HOWARD COUNTY PUBLIC SCHOOL SYSTEM Capital Budget FY 2018

Capital Improvement Program FY 2019–2023 Long-Range Master Plan FY 2018–2027

Superintendent's Proposed Budget

Superintendent's Proposed FY 2018 Capital Budget Capital Improvement Program FY 2019–2023 Long-Range Master Plan FY 2018–2027

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Student Member

Griffin Diven



Superintendent's Proposed FY 2018 Capital Budget Capital Improvement Program FY 2019–2023 Long-Range Master Plan FY 2018–2027

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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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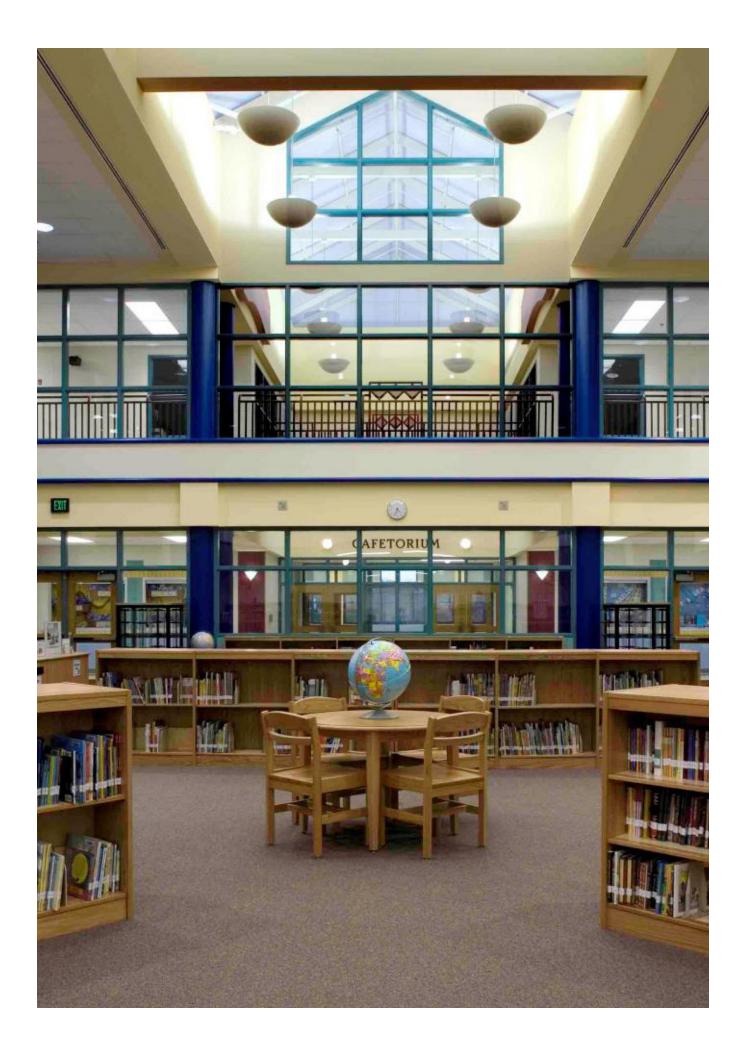
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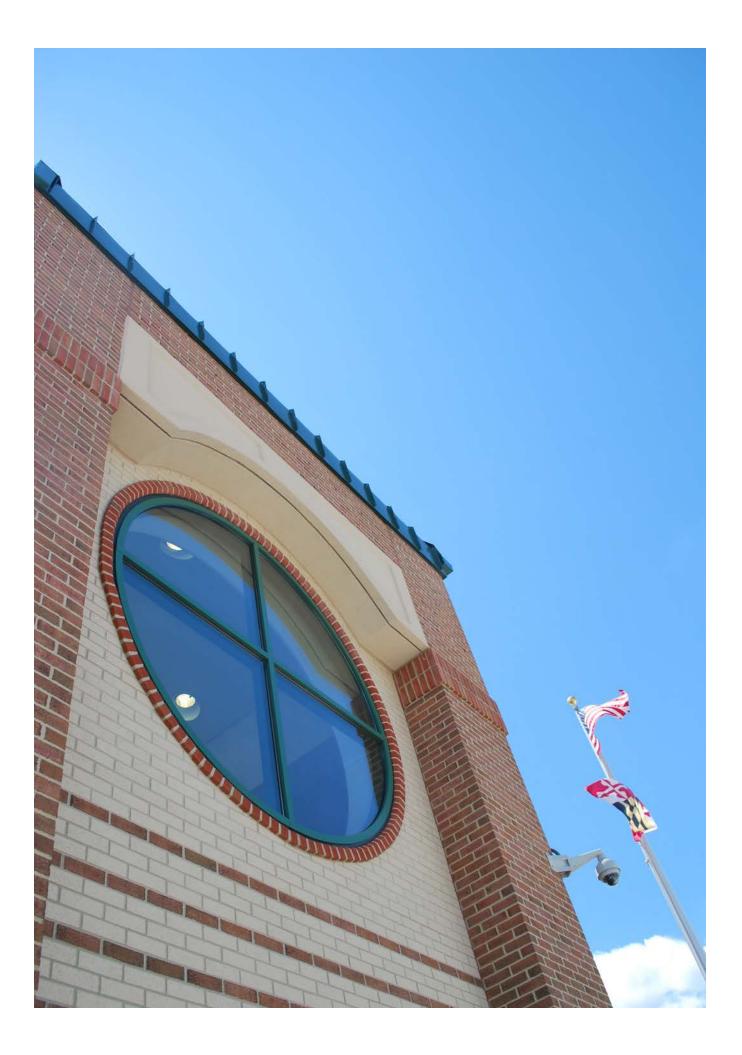


Superintendent's Proposed FY 2018 Capital Budget Capital Improvement Program FY 2019–2023 Long-Range Master Plan FY 2018–2027

Section 1

Executive Summary

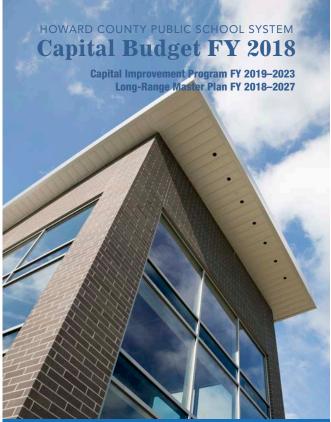
September 2016



Introduction

This document contains the Howard County Public School System's (HCPSS) Superintendent's Proposed FY 2018 Capital Budget and the FY 2019–2023 Capital Improvement Program (CIP) schedules. Projects are presented for the next fiscal year and future years, documenting longrange 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 23, 2016, the Feasibility Study provided new enrollment projections and proposed future redistricting. Several factors affect the total FY 2018 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 decreased to \$315.35 per square foot. Project budgets have increased to



Superintendent's Proposed Budget

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

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 2017. The capital budget is submitted much earlier than the operating budget to accommodate deadlines associated with submission of the State capital budget to the Public School Construction Program.

Executive Summary provides an introduction to the Superintendent's Proposed FY 2018 Capital Budget, the Capital Improvement Program FY 2019-2023, and the Long-Range Master Plan FY 2018-2027. It presents a high level overview of the budget process and the FY 2018 Proposed Capital Budget. Included in the Executive Summary is the Superintendent's Message which provides an overview of the budget issues. Among other information found in the Executive Summary is a discussion of the capital budget alignment with the school system's strategic plan, Vision 2018: Fulfilling the Promise of Preparation, 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 county and the school system, with maps of school locations throughout the county displayed by school level.

Project Detail presents detail on each project presented in the proposed FY 2018 Capital Budget as well as information on longer range project plans.

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

Message from the Superintendent

September 8, 2016

Howard County Residents:

I am pleased to present the Howard County Public School System (HCPSS) Superintendent's Proposed FY 2018 Capital Budget and the Capital Improvement Program FY 2019–2023 and the Long-Range Master Plan FY 2018–2027. It provides the framework and plans for educational facilities that support a positive learning environment. The plans are integral to achieving *Vision 2018*, *Fulfilling the Promise of Preparation*, the school system's five-year strategic plan. The capital improvement program and long-range master plan address projected student capacity needs by implementing capital projects and facility renovations when and where they are most needed. The \$94 million FY 2018 Proposed Capital Budget was developed from these plans.



Highlights of the FY 2018 Proposed Capital Budget and FY 2018–2027 Long-Range Master Plan are noted below:

- The FY 2018 Proposed Capital Budget is \$94 million.
- The cumulative total of the ten-year Long-Range Master Plan for FY 2018–2027 is \$964 million and includes funding for a replacement middle school, four future elementary schools, and a future high school which are necessary to meet projected enrollment growth and capacity needs. It also includes approximately \$360 million in systemic renovations, modernizations, major programmatic renovations, and additions to existing school facilities.
- The HCPSS is projected to enroll approximately 12,000 additional students between 2017 and 2027. Over 5,700 (Grades K-12) additional seats are provided in the FY 2018–2027 Long-Range Master Plan. Coupled with the 55,000 seats of existing capacity in 2016 and the use of relocatable classrooms where required, the proposed capital program is sufficient to meet near-term student enrollment needs.

