's Lane Elementary School and Clarksville Middle School. These units are included in building capacity as they are considered permanent additions.

In recent renovations, modular units have been replaced, like Bollman Bridge Elementary School, Deep Run Elementary School, Waverly Elementary School and Patuxent Valley Middle School. The school system conducts reviews of the physical condition and usage of all relocatable/modular units. When units are inspected, the cost of repairs is weighed against the option of retiring the units.

#### Site Acquisition and Construction Reserve

The selection and acquisition of appropriate school sites figures prominently in the development of a capital program. Each proposed school site is carefully evaluated prior to acquisition according to Board-approved selection criteria identified in Policy 6000 Site Selection and Acquisition. Delays in acquisition of suitable school sites may affect the timing of construction of needed schools, resulting in overcrowding situations.

The HCPSS continues to maintain a "land bank" to purchase potential sites or portions of land to augment sites. Larger sites identified in the subdivision review process may be reserved to be budgeted as line items in future capital budgets. This fund is also used as a reserve for unanticipated construction costs.



## Land Bank as of July 1, 2018

The Board maintains ownership and/or the rights to purchase parcels of land for future school sites, commonly known as the "Land Bank." The following schedules detail the current land in the Land Bank.

Owned Sites	Acreage	Location	Date Acquired	Cost
Sunny Spring Drive	10	Sunny Spring Drive	1974	\$ 1
Future Middle School Site	41	2865 Marriottsville Road	2007	\$ 1,700,000
Faulkner Ridge Center	9.01	Marble Faun Lane	1968	\$ 1

The chart below shows land that was designated as school open space property.

Land Designated as School Open Space Property	Acreage	Location
Clary's Forest	10	Little Patuxent Parkway near Bright Passage
Dickinson	20	Sweet Hours Way east of Eden Brook Drive
Huntington	11	Vollmerhausen Road east of Murray Hill Road



## Recent Capital Accomplishments

HCPSS completed impressive projects in the past year, which provided urgently needed capacity and necessary renovations.

#### New Facility and Renovation

#### Hanover Hills Elementary School

The Hanover Hills Elementary School (New ES #42) project was constructed to provide relief to the crowded elementary schools in the northeast region. The school is an adaptation of the original two-story prototype elementary school design, which was designed to accommodate a population of 788 kindergarten through fifth grade students. The environmental sustainability features of the building are anticipated to achieve LEED Gold certification. The building is located adjacent to Thomas Viaduct Middle School within the Oxford Square community which was built as a walkable community with access to public transportation.

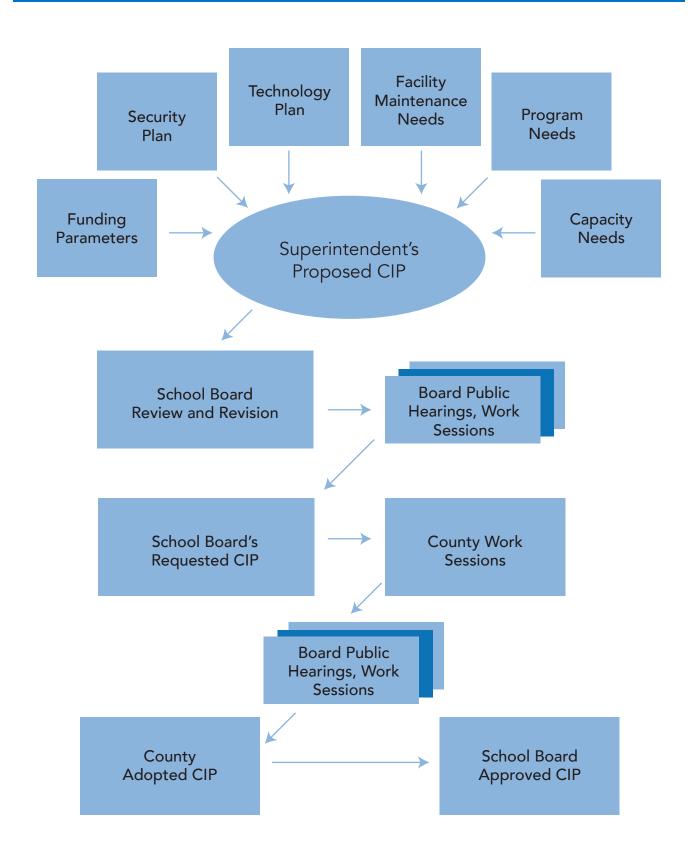


#### Waverly Elementary School

The Waverly Elementary School project renovated the original 1990 single story structure. The project included replacement of the modular classrooms with permanent construction, adding 100 seats of capacity, and conversion of the open space pods into individual classrooms. A larger administration suite was created by relocating the office space to the existing gymnasium adjacent to the front entrance. A new, larger gymnasium was constructed and the cafetorium and the music suite were expanded to increase the capacity of each space. Interior spaces were reconfigured to provide better circulation with improved accessibility and new finishes. The project is anticipated to achieve LEED certification.



## Capital Improvement Program (CIP) Development Process



## Calendar for Development and Review/Approval

## Superintendent's Proposed FY 2020 Capital Budget Capital Improvement Program FY 2021–2025 Long-Range Master Plan FY 2020–2029

Thursday, June 7, 2018 7:30pm - Board Room	Staff presentation of Feasibility Study Report including 2018 enrollment projections.
Thursday, August 23, 2018 7:00pm - Board Room	Board of Education Public Hearing and Pre-Development Work Session.
Monday, September 6, 2018 7:00pm - Board Room	Staff presentation of the Superintendent's Proposed Capital Budget.
Thursday, September 20, 2018 7:00pm - Board Room	Board of Education Public Hearing on Superintendent's Proposed Capital Budget. Work Session and Approval of Superintendent's Proposed Capital Budget following the Public Hearing.
Thursday, October 4, 2018	Board of Education submission of Proposed Capital Budget to Maryland Public School Construction Program.
Thursday, October 4, 2018 7:00pm	Planning Board Public Hearing on Board of Education's Proposed Capital Budget.
Monday, October 29, 2018 7:00pm	County Council approval of Board of Education's Proposed Capital Budget for letter of support to the Interagency Committee on School Construction.
Tuesday, February 12, 2019 4:00pm - Board Room	Board of Education Adoption of the Requested Capital Budget.
Mid-March	Board of Education submission of the Requested Capital Budget to the County Executive and Budget Administrator.
TBD	County Executive Public Hearing on Capital Budget.
TBD	County Executive presentation of the Capital Budget.
Thursday, April 25, 2019 7:00pm - Board Room	Board of Education Public Hearing.
TBD	County Council Public Hearing on the Education portion of the County Executive's Capital Budget.
Tuesday, April 30, 2019 7:00pm - Board Room	Board of Education Work Session (if necessary).
TBD	Staff pre-file of the Adequate Public Facilities Ordinance Open/Closed Chart to County Council.
TBD	County Council Adoption of the Capital Budget.
Thursday, May 30, 2019 9:00am - Board Room	Board of Education Adoption of the Capital Budget
TBD	County Council Adoption of Adequate Public Facilities Ordinance Open/Closed Chart.

TBD (To Be Determined) - Please check Howard County's website for the full schedule: https://www.howardcountymd.gov/



Superintendent's Proposed FY 2020 Capital Budget Capital Improvement Program FY 2021–2025 Long-Range Master Plan FY 2020–2029

Section 2

# System Information

September 2018



## **HCPSS** Facilities at a Glance

The HCPSS maintains well over seven million square feet of school facilities and other buildings in service of delivering the educational program and for use by the community. The school system owns or controls approximately 1,820 acres of land. Approximately seven percent of HCPSS staff are devoted in some way to the maintenance of facilities.



#### **HCPSS Facilities**

#### 77 Schools

42 Elementary Schools

20 Middle Schools

12 High Schools

3 Special Schools

#### **Ancillary Facilities**

Ascend One

Central Office

Amberton Drive (Leased Storage)

Dorsey Building (Shared Space)

Faulkner Ridge (Vacant)

Mendenhall Court (Leased Offices and Shops)

Ridge Road Center (Shops)

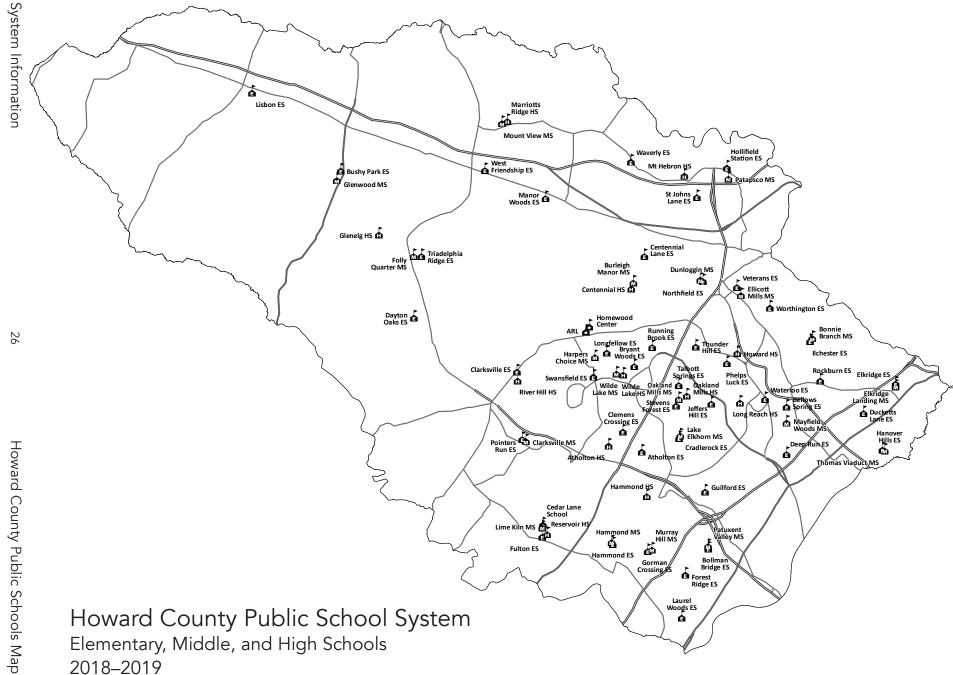
Old Bushy Park (Storage)

Old Cedar Lane (Offices)

Average Age	of Facilities	
Elementary	Middle	High
36 years	30 years	38 years

Enrollment*	
Total Enrollment (Pre-K-12)	56,799
Elementary (Pre-K-5)	26,326
Middle (6–8)	13,197
High (9–12)	17,276
Special Schools	99

<sup>\*</sup> Official September 30, 2017 Enrollment Report.



Superintendent's Proposed FY 2020 Capital Budget Capital Improvement Program FY 2021–2025 Long-Range Master Plan FY 2020–2029

Section 3

# **Project Detail**

September 2018

## Talbott Springs Elementary School Replacement: Project 1043

9550 Basket Ring Road, Columbia, MD 21045 http://tses.hcpss.org/



Nancy Thompson, Principal 410.313.6915

Building Data	
Year Built	1973
Age	45
Site Area (acres)	10
Last Renovation/Addition	2008
Current Relocatables	10
Current Capacity	377
9/2017 Enrollment	457
Projections/Capacity Utiliza	ation
Projections/Capacity Utiliza	ation 458
2018 Projection	458
2018 Projection Projected Utilization	458 122%
2018 Projection Projected Utilization 2022 Projection	458 122% 463
2018 Projection Projected Utilization 2022 Projection Projected Utilization	458 122% 463 123%

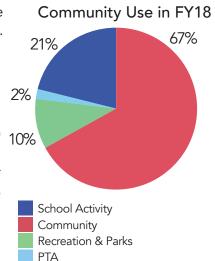
#### **Project Purpose**

The Talbott Springs Elementary School project will replace an aging elementary school with a modern facility. Talbott Springs Elementary School opened in 1973 and was renovated in 2000. The art room and gymnasium were expanded in 2000 and all day kindergarten was added in 2008. In April 2009, HCPSS engaged Gilbert Architects Inc. to conduct a facility assessment of elementary schools. The report concluded that Talbott Springs Elementary School had 18.7 percent deficiency of educational program area of the 40 elementary schools operating at that time. In the FY 2020 Capital Budget, the total project cost estimated is \$41.6 million. Talbott Springs Elementary School is expected to achieve USGBC LEED Silver Certification. The complete scope of this project will be defined by the BOE approved construction documents

(CD) brochure (see Policy 6020 in the Supporting Data Section for a complete description of the process) and any change orders approved subsequent to submittal of the CD brochure.

## Community Use at Talbott Springs ES

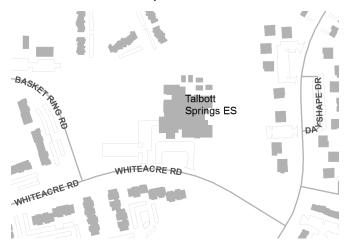
Talbott Springs Elementary School hosted an estimated 45,000 10% attendees for nearly 1,000 reservations after school hours and on weekends for a variety of events. The majority of the events were after school activities and community events and remaining reservations were athletic and PTA events.



The planned scope of work includes a replacement facility to provide students with a new modern energy efficient building with programmatic and physical upgrades as well as new mechanical, electrical and technology systems in compliance with the HCPSS General Educational Specifications for New Elementary Schools. This project calls for an expansion of the educational program spaces, including additional programmatic space needed for Title I services.



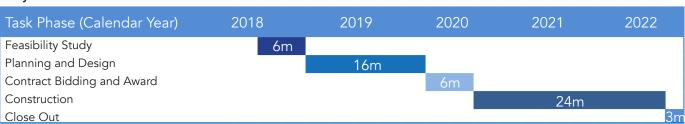
#### School Location Map



This project received \$8.1 million (including the TAO) in funds in FY 2018 and FY 2019. Construction funds are to be requested in FY 2020 through FY 2022 to complete work and have the school ready by September 2022.

Details of the budget request for this project can be found on the Capital Budget Request pages in Section 1 (Executive Summary) and the Project Cost Details pages in Section 3 (Project Detail).

## **Project Timeline**



The above chart shows the calendar year timeline for planning and construction for this project (in months). The Talbott Springs ES project is scheduled for completion in September of 2022.

# New HS #13: Project 1035

Mission Road, Jessup MD



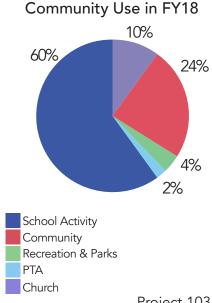
Architect rendering of Marriotts Ridge High School courtesy of TCA Architects.

## **Project Purpose**

New HS #13 will be a new facility. Based upon enrollment projections, at least one additional high school is needed to accommodate growth. Balanced capacity utilization in the northeast region alone would require 1,300 additional seats by 2023. This capital budget recommends completion of New HS #13 in 2023. Planning was initiated in FY 2019. The complete scope of this project would be defined by the BOE approved construction documents (CD) brochure (see Policy 6020 in the Supporting Data Section for a complete description of the process) and any change orders approved subsequent to submittal of the CD brochure.

## Community Use at New HS #13

Community use is anticipated in the planning for this new facility. As a comparison, Wilde Lake High School hosted an estimated 1,108,000 attendees for over 6,000 reservations after school hours and on weekends for a variety of events. The majority of the events were community and school related and athletic events, and the remaining reservations were Recreation and Parks, church events, and PTA meetings.



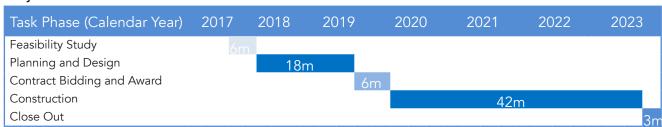
New HS #13 30 Project 1035



Planning for New HS #13 occurred during FY 2019. Based upon this timeline, the Board will request construction funding for this project in FY 2020 through FY 2024 to complete work and have the school ready for occupancy by September 2023.

Details of the budget request for this project can be found on the Capital Budget Request pages in Section 1 (Executive Summary) and the Project Cost Details pages in Section 3 (Project Detail).

#### **Project Timeline**



The above chart shows the calendar year timeline for planning and construction for this project (in months). The New HS #13 project is scheduled for completion in September of 2023.

# Hammond High School Renovation/Addition: Project 1024

8800 Guilford Road, Columbia, MD 21046 http://hahs.hcpss.org/



John DiPaula, Principal 410.313.7615

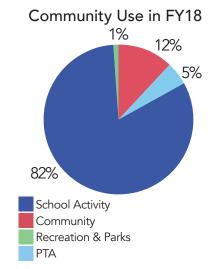
Building Data	
Year Built	1976
Age	42
Site Area (acres)	33.14
Last Renovation/Addition	2011
Current Relocatables	4
Current Capacity	1,220
9/2017 Enrollment	1,311
772017 Enrollment	1,511
Projections/Capacity Utiliz	·
	·
Projections/Capacity Utiliz	ation
Projections/Capacity Utiliz 2018 Projection	ation 1,356
Projections/Capacity Utiliz 2018 Projection Projected Utilization	ation 1,356 111%
Projections/Capacity Utilization  Projected Utilization  2023 Projection	1,356 111% 1,585

### **Project Purpose**

The Hammond High School project will renovate and expand the existing school. Hammond High School is a one-story building that first opened in 1976 and underwent some renovation and addition work in 1997, followed by a dance studio addition in 2011. The present need is a complete renovation of the school with systemic upgrades to bring it into compliance with the Howard County Public School Systems Guidelines Manual for Renovations and Modernizations of Existing Schools. An addition of 200 seats of new capacity is planned for this project. The complete scope of this project is defined by the BOE approved construction documents (CD) brochure (see Policy 6020 in the Supporting Data Section for a complete description of the process) and any change orders approved subsequent to submittal of the CD brochure.

# Community Use at Hammond High School

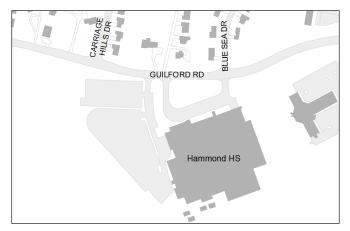
An attendance of 348,000 was estimated for over 4,400 reservations at Hammond High School for events outside of school hours. Most after school activities at any high school are school-related including after school programming, athletic activities, educational activities and performing arts.



The project will consist of a complete systemic renovation and addition of the school that will replace the aging heating and cooling systems, upgrade the plumbing and electrical systems, supply new data technology and security systems, provide new interior finishes throughout the building, create ADA accessibility compliance throughout, repartition select areas of the school, and construct building additions as necessary to fulfill program deficiencies. It is also the intent to concentrate on energy efficient systems.



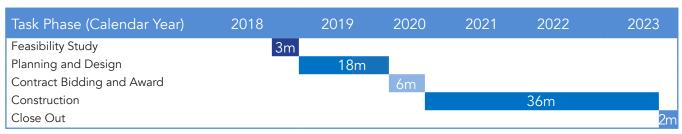
#### School Location Map



The first year of funding for Hammond High School was in FY 2019. Based upon the current plan, the Board will request construction funding for this program in FY 2020 through FY 2024 totaling \$99 million to complete work and have the school ready by September 2023.

Details of the budget request for this project can be found on the Capital Budget Request pages in Section 1 (Executive Summary) and the Project Cost Details pages in Section 3 (Project Detail).

**Project Timeline** 



The above chart shows the calendar year timeline for planning and construction for this project (in months). The Hammond High School Addition/Renovation project is scheduled for opening in September of 2023.

# Dunloggin Middle School Renovation/Addition: Project 1049

9129 Northfield Road Ellicott City, MD 21042 http://dms.hcpss.org/



**Project Purpose** 

The Dunloggin Middle School project will expand educational program spaces with 97 seats of new capacity and renovate the existing facility. Dunloggin Middle School opened in 1973 and was renovated in

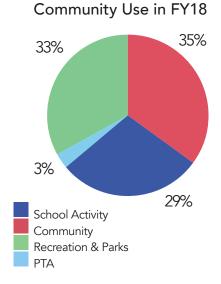
Antionette Roberson, Principal 410.313.2839

Building Data	
Year Built	1973
Age	45
Site Area (acres)	20
Last Renovation/Addition	1999
Current Relocatables	5
Current Capacity	565
9/2017 Enrollment	631
Projections/Capacity Utiliza	ation
2018 Projection	639
Projected Utilization	113%
2024 Projection	658
Projected Utilization	117%
Post-Project Cap.	662
Projected Utilization	99%

1999. In August 2008, HCPSS engaged Gilbert Architects, Inc. to conduct a facility assessment of middle schools. The report concluded that Dunloggin Middle School has a 13.8 percent deficiency of educational program area of the 19 middle schools operating at that time. In the FY 2019 Capital Budget, the total project cost estimate is \$38.9 million. Dunloggin Middle School will be another USGBC LEED Certified school facility for Howard County. The complete scope of this project is defined by the BOE approved construction documents (CD) brochure (see Policy 6020 in the Supporting Data Section for a complete description of the process) and any change orders approved subsequent to submittal of the CD brochure.

# Community Use at Dunloggin Middle School

Over 1,900 reservations brought community members and students into Dunloggin Middle School after school hours and on weekends for a variety of community and student programs, meetings, activities, and events. An attendance of 104,000 was estimated for these activities. Community activities accounted for the largest portion of the facility use. Other uses, which include school activities, PTA events and Recreation and Parks programs, make up the remaining reservations.



This project calls for an expansion of the educational program spaces and renovation of the existing facility. The renovation will include a complete systemic renovation of the existing building including new electrical, mechanical, plumbing, technology, roofing and life safety systems. The project will provide 97 seats of additional classroom space and core infrastructure space necessary to operate effectively at the larger capacity. Interior spaces will be reconfigured, new finishes provided, accessibility improve, and new spaces added as required bringing the facility into compliance with renovation specifications.

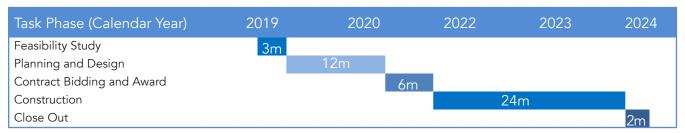
#### School Location Map



FY 2021 is the first year of funding for Dunloggin Middle School. In previous budgets it was listed as a systemic renovation. The requested funding in FY 2021 will allow planning and design to begin. Construction will start in FY 2022. Based upon the current plan, the Board will request a final \$5 million in FY 2025 to complete work for the school to open in September 2024.

Details of the budget request for this project can be found on the Capital Budget Request pages in Section 1 (Executive Summary) and the Project Cost Details pages in Section 3 (Project Detail).

#### **Project Timeline**



The above chart shows the calendar year timeline for planning and construction for this project (in months). The Dunloggin Middle School Renovation/Addition project is scheduled for completion in September of 2024.

# Ellicott Mills Middle School Addition: Project 1037

4445 Montgomery Road, Ellicott City, MD 21043 http://emms.hcpss.org/



**Project Purpose** 

The Ellicott Mills Middle School project will add 156 seats of new capacity to the existing school. Ellicott Mills Middle School was originally built in 1939. The replacement school,

410.313.2839 Iding Data

Christopher Rattay, Principal

Building Data	
Year Built	1939
Age	78
Site Area (acres)	16.22
Last Renovation/Addition	2001
Current Relocatables	7
Current Capacity	701
9/2017 Enrollment	853
Projections/Capacity Utiliza	ation
2018 Projection	883
Projected Utilization	126%
2023 Projection	844
Projected Utilization	120%
Post-Project Cap.	857
Projected Utilization	98%

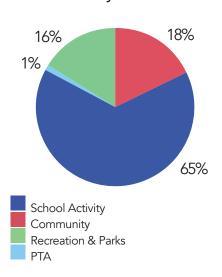
which opened in 2001, was the third iteration of the current middle school prototype. Since 2015, the projections support the approved middle school capacity adjustments and the effort invested in redistricting. All middle schools in the northeast were relieved of overcrowding by the opening of Thomas Viaduct Middle School, except Ellicott Mills Middle School. Redistricting scenarios using western capacity failed to resolve crowding and created unacceptable travel distances and unusually elongated attending areas. With these findings, planned expansion of Ellicott Mills Middle School was contemplated as early as 2015. This project is a next logical step after study of middle school capacity and analysis of redistricting scenarios.

The complete scope of this project is defined by the BOE approved construction documents (CD) brochure (see Policy 6020 in the Supporting Data Section for a complete description of the process) and any change orders approved subsequent to submittal of the CD brochure.

#### Community Use at Ellicott Mills Middle School

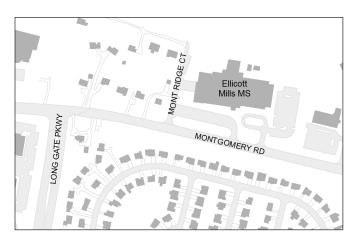
Over 3,000 reservations brought community members and students into Ellicott Mills Middle School after school hours and on weekends for a variety of community and student programs, meetings, activities, and events. An attendance of 146,000 was estimated for these activities. Athletic events and school activities accounted for the largest portion of the facility use. Other uses, which include PTA events and performing arts, make up the remaining reservations.