The completion of Ducketts Lane Elementary School and Thomas Viaduct Middle School, the reclaimed community rooms for classroom use at Ellicott Mills Middle School, Forest Ridge Elementary School, Veterans Elementary School and Gorman Crossing Elementary School, as well as the construction of the Wilde Lake Middle School Replacement School and the New ES #42 addresses capacity needs at the elementary and middle school levels. New HS #13 is being proposed to address the capacity needs at the high school level. The long-range master plan also includes much needed renovations of aging schools and systems.

Message from the Superintendent

The Capital Budget Long-Range Master Planning Committee, comprised of representatives from the HCPSS and the county government, assist in the development of the long-range master plan. The committee evaluates and prioritizes the many potential projects, basing recommendations on updated annual feasibility study data, support for Vision 2018, stakeholder input, and financial considerations. The long-range master plan reflects the collaborative work of this committee to develop a more realistic and affordable plan. Even with these efforts, however, rising costs and growing capacity needs result in future capital needs of the school system that will require an increase to the historical funding levels by the county and state. Funding of the capital budget currently depends predominantly upon the issuance of bonds by the county and state. We look forward to continuing our ongoing discussions with County Council and other stakeholders regarding both dedicated and alternative financing sources for education.

The FY 2018 Capital Budget schedule is detailed at the end of the Executive Summary and includes the dates of Board public hearings and work sessions. I look forward to working with the Board of Education, parents, community members, and business leaders to secure the necessary funding and support for the improvements to Howard County public school facilities.

Sincerely,

Ron G. Jon

Renee A. Foose, Ed.D. Superintendent

Superintendent's Proposed

September 8, 2016

Capacity	Project	Occupancy	Approved Appropriations	Local Bonds	Codes	Total FY18 Request	Requested Project Totals Through FY18
760	Wilde Lake MS Replacement School	Aug 2017	\$ 43,377	\$ 2,000	(C,E)	\$ 2,000	\$ 45,377
-	Patuxent Valley MS Renovation	Aug 2017	28,035	1,500	(C,E)	1,500	29,535
100	Swansfield ES Renovation/Addition	Aug 2018	22,495	4,407	(C,E)	4,407	26,902
100	Waverly ES Renovation/Phase II Addition*	Aug 2018	13,359	18,896	(C,E)	18,896	32,255
788	New ES #42	Aug 2018	17,333	20,658	(C)	20,658	37,991
-	Talbott Springs ES Renovation	Aug 2020	-	3,000	(P)	3,000	3,000
-	Oakland Mills MS Renovation*	Aug 2020	-	3,000	(P)	3,000	3,000
1600-1800	New HS #13	Aug 2023	-	3,300	(P)	3,300	3,300
	Systemic Renovations/Modernizations		239,664	26,750	(P,C,E)	26,750	266,414
	Roofing Projects		45,537	-	(P,C,E)	-	45,537
	Playground Equipment		2,680	560	(E)	560	3,240
	Relocatable Classrooms		18,910	1,500	(P,C,E)	1,500	20,410
	Site Acquisition & Construction Reserve		20,836	2,000	(P,C)	2,000	22,836
	Technology		39,486	5,000	(C,E)	5,000	44,486
	School Parking Lot Expansions		4,200	600	(P,C,E)	600	4,800
	Planning and Design		600	300	(P)	300	900
	Barrier Free		5,628	200	(P,C,E)	200	5,828
	TOTALS		\$ 502,140	\$ 93,671		\$ 93,671	\$ 595,811

(In Thousands)

(P) Planning

(C) Construction

(E) Equipment

* Partial planning funds received in Systemic Renovation Project

FY 2019-2023 Capital Improvement Program

(In Thousands)

Superintendent's Proposed

September 8, 2016

Grades	Capacity	Project	Occupancy	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	5 Year CIP Total
K-5	100	Waverly ES Renovation/Phase II Addition*	Aug 2018	\$ 1,500	\$-	\$-	\$-	\$-	\$ 1,500
K-5	788	New ES #42	Aug 2018	6,132	-	-	-	-	6,132
K-5	-	Talbott Springs ES Renovation	Aug 2020	15,800	9,200	-	-	-	25,000
6-8	-	Oakland Mills MS Renovation*	Aug 2020	18,828	6,000	-	-	-	24,828
9-12	1600-1800	New HS #13	Aug 2023	10,950	35,250	27,200	36,500	25,325	135,225
K-5	788	New ES #43	Aug 2023	-	5,380	20,166	22,125	8,124	55,795
6-8	156	Ellicott Mills MS Addition	Aug 2024	-	-	-	-	544	544
9-12	-	Hammond HS Renovation	Aug 2028	-	-	-	-	2,800	2,800
	-	Systemic Renovations/Modernizations		27,300	26,657	37,703	23,822	42,775	158,257
	-	Roofing Projects		5,000	5,000	5,000	5,000	5,000	25,000
	-	Playground Equipment		300	300	300	300	300	1,500
	-	Relocatable Classrooms		1,500	1,500	1,500	1,500	1,500	7,500
	-	Site Acquisition & Construction Reserve		2,000	2,000	2,000	2,000	2,000	10,000
	-	Technology		5,000	5,000	5,000	5,000	5,000	25,000
	-	School Parking Lot Expansions		600	600	600	600	600	3,000
	-	Planning and Design		300	300	300	300	300	1,500
	-	Barrier Free		200	200	200	200	200	1,000
		TOTALS		\$ 95,410	\$ 97,387	\$ 99,969	\$ 97,347	\$ 94,468	\$ 484,581

* Partial planning funds received in Systemic Renovation Project

FY 2018-2023 Long-Range Systemic Renovation Projects

(In Thousands)

Superintendent's Proposed

September 8, 2016

Project	FY 2018 Local Bonds	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	Totals
RTU Replacements	\$ 6,900	\$ 7,200	\$ 2,500	\$ 2,500	\$ 2,500	\$ 2,500	\$ 24,100
HVAC Replacements	10,100	9,100	2,500	2,500	2,500	2,500	29,200
Kitchen Modernizations	300	300	300	300	300	300	1,800
Safety and Accessibility Projects	2,750	-	-	-	-	-	2,750
West Friendship ES MBR	-	4,000	-	-	-	-	4,000
Administration Office	-	-	11,100	-	-	-	11,100
Dunloggin MS Renovation + Addition	-	-	3,557	25,703	7,136	-	36,396
Jeffers Hill ES Renovation	-	-	-	-	2,015	11,475	13,490
Harper's Choice MS Renovation	-	-	-	-	2,671	16,021	18,692
Hammond MS Renovation	-	-	-	-	-	3,279	3,279
Other Systemic	6,700	6,700	6,700	6,700	6,700	6,700	40,200
TOTALS	\$ 26,750	\$ 27,300	\$ 26,657	\$ 37,703	\$ 23,822	\$ 42,775	\$ 185,007

FY 2018 Superintendent's Proposed Capital Budget

Superintendent's Proposed

Total Approp. Approved plus FY18-FY26 Project Appropriations FY 2018 FY 2019 FY 2020 FY 2021 FY 2022 FY 2023 FY 2024 FY 2025 FY 2026 FY 2027 Request Wilde Lake MS Replacement School 43,377 \$ 2,000 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ 45,377 --------. Patuxent Valley MS Renovation 28,035 1,500 29,535 ---------Swansfield ES Renovation/Addition 22.495 4.407 26,902 --------Waverly ES Renovation/Phase II Addition* 13,359 18,896 1.500 . -. ---33,755 --New ES #42 17,333 20,658 6,132 ------44,123 --Talbott Springs ES Renovation 3.000 15.800 9.200 --28.000 ------Oakland Mills MS Renovation* 3,000 18,828 6,000 27,828 --------New HS #13 3,300 10,950 35,250 27.200 36,500 25.325 138,525 -----New ES #43 5,380 20,166 22,125 8,124 -55,795 ----Ellicott Mills MS Addition 544 5.404 5.948 --. -----. Hammond HS Renovation -2,800 25,748 17,099 15,099 11,099 71,845 --. -New ES #44 5.380 23.099 17.906 9,410 55,795 -. ----New ES #45 5,380 15,166 20,546 . --------Systemic Renovations/Modernizations 239,664 26,750 27,300 26,657 37,703 23,822 42,775 40,661 42,694 44,829 47,070 599,925 Roofing Projects 45.537 5.000 5.000 5.000 5.000 5.000 5.000 5.000 5.000 5.000 90.537 -Playground Equipment 2.680 560 300 300 300 300 300 300 300 300 300 5,940 Relocatable Classrooms 18.910 1.500 1.500 1.500 1.500 1.500 33.910 1.500 1.500 1.500 1.500 1.500 Site Acquisition & Construction Reserve 20,836 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 40,836 Technology 39,486 5,000 5,000 5,000 5.000 5,000 5.000 89,486 5.000 5.000 5,000 5,000 School Parking Lot Expansions 4,200 600 10,200 600 600 600 600 600 600 600 600 600 Planning and Design 600 300 300 300 300 300 300 300 300 300 300 3,600 Barrier Free 5,628 200 200 200 200 200 200 200 200 200 200 7,628 TOTALS \$ 502.140 \$ 93,671 \$ 95,410 \$ 97,387 \$ 99,969 \$ 97,347 \$ 94,468 \$ 92,093 \$ 97,792 \$ 98,114 \$ 97,645 \$ 1.466.036

Howard

County Public School System

9

* Partial planning funds received in Systemic Renovation Project

Ten-Year Long-Range Master Plan = \$963,896

(In Thousands)

FY 2018-2027 Long-Range Master Plan



VISION 2018

Fulfilling the Promise of Preparation

Vision Every student is **inspired** to learn and **empowered** to excel.

Mission

We cultivate a **vibrant** learning community that prepares students to thrive in a **dynamic** world.

GOAL 1

Students

Every student achieves academic excellence in an inspiring, engaging, and supportive environment.

GOAL 2

Staff Every staff member is engaged, supported, and successful.

GOAL 3

Families and the Community Families and the community are engaged and supported as partners in education.

GOAL 4

Organization Schools are supported by world-class organizational practices.

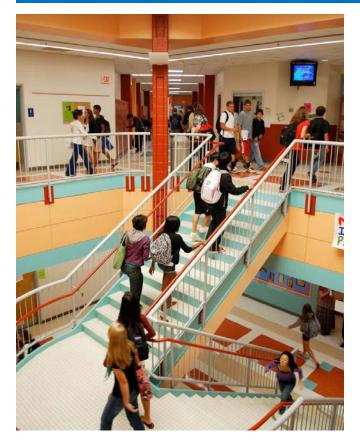
Guiding Principles

We believe in...

- Achieving excellence in all we do
- Developing each student's unique gifts
- Engaging students in relevant, experiential, and personalized learning
- Cultivating creative problem solving, critical thinking, and innovation
- Promoting integrity, civility, and global citizenship
- Enriching learning by honoring our diversity
- Fostering a culture of collaboration, trust, and shared responsibility
- Removing barriers to success

THE HOWARD COUNTY PUBLIC SCHOOL SYSTEM

Capital Budget Support of Vision 2018



Alignment with Strategic Plan

Vision 2018: Fulfilling the Promise of Preparation is the school system's strategic plan to build an educational program that is among the best in the world. While much of this plan is implemented in the operating budget, the Capital Improvement Program (CIP) supports achievement of each goal in Vision 2018.

The CIP supports Goal 1 Strategy 1.4.6: Configure physical spaces to facilitate learning by providing spaces configured to facilitate learning in accordance with Board approved educational specifications. The CIP also supports Strategy 1.8.2: Provide opportunities for students to explore a wide variety of experiences and to build competencies in academics, athletics, and the arts. Classrooms are specified to contain students according to approved class size ratios. Beyond the regular classrooms, facilities have specialized spaces which are equipped to deliver approved programs.



The CIP provides facilities with program areas for physical education and play areas for unstructured activity, thus promoting physical activity as a part of every child's daily routine. Walking and biking are facilitated with pathways and bicycle racks. Facilities include a cafetorium or cafeteria outfitted with the necessary equipment to deliver approved menu items.

Facilities also provide opportunities for students to learn how to balance their choices in activity modalities, including independent activity, face-toface interaction, athletics, creative endeavors, and screen time. Facilities are designed to physically and socially activate students, staff, and the community. Stimulating indoor and outdoor spaces utilize light and appealing designs to create spaces for impromptu use.

Goal 2 seeks to have every staff member engaged, supported, and successful. Facility planning includes cross-functional representatives of the school system at all levels of the construction and renovation process from acquisition of land to engagement during construction. Planning, construction, and maintenance information is provided online through BoardDocs as well as separate web pages. Staff is engaged with satisfaction surveys and presentations at training sessions.

Capital Budget Support of Vision 2018

Goal 3 seeks to have families and the community engaged and supported as partners in education. Facilities are designed with secure access points to ensure visitors' needs are addressed while protecting students and staff from intrusion. Classrooms and staff work areas are designed to be comfortable and well lit. Projects include outreach to the community through meetings and presentations to ensure notification and collection of valuable stakeholder input. Staff coordinate with local officials, safety inspectors, and environmental regulators in support of student well-being.

Goal 4 seeks to ensure that schools are supported by world-class organizational practices. Facilities and equipment are constructed according to required codes and best practices. Regular safety and maintenance inspections are conducted according to local, state, and national standards. Industry best practices are implemented and benchmarks are identified and used. Examples include LEED standards and Green School Certification. Facilities are designed to incorporate technology selected to support overall organized goals.





Executive Summary

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 Facility Master Plan, and the Comprehensive Facility Maintenance Plan.

The formulation of the FY 2018 Capital Budget, FY 2019–2023 Capital Improvement Plan, and the FY 2018–2027 Long-Range Master Plan begins with the annual completion of enrollment projections first presented in the 2016 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 percentage capacity utilization, 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 on the elementary, middle, and high school level pages found in the Supporting Data section.



Executive Summary

Capital Planning and Growth Management



General Plan

The Capital Improvement Plan (CIP) is developed in alignment with the Board's strategic plan. However it must conform with another important 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 plan conformance 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 three years of redistricting since the adoption of PlanHoward 2030 to make more efficient use of existing schools. A total of 4,326 students were moved. More than three quarters of these students were relocated to existing schools. In 2011, prior to these redistricting efforts, 51 percent of students were in schools which met the BOE target of 90-110 percent utilization. At the end of this redistricting cycle in 2014, 64 percent were in schools that meet this target. This was accomplished with only a four percent increase in capacity.

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 of late with the construction of Ducketts Lane Elementary School and Thomas Viaduct Middle School. The only projects proposed outside of the priority funding area today are the systemic renovations necessary to maintain systems in existing schools, like boiler or HVAC upgrades.

Adequate Public Facilities Ordinance

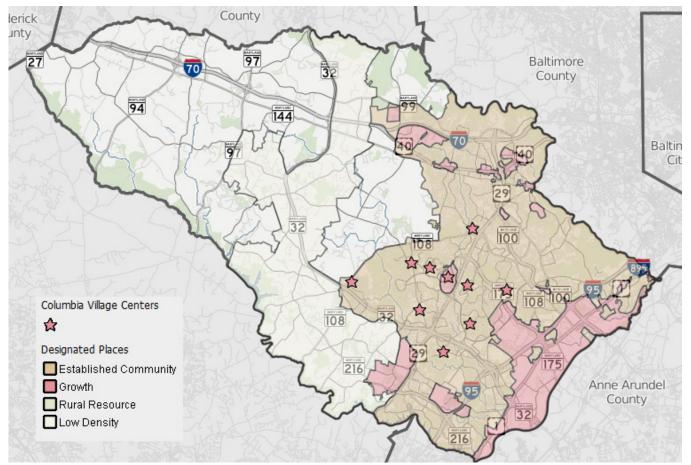
The Adequate Public Facilities Ordinance (APFO) ties future residential construction in Howard County to projected school enrollments and school capacities. Elementary and middle school attendance areas that show a projected enrollment over 115 percent of a school's program capacity are closed to future 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 residential building looks at the projected population of a school three years out from the current year. HCPSS is participating in an APFO task force but no changes to laws are expected before the end of 2016.

Capital Planning and Growth Management

The APFO 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 12, 2016, and subsequently submitted to the County Council and begin with the year 2019. The APFO 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 APFO 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 APFO charts as indicators at the elementary level, one region is "closed" in 2019 and five schools are "closed" in 2019. At the middle school level, three schools are "closed" in 2019.

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 adjusted FY 2017 Capital Budget projects and the new projections. The post-measures charts represent the recommended capital projects for the FY 2018 Capital Budget and redistricting results from the 2016 Feasibility Study 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 2018 Capital Budget, FY 2019–2023 Capital Improvement Program, and the FY 2018–2027 Long-Range Master Plan begins with the annual completion of enrollment projections which were first published in the 2016 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. Elementary school special education classroom capacities are established by the mandated student/teacher ratios for the various programs. 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.