## Community Use in FY18



This project will include an addition and limited renovation to ensure seamless operation of the expanded facility. The majority of existing walls will remain; therefore, most existing classrooms will remain as classrooms. The addition will be designed to retain the use of natural daylight. The cafetorium will be enlarged to meet educational program requirements.

#### School Location Map





FY 2022 will be the first year of funding for Ellicott Mills Middle School. During FY 2022, the first year of planning will be implemented. Based upon the current plan, the Board will request construction funding for this program in FY 2023 to complete work and have the school ready by September 2023.

Details of the budget request for this project can be found on the Capital Budget Request pages in Section 1 (Executive Summary) and the Project Cost Details pages in Section 3 (Project Detail).

#### **Project Timeline**



The above chart shows the calendar year timeline for planning and construction for this project (in months). The Ellicott Mills Middle School Addition project is scheduled for completion in September of 2023.

# Oakland Mills Middle School Renovation: Project 1036

9540 Kilimanjaro Road, Columbia, MD 21045 http://omms.hcpss.org/



Megan Chrobak, Principal 410.313.6937

Building Data	
Year Built	1972
Age	46
Site Area (acres)	20
Last Renovation/Addition	1998
Current Relocatables	0
Current Capacity	506
9/2017 Enrollment	472
Projections/Capacity Utiliza	ation
2018 Projection	507
Projected Utilization	100%
2026 Projection	524
Projected Utilization	104%

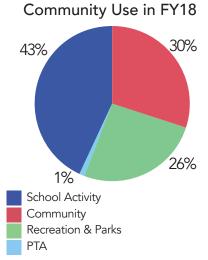
#### **Project Purpose**

The Oakland Mills Middle School project will renovate the existing facility. Oakland Mills Middle School opened in 1972 and was renovated in 1998. In August 2008, HCPSS engaged Gilbert Architects Inc. to conduct a facility assessment of middle schools. This project evaluated and scored each school according to the Council of Educational Facilities Planners, International (CEFPI) appraisal guidelines. The assessment included reviewing each school's plan layouts and measurements of spaces to compare to the educational specifications developed by HCPSS for middle schools. The report concluded that Oakland Mills Middle School had 8.8 percent deficiency of educational program area of the 19 middle schools operating at that time. In the FY 2016 Capital Budget the cost for the limited renovation was estimated at \$16.3 million. In the FY 2019 Capital Budget the complete renovation cost estimate is \$36 million. The complete scope of

this project is defined by the BOE approved construction documents (CD) brochure (see Policy 6020 in the Supporting Data Section for a complete description of the process) and any change orders approved subsequent to submittal of the CD brochure.

## Community Use at Oakland Mills Middle School

Community members and students spent over 6,500 hours at Oakland Mills Middle School after school hours and on weekends for a variety of community and student programs, meetings, activities, and events. An attendance of 78,000 was estimated for these activities. After school activities accounted for much of the facility use. Athletic activities and child care are included in the remaining reservations.

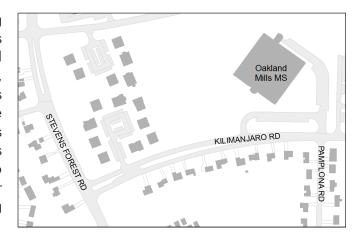


The project calls for a renovation of the existing building in accordance with recommendations from the feasibility study. Renovation will include new electrical, mechanical, plumbing, technology, roofing, and life safety systems as applicable per the scope of work. Some Interior spaces will be reconfigured, new finishes provided, accessibility improved, and new spaces added as required, bringing the facility into compliance with the HCPSS Guidance Manual for Renovations and Modernizations of Existing Schools.





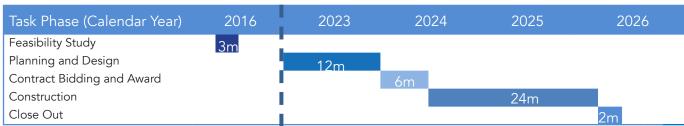
#### School Location Map



This project received planning funds through the systemic line in FY 2015. Construction funds will be requested in FY 2025 through FY 2027. This funding schedule will allow construction to progress on schedule and work to be completed by September 2026.

Details of the budget request for this project can be found on the Capital Budget Request pages in Section 1 (Executive Summary) and the Project Cost Details pages in Section 3 (Project Detail).

## **Project Timeline**



The above chart shows the calendar year timeline for planning and construction for this project (in months). The Oakland Mills Middle School Renovation project is scheduled for completion in September of 2026.

# MS/HS Career Development Center: Project 1051

10920 Clarksville Pike (Route 108), Ellicott City, MD 21042 http://arl.hcpss.org/

Karl Schindler, Principal 410.313.6998



#### **Project Purpose**

The MS/HS Career Development Center project will replace the aging Applications and Research Lab (ARL) school with a larger, more modern facility to facilitate the expansion of educational spaces to meet the growing curriculum. The current ARL campus includes multiple buildings constructed in various phases. The complete scope of this project would be defined by the BOE approved construction documents (CD) brochure (see Policy 6020 in the Supporting Data Section for a complete description of the process) and any change orders approved subsequent to submittal of the CD brochure.

#### **Applications and Research Lab - Current Programs**

- Academy of Finance
- Academy of Health Professions
- Aerospace Engineering: Project Lead the Way Academy
- Agricultural Science GT
- Architectural Design Academy
- Automotive Technology Academy
- Biotechnology Academy
- Construction Technology
- CyberSecurity Networking Academy
- Early College Program-CyberSecurity
- Heating, Ventilation, and Air Conditioning
- Homeland Security and Emergency Management
- Hotel and Restaurant Management Academy
- Systems and Project Engineering Academy
- Visual Communications Academy

Building Data	
Year Built	1968
Age	50
Site Area (shared acres)	45.48
Last Renovation/Addition	1998
Current Relocatables	0

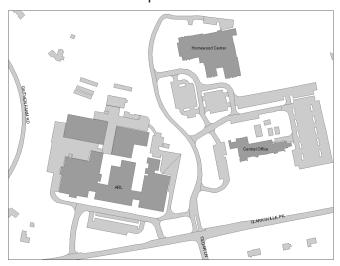


The current Applications and Research Laboratory (ARL) is the Career and Technology High School. The program offers students an opportunity to meet and work with professionals from career fields while building an academic foundation and skill base to be college and career ready. Business partnerships and advisory boards are pivotal in the success of these programs. Students from all 12 high schools and Homewood are able to enroll in programs at the ARL. Students use industry standard software and technology through project-based instruction. Students have the opportunity to earn industry certifications and college credits while attending the ARL, preparing them for success in college and careers.

A feasibility study is planned to determine the curricular and facility needs of the replacement building. LEED certification will be studied.



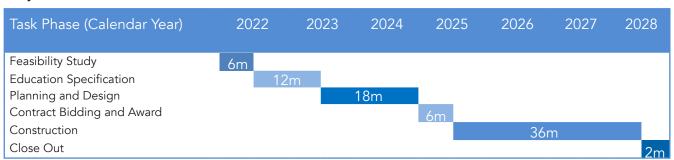
#### School Location Map



The first year of funding for the MS/HS Career Development Center project will be in FY 2024. The requested sum of \$8 million will allow planning and design to begin. During FY 2025, construction will be started and based upon the current plan the school will open in September 2028.

Details of the budget request for this project can be found on the Capital Budget Request pages in Section 1 (Executive Summary) and the Project Cost Details pages in Section 3 (Project Detail).

#### **Project Timeline**



The above chart shows the calendar year timeline for planning and construction for this project (in months). The MS/HS Career Development Center project is scheduled for completion in September of 2028.

# Long-Range Plan Adjustments: New Schools (Grades K-12)

Sites to be determined.



## Responding to the 2018 Feasibility Study

Planning and zoning changes require adjustments to the CIP. While the HCPSS is peripheral to land development discussions, land planning decisions impact school system capital improvement plans. Staff continues to work closely with the Departments of Planning and Zoning and Public Works to ensure that schools are central to new development. The annual feasibility study analyzes these trends and proposes adjustments to the CIP.

The projections indicate that the FY 2020–2029 long-range plan requires three new elementary schools. ES #43, ES #44 and ES #45 were introduced in previous capital budget requests.

## **Elementary School Needs**

Elementary enrollment is projected to increase by 2,300 students by 2024 and the capacity utilization of all elementary schools combined will begin to exceed 110 percent by 2026. This suggests more elementary capacity is needed in the long-range capital improvement plan. The three areas which will experience the greatest growth over the next five to ten years will be the Route 1 Corridor, Columbia Town Center, and Turf Valley.

#### ES #43 - Southeastern ES - 1039

The continued growth along the Route 1 Corridor continues to support the need for additional seats between the Northeastern and Southeastern regions. The needs of the southeast region are evident in the projections of Bollman Bridge Elementary School, Gorman Crossing Elementary School, Forest Ridge Elementary School and Fulton Elementary School. The location of ES #43 is on Mission Road.



Artist rendering of the redevelopment of the Columbia Town Center. The Columbia Town Center report anticipated future needs as a result of this project.

#### ES #44 – Turf Valley ES – 1040

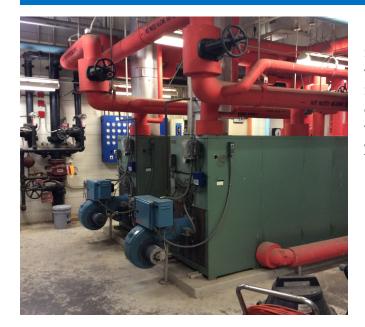
Projections continue to support the need for elementary redistricting to relieve overcrowding at Manor Woods Elementary School associated with Turf Valley growth. The addition at Waverly Elementary School will absorb some growth. Considering the limited potential for expanding schools outside of the sewer service area, a Turf Valley school is planned. The Howard County Executive's Office is currently assisting HCPSS in securing land for the land bank.

#### ES #45 - Columbia West ES - 1041

Running Brook Elementary School is expected to exceed 110 percent utilization by 2021. A redistricting strategy alone, which uses nearby schools like Clarksville Elementary School, will not provide an adequate solution to accommodate the projected growth. Faulkner Ridge Center was closed on July 1, 2011. This site is a likely location for redevelopment as a future school.

Details of the budget requests for these projects can be found on the Capital Budget Request pages in Section 1 (Executive Summary) and the Project Cost Details pages in Section 3 (Project Detail).

# Systemic Renovations: Project 1044



**Project Purpose** 

The Systemic Renovations project includes projects that are needed to bring older facilities up to current standards in lighting, electrical, HVAC systems, reconfiguring space, handicap accessible improvements, and provide for upgrades to other building systems. For larger systemic renovation projects (see schools listed in project details section), the complete scope of projects are defined by the BOE approved construction documents (CD) brochure (see Policy 6020 in the Supporting Data Section for a complete description of the process) and any change orders approved subsequent to submittal of the CD brochure.

# **FY 2020 Request Analysis**

Project Funding (July 1, 2018 - June 30, 2019)	\$ 25,455,000
Project Cost-to-Date (through June 30, 2018)	-
FY 2019 Projected Costs	(25,455,000)
Available Project Funding (July 1, 2019)	\$ -

Requested Budget FY 2020

School Facilities is charged with maintaining the facilities of the Howard County Public School System (HCPSS) in as near original condition and effectiveness as possible. Actual costs incurred in the Systemic Renovations Project over the past five years is below.

Systemic Renovations Actual Expenses			
Fiscal Year	Δ	ctual Expense	
FY 2014	\$	15,593,468	
FY 2015	\$	11,565,498	
FY 2016	\$	10,920,834	
FY 2017	\$	7,872,598	
FY 2018	\$	5,543,132	



37,060,000

projects Systemic renovation include improvements and installation of systems at various school sites, including projects of a critical nature such as sprinkler repair, HVAC repair, and window replacement. The Facilities Department publishes an annual Comprehensive Maintenance Plan which reflects the objectives and methods utilized to provide a safe and secure learning environment for Howard County's school community as required by the Public School Construction Program's Administrative Procedures Guide. This document has been consulted in the development of this budget for potential systemic projects.

The FY 2020 Capital Budget request represents renovation work or planning for future construction at the following school system facilities:

Modification of FY 2019 HVAC Project Scopes
Long Reach HS - Building Envelope
Applications Research Lab Maintenance
Room Reconfigurations and Modernizations
Forest Ridge ES Office Reconfiguration
Guilford ES Exterior Windows/Doors
Ascend One Relocation/Renovations
West Friendship ES MBR/Well
Fulton ES HVAC Replacement
Cradlerock ES/Lake Elkhorn MS Boiler Replacemt.
Dump Trucks for Grounds Services (2)

#### Kitchen Modernizations

Kitchen modernization projects will be implemented in schools system-wide, as ongoing critical infrastructure assessments are conducted and needs are identified. Existing infrastructure in many kitchens is obsolete and unreliable. The cost to mitigate these risks exceeds the asset life cycle replacement cost of the infrastructure.



### Special Education/Regional Program Needs

The placement of new or the relocation of existing Special Education and regional programs is based on student needs and school capacity. Each program requires specific space configuration and education specifications.

#### Indoor Environmental Quality Project Repairs

Staff have implemented measures to reduce negative environmental impacts on schools over the last two years with this important funding source. Projects include maintenance of building envelopes, resolution of foundation issues, fixing settlement cracks, managing humidity related conditions and remediating flood damages.

#### **School Security Measures**

Additional physical security enhancement projects will be implemented in schools as ongoing critical infrastructure security assessments are conducted and needs are identified.

#### **Emergency Reserve**

The emergency reserve funding assists with projects that are not eligible for capital project consideration, those that have exceeded their operational life, premature failures and unexpected weather related damages.

# Roofing Projects: Project 1046



School Facilities oversees the Roofing Projects and provides maintenance and repairs for all HCPSS facilities. Actual costs incurred in Roofing Projects over the past five years is below.

Roofing Projects Actual Expenses			
Fiscal Year	Actual Expense		
FY 2014	\$	5,468,035	
FY 2015	\$	3,400,190	
FY 2016	\$	2,220,940	
FY 2017	\$	4,830,760	
FY 2018	\$	1,800,046	

# **Project Purpose**

Roofing Projects will address aging roofs on various Howard County Public School System schools. A well-planned roofing program is critical to all other systems in a capital facility. When roofing systems wear, the damage can impact other systems and multiply costs. Roof planning is more than shingles and asphalt. Modern roofing systems are complex investments built to exact specifications and code requirements. The HCPSS inspects each facilities' roof twice a year and provides the reports to the State of Maryland. Planning and project execution must balance system warranties, state funding eligibility, and the risk of maintenance deferral.



## **FY 2020 Request Analysis**

1 1 2020 Request Allalysis		
Project Funding (July 1, 2018 - June 30, 2019)	\$	12,500,000
Project Cost-to-Date (through June 30, 2018)		-
FY 2019 Projected Costs		(12,500,000)
Available Project Funding (July 1, 2019)	\$	-
Requested Budget EV 2020	¢	5 000 000



The roof system is the largest area of the building that endures the most severe weather conditions. The roof protects the structural integrity of the building, equipment and its systems. Because of building age and environmental conditions, scheduled roof replacements must be completed to protect the investments that have been made in many facilities.

Roofing Projects include the design and construction of repairs to existing roof systems, the removal of old roof systems, and installation of new roof systems to include insulation membrane and flashings, sheet metal, drainage systems, and other associated components.

HCPSS is requesting funding for roof replacement projects in FY 2020. In continued collaboration with the Office of School Construction, roofing Projects will be considered in conjunction with systemic renovations, when feasible.

The Facilities Department is in the process of reviewing significant additional costs and impacts related to the roof replacement projects, such as high ceiling cleaning of debris and fireproofing, budgeting for the 2015 IBC/IECC code for R-30 insulation, exterior sealants may be considered to be included, etc. Facilities will conservatively budget for these items but will have to revisit the schools to determine the final scope for budgeting purposes. These newer items will require additional thought regarding roof budgeting and, more importantly, their impact on the project and schedule, which includes phasing.



# Playground Equipment: Project 0990



## Project Purpose

The Playground Equipment project will replace aging playgrounds at a variety of Howard County Public School System schools. This fund maintains a cycle of playground replacements. While playgrounds seem to be a standard installment at any elementary school, playgrounds can vary widely in design and are not specifically required by state or local codes or policies. Recess and unstructured play is a standard of Policy 9090 Health and Wellness. Research supports a link between learning and unstructured play. Elementary school students are stimulated by interesting and engaging playgrounds. The playground planning process considers the needs of a wide-range of ages and skills to develop strength, social skills, coordination, balance, and motor planning.

48

FY 2020 Request Analysis		
Project Funding (July 1, 2018 - June 30, 2019)	\$	2,930,000
Project Cost-to-Date (through June 30, 2018)		(2,481,688)
FY 2019 Projected Costs		(448,312)
Available Project Funding (July 1, 2019)	\$	-
Requested Budget FY 2020	\$	250,000

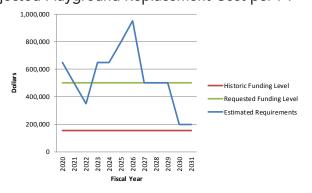
School Facilities oversees the Playground Equipment Project, managing safety requirements and a long-term replacement plan for all HCPSS playgrounds. Actual costs incurred in the Playground Equipment Project over the past five years is below.

Playgrounds Actual Expenses			
Fiscal Year Actual Expense			
FY 2014	\$	8,506	
FY 2015	\$	503,412	
FY 2016	\$	85,058	
FY 2017	\$	-	
FY 2018	\$	160,118	



Playground replacement is planned every 15 years. In the interim, they are maintained and repaired using operating funds. This schedule delivers new designs and safety improvements in a reasonable period without requiring a much larger share of the capital budget. \$250,000 is adequate to replace both the kindergarten playground and grade 1-5 playground at an elementary school. In future years, more than two playground replacements are needed per year. Decisions about installing specific equipment are school based and require individual contracts. Better pricing may be possible through package bidding. Playground equipment at newly built schools is included in the funding request for the individual capital improvement project.





Long-Term Plan	
Playground Site	Fiscal Year
Worthington Elementary School	FY 2019
Northfield Elementary School	FY 2020
Bryant Woods Elementary School	FY 2020
Guilford Elementary School	FY 2020
Clarksville Elementary School	FY 2021
Triadelphia Ridge Elementary School	FY 2021
Bellows Spring Elementary School	FY 2022
Gorman Crossing Elementary School	FY 2023
Rockburn Elementary School	FY 2023
Thunder Hill Elementary School	FY 2023
Centennial Lane Elementary School	FY 2024
Lisbon Elementary School	FY 2024
St John's Lane Elementary School	FY 2024
Atholton Elementary School	FY 2025
Cedar Lane School at Lime Kiln	FY 2025
Dayton Oaks Elementary School	FY 2025
West Friendship Elementary School	FY 2025
Bollman Bridge Elementary School	FY 2026
Bushy Park Elementary School	FY 2026
Cradlerock Elementary School	FY 2026
Fulton Elementary School	FY 2026
Phelps Luck Elementary School	FY 2026
Ilchester Elementary School	FY 2027
Veterans Elementary School	FY 2027
Clemens Crossing Elementary School	FY 2028
Waterloo Elementary School	FY 2028
Ducketts Lane Elementary School	FY 2030
Stevens Forest Elementary School	FY 2030



The chart seen to the left shows the estimated funding requirements based upon the long-term plan listed above. Advancing or delaying some projects may help to smooth the funding profile but the graph shows that present funding levels will not be sufficient with future requirements. Risk management and purchasing staff are exploring different bidding methods with standard design options, which may save on design costs.

# Relocatable Classrooms: Project 1045



## **Project Purpose**

The Relocatable Classrooms project provides funds for the relocation and repairs of existing relocatable classrooms or purchase of new portable classrooms to be placed at schools in need of additional capacity. Relocation includes moving the structures as well as the installation of support services that make the portable structures functional classrooms. Additional classroom spaces are needed to help relieve overcapacity schools until permanent classroom spaces are available.

FY 2020 Request Analysis									
Project Funding (July 1, 2018 - June 30, 2019)	\$	1,800,000							
Project Cost-to-Date (through June 30, 2018)		-							
FY 2019 Projected Costs		(1,800,000)							
Available Project Funding (July 1, 2019)	\$	-							
Requested Budget FY 2020	\$	3,200,000							

Relocatable Classrooms Actual Expenses									
Fiscal Year									
FY 2014	\$	1,117,572							
FY 2015	\$	1,613,098							
FY 2016	\$	1,322,547							
FY 2017	\$	661,112							
FY 2018	\$	1,888,241							

The School Planning Office evaluates relocatable classroom needs annually in a report to the Board of Education. After a decision is made, School Construction oversees the placing and connecting of all HCPSS relocatables. Actual costs incurred in the Relocatable Classrooms project over the past five years is shown above.



In some cases modular units are integrated into a building's core facility. These units are in use at St. John's Lane Elementary School and Clarksville Middle School. These units are included in building capacity because they are considered permanent additions. In recent renovations at Bollman Bridge Elementary School, Deep Run Elementary School and Patuxent Valley Middle School, modular units were replaced.

The school system conducts regular reviews of the physical condition and usage of all relocatable/modular units. When units are inspected, the cost of repairs is weighed against the option of

retiring the units. Cycling out, and even reducing the inventory, can create operating economies. However, any dramatic reduction of inventory would require a considerable investment in brick and mortar construction.

In September 2018, there were 229 relocatable/ modular classrooms in use (four are used for administrative purposes at the Central Office, all others are at school sites). The school system continues to conduct regular reviews of all relocatables which will include condition and usage. The potential to either remove relocatables out-of-service, transport them to other locations where needed, or place them in excess to dispose of in an appropriate manner will be decided annually.



# Site Acquisition and Construction Reserve: Project 1047



## **Project Purpose**

The Site Acquisition and Construction Reserve project is needed as a contingency reserve providing funds for use on an as-needed basis. Site funds are needed for future enrollment growth. This account is also a contingency fund for school construction at various school sites. The county government is currently negotiating the purchase of two future school sites that will be purchased directly by the county.



The School Construction Office oversees the Site Acquisition and Construction Reserve Project. Actual costs incurred in the Site Acquisition and Construction Reserve Project over the past five years is below.

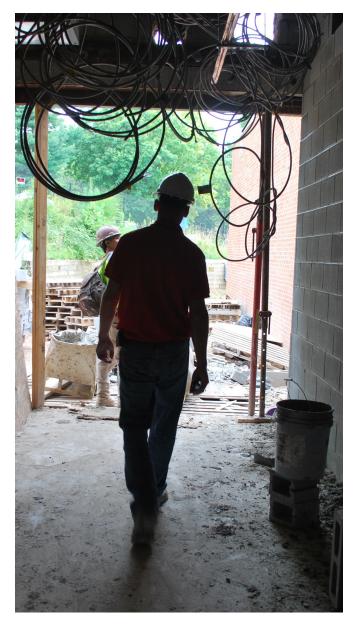
Site Acquisition/Construction Reserve Actual Expenses								
Fiscal Year Actual Expense								
FY 2014	\$	4,258,073						
FY 2015	\$	22,850						
FY 2016	\$	3,704						
FY 2017	\$	607,123						
FY 2018	\$	1,103,937						

This fund is for site acquisition. The selection and acquisition of appropriate school sites is integral to the development of a capital program. Each proposed school site is carefully evaluated prior to acquisition according to Board-approved selection criteria identified in Policy 6000 Site Selection and Acquisition.

Delays in acquisition of suitable school sites may affect the timing of construction of needed schools. This can result in extended periods of overcrowding situations. In an effort to reduce such delays, the HCPSS continues to maintain a "land bank" that will be called upon to pursue the purchase of potential sites or portions of land to augment sites.

Larger sites identified in the subdivision review process may be reserved to be budgeted as line items in future capital budgets. The state of Maryland regulates but does not pay the costs for site acquisitions; therefore, funds for the purchase of school sites are provided locally by the Howard County Government.

This fund also serves as a construction reserve. Capital planning has been fairly accurate and overruns have been minimal so the actual use of the majority of this fund has been to acquire land. In the past, initial pre-planning expenses have been charged to this account, but the FY 2016 Capital Budget introduced pre-planning as a separate project request.



# Technology: Project 1048



The Information Technology Department oversees the Technology project. The Howard County Board of Education, at its July 12, 2018 meeting, approved a fundamental shift in the way that technology is purchased and maintained across the district. The Strategic Technology Plan introduced the standard classroom infrastructure package for teachers and students that maximizes the use of technology in supporting instruction and digital literacy as well as optimizing and strengthening the district's enterprise infrastructure and improving our enterprise application function and service. Actual costs incurred in the Technology Project over the past five years is below.

Technology Actual Expenses									
Fiscal Year Actual Expense									
FY 2014	\$	3,606,457							
FY 2015	\$	5,226,710							
FY 2016	\$	5,559,784							
FY 2017	\$	458,965							
FY 2018	\$	6,109,668							

#### **Project Purpose**

Students and staff need access to functional computers for instruction. Limited numbers of functional devices and extended login times on aging devices discourages the use of technology during class time. This situation also causes assessment windows to increase, and encroaches into time designated for teaching and learning.

FY 2020 Request Analysis									
Project Funding (July 1, 2018 - June 30, 2019)	\$	2,750,000							
Project Cost-to-Date (through June 30, 2018)		-							
FY 2019 Projected Costs		(2,750,000)							
Available Project Funding (July 1, 2019)	\$	-							
Requested Budget FY 2020	\$	5,500,000							



This standard classroom infrastructure package is essential for providing equitable instructional opportunities that assists teachers as they provide students opportunities to master technology literacy standards and gain college and career ready skills and knowledge. The package includes the following:

- Student Device Google Chromebook
- Staff Device- Windows platform
- AV Device- Short-throw wall mounted projector with TV tuner
- Document Camera



With standardized technology readily available, teachers will be able to facilitate engaging lessons using the same devices across all content areas.

#### Rollout of the Standard Infrastructure Package

Given the current state of technology in the Howard County Public School System (HCPSS), the implementation of this plan requires an incremental approach. The priorities for year two (FY 2020) include increasing equity and student access by continuing to purchase low cost student devices and AV devices.

	FY 2020	
AV Devices	Student	Staff
14 Elementary Schools	9 Middle Schools, 20 Elementary Schools, 2 Education Centers	Under Life Cycle Management; No Action Required

#### **Enterprise Infrastructure:**

Enterprise Infrastructure refers to the entire collection of computers, audio visual equipment, networks, email, supporting software, Wi-Fi, data centers, switches and other related hardware equipment in schools and offices. These items, along with supporting services such as installation, monitoring, maintenance, and repairs provide the backbone for a high performing learning community. Infrastructure hardware is a significant portion of any technology budget and must be refreshed on a cyclical basis.

#### **Enterprise Applications:**

Enterprise Applications provide the system-wide information for the operation and benefit of our program directors, administrators, teachers, students, and parents. Enterprise Applications governs the operations of each of the major data systems: Student Information System (Synergy), Data Warehouse (Hoonuit), Learning Management System (Canvas), and our cloud-based Financial Management, Budgeting, and Human Capital Management System (Workday).

#### **HCPSS** Information Technology will:

- Continue the implementation of the new data warehouse.
- Implement full data integration between the student information system, data warehouse, and the learning management system.
- Enhance feature development in enterprise applications systems.
- Improve and optimize the Workday business processes in Human Resources, security, payroll, purchasing, and retirement benefits.

# School Parking Lot Expansions: Project 1012



School Facilities oversees the School Parking Lot Expansions Project. Actual costs incurred in the School Parking Lot Expansions Project over the past five years is shown below.

Parking Lot Expansion Actual Expenses								
Fiscal Year Actual Expense								
FY 2014	\$ -							
FY 2015	\$ -							
FY 2016	\$ -							
FY 2017	\$ -							
FY 2018	\$ 92,000							

## Project Purpose

School Parking Lot Expansion projects provide for the construction of additional parking spaces and modification of parking lots to improve traffic flow patterns at existing school sites. These projects are necessary due to the insufficient supply of spaces to meet existing needs. Funds are used for parking improvements on sites that are not scheduled for other construction projects.

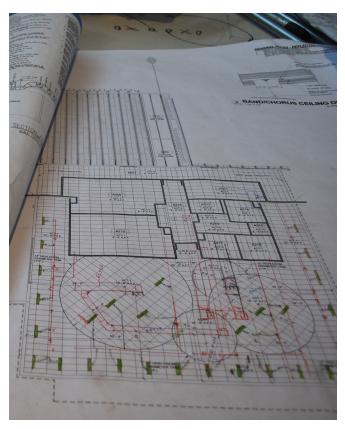
# **FY 2020 Request Analysis**

Project Funding (July 1, 2018 - June 30, 2019)	\$ 4,200,370
Project Cost-to-Date (through June 30, 2018)	(3,672,764)
FY 2019 Projected Costs	(350,000)
Available Project Funding (July 1, 2019)	\$ 177,606



Requested Budget FY 2020

# Planning and Design: Project 1038





## **Project Purpose**

The Planning and Design project has been established to provide funding for scope studies prior to the funding of individual projects. During the concept development stage, each project is summarized, supporting documentation is gathered, and necessary approvals are obtained before construction begins. A scope study provides the analysis to determine the scope and breadth of a project under consideration.

The value of these studies is having the flexibility to ask technical questions about projects before the formal design process. With these studies, projects can be "right sized." Pricing for these studies is favorable because design consultants want to obtain the full design project. These studies ensure the selection of the most effective scope for each project. This process will reduce the costs associated with significant changes in scope, which often occur in a compressed planning schedule. In the construction phase, the reduced number of change orders will lessen the impact on the construction schedule and decrease incremental costs. Future year studies may include out-year

construction projects and/or the considerations for the potential mandate of All-Day Pre-K.

The Office of School Construction oversees the planning and design for capital projects. Staff serve as the fiduciary agent for the administration of the Howard County Public School System/Board of Education construction contracts. The office recommends the selection of design consultants for capital projects to the Board of Education and supervises these consultants.

# Barrier-Free Projects: Project 0989



An accessibility ramp to access the upper level play area at Bryant Woods Elementary School.

#### **Project Purpose**

Barrier-Free Projects will include installation of ramps; alteration of restrooms, fixtures, and drinking fountains; and various modifications to make all remaining spaces (school buildings and school sites) accessible to the public, students, teachers, and staff. Federal, state, and local regulations require that school facilities be made accessible to the physically handicapped by removing barriers to access. Examples of projects include stadium bleacher ramps, play field access ramps, automatic door opening devices, reconfiguration of bathroom fixtures and partitions to allow wheelchair access, and other school-specific projects that remove barriers as described in project details.

School Facilities oversees the Barrier-Free Projects. Actual costs incurred in the Barrier-Free Projects over the past five years is shown below.

Barrier Free Actual Expenses									
Fiscal Year Actual Expense									
FY 2014	\$	119,445							
FY 2015	\$	23,580							
FY 2016	\$	54,747							
FY 2017	\$	234,811							
FY 2018	\$	316,622							



Lift room for access to the stage.

FY 2020 Request Analysis									
Project Funding (July 1, 2018 - June 30, 2019)	\$	5,603,000							
Project Cost-to-Date (through June 30, 2018)		(5,373,587)							
FY 2019 Projected Costs		(229,413)							
Available Project Funding (July 1, 2019)	\$	-							
Requested Budget FY 2020	\$	200,000							

The Americans with Disabilities Act (ADA) of 1990 is a comprehensive civil rights law that makes it unlawful for public and private employers to discriminate against individuals with disabilities. This law, as well as COMAR, and best risk management practices require that HCPSS be ready to adjust our physical plant for access. Funds support student needs and compliance with existing and new regulations as they relate to the ADA to ensure all students and staff have equal opportunities.

The barrier-free fundensures our facilities provide full access to all students. When buildings are designed with accessibility in mind, issues are addressed in the schematic phase of a project. This practice generally produces buildings that are more accessible at the best cost.

With changing student enrollments, unique access issues may arise after the building is completed. This fund is used to make sensible, low-cost adjustments to improve overall access. This project funding is ongoing.



Elevator for transportation to the second-story level.

#### FY 2020

Superintendent's Proposed Capital Budget

# Talbott Springs ES (Grades K-5) REPLACEMENT

Project: 1043

(In Thousands)

Source of F	unds		Five-Year Capital Program					Master Plan				
Туре	Approved Appropriation	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	FY2029	Total
Bonds	\$ 7,050	\$ 9,500	\$14,218	\$ 9,856	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 40,624
Paygo	-	-	-	-	-	-	-	-	-	-	-	-
State Aid	-	-	-	-	-	-	-	-	-	-	-	-
Transfer Tax	-	-	-	-	-	-	-	-	-	-	-	-
Z Bonds	1,000	-	-	-	-	-	-	-	-	-	-	1,000
Total Funds	\$ 8,050	\$ 9,500	\$14,218	\$ 9,856	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 41,624

Use of Fund	S		Five-Year Capital Program					Master Plan				
Description	Approved Appropriation	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	FY2029	Total
Plans/Engineering	\$ 1,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,000
Construction	7,050	9,500	14,218	8,856	-	-	-	-	-	-	-	39,624
Equip./Furnishings	-	-	-	1,000	-	-	-	-	-	-	-	1,000
Total Expenditures	\$ 8,050	\$ 9,500	\$14,218	\$ 9,856	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 41,624

Project Commencement FY 2019

FY 2020 Superintendent's Proposed Capital Budget

# New HS #13 (Grades 9–12) NEW SCHOOL

Project: 1035

(In Thousands)

Source of Fu	Source of Funds				Five-Year Capital Program					Master Plan					
Туре	Approp		FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	FY2029	Total		
Bonds	\$	6,732	\$15,600	\$29,260	\$29,280	\$29,260	\$19,505	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 129,637		
Paygo		-	-	-	-	-	-	-	-	-	-	-	-		
State Aid		-	-	-	-	-	-	-	-	-	-	-	-		
Transfer Tax		-	-	-	-	-	-	-	-	-	-	-	-		
Z Bonds		-	-	-	-	-	-	-	-	-	-	-	-		
Total Funds	\$	6,732	\$15,600	\$29,260	\$29,280	\$29,260	\$19,505	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 129,637		

Use of Fund	S			Five-Year Capital Program					Master Plan					
Description	Approved Appropriation	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	FY2029	Total		
Plans/Engineering	\$ 6,732	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 6,732		
Construction	-	15,600	29,260	29,280	29,260	14,505	-	-	-	-	-	117,905		
Equip./Furnishings	-	-	-	-	-	5,000	-	-	-	-	-	5,000		
Total Expenditures	\$ 6,732	\$15,600	\$29,260	\$29,280	\$29,260	\$19,505	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 129,637		

Project Commencement FY 2018

FY 2020 Superintendent's Proposed Capital Budget

# Hammond HS (Grades 9–12) RENOVATION/ADDITION

Project: 1024

(In Thousands)

Source of F	unds		Five-Year Capital Program					Master Plan					
Туре	Approved Appropriation	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	FY2029	Total	
Bonds	\$ 4,000	\$12,500	\$23,955	\$24,075	\$24,156	\$10,342	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 99,028	
Paygo	-	-	-	-	-	-	-	-	-	-	-	-	
State Aid	-	-	-	-	-	-	-	-	-	-	-	-	
Transfer Tax	-	-	-	-	-	-	-	-	-	-	-	-	
Z Bonds	-	-	-	-	-	-	-	-	-	-	-	-	
Total Funds	\$ 4,000	\$12,500	\$23,955	\$24,075	\$24,156	\$10,342	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 99,028	

<b>Use of Fund</b>	S		Five-Year Capital Program									
Description	Approved Appropriation	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	FY2029	Total
Plans/Engineering	\$ 4,000	\$ -	\$ -	\$ -	\$ -	\$ 7,342	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 11,342
Construction	-	12,500	23,955	24,075	24,156	-	-	-	-	-	-	84,686
Equip./Furnishings	-	-	-	-	-	3,000	-	-	-	-	-	3,000
Total Expenditures	\$ 4,000	\$12,500	\$23,955	\$24,075	\$24,156	\$10,342	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 99,028

Project Commencement FY 2019

Superintendent's Proposed Capital Budget

# New ES #43 (Grades K-5) NEW SCHOOL

Project: 1039

(In Thousands)

Source of Fu	unds			Five-Year Capital Program					Master Plan					
Туре	Approved Appropriation	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	FY2029	Total		
Bonds	\$ -	\$ -	\$ 4,000	\$15,500	\$14,500	\$12,439	\$ 4,588	\$ -	\$ -	\$ -	\$ -	\$ 51,027		
Paygo	-	-	-	-	-	-	-	-	-	-	-	-		
State Aid	-	-	-	-	-	-	-	-	-	-	-	-		
Transfer Tax	-	-	-	-	-	-	-	-	-	-	-	-		
Z Bonds	-	-	-	-	-	-	-	-	-	-	-	-		
Total Funds	\$ -	\$ -	\$ 4,000	\$15,500	\$14,500	\$12,439	\$ 4,588	\$ -	\$ -	\$ -	\$ -	\$ 51,027		

Use of Fund	ınds Five-Year Capital Program							Master Plan						
Description	Approved Appropriation	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	FY2029	Total		
Plans/Engineering	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -		
Construction	-	-	4,000	15,500	14,500	12,439	2,388	-	-	-	-	48,827		
Equip./Furnishings	-	-	-	-	-	-	2,200	-	-	-	-	2,200		
Total Expenditures	\$ -	\$ -	\$ 4,000	\$15,500	\$14,500	\$12,439	\$ 4,588	\$ -	\$ -	\$ -	\$ -	\$ 51,027		

Project Commencement FY 2024

## FY 2020 Superintendent's Proposed Capital Budget

# Dunloggin MS(Grades 6–8) RENOVATION/ADDITION

Project: 1049

(In Thousands)

Source of Fu	Source of Funds					Five-Year Capital Program					Master Plan					
Туре	Approved Appropriation	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	FY2029	Total				
Bonds	\$ -	\$ -	\$ 2,000	\$ 8,694	\$11,671	\$11,534	\$ 5,000	\$ -	\$ -	\$ -	\$ -	\$ 38,899				
Paygo	-	-	-	-	-	-	-	-	-	-	-	-				
State Aid	-	-	-	-	-	-	-	-	-	-	-	-				
Transfer Tax	-	-	-	-	-	-	-	-	-	-	-	-				
Z Bonds	-	-	-	-	-	-	-	-	-	-	-	-				
Total Funds	\$ -	\$ -	\$ 2,000	\$ 8,694	\$11,671	\$11,534	\$ 5,000	\$ -	\$ -	\$ -	\$ -	\$ 38,899				

Use of Fund	S			Five-Year Capital Program					Master Plan				
Description	Approved Appropriation	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	FY2029	Total	
Plans/Engineering	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
Construction	-	-	2,000	8,694	11,671	11,534	4,500	-	-	-	-	38,399	
Equip./Furnishings	-	-	-	-	-	-	500	-	-	-	-	500	
Total Expenditures	\$ -	\$ -	\$ 2,000	\$ 8,694	\$11,671	\$11,534	\$ 5,000	\$ -	\$ -	\$ -	\$ -	\$ 38,899	

Project Commencement FY 2019

# Ellicott Mills MS (Grades 6–8) ADDITION

Project: 1037

(In Thousands)

Source of F	unds			Five-Yed	ır Capital	Program			Maste	er Plan		
Туре	Approved Appropriation	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	FY2029	Total
Bonds	\$ -	\$ -	\$ -	\$ 1,000	\$ 6,415	\$ 1,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 8,4
Paygo	-	-	-	-	-	-	-	-	-	-	-	
State Aid	-	-	-	-	-	-	-	-	-	-	-	
Transfer Tax	-	-	-	-	-	-	-	-	-	-	-	
Z Bonds	-	-	-	-	-	-	-	-	-	-	-	
Total Funds	\$ -	\$ -	\$ -	\$ 1,000	\$ 6,415	\$ 1,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 8,4

Use of Fund	S			Five-Yea	ır Capital	Program			Maste	er Plan		
Description	Approved Appropriation	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	FY2029	Total
Plans/Engineering	\$ -	\$ -	\$ -	\$ 1,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,000
Construction	-	-	-	-	5,915	500	-	-	-	-	-	6,415
Equip./Furnishings	-	-	-	-	500	500	-	-	-	-	-	1,000
Total Expenditures	\$ -	\$ -	\$ -	\$ 1,000	\$ 6,415	\$ 1,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 8,415

Project Commencement FY 2022

# Oakland Mills MS (Grades 6–8) RENOVATION

Project: 1036

(In Thousands)

Source of Fu	unds			Five-Yec	ır Capital	Program			Maste	er Plan		
Туре	Approved Appropriation	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	FY2029	Total
Bonds	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 7,500	\$15,500	\$12,500	\$ 2,810	\$ -	\$ -	\$ 38,310
Paygo	-	-	-	-	-	-	-	-	-	-	-	-
State Aid	-	-	-	-	-	-	-	-	-	-	-	-
Transfer Tax	-	-	-	-	-	-	-	-	-	-	-	-
Z Bonds	-	-	-	-	-	-	-	-	-	-	-	-
Total Funds	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 7,500	\$15,500	\$12,500	\$ 2,810	\$ -	\$ -	\$ 38,310

Use of Fund	S			Five-Yea	ır Capital	Program			Maste	er Plan		
Description	Approved Appropriation	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	FY2029	Total
Plans/Engineering	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Construction	-	-	-	-	-	7,500	15,500	12,500	1,810	-	-	37,310
Equip./Furnishings	-	-	-	-	-	-	-	-	1,000	-	-	1,000
Total Expenditures	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 7,500	\$15,500	\$12,500	\$ 2,810	\$ -	\$ -	\$ 38,310

Project Commencement FY 2016

# New ES #44 (Grades K-5) NEW SCHOOL

Project: 1040

(In Thousands)

Source of Fu	unds			Five-Yeo	ır Capital	Program			Maste	er Plan		
Туре	Approved Appropriation	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	FY2029	Total
Bonds	\$ -	\$ -	\$ -	\$ -	\$ 4,000	\$15,550	\$14,500	\$12,439	\$ 6,524	\$ -	\$ -	\$ 53,013
Paygo	-	-	-	-	-	-	-	-	-	-	-	-
State Aid	-	-	-	-	-	-	-	-	-	-	-	-
Transfer Tax	-	-	-	-	-	-	-	-	-	-	-	-
Z Bonds	-	-	-	-	-	-	-	-	-	-	-	-
Total Funds	\$ -	\$ -	\$ -	\$ -	\$ 4,000	\$15,550	\$14,500	\$12,439	\$ 6,524	\$ -	\$ -	\$ 53,013

Use of Fund	S			Five-Yed	ır Capital	Program			Maste	er Plan		
Description	Approved Appropriation	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	FY2029	Total
Plans/Engineering	\$ -	\$ -	\$ -	\$ -	\$ 4,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 4,000
Construction	-	-	-	-	-	15,550	14,500	12,439	4,324	-	-	46,813
Equip./Furnishings	-	-	-	-	-	-	-	-	2,200	-	-	2,200
Total Expenditures	\$ -	\$ -	\$ -	\$ -	\$ 4,000	\$15,550	\$14,500	\$12,439	\$ 6,524	\$ -	\$ -	\$ 53,013

Project Commencement FY 2025

# MS/HS Career Development Center (Grades 6–12) NEW SCHOOL

Project: 1051

(In Thousands)

Source of Fu	unds			Five-Yec	ır Capital	Program			Maste	er Plan		
Туре	Approved Appropriation	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	FY2029	Total
Bonds	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 8,232	\$25,566	\$30,850	\$31,686	\$22,566	\$ -	\$ 118,900
Paygo	-	-	-	-	-	-	-	-	-	-	-	-
State Aid	-	-	-	-	-	-	-	-	-	-	-	-
Transfer Tax	-	-	-	-	-	-	-	-	-	-	-	-
Z Bonds	-	-	-	-	-	-	-	-	-	-	-	-
Total Funds	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 8,232	\$25,566	\$30,850	\$31,686	\$22,566	\$ -	\$ 118,900

Use of Fund	S			Five-Yea	r Capital	Program			Maste	r Plan		
Description	Approved Appropriation	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	FY2029	Total
Plans/Engineering	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 8,232	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 8,232
Construction	-	-	-	-	-	-	25,566	30,850	31,686	17,566	-	105,668
Equip./Furnishings	-	-	-	-	-	-	-	-	-	5,000	-	5,000
Total Expenditures	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 8,232	\$25,566	\$30,850	\$31,686	\$22,566	\$ -	\$118,900

Project Commencement FY 2019

#### FY 2020

Superintendent's Proposed Capital Budget

# New ES #45 (Grades K-5) NEW SCHOOL

Project: 1041

(In Thousands)

Source of Fu	unds			Five-Yed	ır Capital	Program			Maste	er Plan		
Туре	Approved Appropriation	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	FY2029	Total
Bonds	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 4,000	\$11,500	\$12,500	\$ 28,000
Paygo	-	-	-	-	-	-	-	-	-	-	-	-
State Aid	-	-	-	-	-	-	-	-	-	-	-	-
Transfer Tax	-	-	-	-	-	-	-	-	-	-	-	-
Z Bonds	-	-	-	-	-	-	-	-	-	-	-	-
Total Funds	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 4,000	\$11,500	\$12,500	\$ 28,000

Use of Fund	S			Five-Yea	r Capital	Program			Maste	er Plan		
Description	Approved Appropriation	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	FY2029	Total
Plans/Engineering	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 4,000	\$ -	\$ -	\$ 4,000
Construction	-	-	-	-	-	-	-	-	-	11,500	12,500	24,000
Equip./Furnishings	-	-	-	-	-	-	-	-	-	-	-	-
Total Expenditures	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 4,000	\$11,500	\$12,500	\$ 28,000

Project Commencement FY 2026

# Systemic Renovations

Project: 1044

(In Thousands)

Source of Fu	unds			Five-Yed	ır Capital	Program			Maste	er Plan		
Туре	Approved Appropriation	n FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	FY2029	Total
Bonds	\$ 17,11	\$37,060	\$22,724	\$21,481	\$18,515	\$18,430	\$10,405	\$17,000	\$18,000	\$19,000	\$20,000	\$ 219,731
Paygo	1,40	- C	-	-	-	-	-	-	-	-	-	1,400
State Aid	2,78	9 -	-	-	-	-	-	-	-	-	-	2,789
Transfer Tax	4,15	O -	-	-	-	-	-	-	-	-	-	4,150
Z Bonds			-	-	-	-	-	-	-	-	-	-
Total Funds	\$ 25,45	5 \$37,060	\$22,724	\$21,481	\$18,515	\$18,430	\$10,405	\$17,000	\$18,000	\$19,000	\$20,000	\$ 228,070

Use of Fund	S			Five-Yea	r Capital	Program			Maste	r Plan		
Description	Approved Appropriation	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	FY2029	Total
Plans/Engineering	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Construction	25,455	37,060	22,724	21,481	18,515	18,430	10,405	17,000	18,000	19,000	20,000	228,070
Equip./Furnishings	-	-	-	-	-	-	-	-	-	-	-	-
Total Expenditures	\$ 25,455	\$37,060	\$22,724	\$21,481	\$18,515	\$18,430	\$10,405	\$17,000	\$18,000	\$19,000	\$20,000	\$ 228,070

Project Commencement FY 2019

# Roofing Projects

Project: 1046

(In Thousands)

Source of F	unds			Five-Yeo	ır Capital	Program			Maste	er Plan		
Туре	Approved Appropriation	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	FY2029	Total
Bonds	\$ 6,546	\$ 5,000	\$ 1,000	\$ 5,000	\$ 1,000	\$ 1,000	\$ 5,000	\$ 5,000	\$ 5,000	\$ 5,000	\$ 5,000	\$ 44,546
Paygo	5,954	-	-	-	-	-	-	-	-	-	-	5,954
State Aid	-	-	-	-	-	-	-	-	-	-	-	-
Transfer Tax	-	-	-	-	-	-	-	-	-	-	-	-
Z Bonds	-	-	-	-	-	-	-	-	-	-	-	-
Total Funds	\$ 12,500	\$ 5,000	\$ 1,000	\$ 5,000	\$ 1,000	\$ 1,000	\$ 5,000	\$ 5,000	\$ 5,000	\$ 5,000	\$ 5,000	\$ 50,500

Use of Fund:	S			Five-Yea	r Capital	Program			Maste	er Plan		
Description	Approved Appropriation	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	FY2029	Total
Plans/Engineering	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Construction	12,500	5,000	1,000	5,000	1,000	1,000	5,000	5,000	5,000	5,000	5,000	50,500
Equip./Furnishings	-	-	-	-	-	-	-	-	-	-	-	-
Total Expenditures	\$ 12,500	\$ 5,000	\$ 1,000	\$ 5,000	\$ 1,000	\$ 1,000	\$ 5,000	\$ 5,000	\$ 5,000	\$ 5,000	\$ 5,000	\$ 50,500

Project Commencement FY 2019

### FY 2020

Superintendent's Proposed Capital Budget

# Playground Equipment

Project: 0990

(In Thousands)