Executive Summary

Enrollment Projections & School Capacities

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.
- Housing 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 redistricting choices with capital investments. If the attending 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 redistricting. Redistricting is 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 Program published as a requirement of Maryland State Department of Education (MSDE). Each year staff evaluate comprehensive maintenance program plans 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 surge space during renovations/ additions, or provide space for a school's program needs. Currently there are 244 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, Waverly 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 and Deep Run Elementary School. Similar plans are underway at Patuxent Valley Middle School. The school system conducts annual 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. Uses of the fund in this way has been infrequent.



Land Bank as of July 1, 2016

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
ES #42 Site	8	Banbury Drive Parcel G	2013	\$ 4,200,000
Faulkner Ridge Center	9.01	Marble Faun Lane	1968	\$ 1

The following properties are held by other parties for future use by the Board of Education for school construction. Upon need for a school site, the Board may utilize these properties.

Reserved Sites	Acreage	Location
Clary's Forest	10	Little Patuxent Parkway near Bright Passage
Dickinson	11	Eden Brook Drive and Weather Worn Way
Dickinson	20	Sweet Hours Way east of Eden Brook Drive
Harper's Choice	5	Rivendell Lane and Cedar Lane
Hopewell	10	Rustling Leaf at Deepage 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.

Renovated Facilities

Deep Run Elementary School

The Deep Run Elementary School project renovated the existing one-story structure originally built in 1989 and renovated in 1997 and 2008, both expanding the footprint of the building. The focus of the project was replacing the modular classrooms with permanent construction, adding 100 seats, and converting the open space pods into individual classrooms. In addition, the administrative suite was relocated to the main entrance, two gifted and talented classrooms were relocated from portable classrooms, and the health suite was renovated to meet current state standards. The two-phase renovation addressed the school's numerous program and functional deficiencies, aging systems, and growing population.

Glenwood Middle School

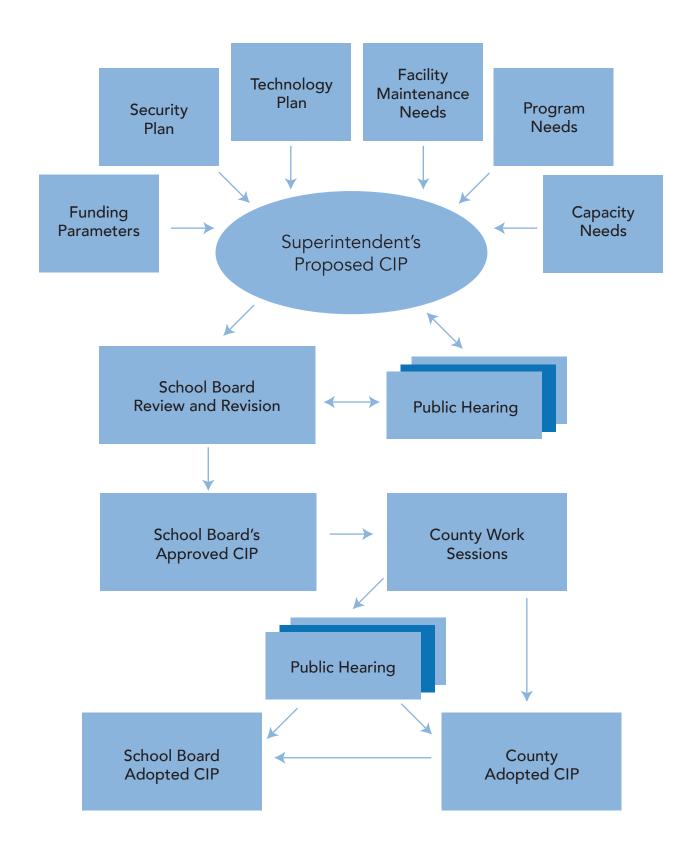
The Glenwood Middle School Project focused on replacing and upgrading the HVAC systems. Phase I was completed over the summer of 2015 and focused on upgrading the HVAC systems in all the classrooms. Phase II was completed during the summer of 2016. The HVAC was upgraded including the installation of new direct digital controls throughout the remaining building, including the media center, administrative offices, gymnasium, cafeteria, and the kitchen. Architectural upgrades include the installation of new casework in the classrooms and the painting of walls throughout the facility. The project ensures the indoor air quality of the facility meets all county and state requirements and provides comfort to students and staff.







Capital Improvement Program (CIP) Development Process

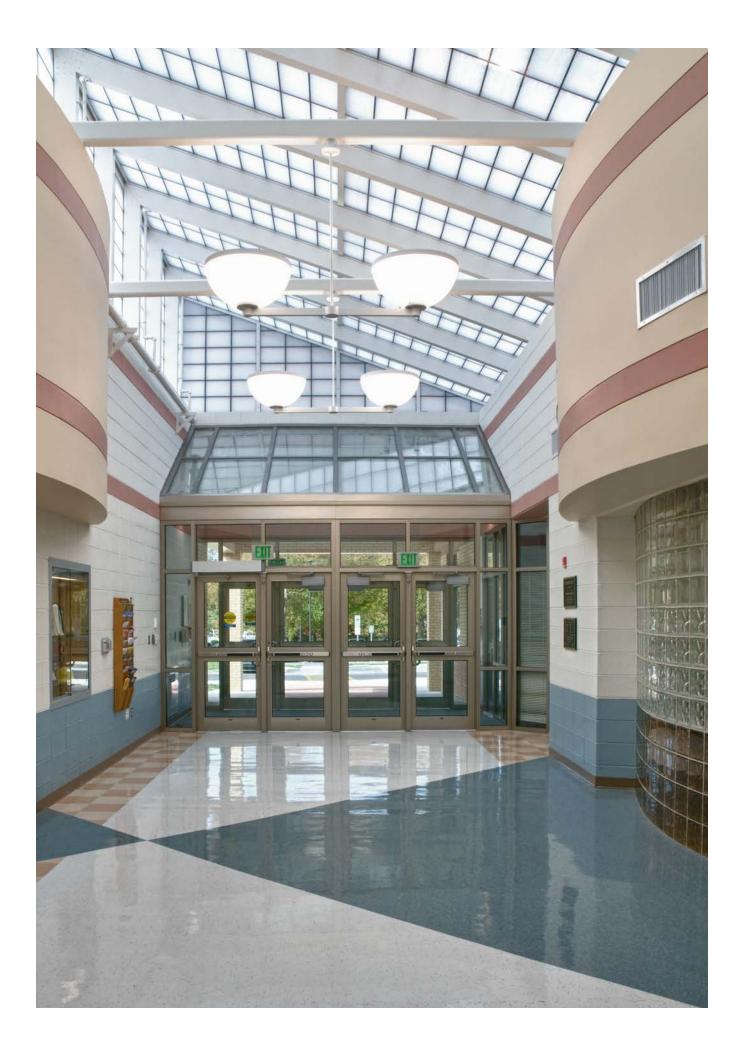


Calendar for Development and Review/Approval

Superintendent's Proposed FY 2018 Capital Budget Capital Improvement Program FY 2019–2023 Long-Range Master Plan FY 2018–2027

Thursday, June 23, 2016 7:30pm - Board Room	Staff presentation of Feasibility Study Report including 2016 enrollment projection.
Thursday, August 18, 2016 7:30pm - Board Room	Board of Education Public Hearing and Pre-Development Work Session.
Thursday, September 8, 2016 6:00pm - Board Room	Staff presentation of the Superintendent's Proposed Capital Budget.
Thursday, September 22, 2016 6:00pm - 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.
Wednesday, October 5, 2016	Board of Education submission of Proposed Capital Budget to Maryland Public School Construction Program.
Thursday, October 6, 2016	Planning Board Public Hearing on Board of Education's Proposed Capital Budget.
Monday, November 7, 2016 7:00pm	County Council approval of Board of Education's Proposed Capital Budget for letter of support to interagency Committee on School Construction.
Tuesday, February 21, 2017 9:00am - 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, May 4, 2017 6:00pm - Board Room	Board of Education Public Hearing.
TBD	County Council Public Hearing on the Education portion of the County Executive's Capital Budget.
Thursday, May 11, 2017 7:30pm - 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 25, 2017 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: http://www.co.ho.md.us/



Superintendent's Proposed FY 2018 Capital Budget Capital Improvement Program FY 2019–2023 Long-Range Master Plan FY 2018–2027

Section 2

System Information

September 2016



Howard County at a Glance

The Howard County Public School System is among the nation's highest performing school districts, with the vast majority of students exceeding achievement standards and going on to higher education. The HCPSS has received national attention for providing a world-class education. The school system's excellence contributed to CNN/Money magazine ranking Columbia and Ellicott City #6 in the 2014 "Best Places to Live in America" list.