Source of F	unds						Fiv	e-Yea	ır Co	apital	Pro	gram						Maste	r Pl	an			
Туре		oved oriation	FY	2020	FY	2021	FY	′2022	FY	2023	FY	2024	FY	2025	FY	2026	FY	′2027	FY	2028	FY	2029	Total
Bonds	\$	2,350	\$	250	\$	250	\$	250	\$	250	\$	250	\$	500	\$	500	\$	500	\$	500	\$	500	\$ 6,100
Paygo		-		-		-		-		-		-		-		-		-		-		-	-
State Aid		-		-		-		-		-		-		-		-		-		-		-	-
Transfer Tax		580		-		-		-		-		-		-		-		-		-		-	580
Z Bonds		-		-		-		-		-		-		-		-		-		-		-	-
Total Funds	\$	2,930	\$	250	\$	250	\$	250	\$	250	\$	250	\$	500	\$	500	\$	500	\$	500	\$	500	\$ 6,680

Use of Fund	S			Five-Yea	ır Capital	Program			Maste	er Plan		
Description	Approved Appropriation	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	FY2029	Total
Plans/Engineering	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Construction	2,930	250	250	250	250	250	500	500	500	500	500	6,680
Equip./Furnishings	-	-	-	-	-	-	-	-	-	-	-	-
Total Expenditures	\$ 2,930	\$ 250	\$ 250	\$ 250	\$ 250	\$ 250	\$ 500	\$ 500	\$ 500	\$ 500	\$ 500	\$ 6,680

Project Commencement FY 2002

## Relocatable Classrooms

Project: 1045

(In Thousands)

Source of Fu	unds			Five-Yec	ır Capital	Program			Maste	er Plan		
Туре	Approved Appropriation	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	FY2029	Total
Bonds	\$ 1,800	\$ 3,200	\$ 1,500	\$ 1,500	\$ 1,500	\$ 1,500	\$ 1,500	\$ 1,500	\$ 1,500	\$ 1,500	\$ 1,500	\$ 18,500
Paygo	-	-	-	-	-	-	-	-	-	-	-	-
State Aid	-	-	-	-	-	-	-	-	-	-	-	-
Transfer Tax	-	-	-	-	-	-	-	-	-	-	-	-
Z Bonds	-	-	-	-	-	-	-	-	-	-	-	-
Total Funds	\$ 1,800	\$ 3,200	\$ 1,500	\$ 1,500	\$ 1,500	\$ 1,500	\$ 1,500	\$ 1,500	\$ 1,500	\$ 1,500	\$ 1,500	\$ 18,500

<b>Use of Fund</b>	S			Five-Yea	r Capital	Program			Maste	er Plan		
Description	Approved Appropriation	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	FY2029	Total
Plans/Engineering	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Construction	1,800	3,200	1,500	1,500	1,500	1,500	1,500	1,500	1,500	1,500	1,500	18,500
Equip./Furnishings	-	-	-	-	-	-	-	-	-	-	-	-
Total Expenditures	\$ 1,800	\$ 3,200	\$ 1,500	\$ 1,500	\$ 1,500	\$ 1,500	\$ 1,500	\$ 1,500	\$ 1,500	\$ 1,500	\$ 1,500	\$ 18,500

Project Commencement FY 2019

Project: 1047

### FY 2020 Superintendent's Proposed Capital Budget

## Site Acquisition and Construction Reserve

Project: 1047

(In Thousands)

Source of F	unds			Five-Yeo	ır Capital	Program			Maste	r Plan		
Туре	Approved Appropriation	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	FY2029	Total
Bonds	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,000	\$ 2,000	\$ 2,000	\$ 2,000	\$ 2,000	\$ 10,000
Paygo	-	-	-	-	-	-	-	-	-	-	-	-
State Aid	-	-	-	-	-	-	-	-	-	-	-	-
Transfer Tax	-	-	-	-	-	-	-	-	-	-	-	-
Z Bonds	-	-	-	-	-	-	-	-	-	-	-	-
Total Funds	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,000	\$ 2,000	\$ 2,000	\$ 2,000	\$ 2,000	\$ 10,000

<b>Use of Fund</b>	S			Five-Yea	ır Capital	Program			Maste	er Plan		
Description	Approved Appropriation	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	FY2029	Total
Plans/Engineering	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Construction	-	-	-	-	-	-	2,000	2,000	2,000	2,000	2,000	10,000
Equip./Furnishings	-	-	-	-	-	-	-	-	-	-	-	-
Total Expenditures	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,000	\$ 2,000	\$ 2,000	\$ 2,000	\$ 2,000	\$ 10,000

Project Commencement FY 2019

### FY 2020

75

Superintendent's Proposed Capital Budget

# Technology

Project: 1048

(In Thousands)

Source of Fu	unds			Five-Yed	ır Capital	Program			Maste	er Plan		
Туре	Approved Appropriation	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	FY2029	Total
Bonds	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Paygo	-	-	-	-	-	-	-	-	-	-	-	-
State Aid	-	-	-	-	-	-	-	-	-	-	-	-
Transfer Tax	2,750	5,500	5,500	7,500	7,500	7,500	7,500	7,500	7,500	7,500	7,500	73,750
Z Bonds	-	-	-	-	-	-	-	-	-	-	-	-
Total Funds	\$ 2,750	\$ 5,500	\$ 5,500	\$ 7,500	\$ 7,500	\$ 7,500	\$ 7,500	\$ 7,500	\$ 7,500	\$ 7,500	\$ 7,500	\$ 73,750

Use of Fund	S			Five-Yea	r Capital	Program			Maste	er Plan		
Description	Approved Appropriation	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	FY2029	Total
Plans/Engineering	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Construction	-	-	-	-	-	-	-	-	-	-	-	-
Equip./Furnishings	2,750	5,500	5,500	7,500	7,500	7,500	7,500	7,500	7,500	7,500	7,500	73,750
Total Expenditures	\$ 2,750	\$ 5,500	\$ 5,500	\$ 7,500	\$ 7,500	\$ 7,500	\$ 7,500	\$ 7,500	\$ 7,500	\$ 7,500	\$ 7,500	\$ 73,750

Project Commencement FY 2019

# School Parking Lot Expansions

Project: 1012

(In Thousands)

Source of F	unds			Five-Yec	ır Capital	Program			Maste	er Plan		
Туре	Approved Appropriation	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	FY2029	Total
Bonds	\$ 2,779	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 600	\$ 600	\$ 600	\$ 600	\$ 600	\$ 5,779
Paygo	-	-	-	-	-	-	-	-	-	-	-	-
State Aid	1,421	-	-	-	-	-	-	-	-	-	-	1,421
Transfer Tax	-	-	-	-	-	-	-	-	-	-	-	-
Z Bonds	-	-	-	-	-	-	-	-	-	-	-	-
Total Funds	\$ 4,200	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 600	\$ 600	\$ 600	\$ 600	\$ 600	\$ 7,200

Use of Fund	S			Five-Yea	ır Capital	Program			Maste	er Plan		
Description	Approved Appropriation	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	FY2029	Total
Plans/Engineering	\$ 240	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 60	\$ 60	\$ 60	\$ 60	\$ 60	\$ 540
Construction	3,960	-	-	-	-	-	540	540	540	540	540	6,660
Equip./Furnishings	-	-	-	-	-	-	-	-	-	-	-	-
Total Expenditures	\$ 4,200	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 600	\$ 600	\$ 600	\$ 600	\$ 600	\$ 7,200

Project Commencement FY 2008

## Planning and Design

Project: 1038

(In Thousands)

Source of Fu	unds			Five-Yed	ır Capital	Program			Maste	er Plan		
Туре	Approved Appropriation	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	FY2029	Total
Bonds	\$ -	\$ 400	\$ 400	\$ 300	\$ 300	\$ 300	\$ 300	\$ 300	\$ 300	\$ 300	\$ 300	\$ 3,200
Paygo	-	-	-	-	-	-	-	-	-	-	-	-
State Aid	-	-	-	-	-	-	-	-	-	-	-	-
Transfer Tax	700	-	-	-	-	-	-	-	-	-	-	700
Z Bonds	-	-	-	-	-	-	-	-	-	-	-	-
Total Funds	\$ 700	\$ 400	\$ 400	\$ 300	\$ 300	\$ 300	\$ 300	\$ 300	\$ 300	\$ 300	\$ 300	\$ 3,900

Use of Fund	S			Five-Yec	ır Capital	Program			Maste	er Plan		
Description	Approved Appropriation	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	FY2029	Total
Plans/Engineering	\$ 700	\$ 400	\$ 400	\$ 300	\$ 300	\$ 300	\$ 300	\$ 300	\$ 300	\$ 300	\$ 300	\$ 3,900
Construction	-	-	-	-	-	-	-	-	-	-	-	-
Equip./Furnishings	-	-	-	-	-	-	-	-	-	-	-	-
Total Expenditures	\$ 700	\$ 400	\$ 400	\$ 300	\$ 300	\$ 300	\$ 300	\$ 300	\$ 300	\$ 300	\$ 300	\$ 3,900

Project Commencement FY 2016

# Barrier-Free

Project: 0989

(In Thousands)

Source of Fu	unds			Five-Yed	ar Capital	Program			Maste	er Plan		
Туре	Approved Appropriation	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	FY2029	Total
Bonds	\$ 3,850	\$ 200	\$ 200	\$ 200	\$ 200	\$ 200	\$ 200	\$ 200	\$ 200	\$ 200	\$ 200	\$ 5,850
Paygo	303	-	-	-	-	-	-	-	-	-	-	303
State Aid	-	-	-	-	-	-	-	-	-	-	-	-
Transfer Tax	1,450	-	-	-	-	-	-	-	-	-	-	1,450
Z Bonds	-	-	-	-	-	-	-	-	-	-	-	-
Total Funds	\$ 5,603	\$ 200	\$ 200	\$ 200	\$ 200	\$ 200	\$ 200	\$ 200	\$ 200	\$ 200	\$ 200	\$ 7,603

Use of Fund	S			Five-Yea	r Capital	Program			Maste	r Plan		
Description	Approved Appropriation	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	FY2029	Total
Plans/Engineering	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Construction	5,603	200	200	200	200	200	200	200	200	200	200	7,603
Equip./Furnishings	-	-	-	-	-	-	-	-	-	-	-	-
Total Expenditures	\$ 5,603	\$ 200	\$ 200	\$ 200	\$ 200	\$ 200	\$ 200	\$ 200	\$ 200	\$ 200	\$ 200	\$ 7,603

Project Commencement FY 1989

### **Howard County Public School System**

Superintendent's Proposed FY 2020 Capital Budget Capital Improvement Program FY 2021–2025 Long-Range Master Plan FY 2020–2029

Section 4

# **Supporting Data**

September 2018

80

)	Pre-Measures															for De												
	Chart reflects May 201	18 P	Projecti	ons. Bo	ard of F	ducatio	on's FY							ducatio	n's Ap	proved I	FY 201	19 Capit	al Bud	get Proje	ects -	Not Test	for AP	FO				
	5.14.1.16.16.615.1114, 25.		.0,00		acity			19-20		20-21		21-22		22-23	20	23-24	20	24-25	20	25-26	20	26-27	20	27-28	20	28-29	202	29-30
J	Columbia - East Cradlerock ES Jeffers Hill ES Phelps Luck ES Stevens Forest ES Talbott Springs ES Thunder Hill ES Region Totals	R	2019 398 421 597 399 377 509 2701	398 421 597 399 377 509 2701	398 421 597 399 540 509 2864	398 421 597 399 540 509 <b>2864</b>	Proj 458 426 528 395 459 518 2784	% Util. 115.1 C 101.2 88.4 99.0 121.8 C 101.8 103.1	415 536 406	% Util. 112.8 98.6 89.8 101.8 125.2 C 99.6	Proj 445 413 551 400 460 486 2755	% Util. 111.8 98.1 92.3 100.3 85.2 95.5 96.2	Proj 435 393 555 403 463 484 2733	% Util. 109.3 93.3 93.0 101.0 85.7 95.1	Proj 444 400 578 405 464 476 2767	% Ufil. 111.6 95.0 96.8 101.5 85.9 93.5 96.6	Proj 450 396 577 410 453 474 2760	% Util. 113.1 94.1 96.6 102.8 83.9 93.1 96.4	Proj 448 399 596 407 458 474 <b>2782</b>	% Util. 112.6 94.8 99.8 102.0 84.8 93.1 97.1	Proj 455 402 602 414 461 472 2806	% Util. 114.3 95.5 100.8 103.8 85.4 92.7 98.0	Proj 464 411 609 420 475 490 2869	% Util. 116.6 C 97.6 102.0 105.3 88.0 96.3 100.2	Proj 471 416 615 424 481 496 2903	% Util. 118.3 C 98.8 103.0 106.3 89.1 97.4 101.4		% Util. 120.1 C 100.2 104.4 107.3 90.4 99.2 102.8
	Columbia - West Bryant Woods ES Clemens Crossing ES Longfellow ES New ES #44 Running Brook ES	NS	361 521 512 0 515	361 521 512 0 515	361 521 512 0 515	361 521 512 0 515	402 508 400 528	111.4 97.5 78.1	408 543 401 559	113.0 104.2 78.3	418 593 403	115.8 C 113.8 78.7	638 417	117.2 C 122.5 C 81.4	680 414	119.1 C 130.5 C 80.9	713 425	121.6 C 136.9 C 83.0	731 431	122.2 C 140.3 C 84.2	765 437	123.5 C 146.8 C 85.4	783 445	125.2 C 150.3 C 86.9	455 803 448 890	126.0 <b>C</b> 154.1 <b>C</b> 87.5		125.8 <b>C</b> 156.4 <b>C</b> 88.5
	Swansfield ES Region Totals		694 <b>2603</b>	694 <b>2603</b>	694 <b>2603</b>	694 <b>2603</b>	591 <b>2429</b>	85.2 93.3	590 <b>2501</b>	85.0 96.1	576 <b>2590</b>	83.0 99.5	579 <b>2703</b>	83.4 103.8	573 <b>2770</b>	82.6 106.4	574 <b>2859</b>	82.7 109.8	580 <b>2925</b>	83.6 112.4	584 <b>3017</b>	84.1 115.9 <b>C</b>	595 <b>3116</b>	85.7 91.9	601 <b>3197</b>	86.6 94.3	607 <b>3266</b>	87.5 96.3
	Northeastern																											
	Bellows Spring ES Deep Run ES Ducketts Lane ES Elkridge ES	NS	751 750 694 760 810 584 609 799 663 515	751 750 694 760 810 584 609 799 663 515	751 750 694 760 810 584 609 799 663 515	751 750 694 760 810 584 609 799 663 515	678 686 678 840 689 555 542 870 562 458	90.3 91.5 97.7 110.5 85.1 95.0 89.0 108.9 84.8 88.9 94.6	737 706 664 842 782 536 560 853 581 445	98.1 94.1 95.7 110.8 96.5 91.8 92.0 106.8 87.6 86.4 96.7	784 746 662 828 879 523 570 851 560 432	104.4 99.5 95.4 108.9 108.5 89.6 93.6 106.5 84.5 83.9 98.6	825 772 651 812 979 514 584 840 573 447	109.9 102.9 93.8 106.8 120.9 88.0 95.9 105.1 86.4 86.8 100.9	855 797 639 794 1071 559 610 848 563 469 <b>7205</b>	113.8 106.3 92.1 104.5 132.2 C 95.7 100.2 106.1 84.9 91.1	879 816 643 799 1105 610 657 834 577 508	117.0 C 108.8 92.7 105.1 136.4 C 104.5 107.9 104.4 87.0 98.6	837 634 826	119.3 C 1111.6 91.4 108.7 141.9 C 108.7 115.9 C 107.8 89.0 104.7	842 658 869 1185 652	118.1 C 112.3 94.8 114.3 146.3 C 111.6 117.2 C 113.0 89.7 111.5	860 677 923 : 1219 689	115.0 C 114.7 97.6 121.4 C 150.5 C 118.0 C 119.9 C 114.4 90.6 128.5 C	915 610 676	112.4 116.3 C 98.6 127.8 C 150.5 C 118.8 C 120.4 C 114.5 92.0 131.3 C	735 916 623 668	108.8 118.1 C 98.6 129.7 C 153.7 C 116.1 C 120.7 C 114.6 94.0 129.7 C 118.8 C
)																												
	Northern Centennial Lane ES Hollifield Station ES Manor Woods ES New ES #45 Northfield ES St Johns Lane ES Waverly ES Region Totals	NS A	647 732 681 0 700 612 788 <b>4160</b>	647 732 681 0 700 612 788 <b>4160</b>	647 732 681 0 700 612 788 <b>4160</b>	647 732 681 0 700 612 788 <b>4160</b>	752 821 653 729 705 823 <b>4483</b>	116.2 C 112.2 95.9 104.1 115.2 C 104.4 107.8	835 665 735	115.3 C 114.1 97.7 105.0 112.9 107.4 108.6	749 849 693 743 710 866 <b>4610</b>	115.8 C 116.0 C 101.8 106.1 116.0 C 109.9	839 699 748	116.1 C 114.6 102.6 106.9 119.3 C 110.4	833 748 771	115.1 C 113.8 109.8 110.1 122.2 C 114.7	750 851 760 811 781 949 <b>4902</b>	115.9 C 116.3 C 111.6 115.9 C 127.6 C 120.4 C	847 760 828 786 985	117.5 C 115.7 C 111.6 118.3 C 128.4 C 125.0 C	857 776 842 805 1007	117.5 C 117.1 C 114.0 120.3 C 131.5 C 127.8 C 121.3 C	860 765 852 812 1010	118.7 C 117.5 C 112.3 121.7 C 132.7 C 128.2 C 121.8 C	868 763 860 826 1017	119.6 C 118.6 C 112.0 C 122.9 C 135.0 C 129.1 C	881 757 847 839 1023	119.9 C 120.4 C 111.2 121.0 C 137.1 C 129.8 C
	Southeastern																											
	Atholton ES Bollman Bridge ES Forest Ridge ES Gorman Crossing ES Guilford ES Hammond ES Laurel Woods ES	NS	424 666 713 735 465 653 640 0	424 666 713 735 465 653 640 0	424 666 713 735 465 653 640 0	424 666 713 735 465 653 640 0	466 635 684 820 387 654 584	109.9 95.3 95.9 111.6 83.2 100.2 91.3	478 640 681 799 373 648 575	112.7 96.1 95.5 108.7 80.2 99.2 89.8	480 651 689 830 363 639 561	97.7 96.6 112.9 78.1 97.9 87.7	477 648 711 812 371 662 562	112.5 97.3 99.7 110.5 79.8 101.4 87.8	479 680 745 786 365 698 544	113.0 102.1 104.5 106.9 78.5 106.9 85.0	476 693 764 777 376 720 529	112.3 104.1 107.2 105.7 80.9 110.3 82.7	477 707 811 746 412 730 518	112.5 106.2 113.7 101.5 88.6 111.8 80.9	474 692 865 777 412 733 533	111.8 103.9 121.3 C 105.7 88.6 112.3 83.3	766 424 802 545	112.7 104.8 126.6 C 104.2 91.2 122.8 C 85.2	480 688 927 770 423 849 552	113.2 103.3 130.0 C 104.8 91.0 130.0 C 86.3	485 683 938 758 422 898 576	114.4 102.6 131.6 C 103.1 90.8 137.5 C 90.0
	Region Totals		4296	4296	4296	4296	4230	98.5	4194	97.6	4213	98.1	4243	98.8	4297	84.5	4335	85.3	4401	86.6	4486	88.2	4616	90.8	4689	92.2	4760	93.6
	Western Bushy Park ES Clarksville ES Dayton Oaks ES Fulton ES Lisbon ES Pointers Run ES Triadelphia Ridge ES West Friendship ES Region Totals		744 543 675 826 527 744 581 414	744 543 675 826 527 744 581 414	744 543 675 826 527 744 581 414	744 543 675 826 527 744 581 414	561 393 587 1016 473 825 572 386	75.4 72.4 87.0 123.0 C 89.8 110.9 98.5 93.2 95.2	569 380 585 1059 483 832 577 409	76.5 70.0 86.7 128.2 <b>C</b> 91.7 111.8 99.3 98.8	537 385 586 1100 507 857 583 419	72.2 70.9 86.8 133.2 C 96.2 115.2 C 100.3 101.2	516	71.9 73.1 86.4 134.7 0 97.9 121.0 0 103.8 105.1	532	71.0 70.0 86.5 137.0 C 100.9 123.5 C 109.5 112.6	549	71.6 67.8 86.1 135.4 C 104.2 127.0 C 111.2 121.0 C	544 952 666	73.3 71.3 85.2 136.1 C 103.2 128.0 C 114.6 128.3 C	553 947 690	73.0 72.0 84.4 134.5 C 104.9 127.3 C 118.8 C 130.4 C	584 925 677	76.2 72.4 82.8 132.6 C 110.8 124.3 C 116.5 C 132.1 C	603 396 548 1098 600 894 658 558	81.0 72.9 81.2 132.9 C 113.9 120.2 C 113.3 134.8 C	635 397 533 1090 620 862 633 572	85.3 73.1 79.0 132.0 C 117.6 C 115.9 C 109.0 138.2 C
	Countywide Totals		25749	25749		25912		98.2	25598		25977	100.3	26395		26965		27525		28071	105.1	28580		29154		29470		29673	104.9

Countywide Totals 25749 25749 25912 25912 25297 9
'A' includes additions as reflected in FY 2019 CIP for Grades K-5
'NS' New School proposed in FY 2019 Capital Budget
R' Replacement School proposed in FY 2019 Capital Budget