About Howard County

Howard County, Maryland is a suburban community of over 300,000, situated midway along the Baltimore-Washington corridor. It is a county of contrast—a blend of old and new, urban and rural, historical and progressive. The county's borders encompass Ellicott City, one of the country's oldest towns, and Columbia, a planned community conceived and designed over 40 years ago by the Rouse Company.

Howard County boasts a number of historical landmarks, including the Bollman Truss Railroad Bridge, the Thomas Viaduct, and nine sites along the Maryland Civil War trails. The county's 30 regional and community parks, 7 golf courses, 5 lakes, and extensive hiking and biking trails also contribute to the \$590.1 million in annual tourism revenue.



Howard County Race/Ethnicity

	Howard County	Maryland	
American Indian/Alaskan	0.4%	0.6%	N
Asian	16.2%	6.%	2013
Black/African American	18.2%	14.0%	
Hawaiian/Pacific Islander	0.1%	0.1%	Cerisus
Hispanic/Latino	6.3%	9.0%	
White	61.4%	60.5%	Dureau
Two or More Races	3.5%	2.6%	Dala

Howard County Fast Facts

- 95.2% of the population over 25 has graduated high school. (MD State 89%)
- 60.4% hold a Bachelor's degree or higher. (MD State 37.3%)
- \$110,133 is the median household income.
- 73.3% homeownership rate with median value of owner-occupied housing of \$426,300.
- 250.74 square miles land area and 1,144.9 persons per square mile. (MD State land area 9,707.24 square miles and 594.8 persons per square mile)
- Howard County is the smallest Maryland County by land area.
- 3.5% unemployment rate as of June 2016, lowest rate in Maryland. (MD State 4.3%)

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 1,827 acres of land. Approximately seven percent of HCPSS staff are devoted in some way to the maintenance of facilities.



HCPSS Facilities

76 Schools

- 41 Elementary Schools
- 20 Middle Schools
- 12 High Schools
- 3 Special Schools

Ancillary Facilities

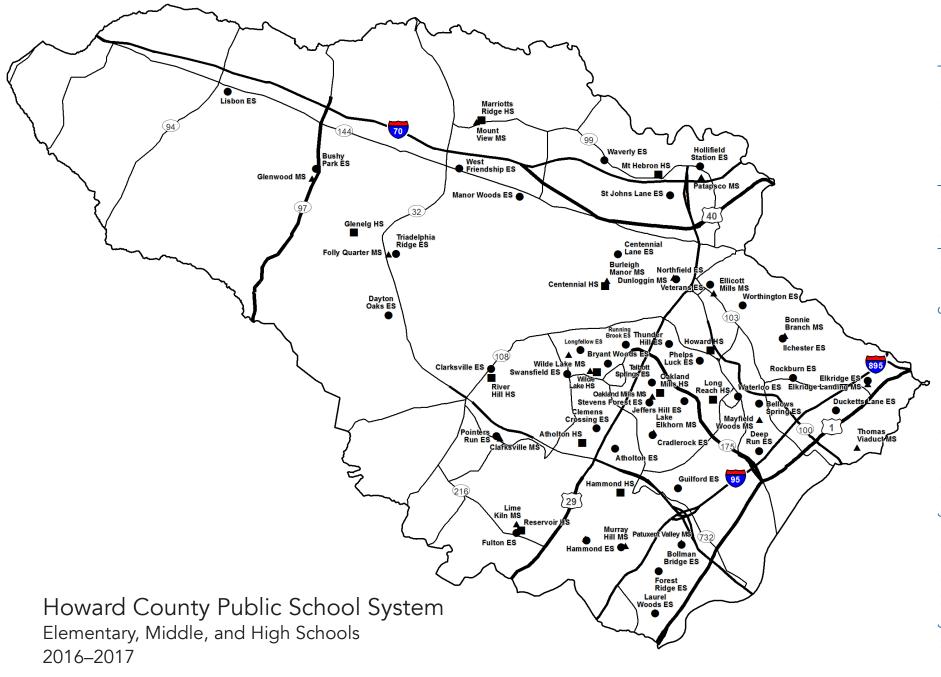
- Ascend One Central Office Amberton Drive (Leased Storage) Dorsey Building (Shared Space) Faulkner Ridge (Vacant)
- Harriet Tubman (Offices and Shops)
- Ridge Road Center (Shops)
- Old Bushy Park (Storage)
- Old Cedar Lane (Offices)

Average Age of Facilities*					
Elementary	Middle	High			
14.5 years 20.4 years 19.7 years					

* Including completed renovations.

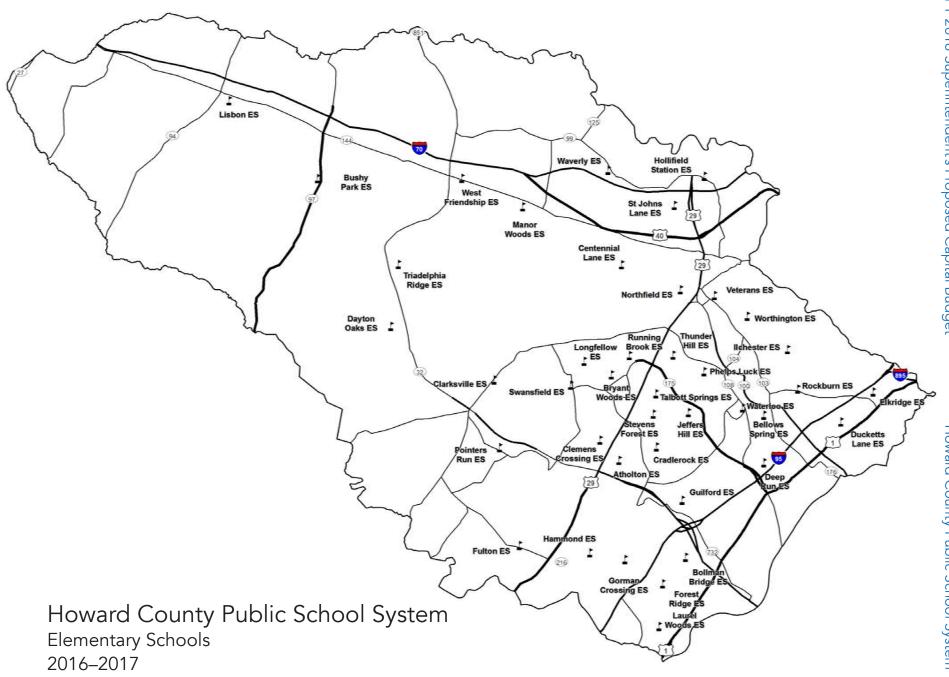
Enrollment*	
Total Enrollment (Pre-K–12)	54,870
Elementary (Pre-K–5)	25,478
Middle (6–8)	12,715
High (9–12)	16,574
Special Schools	103

* Official September 30, 2015 Enrollment Report.