Post-Measures								ELEMI	ENTA	RY SC	HOC	DLS - I	Data	for D	emor	strati	ve Pı	ırpose	s Oi	nlv						
Aggregate Plan Chart reflects May 201	8 Projec	tions F	Roard c	of Educ	ation's	EX 2020		acity U	tilizatio	n Rate	s with	Propos						ts - Not			)					
Columbia - East Cradlerock ES Jeffers Hill ES Phelps Luck ES Stevens Forest ES	2019 398 421 597 399	2020 398 421 597 399		2022 398 421 597 399	20	19-20 % Util.		<b>20-21 % Util.</b> 112.8 98.6 89.8 101.8	20	<b>21-22 % Util.</b> 111.8 98.1 92.3 100.3	20	<b>22-23 % Util.</b> 109.3 93.3 93.0 101.0	Proj 444 400 578 405	<b>% Util.</b> 111.6 95.0 96.8 101.5	20 Proj 450 396 577 410	<b>24-25 % Util.</b> 113.1 94.1 96.6 102.8		<b>25-26 % Util.</b> 112.6 94.8 99.8 102.0		<b>% Util. 114.3 95.5 100.8 103.8</b>	20 Proj 464 411 609 420	<b>27-28 % Util.</b> 116.6 C 97.6 102.0 105.3	Proj	28-29 % Util. 118.3 ( 98.8 103.0 106.3	Proj	<b>29-30 % Util. 120.1 C 100.2 104.4 107.3</b>
Talbott Springs ES Thunder Hill ES Region Totals	377 509 <b>2701</b>	377 509 <b>2701</b>	377 509 <b>2701</b>	540 509 <b>2864</b>	459 518 <b>2784</b>	121.8 101.8	507 <b>2785</b>	125.2 <b>C</b> 99.6	460 486 <b>2755</b>	122.0 <b>C</b> 95.5	463 484 <b>2733</b>	85.7 95.1 95.4	464 476 <b>2767</b>	85.9 93.5 96.6	453 474 <b>2760</b>	83.9 93.1 96.4	458 474 <b>2782</b>	84.8 93.1 97.1	461 472 <b>2806</b>	85.4 92.7 98.0	475 490 <b>2869</b>	88.0 96.3 100.2	481 496 <b>2903</b>	89.1 97.4 101.4	488 505 <b>2944</b>	90.4 99.2 102.8
Columbia - West						100.1		1		102.0		70.1		7 0.0		7011		77.11		70.0		100.2				102.0
Bryant Woods ES Clemens Crossing ES Longfellow ES New ES #45	361 521 512 5 0	361 521 512 0	361 521 512 0	361 521 512 0	402 508 400	111.4 97.5 78.1	408 543 401	113.0 104.2 78.3	418 593 403	115.8 <b>C</b> 113.8 78.7	638 417	117.2 ( 122.5 ( 81.4			C 439 C 713 425	121.6 C 136.9 C 83.0		122.2 <b>C</b> 140.3 <b>C</b> 84.2		123.5 ( 146.8 ( 85.4	C 452 C 783 445	125.2 C 150.3 C 86.9		126.0 ( 154.1 ( 87.5	2 454 815 453	125.8 <b>C</b> 156.4 <b>C</b> 88.5
Running Brook ES Swansfield ES <b>Region Totals</b>	515 694 <b>2603</b>	515 694 <b>2603</b>	515 694 <b>2603</b>	515 694 <b>2603</b>	528 591 <b>2429</b>	102.5 85.2 93.3	559 590 <b>2501</b>	108.5 85.0 96.1	600 576 <b>2590</b>	116.5 C 83.0 99.5	579 <b>2703</b>	125.4 ( 83.4 103.8	673 573 <b>2770</b>	82.6	708 574 <b>2859</b>	137.5 C 82.7 109.8	742 580 <b>2925</b>	144.1 <b>C</b> 83.6 112.4	785 584 <b>3017</b>	152.4 <b>6</b> 84.1 115.9 <b>6</b>	595	163.3 <b>C</b> 85.7	601	172.8 <b>6</b> 86.6	607	181.9 C 87.5
Northeastern																										
Bellows Spring ES Deep Run ES Ducketts Lane ES Elkridge ES Hanover Hills ES	751 750 694 760 810	751 750 694 760 810	751 750 694 760 810	751 750 694 760 810	678 686 678 840 689	90.3 91.5 97.7 110.5 85.1	737 706 664 842 782	98.1 94.1 95.7 110.8 96.5	784 746 662 828 879	104.4 99.5 95.4 108.9 108.5	825 772 651 812 979	109.9 102.9 93.8 106.8 120.9	855 797 639 794 1071	113.8 106.3 92.1 104.5 132.2	879 816 643 799 C 1105	117.0 C 108.8 92.7 105.1 136.4 C	837 634 826	119.3 <b>C</b> 111.6 91.4 108.7 141.9 <b>C</b>	842 658 869	112.3 94.8 114.3	864 860 677 923 C 1219	115.0 C 114.7 97.6 121.4 C 150.5 C	872 684 971	98.6 127.8 <b>(</b>	817 886 684 986 1245	108.8 118.1 C 98.6 129.7 C 153.7 C
Ilchester ES Rockburn ES Veterans ES Waterloo ES	584 609 799 663	584 609 799 663	584 609 799 663	584 609 799 663	555 542 870 562	95.0 89.0 108.9 84.8	536 560 853 581	91.8 92.0 106.8 87.6	523 570 851 560	89.6 93.6 106.5 84.5	514 584 840 573	88.0 95.9 105.1 86.4	559 610 848 563	95.7 100.2 106.1 84.9	610 657 834 577	104.5 107.9 104.4 87.0	635 706 861 590	108.7 115.9 C 107.8 89.0	652 714 903 595	111.6 117.2 113.0 89.7	689	118.0 C 119.9 C 114.4 90.6	694	118.8 (120.4 (114.5 92.0	678	116.1 C 120.7 C 114.6 94.0
Worthington ES Region Totals	515 <b>6935</b>	515 <b>6935</b>	515 <b>6935</b>	515 <b>6935</b>	458 <b>6558</b>	88.9 94.6	445 <b>6706</b>	86.4 96.7	432 <b>6835</b>	83.9 98.6	447 <b>6997</b>	86.8	469 <b>7205</b>	91.1	508 <b>7428</b>	98.6 107.1	539 <b>7673</b>	104.7	574 <b>7879</b>	111.5 113.6	662 <b>8139</b>	128.5 <b>C</b>		131.3 <b>(</b>		129.7 <b>C</b> 118.8 <b>C</b>
Northern																										
Centennial Lane ES Hollifield Station ES Manor Woods ES New ES #44	647 732 681 0	647 732 681 0	647 732 681 0	647 732 681 0	752 821 653	116.2 ( 112.2 95.9	746 835 665	115.3 <b>C</b> 114.1 97.7	749 849 693	115.8 C 116.0 C 101.8		116.1 <b>(</b> 114.6 102.6	745 833 748	115.1 ( 113.8 109.8	750 851 760	115.9 C 116.3 C 111.6		117.5 <b>C</b> 115.7 <b>C</b> 111.6	760 857 776	117.5 ( 117.1 ( 114.0	768 860 765	118.7 C 117.5 C 112.3		119.6 118.6 112.0		119.9 C 120.4 C 111.2
Northfield ES St Johns Lane ES Waverly ES A Region Totals	700 612 788 <b>4160</b>	700 612 788 <b>4160</b>	700 612 788 <b>4160</b>	700 612 788 <b>4160</b>	729 705 823 <b>4483</b>	104.1 115.2 104.4 107.8	735 691 846 <b>4518</b>	105.0 112.9 107.4 108.6	743 710 866 <b>4610</b>	106.1 116.0 <b>C</b> 109.9	748 730 870 <b>4637</b>	106.9 119.3 110.4 111.5	771 748 904 <b>4749</b>	110.1 122.2 114.7 114.2	811 781 949 <b>4902</b>	115.9 C 127.6 C 120.4 C	786 985	118.3 C 128.4 C 125.0 C 119.4 C	805 1007	120.3 (131.5 (127.8 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (121.3 (12	C 812 C 1010	121.7 C 132.7 C 128.2 C	826	122.9 ( 135.0 ( 129.1 ( 107.3	839	121.0 C 137.1 C 129.8 C
Southeastern																										
Atholton ES Bollman Bridge ES Forest Ridge ES Gorman Crossing ES Guilford ES Hammond ES Laurel Woods ES	424 666 713 735 465 653 640	424 666 713 735 465 653 640	424 666 713 735 465 653 640	424 666 713 735 465 653 640	466 635 684 820 387 654 584	109.9 95.3 95.9 111.6 83.2 100.2 91.3	478 640 681 799 373 648 575	112.7 96.1 95.5 108.7 80.2 99.2 89.8	480 651 689 830 363 639 561	113.2 97.7 96.6 112.9 78.1 97.9 87.7	477 648 711 812 371 662 562	112.5 97.3 99.7 110.5 79.8 101.4 87.8	479 680 745 786 365 698 544	113.0 102.1 104.5 106.9 78.5 106.9 85.0	476 693 764 777 376 720 529	112.3 104.1 107.2 105.7 80.9 110.3 82.7	477 707 811 746 412 730 518	112.5 106.2 113.7 101.5 88.6 111.8 80.9	474 692 865 777 412 733 533	111.8 103.9 121.3 105.7 88.6 112.3 83.3	478 698 903 766 424 802 545	112.7 104.8 126.6 104.2 91.2 122.8 85.2	770 423	113.2 103.3 130.0 104.8 91.0 130.0 86.3	758 422	114.4 102.6 131.6 C 103.1 90.8 137.5 C 90.0
New ES #43	4296	0 <b>4296</b>	0 <b>4296</b>	0 <b>4296</b>	4230	98.5	4194	97.6	4213	98.1	4243	98.8	4297	87.8	4335	88.5	4401	89.9	4486	91.6	4616	94.3	4689	95.8	4760	97.2
Region Totals										70.0	525	71.9	500	71.0	F20	71 /	F.45	72.2	F 40	72.0	F/7	7/ 0	/02	81.0	635	05.2
Western													528	71.0	533	71.6	545	73.3	543	73.0	567	76.2	603	81 N	635	85.3
	744 543 675 826 527 744 581	744 543 675 826 527 744 581	744 543 675 826 527 744 581	744 543 675 826 527 744 581	561 393 587 1016 473 825 572	75.4 72.4 87.0 123.0 89.8 110.9 98.5	483 832 577	76.5 70.0 86.7 128.2 C 91.7 111.8 99.3	507 857 583	72.2 70.9 86.8 133.2 C 96.2 115.2 C 100.3	516 900 603	73.1 86.4 134.7 97.9 121.0 103.8	380 584	100.9 123.5 109.5	368 581 1118 549 C 945 646	67.8 86.1 135.4 C 104.2 127.0 C 111.2	544 952 666	71.3 85.2 136.1 <b>C</b> 103.2 128.0 <b>C</b> 114.6	690	72.0 84.4 134.5 104.9 127.3 118.8	584 C 925 C 677	72.4 82.8 132.6 110.8 124.3 116.5	396 548 1098 600 894 658	72.9 81.2 132.9 113.9 120.2 113.3	397 533 1090 620 862 633	73.1 79.0 132.0 C 117.6 C 115.9 C 109.0
Western Bushy Park ES Clarksville ES Dayton Oaks ES Fulton ES Lisbon ES Pointers Run ES	543 675 826 527 744 581 414 <b>5054</b>	543 675 826 527 744 581 414 <b>5054</b>	543 675 826 527 744	543 675 826 527 744 581 414 <b>5054</b>	393 587 1016 473 825 572 386 <b>4813</b>	72.4 87.0 123.0 89.8 110.9 98.5 93.2 95.2	380 585 1059 483 832 577 409 <b>4894</b>	70.0 86.7 128.2 <b>C</b> 91.7 111.8 99.3 98.8	385 586 1100 507 857	70.9 86.8 133.2 C 96.2 115.2 C 100.3 101.2 98.4	397 583 1113 516 900 603 435 <b>5082</b>	73.1 86.4 134.7 97.9 121.0	380 584 1132 532 919 636 466 <b>5177</b>	86.5 137.0 100.9 123.5 109.5 112.6	581 C 1118 549 C 945 646 501 <b>5241</b>	86.1 135.4 C 104.2 127.0 C	575 1124 544 952 666 531 5324	85.2 136.1 C 103.2 128.0 C 114.6 128.3 C	570 1111 553 947 690 540 <b>5345</b>	84.4 134.5 104.9 127.3	559 1095 584 2 925 677 2 547 5347	82.8 132.6 C 110.8 124.3 C	396 548 1098 600 894 658 558	72.9 81.2 132.9 113.9 120.2 113.3 134.8	397 533 1090 620 862 633 572 5342	73.1 79.0 132.0 C 117.6 C 115.9 C 109.0 138.2 C

'A' includes additions as reflected in FY 2020 CIP for Grades K-5 'NS' New School proposed in FY 2020 Capital Budget

Pre-Measures										SCHC																
								ition Rat					n's Ap	oroved	FY 20	19 Cap	ital Bud	dget Pro	ojects	- Not Te	est for	APFO				
hart reflects May 201	8 Projec	ctions, I	Board c	of Educ	ation's	FY 2019	approve	ed capac	ities, a	nd no rec	districtir	ıg.														
		Cap	acity		20	19-20	20:	20-21	20	21-22	20	22-23	20	23-24	20	24-25	202	25-26		26-27	20	027-28	20	28-29	20	29-30
Columbia - East	2019	2020	2021	2022		% Util.		% Util.	Proj	% Util.	Proj	% Util.	Proj	% Util.	Proj	% Util.	Proj	% Util.	Proj	% Util.	Proj	% Util.	Proj	% Util.	Proj	% Uti
ake Elkhorn MS	643	643	643	643	596	92.7	599	93.2	586	91.1	596	92.7	564	87.7	567	88.2	543	84.4	557	86.6	552	85.8	557	86.6	564	87.7
Dakland Mills MS	506	506	506	506	510	100.8	498	98.4	493	97.4	497	98.2	515	101.8	514	101.6	518	102.4	524	103.6	502	99.2	503	99.4	500	98.8
egion MS Totals	1149	1149	1149	1149	1106	96.3	1097	95.5	1079	93.9	1093	95.1	1079	93.9	1081	94.1	1061	92.3	1081	94.1	1054	91.7	1060	92.3	1064	92.6
olumbia - West																										
larpers Choice MS	506	506	506	506	552	109.1	539	106.5	533	105.3	509	100.6	522	103.2	506	100.0	512	101.2	500	98.8	505	99.8	514	101.6	515	101.8
Wilde Lake MS	760	760	760	760	643	84.6	644	84.7	653	85.9	695	91.4	749	98.6	815	107.2	867	114.1	882	116.1 C	919	120.9	C 948	124.7	C 1005	132.2
Region MS Totals	1266	1266	1266	1266	1195	94.4	1183	93.4	1186	93.7	1204	95.1	1271	100.4	1321	104.3	1379	108.9	1382	109.2	1424	112.5	1462	115.5	<b>C</b> 1520	120.1
Northeastern																										
onnie Branch MS	701	701	701	701	816	116.4	C 814	116.1 C	795	113.4	787	112.3	805	114.8	796	113.6	774	110.4	775	110.6	793	113.1	821	117.1	C 836	119.
Ikridge Landing MS	779	779	779	779	726	93.2	696	89.3	692	88.8	711	91.3	733	94.1	728	93.5	707	90.8	720	92.4	758	97.3	794	101.9	814	104.
illicott Mills MS A		701	701	701	913		2 900	128.4 <b>C</b>		126.1 <b>C</b>		120.7 <b>C</b>		120.4 C		94.5	811	94.6	811	94.6	805	93.9	816	95.2	847	98.8
Mayfield Woods MS	798	798	798	798	807	101.1	817	102.4	825	103.4	807	101.1	821	102.9	860	107.8	888	111.3	919	115.2 <b>C</b>		118.7		122.8		124.
homas Viaduct MS	701	701	701	701	820		2 904	102.4 129.0 <b>C</b>		125.5 <b>C</b>		126.0 <b>C</b>		102.7 123.1 <b>C</b>		130.5 <b>C</b>		137.5 <b>C</b>		148.4 C				159.5		
Region MS Totals	3680	3680	3680	3680	4082	110.9	4131	112.3	4076	110.8	4034	109.6	4066	110.5	4109	107.1	4144	108.0	4265	111.2	4388		4529		C 4615	
Northern																										
Burleigh Manor MS	779	779	779	779	771	99.0	778	99.9	762	97.8	770	98.8	757	97.2	769	98.7	777	99.7	786	100.9	780	100.1	776	99.6	784	100.
Dunloggin MS A		565	565	565	647	114.5	650	115.0 <b>C</b>	000	118.2 <b>C</b>		119.5 C		118.6 <b>C</b>		99.4	658	99.4	668	100.9	676	102.1	676	102.1	700	105.7
Patapsco MS	643	643	643	643	724	112.6	718	111.7	712	110.7	714	111.0	716	111.4	705	109.6	712	110.7	721	112.1	741	115.2		115.9		117.7
Region MS Totals	1987	1987	1987	1987	2142	107.8	2146	108.0	2142	107.8	2159	108.7	2143	107.9	2132	102.3	2147	103.0	2175	104.4	2197	105.4	2197	105.4	2241	107.5
Southeastern																										
lammond MS	604	604	604	604	565	93.5	600	99.3	587	97.2	631	104.5	633	104.8	659	109.1	665	110.1	690	114.2	694	114.9	705	116.7	<b>C</b> 719	119.0
Aurray Hill MS	662	662	662	662	748	113.0	783	118.3 C	777	117.4 C	748	113.0	774	116.9 C	800	120.8 C	822	124.2 C	775	117.1 <b>C</b>	758	114.5	724	109.4	741	111.9
Patuxent Valley MS	760	760	760	760	675	88.88	701	92.2	692	91.1	689	90.7	656	86.3	664	87.4	639	84.1	681	89.6	677	89.1	713	93.8	716	94.2
egion MS Totals	2026	2026	2026	2026	1988	98.1	2084	102.9	2056	101.5	2068	102.1	2063	101.8	2123	104.8	2126	104.9	2146	105.9	2129	105.1	2142	105.7	2176	
Vestern																										
Clarksville MS	643	643	643	643	695	108.1	686	106.7	665	103.4	630	98.0	633	98.4	644	100.2	642	99.8	620	96.4	631	98.1	664	103.3	684	106.
olly Quarter MS	662	662	662	662	674	100.1	653	98.6	658	99.4	651	98.3	651	98.3	645	97.4	654	98.8	655	98.9	660	99.7	668	100.9	683	103.
Glenwood MS	545	545	545	545	507	93.0	517	94.9	512	93.9	485	89.0	487	89.4	469	86.1	479	87.9	499	91.6	526	96.5	546	100.7	560	103.
ime Kiln MS	701	701	701	701	641	91.4	651	92.9	638	91.0	680	97.0	701	100.0	731	104.3	729	104.0	739	105.4	752	107.3	763	100.2	767	102.
Mount View MS	701 798	798	701 798	701 798	834	104.5	803	100.6	813	101.9	828	103.8	821	100.0	796	99.7	729 793	99.4	838	105.4	732 898	112.5	763 919	115.2		117.
Region MS Totals	3349	3349	3349	3349	3351	104.5	3310	98.8	3286	98.1	3274	97.8	3293	98.3	3285	99.7	3297	98.4	3351	100.1	3467	103.5	3560	106.3		108.
Countywide Totals A' includes additions o			13457				13951	103./	13825	102.7	13832	102.8	13915	103.4	14051	102.5	14154	103.2	14400	105.0	14659	106.9	14950	109.0	15248	111.2

Post-Measures														- Dat														
Aggregate Plan								Co	apacit	y Utiliz	zatio	n Rates	with	Propose	d FY	2020 C	apital B	Budget I	Project:	s - Not T	est for	APFO						
Chart reflects May 20	18 Pr	ojectior			ducatio					ies and																		
				acity			19-20		20-21			1-22		22-23		23-24		24-25		25-26		26-27		27-28		28-29		29-30
Columbia - East		2019					% Util.	•	% Util.			% Util.	•	% Util.		% Util.	Proj			% Util.		% Util.		% Util.		% Util.		% Ut
Lake Elkhorn MS		643	643	643	643	596	92.7	599	93.2			91.1	596	92.7	564	87.7	567	88.2	543	84.4	557	86.6	552	85.8	557	86.6	564	87.
Oakland Mills MS		506	506	506	506	510	100.8	498	98.4			97.4	497	98.2	515	101.8	514	101.6	518	102.4	524	103.6	502	99.2	503	99.4	500	98.
Region MS Totals		1149	1149	1149	1149	1106	96.3	1097	95.5	10	079	93.9	1093	95.1	1079	93.9	1081	94.1	1061	92.3	1081	94.1	1054	91.7	1060	92.3	1064	92.
Columbia - West																												
Harpers Choice MS		506	506	506	506	552	109.1	539	106.5	5	33	105.3	509	100.6	522	103.2	506	100.0	512	101.2	500	98.8	505	99.8	514	101.6	515	101
Wilde Lake MS		760	760	760	760	643	84.6	644	84.7			85.9	695	91.4	749	98.6	815	107.2	867	114.1	882	116.1 C		120.9 C	948	124.7 C		132
Region MS Totals		1266	1266	1266	1266	1195	94.4	1183	93.4		186	93.7	1204	95.1	1271	100.4	1321	104.3	1379	108.9	1382	109.2	1424	112.5	1462	115.5 C	1520	120
North contour																												
Northeastern		701	701	701	701	01/	11//	01.4	1171		, o c	110.4	707	110.0	005	1140	70.1	110 /	77.	110.4	775	110 /	700	110.1	001	1171 0	007	1.2
Bonnie Branch MS		701	701	701	701	816	116.4 C	0	116.1			113.4	787	112.3	805	114.8	796	113.6	774	110.4	775	110.6	793	113.1	821	117.1 C		119
Elkridge Landing MS		779	779	779	779	726	93.2	696	89.3	-	92	88.8	711	91.3	733	94.1	728	93.5	707	90.8	720	92.4	758	97.3	794	101.9	814	10
Ellicott Mills MS	Α	701	701	701	701	913	130.2 <b>C</b>		128.4			126.1 <b>C</b>	846	120.7 <b>C</b>	844	98.5	810	94.5	811	94.6	811	94.6	805	93.9	816	95.2	847	98
Mayfield Woods MS		798	798	798	798	807	101.1	817	102.4	-		103.4	807	101.1	821	102.9	860	107.8	888	111.3	919	115.2 C		118.7 <b>C</b>		122.8 C		12
Thomas Viaduct MS		701	701	701	701	820	117.0 C		129.0			125.5 <b>C</b>	883	126.0	863		915		C 964	137.5 C		148.4 C		154.8 <b>C</b>		159.5 C		16
Region MS Totals		3680	3680	3680	3680	4082	110.9	4131	112.3	4(	076	110.8	4034	109.6	4066	106.0	4109	107.1	4144	108.0	4265	111.2	4388	114.4	4529	118.1 C	4615	120
Northern																												
Burleigh Manor MS		779	779	779	779	771	99.0	778	99.9	7	62	97.8	770	98.8	757	97.2	769	98.7	777	99.7	786	100.9	780	100.1	776	99.6	784	100
Dunloggin MS	Α	565	565	565	565	647	114.5	650	115.0	<b>C</b> 6	68	118.2 <b>C</b>	675	119.5 C	670	118.6	658	99.4	658	99.4	668	100.9	676	102.1	676	102.1	700	10
Patapsco MS		643	643	643	643	724	112.6	718	111.7	7	12	110.7	714	111.0	716	111.4	705	109.6	712	110.7	721	112.1	741	115.2 <b>C</b>	745	115.9 C	757	110
Region MS Totals		1987	1987	1987	1987	2142	107.8	2146	108.0	2	142	107.8	2159	108.7	2143	107.9	2132	102.3	2147	103.0	2175	104.4	2197	105.4	2197	105.4	2241	10
Southeastern																												
Hammond MS		604	604	604	604	565	93.5	600	99.3	5	87	97.2	631	104.5	633	104.8	659	109.1	665	110.1	690	114.2	694	114.9	705	116.7 C	719	119
Murray Hill MS		662	662	662	662	748	113.0	783	118.3			117.4 C	748	113.0	774	116.9		120.8	C 822	124.2 C	775	117.1 C	758	114.5		109.4	741	-11
Patuxent Valley MS		760	760	760	760	675	88.8	701	92.2			91.1	689	90.7	656	86.3	664	87.4	639	84.1	681	89.6	677	89.1	713	93.8	716	94
Region MS Totals		2026	2026	2026		1988	98.1	2084	102.9			101.5	2068	102.1	2063	101.8	2123	104.8	2126	104.9	2146		2129		2142		2176	
Western																												
Clarksville MS		643	643	643	643	695	108.1	686	106.7	6	65	103.4	630	98.0	633	98.4	644	100.2	642	99.8	620	96.4	631	98.1	664	103.3	684	10
Folly Quarter MS		662	662	662	662	674	101.8	653	98.6			99.4	651	98.3	651	98.3	645	97.4	654	98.8	655	98.9	660	99.7	668	100.9	683	103
Glenwood MS		545	545	545	545	507	93.0	517	94.9			93.9	485	89.0	487	89.4	469	86.1	479	87.9	499	91.6	526	96.5	546	100.7	560	102
Lime Kiln MS		701	701	701	701	641	91.4	651	92.9			91.0	680	97.0	701	100.0	731	104.3	729	104.0	739	105.4	752	107.3	763	100.2	767	10
Mount View MS		798	798	798	798	834	104.5	803	100.6			101.9	828	103.8	821	100.0	796	99.7	793	99.4	838	105.4	898	112.5	919	115.2 C		117
Region MS Totals		3349	3349	3349	3349	3351	104.3	3310	98.8			98.1	3274	97.8	3293	98.3	3285	98.1	3297	98.4	3351	100.1	3467	103.5	3560	106.3	3632	
Region Mo Totals				13457				13951				102.7	13832			102.2	14051			103.2	14400			106.9		109.0	15248	

'A' includes additions as reflected in FY 2020 CIP for Grades 6-8

re-Measures								GH SC																		
				Ca	pacity	/ Utilizat	ion Rat	es with	Board	of Edu	cation'	s Appr	oved F	Y 2019	Capito	al Budg	get Proj	jects - t	Not Tes	t for Af	PFO					
Chart reflects May 2	2018 Pr			of Educ			pproved	d capaci																		
		Caj	acity			19-20		20-21		21-22		22-23		3-24		4-25		25-26		6-27		27-28		8-29		9-30
Columbia - East	20			2022		% Util.		% Util.		% Util.		% Util.		% Util.		% Util.		% Util.		% Util.		% Util.		% Util.		% Util.
Dakland Mills HS	140	0 1400	1400	1400	1248	89.1	1260	90.0	1319	94.2	1361	97.2	1379	98.5	1383	98.8	1382	98.7	1362	97.3	1377	98.4	1377	98.4	1363	97.4
Columbia - West																										
Vilde Lake HS	142	4 1424	1424	1424	1350	94.8	1380	96.9	1376	96.6	1381	97.0	1399	98.2	1382	97.1	1386	97.3	1429	100.4	1444	101.4	1482	104.1	1523	107.0
Northeastern Howard HS	142	0 1420	1420	1420	1972	138.9	1973	138.9	2017	142.0	2047	144.2	2075	146.1	2086	146.9	2090	147.2	2075	146.1	2084	146.8	2066	145.5	2062	145.2
ona Reach HS	142			1420	1673	138.9	1778	138.9	1919	142.0	2047	138.2	2075	146.1	2086	146.9	2090	144.3	2075	146.1	2166	146.8	2066	145.5	2364	145.2
	NS ()	8 1488 N	1488	1488 N	16/3	112.4	1//8	119.5	1919	129.0	2056	138.2	2133	143.3	2126	142.9	214/	144.3	2123	142./	2166	145.6	22/0	152.6	2364	158.9
legion HS Totals	290	•	0	2908	3645	125.3	3751	129.0	3936	135.4	4103	141.1	4208	93.0	4212	93.1	4237	93.7	4198	92.8	4250	94.0	4336	95.9	4426	97.9
Northern																										
Centennial HS	136		1360	1360	1745	128.3	1765	129.8	1782	131.0	1782	131.0	1772	130.3	1775	130.5	1766	129.9	1755	129.0	1743	128.2	1742	128.1	1736	127.6
Marriotts Ridge HS	16		1615	1615	1425	88.2	1476	91.4	1499	92.8	1518	94.0	1499	92.8	1491	92.3	1503	93.1	1475	91.3	1462	90.5	1452	89.9	1453	90.0
Mt Hebron HS	140		1400	1400	1605	114.6	1601	114.4	1687	120.5	1701	121.5	1679	119.9	1694	121.0	1674	119.6	1659	118.5	1659	118.5	1656	118.3	1649	117.8
Region HS Totals	437	5 4375	4375	4375	4775	109.1	4842	110.7	4968	113.6	5001	114.3	4950	113.1	4960	113.4	4943	113.0	4889	111.7	4864	111.2	4850	110.9	4838	110.6
Southeastern																										
Hammond HS	A 122	0 1220	1220	1220	1376	112.8	1402	114.9	1471	120.6	1517	124.3	1585	111.6	1634	115.1	1654	116.5	1621	114.2	1648	116.1	1675	118.0	1689	118.9
Western																										
Atholton HS	146	0 1460	1460	1460	1526	104.5	1561	106.9	1572	107.7	1604	109.9	1654	113.3	1637	112.1	1647	112.8	1683	115.3	1705	116.8	1769	121.2	1804	123.6
Glenela HS	140			1460	1178	83.0	1140	80.3	1162	81.8	1147	80.8	1155	81.3	1161	81.8	1135	79.9	1122	79.0	1122	79.0	1135	79.9	1175	82.7
•	15		1551	1551	1626	104.8	1715	110.6	1745	112.5	1786	115.2	1836	118.4	1850	119.3	1874	120.8	1914	123.4	1925	124.1	1973	127.2	1972	127.1
Reservoir HS										99.2	1/86					97.1										
River Hill HS Region HS Totals	14d 589		1466 5897	1466 5897	1397 5727	95.3 97.1	1432 5848	97.7 99.2	1455 5934	100.6	5956	96.8	1454 6099	99.2 103.4	1423 6071	103.0	1407 6063	96.0 102.8	1412 6131	96.3	1411 6163	96.2 104.5	1411 6288	96.2 106.6	1424 6375	97.1 108.1
Countywide Totals	172					105.2	18483	107.3	19004		19319	112.2	19620	103.4	19642	103.0	19665	102.8	19630	104.0	19746	104.5	20008	105.1	20214	108.1

Post-Measures								ŀ	IIGH	SCHO	OLS	- Dat	a for	Dem	onstr	ative	Purpo	ses C	nly							
Aggregate Plan							Ca	pacity	Utilizati	on Rate	es with	Propos	ed FY	2020 C	Capital	Budge	t Projec	ts - No	t Test fo	or APF0	)					
Chart reflects May 2	2018 Proj	ections	, Board	d of Edu	ucation	n's FY 202	O Reque	ested ca	pacities	and no	redistrict	ing.														
		Cap	acity		20	19-20	20	20-21	20:	21-22	202	22-23	20:	23-24	20	24-25	202	5-26	202	26-27	20	27-28	202	28-29	20:	29-30
Columbia - East	2019	2020	2021	2022	Proj	% Util.	Proj	% Util.	Proj	% Util.	Proj	% Util.	Proj	% Util.	Proj	% Util.	Proj	% Util.	Proj	% Util.	Proj	% Util.	Proj	% Util.	Proj	% Util.
Oakland Mills HS	1400	1400	1400	1400	1248	89.1	1260	90.0	1319	94.2	1361	97.2	1379	98.5	1383	98.8	1382	98.7	1362	97.3	1377	98.4	1377	98.4	1363	97.4
Columbia - West																										
Wilde Lake HS	1424	1424	1424	1424	1350	94.8	1380	96.9	1376	96.6	1381	97.0	1399	98.2	1382	97.1	1386	97.3	1429	100.4	1444	101.4	1482	104.1	1523	107.0
Northeastern																										
Howard HS	1420	1420	1420	1420	1972	138.9	1973	138.9	2017	142.0	2047	144.2	2075	146.1	2086	146.9	2090	147.2	2075	146.1	2084	146.8	2066	145.5	2062	145.2
Long Reach HS	1488	1488	1488	1488	1673	112.4	1778	119.5	1919	129.0	2056	138.2	2133	143.3	2126	142.9	2147	144.3	2123	142.7	2166	145.6	2270	152.6	2364	158.9
14CW 115 11 15	NS O	0	0	0																						
Region HS Totals	2908	2908	2908	2908	3645	125.3	3751	129.0	3936	135.4	4103	141.1	4208	144.7	4212	93.1	4237	93.7	4198	92.8	4250	94.0	4336	95.9	4426	97.9
Northern	10/0	10/0	10/0	10/0	1745	100.0	17/5	100.0	1700	101.0	1700	101.0	1.770	100.0	1775	100.5	17//	100.0	1755	100.0	1740	100.0	1740	100.1	1707	107 (
Centennial HS	1360	1360	1360	1360	1745	128.3	1765	129.8	1782	131.0	1782	131.0	1772	130.3	1775	130.5	1766	129.9	1755	129.0	1743	128.2	1742	128.1	1736	127.6
Marriotts Ridge HS	1615	1615	1615 1400	1615	1425	88.2	1476	91.4	1499	92.8	1518	94.0	1499	92.8	1491	92.3	1503	93.1	1475	91.3	1462	90.5	1452	89.9	1453	90.0
Mt Hebron HS Region HS Totals	1400 4375	1400 4375		1400 4375	1605 4775	114.6	1601 4842	114.4	1687 4968	120.5	1701 5001	121.5	1679 4950	119.9	1694 4960	121.0	1674 4943	119.6	1659 4889	118.5	1659 4864	118.5	1656 4850	118.3	1649 4838	117.8 110.6
kegion na roidis	43/3	43/3	43/3	43/3	4//3	107.1	4042	110.7	4700	113.0	3001	114.3	4730	113.1	4700	113.4	4743	113.0	4007	111.7	4004	111.2	4030	110.7	4030	110.6
Southeastern																										
Hammond HS	1220	1220	1220	1220	1376	112.8	1402	114.9	1471	120.6	1517	124.3	1585	129.9	1634	115.1	1654	116.5	1621	114.2	1648	116.1	1675	118.0	1689	118.9
Traininona no	.220	·LLO	·LLO	· LLO	.0.0	112.0	02		, .	120.0		12 110	.000	12717	1001		.00.		.02.				10/0	110.0	1007	11011
Western																										
Atholton HS	1460	1460	1460	1460	1526	104.5	1561	106.9	1572	107.7	1604	109.9	1654	113.3	1637	112.1	1647	112.8	1683	115.3	1705	116.8	1769	121.2	1804	123.6
Glenelg HS	1420	1420	1420	1420	1178	83.0	1140	80.3	1162	81.8	1147	80.8	1155	81.3	1161	81.8	1135	79.9	1122	79.0	1122	79.0	1135	79.9	1175	82.7
Reservoir HS	1551	1551	1551	1551	1626	104.8	1715	110.6	1745	112.5	1786	115.2	1836	118.4	1850	119.3	1874	120.8	1914	123.4	1925	124.1	1973	127.2	1972	127.1
River Hill HS	1466	1466	1466	1466	1397	95.3	1432	97.7	1455	99.2	1419	96.8	1454	99.2	1423	97.1	1407	96.0	1412	96.3	1411	96.2	1411	96.2	1424	97.1
Region HS Totals	5897	5897	5897	5897	5727	97.1	5848	99.2	5934	100.6	5956	101.0	6099	103.4	6071	103.0	6063	102.8	6131	104.0	6163	104.5	6288	106.6	6375	108.1
Countywide Totals	17224	17224	17224	17224	18121	105.2	18483	107.3	19004	110.3	19319	112.2	19620	113.9	19642	103.2	19665	103.3	19630	103.1	19746	103.7	20008	105.1	20214	106.2

# PUBLIC SCHOOL ENROLLMENT ACTUAL FOR 1973-2017 AND ESTIMATED FOR 2018-2030

		Elementary	K-5	Middle	6-8	High	9-12	Sp. Ed. School	Sp Ed.	K-12	
	<u>Year</u>			Enrollment C	Change						Change
	1973	10,481	-	5,289	-	6,177	-	30	-	21,977	-
	1974	10,798	317	5,652	363	6,638	461	35	5	23,123	1,146
	1975	10,891	93	6,025	373	7,032	394	44	9	23,992	869
	1976	11,069	178	6,117	92	7,410	378	61	17	24,657	665
	1977	11,246	177	6,175	58	7,957	547	62	1	25,440	783
Α	1978	10,968	-278	6,080	-95	8,488	531	70	8	25,606	166
C	1979	10,627	-341	6,163	83	8,530	42	80	10		-206
Т	1980	10,261	-366	6,337	174	8,547	17	83	3	25,228	-172
U	1981	9,856	-405	6,409	72	8,468	-79	112	29	24,845	-383
Α	1982	9,486	-370	6,245	-164	8,387	-81	106	-6	24,224	-621
L	1983	9,414	-72	5,988	-257	8,458	71	103	-3	23,963	-261
	1984	9,808	394	5,597	-391	8,723	265	124	21	24,252	289
Ε	1985	10,439	631	5,496	-101	8,900	177	143	19	24,978	726
Ν	1986 1987	11,135	696	5,551	55	8,737	-163 -62	173 191	30 18	25,596	618
R	1987	12,155 13,225	1,020 1,070	5,727 5,776	176 49	8,675 8,441	-62 -234	147	-44	26,748 27,589	1,152
O L	1989	13,223	935	6,235	459	8,305	-136	136	- <del>44</del> -11	28,836	1,247
L	1990	15,001	841	6,603	368	8,248	-136 -57	150	14		1,166
M	1991	15,805	804	7,058	455	8,527	279	70	-80	31,460	1,458
Ε	1992	16,456	651	7,382	324	8,858	331	60	-10	32,756	1,296
N	1993	17,155	699	7,958	576	9,107	249	58	-2	34,278	1,522
T S	1994	17,767	612	8,510	552	9,611	504	62	4		1,672
5	1995	18,226	459	8,843	333	10,181	570	73	11	37,323	1,373
	1996	18,795	569	9,066	223	10,713	532	82	9	38,656	1,333
	1997	19,241	446	9,293	227	11,387	674	89	7	40,010	1,354
	1998	19,849	608	9,669	376	12,020	633	95	6	41,633	1,623
	1999	20,395	546	10,177	508	12,481	461	103	8	43,156	1,523
	2000	20,821	426	10,672	495	12,927	446	105	2		1,369
	2001	21,000	179	11,138	466	13,479	552	115	10	45,732	1,207
	2002	21,012	12	11,446	308	14,080	601	112	-3	46,650	918
	2003	20,792	-220	11,689	243	14,629	549	101	-11	47,211	561
	2004	20,498	-294	11,754	65	15,235	606	95	-6	47,582	371
	2005	20,412	-86	11,716	-38	15,580	345	87	-8	47,795	213
	2006	20,318	-94	11,889	173	15,858	278	90	3	48,155	360
	2007	20,550	232	11,740	-149	16,094	236	96	6	48,480	325
	2008	20,811	261	11,748	8	16,231	137	98	2	48,888	408
	2009	21,292	481	11,649	-99	16,657	426	85	-13	49,683	795
	2010	21,814	522	11,472	-177	16,614	-43	91	6	49,991	308
	2011	22,246	432	11,523	51	16,627	13	93	2		498
	2012	22,735	489	11,483	-40	16,660	33	91	-2		480
	2013	23,327	592	11,890	407	16,378	-282	86	-5	51,681	712
	2014	23,698	371	12,276	386	16,438	60	99	13	52,511	830
	2015	24,245	547	12,715	439	16,574	136	100	1	53,634	1,123
	2016	24,582	337	12,897	182	16,768	194	101	1	54,348	714
Р	2017	24,978	733	13,180	465	17,233	659	99	-1	55,490	1,856
R	2018	25,229	251	13,449	269	17,766	533	106	7	56,550	1,060
Ō	2019	25,297	68	13,864	415	18,121	355	106	0	57,388	838
J	2020	25,598	301	13,951	87	18,483	362	106	0	58,138	750
E C	2021	25,977	379	13,825	-126	19,004	521	106	0	58,912	774
T	2022	26,395	418	13,832	7	19,319	315	106	0	59,652	740
i	2023	26,965	570	13,915	83	19,620	301	106	0	60,606	954
0	2024	27,525	560	14,051	136	19,642	22	106	0	61,324	718
N	2025	28,071	546	14,154	103	19,665	23	106	0	61,996	672
S	2026	28,580	509	14,400	246	19,630	-35	106	0	62,716	720
	2027	29,154	574	14,659	259	19,746	116	106	0	63,665	949
	2028	29,470	316	14,950	291	20,008	262	106	0	64,534	869
	2029	29,673	203	15,248	298	20,214	206	106	0	65,241	707
	2030	29,818 (1) All "actual"	348	15,581	631	20,453	445	106	0	65,958	1,424

Notes: (1) All "actual" enrollments are head count as of September 30th.

<sup>(2) &</sup>quot;Change" column indicates change from prior year.

<sup>(3)</sup> Preschool enrollments are not included in these figures.

<sup>(4)</sup> Cedar Lane School's projected enrollment is based on Cedar Lane School's September 30, 2017 enrollment

## Facility Use, Acreage, and Capital Projects

HCPSS Elementary Schools	Acreage	Current Relocatables	Original Construction Cost	Initially Complete	Renovations (R), Additions (A), Conversion (C), Projects
Atholton ES	12.31	3	\$ 447,569	1961	1980(A), 2001(R), 2002(R), 2006, 2007
Bellows Spring ES	40.00	5	\$ 15,105,663	2003	2009(A), 2011(A)
Bollman Bridge ES	16.95	2	\$ 6,274,000	1988	1994(A), 2008(C),2013(R/A)
Bryant Woods ES	9.25	4	\$ 695,406	1968	1983, 1984(A), 2004(R), 2007
Bushy Park ES	19.20	0	\$ 24,000,000	2007	(Replacement) replaced Old Bushy Park with a new school
Centennial Lane ES	11.22	6	\$ 1,101,140	1973	1987(A), 2007(R), 2008(A)
Clarksville ES	10.69	1	\$ 435,986	1964	1980(A), 1986 HVAC, 2002(R), 2006
Clemens Crossing ES	10.80	3	\$ 1,853,590	1979	1988(A), 2009(R)
Cradlerock ES	33.16	3	\$ 4,249,000	1976	1998(A), 2001(R), 2003(R), 2007, 1996 Dasher Green Head Start
Dayton Oaks ES*	22.74	0	\$ 21,804,000	2006	New school 2006
Deep Run ES	11.67	1	\$ 6,403,575	1990	1998(A), 2009(A), 2016 (R)
Ducketts Lane ES	10.03	0	\$ 34,447,000	2013	New school 2013
Elkridge ES	48.581 shared	4	\$ 7,139,588	1992	1998, 2009(A)
Forest Ridge ES**	20.85	5	\$ 6,050,000	1992	2001/2 (R)/(A), 2009(A)
Fulton ES**	99.0 shared	10	\$ 6,156,161	1997	2003(A)/(R), 2006
Gorman Crossing ES**	15.00	2	\$ 5,766,716	1998	2007,2013(A)
Guilford ES	11.00	5	\$ 216,278	1954	1959(R), 1982, 1986(A), 1989, 2006
Hammond ES	35.00 shared	1	\$ 2,381,673	1971	(includes Hammond MS & Hammond ES) 1987, 1988/9, 1996/7 (A), 2007, 2011(R/A)
Hanover Hills ES	8.02	0	\$ 43,873,000	2018	New School 2018
Hollifield Station ES	14.50	3	\$ 6,017,889	1997	2002(R)/(A), 2009(A)
Ilchester ES**	27.22 shared	3	\$ 6,430,404	1996	2000/1, 2008(A)
Jeffers Hill ES	10.00	2	\$ 1,747,200	1975	1998/1999(R)
Laurel Woods ES	27.00	2	\$ 1,658,399	1973	1987(A), 2004(R), 2005(ROOFING PROJECT), 2008(A)
Lisbon ES	22.55	1	\$ 2,056,000	1976	1988(A), 2006
Longfellow ES	9.50	0	\$ 775,481	1970	1986(R), 1994(A), 2008(A), 2015 (R)
Manor Woods ES	43.23	5	\$ 5,900,000	1994	2004(R)
Northfield ES	10.00	1	\$ 20,330,000	1968	1986(A), 2007, 2011(R/A)
Phelps Luck ES	10.00	2	\$ 1,036,792	1972	1989, 1999(A), 2007,2013(R/A)
Pointers Run ES	13.69	9	\$ 6,645,000	1991	2000, 2001/2, 2006, 2008(A)
Rockburn ES	8.74	1	\$ 5,849,000	1993	2004(A), 2007
Running Brook ES	9.00	3	\$ 776,406	1970	1984(A)/(REMODELING), 2004 (ROOF REPLACEMENT), 2006, 2014(A)
St. John's Lane ES	10.00	7	\$ 235,985	1954	1988(A), 1959, 1966, 1975(MODERNIZ)1988, 1995, 2000(A)/(R), 2009(A)
Stevens Forest ES	10.00	5	\$ 764,941	1972	1995(A),2013(R/A)
Swansfield ES	10.00	5	\$ 764,941	1972	1988(A), 1998(R), 2008(A)
Talbott Springs ES	10.00	10	\$ 1,224,800	1973	1999(SPRINKLERS), 2000(A) & (R), 2008(A)
Thunder Hill ES	14.93	3	\$ 14,515,430	1970	1987, 1988(A), 1988, 1989, 2007, 2012(R/A)
Triadelphia Ridge ES	78.3 shared	0	\$ 6,219,488	1998	2005(A), 2006
Veterans ES**	23.66	5	\$ 19,000,000	2007	New school 2007
Waterloo ES	10.00	4	\$ 435,221	1964	1987(A)/( MODERNIZATION), 1998(A), 2009(R)
Waverly ES	11.49	5	\$ 6,669,587	1990	2007, 2018 (R)
West Friendship ES	17.85	0	unknown	1925	(7 rm school (1925)) 1950, 1962, 1971 (MODERNIZATION), 1978(A), 2004(R), 2005(ROOF)
Worthington ES	19.69	1	\$ 2,385,850	1976	1989, 1998, 2007, 2008(R)

<sup>\*</sup>Dayton Oaks shares 12.66 acres with Recreation and Parks play fields.

<sup>\*\*</sup> At least one of the current relocatables is used for Recreation and Parks programming: Forest Ridge (1), Fulton (1), Gorman Crossing (2), Ilchester (1), Veterans (1)

## Facility Use, Acreage, and Capital Projects

HCPSS Middle Schools	Acreage	Current Relocatables	С	Original construction Cost	Initially Complete	Renovations (R), Additions (A), Conversion (C), Projects
Bonnie Branch MS*	27.22 shared	2	\$	7,819,520	1999	1999(A)
Burleigh Manor MS	27.00	1	\$	8,107,000	1992	
Clarksville MS	20.43	5	\$	5,662,361	1979	2004, 2006(A), 2008(R), 2010(Masonry)
Dunloggin MS	20.00	5	\$	1,963,323	1973	1999(R)
Elkridge Landing MS	48.58	0	\$	9,000,000	1995	
Ellicott Mills MS	16.22	7	\$	9,430,537	1939	1957, 1962, 1973, 2001 (Replacement)
Folly Quarter MS	78.3 shared	0	\$	11,077,000	2003	
Glenwood MS	30.00	6	\$	1,179,168	1967	1999(R), 2000(R), 1986(Air Conditioning), 2016 (HVAC)
Hammond ES/MS	35.00 shared	3	\$	22,650,672	1971	includes Hammond MS & Hammond ES, 2011
Harper's Choice MS	19.67	5	\$	1,974,697	1973	1999(R), 2000
Lake Elkhorn MS	33.16 shared	1	\$	4,244,500	1976	includes Dasher Green ES & Owen Brown MS
Lime Kiln MS	99.0 shared	0	\$	8,420,400	1999	2005(A)
Mayfield Woods MS	27.00	2	\$	8,501,354	1991	
Mount View MS	35.75	2	\$	8,617,000	1993	
Murray Hill MS	25.00	6	\$	7,858,000	1997	
Oakland Mills MS	20.00	0	\$	1,803,876	1972	1998 (R)
Patapsco MS	21.13	2	\$	1,391,791	1969	1974, 1996, 2003(R)/(A), 2004 (R)/(A)
Patuxent Valley MS	30.00	0	\$	8,261,000	1989	2017 (R)
Thomas Viaduct MS	20.21	0	\$	34,755,000	2014	
Wilde Lake MS	21.00	0	\$	1,323,314	1969	1974, 1998( R), 2017 (Replacement)

HCPSS High Schools	Acreage	Current Relocatables	Original Construction Cost	Initially Complete	Renovations (R), Additions (A), Projects
Atholton HS	36.28	0	\$ 1,423,493	1966	1972, 1977, 1978, 1988, 1987(A), 1997(R), 2003(R)/(A),
Centennial HS	43.00	9	\$ 6,337,867	1977	1998(R), 2002(R)/(A), 2011(A)
Glenelg HS	40.94	0	\$ 56,345,257	1958	1963, 1967, 1969, 1971, 1972(R), 1986(A), 1988(A)/(R), 2003, 2008(A), 2009(Auditorium), 2011(HVA
Hammond HS	33.14	4	\$ 6,321,000	1976	1996(A), 1998®, 2011(A)
Howard HS	41.00	15	\$ 698,781	1951	1960, 1964,1971, 1975, 1977, 2001(A)/(R), 2002(R), 2004, 2006, 2009(Windows)
Long Reach HS	50.00	7	\$ 20,373,000	1996	
Marriotts Ridge HS	42.40	0	\$ 34,115,895	2005	
Mt. Hebron HS	40.05	5	\$ 55,560,000	1965	1968,1972,1976, 1977-1978,1983(MODERNIZATION), 1997-99(A), 2004(R), 2005(R), 2011
Oakland Mills HS	28.60	0	\$ 3,579,000	1973	1991-92(R), 1998(R), 2004(A)
Reservoir HS	99.0 shared	5	\$ 27,224,000	2002	
River Hill HS	64.2	0	\$ 21,473,000	1994	
Wilde Lake HS	31.25	0	\$ 21,202,391	1996	(Replacement)

HCPSS Countywide Schools	Acreage	Current Relocatables	Cons	riginal struction Cost	Initially Complete	Renovations (R), Additions (A), Projects
Applications & Research Lab	45.48 shared	0	\$ 1	1,502,581	1968	1970, 1974, 1986, 1997/1998(R),2002(NEW ROOF), 2006
Cedar Lane Special	99.0 shared	0	\$ 18	3,663,069	2005	2005(A)
Homewood	45.48 shared	1	\$ 8	3,620,912	2002	

HCPSS Other Facilities	Acreage	Current Relocatables	Const	ginal ruction ost	Initially Complete	Renovations (R), Additions (A), Projects
Admin. Building(Harriett Tubman)	3.58	0	\$	256,664	1948	1953, 1956
Admin. Building(Central Office)	45.48 shared	4	\$ 3,	657,660	1980	
Old Bushy Park	12.00 shared	0	\$ 2,	,931,991	1976	1988(A), school replaced 2007
Faulkner Ridge Resource Center	9.01	0	\$	750,174	1969	
Old Cedar Lane	11	0	\$ 3,	839,731	1981	

<sup>\*</sup> One of the current relocatables is used for Recreation and Parks programming at Bonnie Branch.