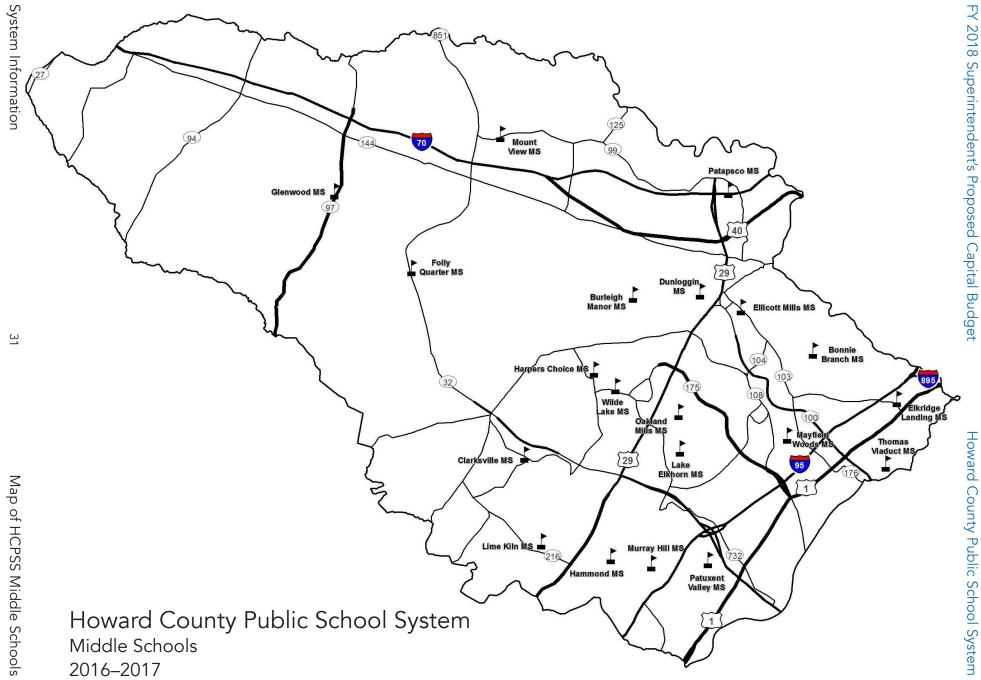
29

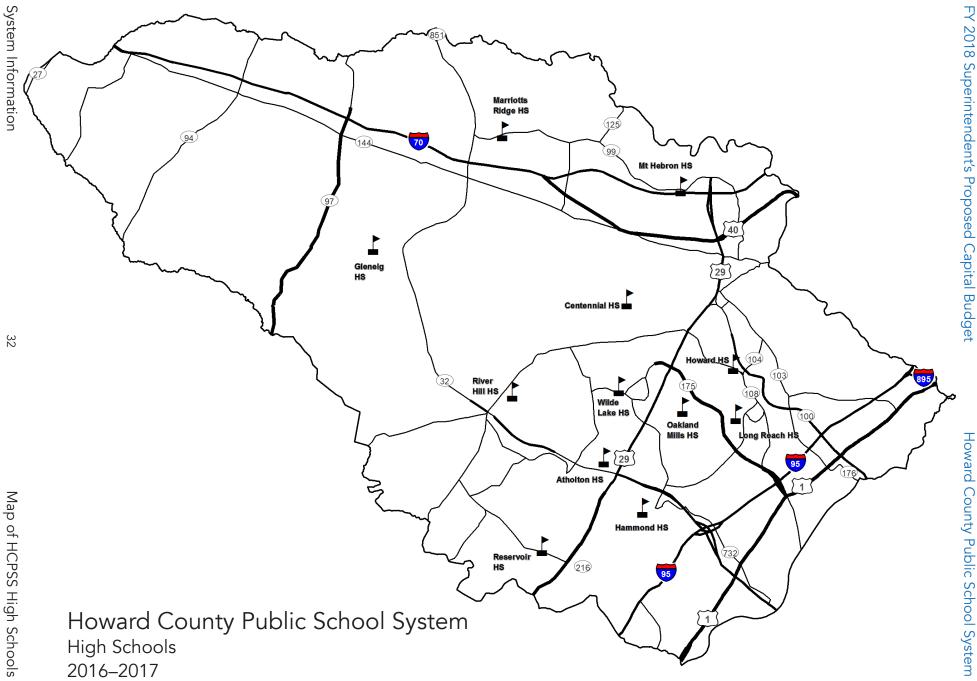
Howard County Public Schools Map



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Map of HCPSS Elementary Schools





Howard County Public School System

Superintendent's Proposed FY 2018 Capital Budget Capital Improvement Program FY 2019–2023 Long-Range Master Plan FY 2018–2027

Section 3

Project Detail



Wilde Lake Middle School Replacement School: Project 1031

10481 Cross Fox Lane, Columbia, MD 21044 http://wlms.hcpss.org



Anne	Swartz,	Principal
	410	0.313.6957

Building Data	
Year Built	1969
Age	47
Site Area (acres)	21
Last Renovation/Addition	1998
Current Relocatables	9
Current Capacity	467
9/2015 Enrollment	564
Projections/Capacity Utiliz	ation
2016 Projection	545
Projected Utilization	117%
2017 Projection	608
Projected Utilization	130%
Post-renovation Cap.	760
Projected Utilization	80%
9/2015 Enrollment Projections/Capacity Utiliz 2016 Projection Projected Utilization 2017 Projection Projected Utilization Post-renovation Cap.	ation 545 117% 608 130% 760

Project Purpose

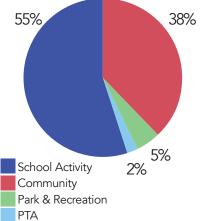
The Wilde Lake Middle School project will replace an aging middle school with a larger, modern facility in an area slated for growth. The replacement school will provide capacity for 760 students. A 2008 facility assessment concluded that the Wilde Lake Middle School building had a net program area deficiency of 13.6 percent, the largest deficiency of educational program area of the 19 middle schools operating at that time. A subsequent feasibility study determined that the cost of an ADA compliant renovation was comparable to a replacement.

Nearly twice as large as the current school but using less than half the energy, the new facility will be a showcase of energy efficiency. Solar power will allow the net draw from the power grid over the course of a year to be zero. This kind of capital investment can defray operating expenses. 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 Wilde Lake Middle School

Over 2,400 reservations brought citizens and students into Wilde Lake Middle School after school hours and on weekends for a variety of community and student programs, meetings, activities, and events. An attendance of over 171,000 was estimated for these activities. Athletic events, after school activities, performance arts events, and camps accounted for the majority of the facility use. Other uses, which include training, elections, and other activities make up the balance of reservations.

Community Use in FY16



Project Details

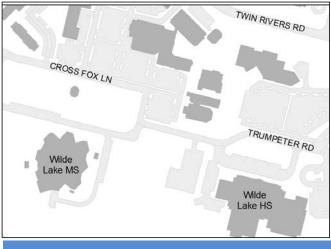
Wilde Lake Middle School, located in Columbia, was opened in 1969 as an open concept school and was expanded in 1974. In 1998, it was renovated with classrooms enclosed. During the summer of 2009, Wilde Lake Middle School went through minor renovations including some miscellaneous interior finishes and demountable partitions.

This building will be Net Zero and US Green Building Council (USGBC) LEED Certified. The building will be powered by solar voltaic cells on the roof. The architectural design is highly efficient considering building orientation, mass, and scale. Daylight is well used. The mechanical systems finely control electric lighting and HVAC and controls. Training will help school-based staff make the most of the energy efficient design. These considerations position the new Wilde Lake Middle School to be the most energy conscious and efficient school in the state.



This is the fifth year of funding for Wilde Lake Middle School. During FY 2018, the fourth year of construction will be implemented. Based upon the current plan, the Board will request a final appropriation for this program in FY 2018 of \$2 million to complete work and have the replacement school ready to open in August 2017.

School Location Map



Budget Summary (In Thousands)

Approved Appropriations				
FY 2014	Planning	\$	2,658	
FY 2015	Construction	\$	8,200	
FY 2016	Construction	\$	18,234	
FY 2017	Construction	\$	14,285	
Current & Futu	ire Requests			
FY 2018	Construction	\$	2,000	

Total Project Cost Estimate

Total

45,377

\$



Project Timeline

Task Phase (Calendar Year)	2014	2015		2016	2017	
Feasibility Study	3m					٦
Planning and Design		12m				
Contract Bidding and Award			6m			
Construction				18r	m	
Close Out					2n	n

The above chart shows the calendar year timeline for planning and construction for this project (in months). The Wilde Lake Middle School Replacement project is scheduled for completion in August of 2017.

Wilde Lake Middle School

Patuxent Valley Middle School Renovation: Project 1033

9151 Vollmerhausen Road, Jessup, MD 20794 http://pvms.hcpss.org/



Rick Robb, Principal
410.880.5840

1989
27
30
N/A
6
760
631
ion
675
89%
645
85%

Project Purpose

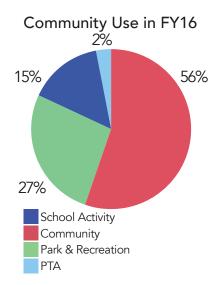
The Patuxent Valley Middle School project will expand educational program spaces and renovate the existing facility to remedy deficiencies in the design, particularly to improve operation and security. Open teaching stations will be reconfigured into self-contained classrooms. Operable walls will be replaced with full-height drywall partitions. Modular classrooms will be replaced with permanent additions to the building that will accommodate the classroom spaces and necessary program areas.

The project will include a complete systemic renovation of the existing building including new electrical, mechanical, plumbing, sprinkler, technology, roofing, and life safety systems. Ceilings will be removed and replaced, toilet rooms will be renovated, and ADA accessibility will be addressed to bring the facility into compliance with the HCPSS Guidance Manual for Renovations and Modernizations of Existing Schools.

Patuxent Valley 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 Patuxent Valley Middle School

Over 940 community use reservations were registered for Patuxent Valley Middle School in FY 2015. An attendance of nearly 33,000 was estimated for a variety of community and student programs, meetings, activities, and events. Community events accounted for the majority of facility use. Other uses, which include after school activities and educational activities, make up the remaining reservations.



Patuxent Valley Middle School

Project Details

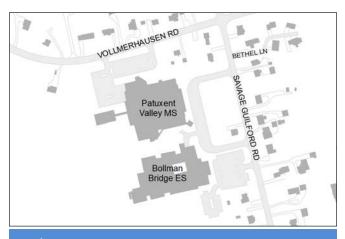
Patuxent Valley Middle School opened in 1989 and a group of six modular classrooms were connected to the building by a covered walkway sometime thereafter. No renovations to the 97,445 square foot school have occurred since the building was originally constructed.