FY 2020 Superintendent's Proposed Capital Budget

Columbia - East
Columbia
Under Hill ES   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421   421
Phelps Luck ES 597 597 597 597 694 199.5 664 111.2 676 113.2 662 114.2 691 115.7 C 714 119.6 C 720 120.6 C 727 121.8 C 735 123.1 C 740 121.5 Stevens Forest ES 399 399 399 399 399 399 399 399 399 39
Stevens Forest ES   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   399   39
Talbott Springs ES A 377 540 540 540 540 540 540 540 540 540 540
Thunder Hill ES   509   509   509   509   509   509   509   503   100.8   507   99.6   499   98.0   504   99.0   508   99.8   509   100.0   515   101.2   521   102.4   531   104.3   537   10.8   507   99.6   499   98.0   504   99.0   508   99.8   509   100.0   515   101.2   521   102.4   531   104.3   537   10.8
Region Totals   2701   2864   2864   2864   2864   2867   105.0   2814   98.3   2831   98.8   2846   99.4   2874   100.3   2930   102.3   2957   103.2   2990   104.4   3029   105.8   3066   1076   106.5   106.5   106.5   106.5   106.5   106.5   106.5   106.5   106.5   106.5   106.5   106.5   106.5   106.5   106.5   106.5   106.5   106.5   106.5   106.5   106.5   106.5   106.5   106.5   106.5   106.5   106.5   106.5   106.5   106.5   106.5   106.5   106.5   106.5   106.5   106.5   106.5   106.5   106.5   106.5   106.5   106.5   106.5   106.5   106.5   106.5   106.5   106.5   106.5   106.5   106.5   106.5   106.5   106.5   106.5   106.5   106.5   106.5   106.5   106.5   106.5   106.5   106.5   106.5   106.5   106.5   106.5   106.5   106.5   106.5   106.5   106.5   106.5   106.5   106.5   106.5   106.5   106.5   106.5   106.5   106.5   106.5   106.5   106.5   106.5   106.5   106.5   106.5   106.5   106.5   106.5   106.5   106.5   106.5   106.5   106.5   106.5   106.5   106.5   106.5   106.5   106.5   106.5   106.5   106.5   106.5   106.5   106.5   106.5   106.5   106.5   106.5   106.5   106.5   106.5   106.5   106.5   106.5   106.5   106.5   106.5   106.5   106.5   106.5   106.5   106.5   106.5   106.5   106.5   106.5   106.5   106.5   106.5   106.5   106.5   106.5   106.5   106.5   106.5   106.5   106.5   106.5   106.5   106.5   106.5   106.5   106.5   106.5   106.5   106.5   106.5   106.5   106.5   106.5   106.5   106.5   106.5   106.5   106.5   106.5   106.5   106.5   106.5   106.5   106.5   106.5   106.5   106.5   106.5   106.5   106.5   106.5   106.5   106.5   106.5   106.5   106.5   106.5   106.5   106.5   106.5   106.5   106.5   106.5   106.5   106.5   106.5   106.5   106.5   106.5   106.5   106.5   106.5   106.5   106.5   106.5   106.5   106.5   106.5   106.5   106.5   106.5   106.5   106.5   106.5   106.5   106.5   106.5   106.5   106.5   106.5   106.5   106.5   106.5   106.5   106.5   106.5   106.5   106.5   106.5   106.5   106.5   106.5   106.5   106.5   106.5   106.5   106.5   106.5   106.5   106.5
Columbia - West Bryant Woods ES 361 361 361 361 361 416 115.2 C 404 111.9 406 112.5 404 111.9 410 113.6 414 114.7 418 115.8 C 418 115.8 C 421 116.6 C 427 11. Clemens Crossing ES 521 521 521 521 521 526 40 104.8 568 109.0 595 114.2 605 116.1 C 661 125.0 C 671 128.8 C 685 131.5 C 695 133.4 C 696 133.6 C 693 13.6 Longfellow ES 512 512 512 512 385 75.2 392 76.6 390 76.2 388 75.8 396 77.3 401 78.3 406 79.3 412 80.5 418 81.6 424 82. Running Brook ES 515 515 515 515 515 515 515 515 515 51
Bryant Woods ES   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361   361
Bryant Woods ES 361 361 361 361 361 416 115.2 C 404 111.9 406 112.5 404 111.9 410 113.6 414 114.7 418 115.8 C 421 116.6 C 427 11.5 C 12 521 521 521 521 521 521 521 522 522
Clemens Crossing ES   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521   521
Longfellow ES   512 512 512 512 512 512 512 512 512 512
Running Brook ES 515 515 515 515 515 701 136.1 C 771 149.7 C 833 161.7 C 83 95.5 665 95.8 673 97.0 C 882 171.3 C 927 180.0 C 981 190.5 C 1032 200.4 C 1071 208.0 C 1109 215.3 C 1134 22 8 9 8 9 9 1 1 100.9 Totals 2603 2603 2603 2603 2603 2603 2603 2603
Swansfield ES
Region Totals 2603 2603 2603 2603 2603 2603 2603 2603
Northeastern Bellows Spring ES
Bellows Spring ES 751 751 751 751 751 751 751 751 751 751
Bellows Spring ES 751 751 751 751 751 751 751 751 751 751
Deep Run ES 750 750 750 750 750 750 750 750 750 750
Ducketts Lane ES 694 694 694 694 694 694 777 112.0 839 120.9 C 854 123.1 C 866 124.8 C 870 125.4 C 851 122.6 C 840 121.0 C 814 117.3 C 807 116.3 C 803 118.6 Elkridge ES 760 760 760 760 760 760 760 760 760 760
Elkridge ES 760 760 760 760 760 770 101.3 739 97.2 719 94.6 738 97.1 780 102.6 807 106.2 852 112.1 868 114.2 878 115.5 C 887 114 Hanover Hills ES NS 810 810 810 810 1009 124.6 C 1085 134.0 C 1121 138.4 C 1152 142.2 C 1178 145.4 C 1204 148.6 C 1240 153.1 C 1278 157.8 C 1315 162.3 C 1361 168 Ilchester ES 584 584 584 584 587 90.2 546 93.5 592 101.4 622 106.5 663 113.5 696 119.2 C 708 121.2 C 736 126.0 C 726 124.3 C 709 124 No.4 No.4 No.4 No.4 No.4 No.4 No.4 No.
Hanover Hills ES NS 810 810 810 810 810 1009 124.6 C 1085 134.0 C 1121 138.4 C 1152 142.2 C 1178 145.4 C 1204 148.6 C 1240 153.1 C 1278 157.8 C 1315 162.3 C 1361 168
Ilchester ES   584   584   584   584   584   587   90.2   546   93.5   592   101.4   622   106.5   663   113.5   696   119.2   C   708   121.2   C   736   126.0   C   726   124.3   C   709   128.0   C   708   121.2   C   736   126.0   C   726   124.3   C   709   128.0   C   708   121.2   C   736   126.0   C   726   124.3   C   709   128.0   C   736   126.0   C   726   124.3   C   709   128.0   C   736   126.0   C   736
Rockburn ES       609       609       609       609       609       609       609       609       628       103.1       635       104.3       650       106.7       691       113.5       715       117.4       C       719       118.1       C       727       119.4       C       737       121.0       C       740       12         Veterans ES       799       799       799       799       799       90       112.6       886       110.9       874       109.4       882       110.4       869       108.8       867       108.5       923       115.5       C       944       118.1       C       737       121.0       C       740       12         Waterloo ES       663       663       663       839       81.3       552       83.3       551       83.9       562       84.8       568       85.7       584       88.1       590       89.0       597       90         Worthington ES       515       515       515       515       515       402       78.1       408       79.2       423       82.1       442       85.8       471       91.5       481       93.4       492       95.5
Veterans ES       799       799       799       799       799       799       900       112.6       886       110.9       874       109.4       882       110.4       869       108.8       867       108.5       923       115.5       C       944       118.1       C       940       117.6       C       949       118.1         Worthington ES       663       663       663       663       539       81.3       552       83.3       551       83.1       547       82.5       556       83.9       562       84.8       568       85.7       584       88.1       590       89.0       597       90         Worthington ES       515       515       515       515       402       78.1       408       79.2       423       82.1       442       85.8       471       91.5       481       93.4       492       95.5       547       106.2       548       106.4       541       108         Region Totals       6935       6935       6935       6935       7130       102.8       7338       105.8       7493       108.0       7695       111.0       7888       113.7       7927       114.3       8086
Waterloo ES       663       663       663       663       663       663       663       663       663       663       663       663       663       663       663       663       663       663       663       663       663       663       663       663       663       663       663       663       663       663       663       663       663       663       663       663       663       663       663       663       663       663       663       663       663       663       663       663       663       663       663       663       663       663       663       663       663       663       663       663       663       663       663       663       663       663       663       663       663       663       663       663       663       663       663       663       663       663       663       663       663       663       663       663       663       663       663       663       663       663       663       663       663       663       663       663       663       663       663       663       663       663       663       663       663
Worthington ES 515 515 515 515 402 78.1 408 79.2 423 82.1 442 85.8 471 91.5 481 93.4 492 95.5 547 106.2 548 106.4 541 108 109 109 109 109 109 109 109 109 109 109
Region Totals 6935 6935 6935 6935 7130 102.8 7338 105.8 7493 108.0 7695 111.0 7888 113.7 7927 114.3 8086 116.6 C 8237 118.8 C 8280 119.4 C 8317 118
Northern
Centennial Lane ES 647 647 647 647 647 738 114.1 741 114.5 721 111.4 718 111.0 718 111.0 713 110.2 718 111.0 726 112.2 731 113.0 741 11.0
Hollifield Station ES 732 732 732 732 841 114.9 827 113.0 814 111.2 842 115.0 C 834 113.9 830 113.4 851 116.3 C 869 118.7 C 892 121.9 C 920 121.9
Manor Woods ES 681 681 681 681 681 766 112.5 800 117.5 C 833 122.3 C 856 125.7 C 890 130.7 C 903 132.6 C 898 131.9 C 875 128.5 C 844 123.9 C 809 118
Northfield ES 700 700 700 700 700 753 107.6 750 107.1 737 105.3 736 105.1 748 106.9 753 107.6 778 111.1 779 111.3 782 111.7 790 112
St Johns Lane ES 612 612 612 612 612 739 120.8 C 762 124.5 C 789 128.9 C 821 134.2 C 856 139.9 C 852 139.2 C 857 140.0 C 863 141.0 C 874 142.8 C 884 144.8 C 884 1
Waverly ES A 788 788 788 788 788 831 105.5 844 107.1 876 111.2 892 113.2 909 115.4 C 910 115.5 C 913 115.9 C 913 115.9 C 916 116.2 C 914 110
Region Totals 4160 4160 4160 4160 468 112.2 4724 113.6 4770 114.7 4865 116.9 C 4955 119.1 C 4961 119.3 C 5015 120.6 C 5025 120.8 C 5039 121.1 C 5058 12
South control
Southeastern   Atholton ES 424 424 424 424 447 105.4 418 98.6 416 98.1 414 97.6 414 97.6 412 97.2 415 97.9 418 98.6 420 99.1 423 99.1
Bollman Bridge ES 666 666 666 666 757 113.7 761 114.3 772 115.9 C 784 117.7 C 776 116.5 C 768 115.3 C 767 115.2 C 768 115.3 C 781 117.3 C 783 117.3 C
Forest Ridge ES 713 713 713 713 776 108.8 813 114.0 852 119.5 C 894 125.4 C 918 128.8 C 952 133.5 C 953 133.7 C 945 132.5 C 928 130.2 C 798 128.8 C 952 130.2 C 953 133.7 C 945 132.5 C 953 133.5 C 95
Gorman Crossing ES 735 735 735 735 836 113.7 839 114.1 830 112.9 803 109.3 809 110.1 790 107.5 774 105.3 763 103.8 763 103.8 763 103.8 763 103.8 763 103.8 763 103.8 763 103.8 763 103.8 763 103.8 763 103.8 763 103.8 763 103.8 763 103.8 763 103.8 763 103.8 763 103.8 763 103.8 763 103.8 763 103.8 763 103.8 763 103.8 763 103.8 763 103.8 763 103.8 763 103.8 763 103.8 763 103.8 763 103.8 763 103.8 763 103.8 763 103.8 763 103.8 763 103.8 763 103.8 763 103.8 763 103.8 763 103.8 763 103.8 763 103.8 763 103.8 763 103.8 763 103.8 763 103.8 763 103.8 763 103.8 763 103.8 763 103.8 763 103.8 763 103.8 763 103.8 763 103.8 763 103.8 763 103.8 763 103.8 763 103.8 763 103.8 763 103.8 763 103.8 763 103.8 763 103.8 763 103.8 763 103.8 763 103.8 763 103.8 763 103.8 763 103.8 763 103.8 763 103.8 763 103.8 763 103.8 763 103.8 763 103.8 763 103.8 763 103.8 763 103.8 763 103.8 763 103.8 763 103.8 763 103.8 763 103.8 763 103.8 763 103.8 763 103.8 763 103.8 763 103.8 763 103.8 763 103.8 763 103.8 763 103.8 763 103.8 763 103.8 763 103.8 763 103.8 763 103.8 763 103.8 763 103.8 763 103.8 763 103.8 763 103.8 763 103.8 763 103.8 763 103.8 763 103.8 763 103.8 763 103.8 763 103.8 763 103.8 763 103.8 763 103.8 763 103.8 763 103.8 763 103.8 763 103.8 763 103.8 763 103.8 763 103.8 763 103.8 763 103.8 763 103.8 763 103.8 763 103.8 763 103.8 763 103.8 763 103.8 763 103.8 763 103.8 763 103.8 763 103.8 763 103.8 763 103.8 763 103.8 763 103.8 763 103.8 763 103.8 763 103.8 763 103.8 763 103.8 763 103.8 763 103.8 763 103.8 763 103.8 763 103.8 763 103.8 763 103.8 763 103.8 763 103.8 763 103.8 763 103.8 763 103.8 763 103.8 763 103.8 763 103.8 763 103.8 763 103.8 763 103.8 763 103.8 763 103.8 763 103.8 763 103.8 763 103.8 763 103.8 763 103.8 763 103.8 763 103.8 763 103.8 763 103.8 763 103.8 763 103.8 763 103.8 763 103.8 763 103.8 763 103.8 763 103.8 763 103.8 763 103.8 763 103.8 763 103.8 763 103.8 763 103.8 763 103.8 763 103.8 763 103.8 763 103.8 763 103.8 763 103.8 763 103.8 763 103.8 763 103.8 763 103.8 763 103.8 763 103.8 763 103.8 763 103.8 763 103.8 7
Guilford ES 465 465 465 465 461 410 88.2 414 89.0 415 89.2 451 97.0 484 104.1 488 104.9 482 103.7 483 103.9 495 106.5 495 10
Hammond ES 653 653 653 653 661 101.2 705 108.0 792 121.3 C 830 127.1 C 874 133.8 C 923 141.3 C 971 148.7 C 1038 159.0 C 1107 169.5 C 1155 17
Laurel Woods ES 640 640 640 640 640 482 75.3 469 73.3 462 72.2 459 71.7 449 70.2 467 73.0 473 73.9 479 74.8 486 75.9 491 76
Region Totals 4296 4296 4296 4296 4296 4369 101.7 4419 102.9 4539 105.7 4635 107.9 4718 109.8 4819 112.2 4851 112.9 4905 114.2 4980 115.9 C 5028 11
Western
Western
Bushy Park ES 744 744 744 744 7507 68.1 499 67.1 483 64.9 478 64.2 490 65.9 494 66.4 514 69.1 551 74.1 561 75.4 559 75
Bushy Park ES 744 744 744 744 744 507 68.1 499 67.1 483 64.9 478 64.2 490 65.9 494 66.4 514 69.1 551 74.1 561 75.4 559 75 Clarksville ES 543 543 543 543 543 413 76.1 429 79.0 409 75.3 410 75.5 416 76.6 422 77.7 425 78.3 425 78.3 430 79.2 433 79
Bushy Park ES 744 744 744 744 744 744 507 68.1 499 67.1 483 64.9 478 64.2 490 65.9 494 66.4 514 69.1 551 74.1 561 75.4 559 75 Clarksville ES 543 543 543 543 543 413 76.1 429 79.0 409 75.3 410 75.5 416 76.6 422 77.7 425 78.3 425 78.3 430 79.2 433 79 Dayton Oaks ES 675 675 675 675 676 606 89.8 582 86.2 588 87.1 588 87.1 590 87.4 569 84.3 565 83.7 563 83.4 597 88.4 647 95
Bushy Park ES 744 744 744 744 744 744 507 68.1 499 67.1 483 64.9 478 64.2 490 65.9 494 66.4 514 69.1 551 74.1 561 75.4 559 75 Clarksville ES 543 543 543 543 543 76.1 429 79.0 409 75.3 410 75.5 416 76.6 422 77.7 425 78.3 425 78.3 430 79.2 433 79 Dayton Oaks ES 675 675 675 675 675 675 675 675 675 675
Bushy Park ES 744 744 744 744 744 744 744 744 744 507 68.1 499 67.1 483 64.9 478 64.2 490 65.9 494 66.4 514 69.1 551 74.1 561 75.4 559 75 Clarksville ES 543 543 543 543 543 76.1 429 79.0 409 75.3 410 75.5 416 76.6 422 77.7 425 78.3 425 78.3 430 79.2 433 79 Dayton Oaks ES 675 675 675 675 675 675 68.8 88.8 582 86.2 588 87.1 588 87.1 588 87.1 569 87.1 569 87.1 569 87.1 569 87.1 569 87.1 569 87.1 569 87.1 569 87.1 569 87.1 569 87.1 569 87.1 569 87.1 569 87.1 569 87.1 569 87.1 569 87.1 569 87.1 569 87.1 569 87.1 569 87.1 569 87.1 569 87.1 569 87.1 569 87.1 569 87.1 569 87.1 569 87.1 569 87.1 569 87.1 569 87.1 569 87.1 569 87.1 569 87.1 569 87.1 569 87.1 569 87.1 569 87.1 569 87.1 569 87.1 569 87.1 569 87.1 569 87.1 569 87.1 569 87.1 569 87.1 569 87.1 569 87.1 569 87.1 569 87.1 569 87.1 569 87.1 569 87.1 569 87.1 569 87.1 569 87.1 569 87.1 569 87.1 569 87.1 569 87.1 569 87.1 569 87.1 569 87.1 569 87.1 569 87.1 569 87.1 569 87.1 569 87.1 569 87.1 569 87.1 569 87.1 569 87.1 569 87.1 569 87.1 569 87.1 569 87.1 569 87.1 569 87.1 569 87.1 569 87.1 569 87.1 569 87.1 569 87.1 569 87.1 569 87.1 569 87.1 569 87.1 569 87.1 569 87.1 569 87.1 569 87.1 569 87.1 569 87.1 569 87.1 569 87.1 569 87.1 569 87.1 569 87.1 569 87.1 569 87.1 569 87.1 569 87.1 569 87.1 569 87.1 569 87.1 569 87.1 569 87.1 569 87.1 569 87.1 569 87.1 569 87.1 569 87.1 569 87.1 569 87.1 569 87.1 569 87.1 569 87.1 569 87.1 569 87.1 569 87.1 569 87.1 569 87.1 569 87.1 569 87.1 569 87.1 569 87.1 569 87.1 569 87.1 569 87.1 569 87.1 569 87.1 569 87.1 569 87.1 569 87.1 569 87.1 569 87.1 569 87.1 569 87.1 569 87.1 569 87.1 569 87.1 569 87.1 569 87.1 569 87.1 569 87.1 569 87.1 569 87.1 569 87.1 569 87.1 569 87.1 569 87.1 569 87.1 569 87.1 569 87.1 569 87.1 569 87.1 569 87.1 569 87.1 569 87.1 569 87.1 569 87.1 569 87.1 569 87.1 569 87.1 569 87.1 569 87.1 569 87.1 569 87.1 569 87.1 569 87.1 569 87.1 569 87.1 569 87.1 569 87.1 569 87.1 569 87.1 569 87.1 569 87.1 569 87.1 569 87.1 569 87.1 569 87.1 569 87.1 569 87.1 569 87.1 569 87.1 569 87.1 569 87.1 569 87.1 569 87.1 569
Bushy Park ES 744 744 744 744 744 744 4 744 744 744
Bushy Park ES 744 744 744 744 744 744 4 744 744 4 744 744 744 878 118.0 C 919 123.5 C 945 128.2 C 754 128.2 C 754 128.8 C 751 129.3 C 952 128.0 C 932 128.0 C 932 128.0 C 932 128.0 C 752 128.0 C 752 128.4 C 738 127.0 C 732 128.0 C 742 129.3 C 752 129.3 C 752 128.4 C 738 127.0 C 732 128.0 C 742 129.3 C 754 129.3 C 752 129.3 C 752 128.4 C 738 127.0 C 732 128.0 C 744 128.4 C 738 127.0 C 732 128.0 C 744 128.4 C 738 127.0 C 732 128.0 C 744 128.4 C 738 127.0 C 732 128.0 C 744 128.4 C 738 127.0 C 732 128.0 C 744 128.4 C 738 127.0 C 732 128.0 C 744 128.4 C 738 127.0 C 732 128.0 C 744 128.4 C 738 127.0 C 732 128.0 C 744 128.4 C 738 127.0 C 732 128.0 C 744 128.4 C 738 127.0 C 732 128.0 C 744 128.4 C 738 127.0 C 732 128.0 C 744 128.4 C 738 127.0 C 732 128.0 C 744 128.4 C 738 127.0 C 732 128.0 C 744 128.4 C 738 127.0 C 732 128.0 C 744 128.4 C 738 127.0 C 732 128.0 C 744 128.4 C 738 127.0 C 732 128.0 C 744 128.4 C 738 127.0 C 732 128.0 C 744 128.4 C 738 127.0 C 732 128.0 C 744 128.4 C 738 127.0 C 732 128.0 C 744 128.4 C 738 127.0 C 732 128.0 C 744 128.4 C 738 127.0 C 732 128.0 C 744 128.4 C 738 127.0 C 732 128.0 C 744 128.4 C 738 127.0 C 732 128.0 C 744 128.4 C 738 127.0 C 732 128.0 C 744 128.4 C 744 128.4 C 738 127.0 C 732 128.0 C 744 128.4 C 744 128.4 C 738 127.0 C 732 128.0 C 744 128.4 C 744 128.4 C 738 127.0 C 732 128.0 C 744 128.4 C 744 128.4 C 738 127.0 C 732 128.0 C 744 128.4 C 744
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Bushy Park ES 744 744 744 744 507 68.1 499 67.1 483 64.9 478 64.2 490 65.9 494 66.4 514 69.1 551 74.1 561 75.4 559 75 Clarksville ES 543 543 543 543 543 543 76.1 429 79.0 409 75.3 410 75.5 416 76.6 422 77.7 425 78.3 425 78.3 425 78.3 430 79.2 433 79.2 434 74.0 Fulton ES 826 826 826 826 826 826 826 826 826 826

A: capacity includes additions as reflected in FY 2019 Capital Budget for Grades K-5 between 2018 and 2019. NS: New school scheduled to open in August 2018.

C: Constrained for future development

#### MIDDLE SCHOOLS - MAY 2018 APFO School Capacity Chart

Capacity Utilization Rates with Board of Education's Approved FY 2019 Capital Budget Projects Chart reflects May 2017 Projections, Board of Education's Requested FY 2019 capacities, and effects of approved redistricting for the 2018-19 school year.

Capacity 2022-23 2023-24 2024-25 2025-26 2026-27 2027-28 2029-30 2030-31 Columbia - East 2021 2022 2023 2024 % Util. Proj ake Elkhorn MS 643 643 643 643 585 91.0 591 91.9 557 86.6 553 86.0 532 82.7 546 84.9 553 86.0 557 86.6 559 86.9 565 87.9 506 97.8 98.0 99.8 Oakland Mills MS 506 506 506 497 98.2 495 97.8 513 101.4 506 100.0 501 99.0 495 496 98.0 496 497 98.2 505 Region MS Totals 1149 1149 1149 1149 1082 94.2 1086 94.5 1070 93.1 1059 92.2 1033 89.9 1041 90.6 1049 91.3 1053 91.6 1056 91.9 1070 93.1 Columbia - West

Harpers Choice MS	506	506	506	506	534	105.5	511	101.0	517	102.2	520	102.8	534	105.5	540	106.7	534	105.5	53	39	106.5	546	107.9		555	109.7
Wilde Lake MS	760	760	760	760	724	95.3	756	99.5	785	103.3	845	111.2	903	118.8	947	124.6	C 967	127.2	<b>C</b> 99	94	130.8	1016	133.7	C ·	1042	137.1
Region MS Totals	1266	1266	1266	1266	1258	99.4	1267	100.1	1302	102.8	1365	107.8	1437	113.5	1487	117.5	1501	118.6	15	33	121.1	1562	123.4		1597	126.1
rtogron me rotalo																										
rtogress me retaile					•																					
Northeastern					1																					
	701	701	701	701	670	95.6	681	97.1	697	99.4	703	100.3	702	100.1	719	102.6	732	104.4	76	61	108.6	781	111.4		803	114.6

122.4 **C** 827

Mayfield Woods MS Thomas Viaduct MS	798 701	798 701	798 701	798 701	875 788	109.6 112.4	855 826	107.1 117.8	С	872 919	109.3		918 1043	115.0 148.8	С	949 1182	118.9 168.6	C	1022 1260	128.1 179.7	C	1038 1311	130.1 187.0	C	1074 1358	134.6 193.7	C	1044 1347	130.8 192.2		1054 1351	132.1 192.7
Region MS Totals	3680	3680	3680		3999	108.7	3992	108.5		4133	112.3			111.2			114.8		4590	119.7	·	4712	122.8		4888	127.4		4852	126.5		4937	128.7
Northern																																
Burleigh Manor MS	779	779	779	779	857	110.0	864	110.9		885	113.6		923	118.5	С	963	123.6	С	969	124.4	С	973	124.9	С	968	124.3	С	971	124.6	С	986	126.6
Burleigh Manor MS Dunloggin MS A Patapsco MS	779 565 643	779 565 643	779 565 643	779 662 643	857 694 735	110.0 122.8 114.3	864 C 711 764	110.9 125.8 118.8	C	885 730 769	113.6 129.2 119.6	С	923 720 776	118.5 108.8 120.7		963 704 775	123.6 106.3 120.5	C	969 698 803	124.4 105.4 124.9	c	973 712 811	124.9 107.6 126.1	С	968 717 815	124.3 108.3 126.7	C	971 714 801	107.9	_	986 727 802	126.6 109.8 124.7

96.5

810

2442 117.2

94.5

801

2470

93.5

814

2496

95.0

854

2500

99.6

856

2486

99.9

891

2515

104.0

Hammond MS 604 604 604 604 604 604 605 602 602 602 602 602 602 602 602 602 602	Southeastern																													
Patuxent Valley MS 760 760 760 760 656 86.3 649 85.4 654 86.1 672 88.4 702 92.4 721 94.9 737 97.0 737 97.0 763 100.4 764 100.5	Hammond MS	604	604	604	604	612	101.3	66	1 109.4	693	114.7	706	116.9	С	705	116.7	С	722	119.5	С	732	121.2	C	743	123.0 C	773	128.0	C	841	139.2
	Murray Hill MS	662	662	662	662	769	116.2	C 75	4 113.9	737	111.3	781	118.0	С	778	117.5	С	774	116.9	С	751	113.4	7	746	112.7	747	112.8		736	111.2
Region MS Totals 2026 2026 2026 2026 2027 400 5 2064 404 9 2084 402 9 2459 406 6 2485 407 8 2247 409 4 2220 409 6 2226 409 9 2283 442 7 2344 445 5	Patuxent Valley MS	760	760	760	760	656	86.3	64	9 85.4	654	86.1	672	88.4		702	92.4		721	94.9		737	97.0	7	737	97.0	763	100.4		764	100.5
Region and Totals 2020 2020 2020 2020 2020 100.5 2004 101.5 2004 102.5 2105 100.0 2105 101.0 2217 100.4 2220 100.0 2220 100.5	Region MS Totals	2026	2026	2026	2026	2037	100.5	20	4 101.9	2084	102.9	2159	106.6		2185	107.8		2217	109.4		2220	109.6	2	2226	109.9	2283	112.7	2	341	115.5

2419 116.1

Western																								
Clarksville MS	643	643	643	643	657	102.2	636	98.9	635	98.8	638	99.2	672	104.5	664	103.3	675	105.0	668	103.9	677	105.3	677	105.3
Folly Quarter MS	662	662	662	662	628	94.9	616	93.1	605	91.4	608	91.8	599	90.5	602	90.9	590	89.1	592	89.4	601	90.8	613	92.6
Glenwood MS	545	545	545	545	534	98.0	502	92.1	492	90.3	477	87.5	484	88.8	506	92.8	517	94.9	539	98.9	524	96.1	529	97.1
Lime Kiln MS	701	701	701	701	635	90.6	670	95.6	677	96.6	687	98.0	694	99.0	728	103.9	747	106.6	738	105.3	723	103.1	716	102.1
Mount View MS	798	798	798	798	887	111.2	907	113.7	930	116.5	C 971	121.7	C 973	121.9	C 1009	126.4	C 1003	125.7	C 1020	127.8	C 1019	127.7	C 1040	130.3 C
Region MS Totals	3349	3349	3349	3349	3341	99.8	3331	99.5	3339	99.7	3381	101.0	3422	102.2	3509	104.8	3532	105.5	3557	106.2	3544	105.8	3575	106.7
Countywide Totals	13457	13457	13457	13710	14003	104.1	14079	104.6	14312	106.4	14648	106.8	14923	108.8	15314	111.7	15510	113.1	15757	114.9	15783	115.1	16035	117.0

A: capacity includes additions as reflected in FY 2019 Capital Budget for Grades 6-8 between 2019 and 2026.

129.2 **C** 857

2339

122.3 **C** 858

2384

Ellicott Mills MS

Region MS Totals

701

701 701

1987 1987 1987 2084 2286

857

906

C: Constrained for future development

## Facilities Constructed With Assistance From Maryland School Construction Funds (1980–2018)

Completion School year)	Elementary	Middle	High	Special
1980–1981				
1981–1982				Cedar Lane
1988–1989	Bollman Bridge			
1989–1990		Patuxent Valley		
1000 1001	Deep Run			
1990–1991	Waverly			
1991–1992	Pointers Run	Mayfield Woods		
1002 1002	Elkridge	Burleigh Manor		
1992–1993	Forest Ridge			
1993–1994	Rockburn	Mount View		
1994–1995	Manor Woods		River Hill	
1995–1996		Elkridge Landing		
100/ 1007	Ilchester		Long Reach	
1996–1997			Wilde Lake Replacement	
1007 1000	Fulton	Murray Hill		
1997–1998	Hollifield Station			
1000 1000	Gorman Crossing			
1998–1999	Triadelphia Ridge			
1000 2000		Bonnie Branch		
1999–2000		Lime Kiln		
2001–2002		Ellicott Mills Replacement		
2002–2003			Reservoir	Homewood
2003–2004	Bellows Spring	Folly Quarter		
2005–2006			Marriotts Ridge	Cedar Lane
2006–2007	Dayton Oaks			
2007 2000	Veterans			
2007–2008	Bushy Park Replacement			
2013–2014	Ducketts Lane			
2014–2015		Thomas Viaduct		
2016-2017		Wilde Lake*		
2017-2018	Hanover Hills			

<sup>\*</sup> Replacement School

## Additions/Renovations Constructed with Assistance From Maryland School Construction Funds (1980–2018)

Completion (School year)	Elementary	Middle	High	Special
1980–1981	Atholton			
1981–1982	Clarksville			
1983–1984	Guilford	Waterloo		
1985–1986			Mt. Hebron	
1986–1987	Guilford			School of Technology
1987–1988			Atholton	- CJ
1991–1992			Oakland Mills	
	Northfield	Owen Brown		
1994–1995	Centennial Lane			
	Dasher Green			
	Daditor Groom	Wilde Lake		
1995–1996		Oakland Mills		
1996–1997	Hammond	Cariana Milis	Hammond	
1770-1777	Swansfield	Dunloggin	Hammond	
1998–1999	Jeffers Hill	Dunloggin		
1770-1777	Waterloo			
	Ilchester			
2000–2001	Pointers Run			
	St. John's Lane			
	Talbott Springs			
2001–2002	Forest Ridge			
	Pointers Run			
	Atholton		Centennial	
2002–2003	Clarksville			
	Hollifield Station			
2003–2004	Fulton	Patapsco	Atholton	
2004–2005	Manor Woods	Clarksville	Mt. Hebron	
2004–2003	Rockburn		Oakland Mills	
	Clarksville		Howard	
	Fulton			
2006–2007	Pointers Run			
	Triadelphia Ridge			
	All Day K			
	All Day K			
	Waverly			
2007–2008	Centennial Lane			
	Clarksville			
	All Day K	Clarksville	Glenelg	
2008–2009	Centennial Lane	Old No Ville	Gronerg	
2000 2007	Worthington			
	All Day K			
2009–2010	Clemens Crossing			
	Waterloo			
2010–2011	Northfield			
2011–2012	Hammond	Hammond	Hammond	
	Bellows Spring		Centennial	
2012–2013	Thunder Hill			
	Bollman Bridge			
2013–2014	Gorman Crossing Phelps Luck			
	Stevens Forest			
2014–2015	Running Brook			
	Longfellow		Atholton	
2015–2016	Laurel Woods		,	
2016–2017	Deep Run	Patuxent Valley		
2016-2017	Swansfield	,		
2017-2018	Waverly			



# BOARD OF EDUCATION POLICY 6020 SCHOOL PLANNING/SCHOOL CONSTRUCTION PROGRAMS

Effective: August 14, 2014

#### I. Policy Statement

The Board of Education is responsible for providing safe, engaging and supportive educational and work environments for all students and staff. The Board recognizes the continuing need to plan, design, and construct new educational facilities and to renovate or make additions to existing schools that are in accordance with all applicable code, as well as Maryland and federal law. Fulfilling this responsibility requires a comprehensive program that monitors population trends, enrollment trends, educational program spatial requirements, cost/benefit considerations, technologies that support environmentally responsible construction, and an annual six-year capital improvement program.

#### II. Purpose

The purpose of the policy is to establish guidelines for the administration of the School Planning and the School Construction programs.

#### III. Definitions

Within the context of this policy, the following definitions apply:

- A. Architect/Engineering Firm (A/E) A designation usually reserved by law for a person or organization professionally qualified and duly licensed to perform architectural and/or engineering services including, but not necessarily limited to, analysis of project requirements; creation and development of the project design; preparation of drawings, specifications, and bidding requirements; and general administration of the construction contract.
- B. Beneficial Occupancy The use by the owner of a project or portion thereof before all the terms of the contract are complete.
- C. Bid The price a contractor commits to for constructing a project.
- D. Bid Procedures Criteria to determine the award of a contract pursuant to Policy 4050 Procurement of Capital Materials, Supplies, Equipment and Services.
- E. Bonds General obligation documents issued by the county to borrow money to fund capital projects.

- F. Capital Improvement Program (CIP) All capital improvements listed as part of the Board's annual approved capital budget.
- G. Capital Improvement Project Any physical betterment or improvement and any preliminary studies and surveys relative thereto, including but not limited to, any property of a permanent nature, and equipment needed in connection with such improvement when first erected or acquired.
- H. Change Order A written document to the contractor signed by the owner and engineer or architect, issued after the execution of the contract, authorizing a change in the work or an adjustment in the contract sum.
- I. Construction Manager (CM) A person or organization hired to coordinate and manage the construction phases of a project with the objective of minimizing project construction time and cost while maintaining the quality, function, and aesthetics of the building.
- J. Design Stages The three phases of an architect's basic services, which include:
  - 1. Schematic Design (SD) the first phase of the architect's basic services. In this phase, the architect meets with the project planning team to ascertain the requirements of the project and prepares schematic design studies consisting of drawings and other documents illustrating the scale and relationship of the project components for approval by the Board. A statement of probable construction cost is also submitted at this time.
  - 2. Design Development (DD) the second phase of the architect's basic services. In this phase the architect prepares, from the approved schematic design studies, the design development documents for approval by the Board. These design documents consist of drawings and other documents to fix and describe the size and character of the entire project as to structural, mechanical and electrical systems, materials and other essentials as may be appropriate. The architect also submits to the Board a further statement of probable construction costs.
  - 3. Construction Documents (CD) the third phase of the architect's basic services. In this phase the architect prepares, from the approved design development documents, the working drawings, specifications, and necessary bidding information for approval by the Board. A final cost estimate is prepared before the project is bid.
- K. Facility Design Plans, elevations, sections, and other drawings and specifications that may be necessary for a building or other structure.

- L. Facility Planning Educational and architectural planning and analysis used to produce and design the concept for school projects.
- M. Final Occupancy The point at which all or a designated portion of a building complies with the provisions of a contract and all applicable county and state statutes and regulations.
- N. Interagency Committee on School Construction (IAC) The state agency responsible for the review/approval of construction documents and funding of schools or school construction projects.
- O. Office of Safety, Environment and Risk Management The office that is responsible for reviewing and monitoring the design and construction phases related to environmental initiatives, such as Integrated Pest Management (IPM), Indoor Air Quality (IAQ), and Asbestos Abatement.
- P. Office of School Construction The office that is responsible for all phases of planning, design and construction of new schools as well as additions to and comprehensive modernization of existing schools, from planning through occupancy.
- Q. Office of School Planning The office that is responsible for projecting needs based on demographics for the purpose of assisting the Superintendent in the development of the Capital Improvement Program.
- R. Punch List List made near the completion of work, indicating items to be furnished or work to be performed by the contractor or subcontractor in order to complete the work as specified in the contract documents.
- S. State of Maryland Public School Construction Program (PSCP) Program that provides for the funding of public school construction.
- T. Sustainable Design Design that seeks to reduce negative impacts on the environment and the health and comfort of building occupants, thereby improving building performance. The objectives of sustainability are to reduce consumption of non-renewable resources, minimize waste, and create healthy, productive environments.
- U. Warranty/Guarantee Period Period of time in which the quality of work and/or satisfactory performance is guaranteed.

#### IV. Standards

- A. This policy and associated implementation procedures apply to the capital improvement projects that are listed as part of the Board's annual approved capital budget requiring contracts and consultant agreements.
- B. The Howard County Public School System (HCPSS) employs sustainable design construction that supports educational program needs and creates a safe and nurturing environment for students and staff within allotted budgetary resources.
- C. The school planning/school construction program involves a sequential plan of action and is divided into ten general categories, each requiring professionally trained and experienced staff to plan and carry out the requirements of the program consistent with the Superintendent's Safety Guidelines for Renovation and Construction Projects and all applicable regulations.
  - 1. Long-Range Planning and Student Population Projection
    - a. This category involves the annual projection of pupil population and general population growth by the Office of School Planning. Short-range demographic studies to support the Capital Improvement Program, school attendance area studies, transportation planning, and other special needs are also included.
    - b. By state regulation the Board is also required to develop, maintain, and annually update a master plan for the school system for submission to the IAC. This plan has as its basis a variety of population studies which guide the decision making for school facilities on both a long and short-term basis.

#### 2. Capital Improvement Program

- a. The Capital Improvement Program is a projection of the school facility needs for the next fiscal year (Capital Budget) and the following five-year period. The Capital Improvement Program is based on needs to support the educational program of the system with new schools, modernizations, and other construction projects.
- b. The local Capital Improvement Program serves as the basis for state funding requests through the Interagency Committee for School Construction and the State of Maryland Public School Construction Program.

#### 3. Site Selection

Procedures for site selection and summarization of site size criteria for elementary, middle and high schools are addressed in Policy 6000 Site Selection and Acquisition. As part of the selection process, the Office of School Construction produces studies including site layouts and environmental assessments.

#### 4. Architect/Engineering Firm and Construction Manager Selection

Procedures for architectural/engineering and construction management services selection are addressed in Policy 6030 Procurement of Architectural/Engineering and Construction Management Services.

#### 5. Facility Planning and Facility Design

The facility planning and design process allows for orderly and systematic design of school facilities. This process is conducted using either the Board-approved General Elementary Educational Specifications for New Schools, General Educational Specifications for New Howard County Middle Schools, General Educational Specifications High Schools, or the Board approved Guidelines Manual for Renovations and Modernizations of Existing Schools as the basic references for the facility in question. These documents describe the basic educational philosophy, instructional program, and spatial requirements needed to implement the planning and construction program.

#### 6. Bid and Award

The bid and award procedures for school construction projects conform to those used for the procurement of other goods and services which are addressed in Policy 4050. In addition, these procedures comply with the requirements of the State of Maryland Public School Construction Program.

#### 7. Contract and Construction Administration

The Office of School Construction is responsible for monitoring construction work and administering the schedule, budget, and change orders that affect the scope and/or cost of the work. A school construction progress report which includes these topics is submitted monthly to the Board.

In accordance with the provisions of Policy 6030, a construction manager may be hired to manage the construction process.

8. Official Acceptance of Capital Improvement Projects

Capital improvement projects may be designed to be accepted in stages or upon total completion of work, based on staff recommendation to and approval by the Board.

9. Post-Acceptance Evaluation

Use, occupancy, and evaluation by staff may occur only after the project has been officially accepted. The Board will receive a final report following the walk-through.

10. Temporary and Relocatable Facilities

Relocatable classroom units should be considered under the following conditions and within the context of Policy 6010 School Attendance Areas:

- a. Where school population growth occurs
- b. Where school capacity is near maximum
- c. When boundary lines are adjusted
- d. Where population is projected to remain high for at least one year
- e. Where school construction or renovation projects require the provision of swing space to accommodate the student population and minimize the impact on instruction.

Where excess population is projected to remain beyond four years, consideration should be given to an addition or new construction.

D. To the extent possible, school facilities and sites should be available for after school use by the community. The possibility of joint use development of school and recreational facilities, including joint construction of school and recreational space, is encouraged on a case-by-case basis.

#### V. Compliance

- A. The Superintendent/Designee is responsible for the administration of the school planning and construction programs.
- B. The Office of School Planning and the Office of School Construction are responsible for collaboration in order to obtain the efficient implementation of this policy.
- C. For Capital Improvement Projects, the Principal is responsible for communicating project information to the parent community in a timely manner.

#### VI. Delegation of Authority

The Superintendent is authorized to develop appropriate procedures to implement this policy.

#### VII. References

#### A. Legal

The Annotated Code of Maryland, Education Article

- § 3-602.1 (requirements to design high performance buildings)
- § 4-115 (right to acquire land, school sites or buildings)
- § 4-116 (land use approval procedures)
- § 4-117 (construction and remodeling conformance to state and county building codes)
- § 5-301 (Board of Public Works role and procedures in school construction)
- § 5-302 (composition and role of the IAC in school construction)
- § 5-303 (procedure for determining the cost of renovating existing schools)
- § 5-312 (state funding support related to high performance buildings)
- § 7-108 (guidelines for community use of public school facilities)
- § 7-109 (use of public school facilities as day care centers)

COMAR 13A.01.02.03 (requirements for obtaining State Superintendent's approval for school construction projects)

COMAR 15.05.02 (regulations pertaining to integrated Pest Management and Notification of Pesticide Use in a Public School Building or on School Grounds)

Americans with Disabilities Act (ADA)

Occupational Safety and Health Act (OSHA)

Maryland Occupational Safety and Health Act (MOSHA)

#### B. Other Board Policies

Policy 4050	Procurement of Capital Materials, Supplies, Equipment,
	and Services

Policy 6000 Site Selection and Acquisition

Policy 6010 School Attendance Areas

Policy 6030 Procurement of Architectural/Engineering and

**Construction Management Services** 

#### C. Other

General Elementary Educational Specifications for New Schools General Educational Specifications for New Howard County Middle Schools

General Educational Specifications High Schools

Guidelines Manual for Renovations and Modernizations of Existing Schools Safety Guidelines for Renovation and Construction Projects

### VIII. History

ADOPTED: September 4, 1968

REVIEWED:

MODIFIED: August 14, 2014 REVISED: September 13, 1990

January 14, 2010

EFFECTIVE: August 14, 2014



# POLICY 6020-PR IMPLEMENTATION PROCEDURES SCHOOL PLANNING/SCHOOL CONSTRUCTION PROGRAMS

Effective: July 1, 2010

These procedures apply to the construction of new schools and the modernization/renovation of existing facilities that are included in the Board's Capital Improvement Program.

### I. Long-range Planning and Student Population Projection

The Office of School Planning will:

- A. Gather enrollment, population, and housing data from appropriate sources
- B. Provide an annual projection using the cohort survival method or other established demographic methodology
- C. Provide an annual report of projection accuracy to the Board of Education.

#### II. Capital Improvement Program

The Office of School Planning and the Office of School Construction will:

- A. Develop the Capital Improvement Program based on population growth and anticipated needs of that population
- B. Present the Board's requested six-year Capital Improvement Program, which includes a request for the next fiscal year (capital budget) and the following five-year period
- C. Prepare the State of Maryland Public School Construction Program (PSCP) budget funding request
- D. Incorporate the state budget request with the Board six-year Capital Improvement Program to determine the annual county Capital Improvement Program request
- E. Select and analyze site(s).

#### III. Site Selection

Site selection and acquisition is recommended to the Board after being analyzed for appropriateness for a school. (See Policy 6000 Site Selection and Acquisition.)

#### IV. Architect/Engineering Firm and Construction Manager Selection

Procurement of architectural/engineering and construction management services are recommended to and approved by the Board in compliance with Policy 6030 Procurement of Architectural/Engineering and Construction Management Services.

#### V. Facility Planning and Facility Design

A facility planning team is convened, consisting of school and community members, personnel from the Office of School Construction, a designee from the Office of Safety, Environment and Risk Management, other central office personnel, the project architect, and others who may be named by the Superintendent/Designee. The planning team provides input to the architect in developing a series of three design studies that meets Board policy as well as the objectives of the applicable educational specifications or renovation guidelines.

The series of three design studies is as follows:

#### A. Schematic Design Phase

- 1. Planning team named by the Superintendent/Designee
- 2. Description of conceptual design
- 3. Initial cost analysis
- 4. Presentation to and approval by the Board.

#### B. Design Development Phase

- 1. Description of the design
- 2. Detailed layouts of subject areas
- 3. Cost analysis
- 4. Presentation to and approval by the Board.

#### C. Construction Documents Phase

- 1. Description of the final design
- 2. Cost analysis and cost reduction
- 3. Final review of drawings and specifications
- 4. Presentation to and approval by the Board
- 5. Preparation of bid documents.

The above steps may be combined. In each phase, the effect on the occupants, the building structure, and/or systems is considered. Each phase is submitted for review and approval by the Board and the Interagency Committee on School Construction (IAC). Copies of the Howard County Public School System (HCPSS) response to the design

submission review letters from the IAC approving agencies will also be submitted to the Board

#### VI. Bid and Award

Pursuant to Policy 4050 Procurement of Capital Materials, Supplies, Equipment, and Services, these procedures call for a publicly announced bid period during which interested bidders examine the bid documents and submit a sealed bid by the date and time required. The bid documents are opened in public and the price submitted for each bid item is read aloud. At a subsequent meeting of the Board, the results of the bid are presented and a recommendation to award to the lowest responsible and responsive bidder is made.

The final decision is made by the Board. Upon submission of all documents, bonds, and other matters required in the contract, a formal contract is signed.

#### VII. Contract and Construction Administration

#### A. Office of School Construction

The project architect serves as the Board's representative and administers the contract, answers technical questions, approves submittals, and initiates change orders and requests for proposals subject to the Board's approval. The Office of School Construction coordinates the completion schedule with the principal/designee and other school system personnel to ensure that furniture and equipment deliveries, technology services, and food services satisfy the requirements for their respective sections. Prior to the opening of school, the Office of School Construction monitors each project to resolve any last minute problems and continues this supervision during the warranty period.

The Office of School Construction supervises the construction, budget, schedule, and quality of work, administers change order requests, and administers the warranty period. When school projects are technically complex, have a very short construction time, or require staff attention beyond the time available, a construction manager may be hired to manage the construction process.

#### B. Office of Safety, Environment and Risk Management

The Office of Safety, Environment and Risk Management monitors the design and construction phases at regular intervals and in response to specific concerns. Consistent with all statutory requirements, monitoring includes Integrated Pest Management (IPM), Indoor Air Quality (IAQ), and abatement of potentially hazardous materials.

#### VIII. Official Acceptance of Capital Improvement Projects

New facilities and other Capital Improvement Projects may be accepted in several ways. If conditions permit, the school system will wait until all major and minor building system corrections are fully complete and all minor repairs, deficiencies and discrepancies (punch list items) have been corrected. The project architect will then certify that the building is complete and has been constructed according to the drawings and specifications. This marks the beginning of the warranty period for the building. School facilities are typically scheduled so that all construction will be complete and the building ready for acceptance in early summer. Final inspection and acceptance involves a review of the project at substantial completion of construction, which includes listing items to be adjusted, corrected, or completed by the contractor's "punch list." In most cases, the project is complete except for minor system work and completion of the punch list items by late summer.

The Office of School Construction is responsible for certifying, as applicable, beneficial occupancy, final occupancy, move-in, punch list, and warranty/guarantee.

#### **IX.** Post-Acceptance Evaluation

- A. After project acceptance, furnishings and movable equipment can be installed, supplies can be delivered and stored, and the staff can occupy the facility for operation. At this time, the construction project enters into a one year guarantee and a two year mechanical/electrical guarantee period during which time discrepancies in the workmanship, materials, and equipment supplied under the contract are noted and corrected. Some specifically identified warranties/guarantees may be longer than one to two years.
- B. Following the move-in, the Office of School Construction works closely with the school administration and maintenance personnel to correct any problems that arise during the warranty period.
- C. After the first instructional year following construction, a walk-through of the facility is conducted to evaluate the success of the facility as a teaching environment and the success of the educational concepts in the General Elementary Educational Specifications for New Schools, or General Educational Specifications for New Howard County Middle Schools, or General Educational Specifications High Schools or Guidelines Manual for Renovations and Modernizations of Existing Schools in effect at the time the project was designed. The facility is also evaluated as to use of materials, building systems, construction quality, and other aspects pertaining to the building.

- D. A walk-through of the building by a representative team of stakeholders may include a:
  - 1. Teacher representative
  - 2. Administration personnel
  - 3. Custodian
  - 4. PTA representative
  - 5. School facilities representative(s)
  - 6. Designee from Safety, Environment and Risk Management.

#### X. Temporary and Relocatable Facilities

Placement of temporary and relocatable portable facilities is determined by and implemented as follows:

- A. Presentation of current population projections
- B. Identification of where new units are needed
- C. Evaluation of site plans
- D. Evaluation of cost implications
- E. Presentation to and approval by the Board
- F. Reassignment or procurement of units
- G. Installation of units
- H. Post installation inspection by the Office of School Construction.

ADOPTED: September 13, 1990 AMENDED: January 14, 2010 EFFECTIVE: July 1, 2010