The 2008 facility assessment of middle schools concluded that Patuxent Valley Middle School had a net 12.7 percent surplus of educational program area. While the net area meets specification, in 2013 Gilbert Architects found deficiencies in the design.

The systemic upgrades consist of a complete renovation of the existing building including new electrical, mechanical, plumbing, technology, roofing, and life safety systems with an emphasis on energy efficiency. The physical upgrades include relocating the administration office to the main floor, re-purposing the oversized library space, reconfiguring the cafeteria access to playground and bathrooms, and providing daylighting throughout the building. ADA improvements will include elevator access to the second floor from the main entrance lobby/stair tower and an upgrade to the Health Suite to present standards.

This is the fourth year of funding for Patuxent Valley Middle School. During FY 2017, the second year of construction will be implemented. Based upon the current plan, the Board will request a final appropriation for this program in FY 2018 of \$1.5 million to complete work by August 2017.

School Location Map



Budget Summary (In Thousands)

Approved Appro	priations		
FY 2014	Planning	\$	8,145
FY 2016	Construction	\$	10,000
FY 2017	Construction	\$	9,890
Current & Future Requests			
FY 2018	Construction	\$	1,500

Total Project Cost Estimate

Total

\$ 29,535



Project Timeline

Task Phase (Calendar Year)	2013	2014	2015	2016	2017
Feasibility Study	3m				
Planning and Design		12m			
Contract Bidding and Award		3m			
Construction				32m	
Close Out					2m

The above chart shows the calendar year timeline for planning and construction for this project (in months). The Patuxent Valley Middle School Renovation project is scheduled for completion in August of 2017.

Swansfield Elementary School Renovation/Addition: Project 1034

5610 Cedar Lane, Columbia, MD 21044 http://ses.hcpss.org/



Maisha	Strong,	Principal
	41	0.313.6907

Building Data	
Year Built	1972
Age	44
Site Area (acres)	10
Last Renovation/Addition	2008
Current Relocatables	12
Current Capacity	521
9/2015 Enrollment	608
Projections/Capacity Utiliz	ation
2016 Projection	612
Projected Utilization	118%
2018 Projection	615
Projected Utilization	118%
Post-Renovation Cap.	621

Project Purpose

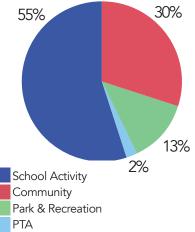
The Swansfield Elementary School project will expand educational program spaces with 100 seats of new capacity and renovate the existing facility. Swansfield Elementary School was opened in 1972 and renovated in 1998. The school was expanded in 1988 and 2008. In April 2009, HCPSS engaged Gilbert Architects Inc. to conduct a facility assessment of elementary schools. The report concluded that Swansfield Elementary School had 12.3 percent deficiency of educational program area of the 40 elementary schools operating at that time. The FY 2015 Capital Budget introduced this project to the capital improvement program. In previous budgets, it was listed as a systemic renovation. In the FY 2015 Capital Budget, the total project cost was estimated at \$19.4 million. In the FY 2018 Capital Budget the total project cost estimate is \$26.9 million. The \$7.5 million increase is mainly attributed to the new plan including an addition.

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 Swansfield Elementary School

Over 2,600 reservations brought citizens and students into Swansfield Elementary School after school hours and on weekends for a variety of community and student programs, meetings, activities, and events. An attendance of nearly 203,000 was estimated for these activities. After school activities and athletic events accounted for much of the facility use. Other uses, which include child care and camps, make up the remaining reservations.





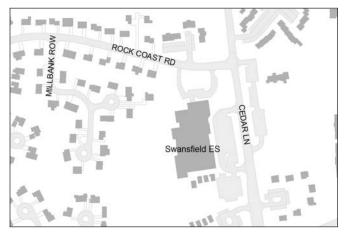
Project Details

The planned scope of work for the school includes programmatic, systemic, and physical upgrades as required to bring the facility into compliance with the HCPSS Guideline Manual for Renovations and Modernizations of Existing Schools. The programmatic changes include providing individual classrooms and corridors, creating a COMAR compliant health suite, and providing adjunct space to relocate existing portable classrooms inside of the building.

The systemic upgrades consist of a complete renovation of the existing building including new electrical, mechanical, plumbing, technology, partial roofing, and life safety systems with an emphasis on energy efficiency. The physical upgrades include a refinished gymnasium floor, new doors and hardware, additional exterior windows, as well as new casework and finishes. This project will provide an additional capacity of 100 seats and core infrastructure space necessary to operate effectively at the larger capacity.



School Location Map



Budget Sum	mary (In Thousands)	
Approved Ap	oropriations	
FY 2015	Planning	\$ 1,898
FY 2016	Construction	\$ 9,875
FY 2017	Construction	\$ 10,722
Current & Fut	ure Requests	
FY 2018	Construction	\$ 4,407
Total Project (oct Ectimato	

Total Project Cost Estimate	
Total	\$ 26,902

This is the fourth year of funding for Swansfield Elementary School. During FY 2017, the second year of construction will be implemented. Based upon the current plan, the Board will request a final \$4.4 million in FY 2018 to complete work and have the school ready by August 2018.

Project Timeline

Task Phase (Calendar Year)	2014	4	2015	2016	2017	2018
Feasibility Study	3m					
Planning and Design		12m				
Contract Bidding and Award			6m			
Construction				24n	า	
Close Out						2m

The above chart shows the calendar year timeline for planning and construction for this project (in months). The Swansfield Elementary School Renovation/Addition project is scheduled for completion in August of 2018.

Waverly Elementary School Renovation/Addition: Project 0973

10220 Wetherburn Road, Ellicott City, MD 21043 http://waves.hcpss.org/



Kathy Jacobs,	Principal
41	0.313.2819

Building Data	
Year Built	1990
Age	26
Site Area (acres)	11.49
Last Renovation/Addition	2007
Current Relocatables	9
Current Capacity	638
9/2015 Enrollment	707
Projections/Capacity Utilization	ation
Projections/Capacity Utiliza 2016 Projection	ation 698
2016 Projection	698
2016 Projection Projected Utilization	698 109%
2016 Projection Projected Utilization 2018 Projection	698 109% 669

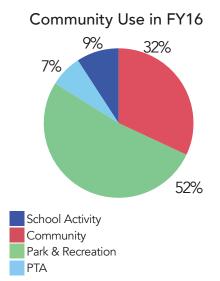
Project Purpose

The Waverly Elementary School project will expand educational program spaces with 100 seats of new capacity and renovate the existing facility. Waverly Elementary School opened in 1990 and was renovated in 2007 to accommodate full-day kindergarten. The 2009 facility assessment of elementary schools concluded that Waverly Elementary School had 14.6 percent deficiency of educational program area of the 40 elementary schools operating at that time. The FY 2016 Capital Budget introduced this project in the CIP. In previous budgets, it was listed as a systemic renovation. In the FY 2016 Capital Budget, the total project cost was estimated at \$29.5 million.

In the FY 2018 Capital Budget, the total project cost estimate is \$36.2 million. The \$6.7 million increase is mainly attributed to the new plan including an addition. 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 Waverly Elementary School

Waverly Elementary School hosted over 1,620 after school and weekend activities for a variety of community and student programs, meetings, activities, and events. An attendance of nearly 93,000 was estimated for these activities. Athletic events accounted for approximately half of the facility use. Other uses, which include child care and after school activities, make up the balance of reservations.



Waverly Elementary School

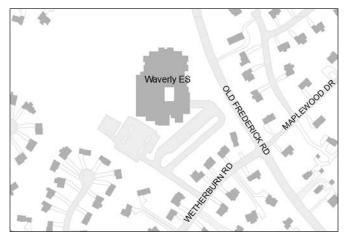
Project Details

This project calls for an expansion of the educational program spaces and renovation of the existing facility. This will consist of a complete systemic renovation of the existing building including new electrical, mechanical, plumbing, technology, roofing, and life safety systems as applicable per the recent feasibility assessment survey. The project will provide 100 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 improved, and new spaces added as required bringing the facility into compliance with renovation specifications.

The Waverly Elementary School Addition supports a long-term plan as described in the 2016 Feasibility Study. In 2016 and beyond, Manor Woods Elementary School is projected to be above the 110 percent capacity utilization standard and eventually trends above 200 percent. Manor Woods Elementary School is not on public sewer and for that reason expansion is unlikely. Constructing this addition in 2018 can help relieve overcrowding at Manor Woods Elementary School. Beyond that, a new elementary school in Turf Valley has been considered after 2020.



School Location Map

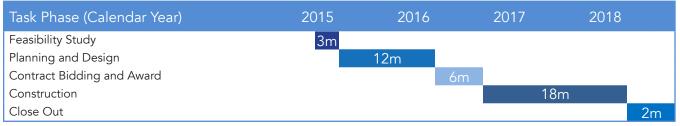


Budget Sumn	nary (In Thousands)	
Approved App	propriations	
FY 2015	Planning*	\$ 2,421
FY 2016	Construction	\$ 3,770
FY 2017	Construction	\$ 9,589
Current & Futu	re Requests	
FY 2018	Construction	\$ 18,896
FY 2019	Construction	\$ 1,500
Total Project C	ost Estimato	
,		
Total		\$ 33,755

* Planning funds received in Systemic Renovation Project.

This is the fourth year of funding for Waverly Elementary School. Planning funds were received in the Systemic Renovation Line in FY 2014. During FY 2016, the first year of construction was implemented. In FY 2018 and FY 2019, an additional \$22.4 million is planned to complete work and have the school ready by August 2018.

Project Timeline



The above chart shows the calendar year timeline for planning and construction for this project (in months). The Waverly Elementary School Renovation/Addition project is scheduled for completion in August of 2018.

Waverly Elementary School

New ES #42: Project 1028

School Site located adjacent to Thomas Viaduct Middle School 7030 Banbury Drive, Hanover, MD



Architect rendering of Ducketts Lane Elementary School courtesy of Grimm + Parker Architects. This is the newest HCPSS elementary school based on the current education specifications.

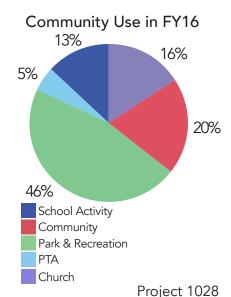
Project Purpose

The New ES #42 will be a new facility. Capacity utilization at Ducketts Lane Elementary School, which opened in August 2013, in the northern Route 1 corridor, will continue to grow. Even with additional capacity that may have been found in the Gilbert study, we now know that at least one additional elementaryschool sneeded in the eastern part of the county. The region will exceed 115 percentutilization in 2023 and require approximately 1,000 additional seats. The recently completed comprehensive zoning increased the entire housing projection this year by 996 units, most was initiated in FY 2016.

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 New ES #42

Community use is anticipated in the planning for this new facility. Ducketts Lane Elementary School serves as a comparison. Ducketts Lane Elementary School hosted an estimated 87,000 attendees for over 1,940 reservations after school hours and on weekends for a variety of events. The majority of the events were athletic events, and remaining reservations were school and other community events.

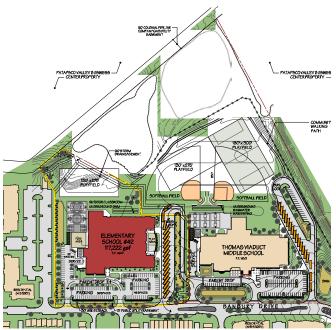


Project Details

The New ES #42 will be designed in conformance with the General Educational Specifications for New Elementary Schools published in June 2003. The building design will provide the best possible learning environment for all elementary students in every aspect of educational programs by providing inclusive learning spaces, state-of-the art technology, and sustainable building practices. The prototype is a two-story elementary school designed for a 788 student capacity. The new school will also accommodate prekindergarten through fifth grade, as well as the Regional Early Childhood Center. The project will achieve USGBC LEED Gold certification in keeping with the sustainable goals of HCPSS to reduce negative impact on the environment and enhance health and comfort of the building occupants, thereby improving building performance.



Transit-oriented developments (TOD) are densely arranged communities of homes, offices, and stores near a rail station or bus line. Oxford Square is situated very close to the Dorsey MARC Station and will have a community shuttle until a pedestrian access can be constructed.



A school site is located adjacent to Thomas Viaduct Middle School at 7000 Banbury Drive in Hanover, MD.

Budget Sum	I mary (In Thousands)	
Approved Ap	propriations	
FY 2016	Planning	\$ 2,807
FY 2017	Construction	\$ 14,526
Current & Fut	ure Requests	
FY 2018	Construction	\$ 20,658
FY 2019	Construction	\$ 6,132

Total Project Cost Estimate

\$ 44,123

This is the third year of funding for New ES #42. Planning funds were received in FY 2016. During FY 2017, the first year of construction will be implemented. In FY 2018 and FY 2019, an additional \$26.8 million is planned to complete work and have the school ready by August 2018.

Project Timeline

Task Phase (Calendar Year)	2015	2016	2017	2018	
Feasibility Study	3m				
Planning and Design		12m			
Contract Bidding and Award			6m		
Construction				18m	
Close Out					2m

Total

The above chart shows the calendar year timeline for planning and construction for this project (in months). The New ES #42 project is scheduled for opening in August of 2018.

Talbott Springs Elementary School Renovation: Project 1043

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



Nancy	Thompson,	Principal
	. 410	0.313.6915

Building Data	
Year Built	1973
Age	43
Site Area (acres)	10
Last Renovation/Addition	2008
Current Relocatables	11
Current Capacity	377
9/2015 Enrollment	439
Projections/Capacity Utilization	ation
2016 Projection	448
Projected Utilization	119%
2021 Projection	453
Projected Utilization	120%

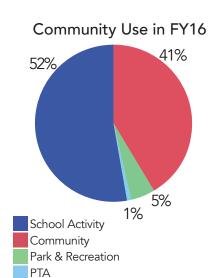
Project Purpose

The Talbott Springs Elementary School project will expand educational program spaces and renovate the existing facility. Talbott Springs Elementary School opened in 1973 and was renovated in 2000. The school was expanded in 2000 (art room and gymnasium) and 2008 (all day kindergarten). 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 2018 Capital Budget, the total project cost estimated is \$28 million. Talbott Springs Elementary School will be another USGBC LEED Certified school facility for Howard County. Staff is currently conducting a feasibility study for state approval to possibly construct a replacement school.

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 64,000 attendees for over 1,600 reservations after school hours and on weekends for a variety of events. The majority of the events were after school activities, and remaining reservations were athletic, PTA, and other community events.



Project Details

The planned scope of work for the school includes programmatic, systemic, and physical upgrades as required to bring the facility into compliance with the HCPSS Guideline Manual for Renovations and Modernizations of Existing Schools. The programmatic changes include providing individual classrooms and corridors, creating a COMAR compliant health suite, and providing adjunct space to relocate existing portable classrooms inside of the building.

The systemic upgrades consist of a complete renovation of the existing building including new electrical, mechanical, plumbing, technology, roofing, and life safety systems with an emphasis on energy efficiency. The physical upgrades include a refinished gymnasium floor, new doors and hardware, additional exterior windows, as well as new casework and finishes.



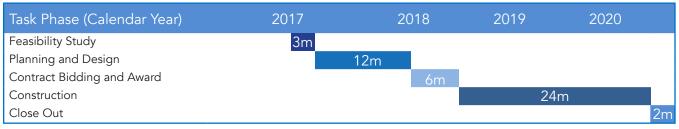
School Location Map



Budget Sum	mary (In Thousands)	
Current & Fut	ture Requests	
FY 2018	Planning	\$ 3,000
FY 2019	Construction	\$ 15,800
FY 2020	Construction	\$ 9,200
Total Project (Cost Estimate	
Total		\$ 28,000

This is the first year of funding for Talbott Springs Elementary School. In previous budgets, it was listed as a systemic renovation. The requested sum of \$3 million in FY 2018 will allow planning and design to begin. During FY 2019, construction will be started. Based upon the current plan, the Board will request a \$25 million in FY 2019 and FY 2020 to complete work and have the school ready by August 2020.

Project Timeline



The above chart shows the calendar year timeline for planning and construction for this project (in months). The Talbott Springs Elementary School Renovation project is scheduled for completion in August of 2020.

Talbott Springs Elementary School

Oakland Mills Middle School Renovation: Project 1036

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



Megan	Chrobak,	Principal
	410	0.313.6937

Building Data	
Year Built	1972
Age	44
Site Area (acres)	20
Last Renovation/Addition	1998
Current Relocatables	0
Current Capacity	506
9/2015 Enrollment	454
Projections/Capacity Utiliza	ation
2016 Projection	465
Projected Utilization	92%
2020 Projection	511
Projected Utilization	101%

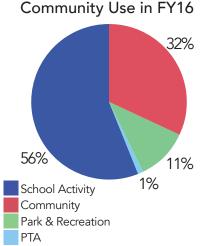
Project Purpose

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. The FY 2016 Capital Budget introduced this project to the Capital Budget the cost for the limited renovation was estimated at \$16.3 million. In the FY 2018 Capital Budget the complete renovation cost estimate is \$30.1 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

Citizens and students spent over 5,200 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 76,000 was estimated for these activities. After school activities accounted for more than half of the facility use. Athletic activities and child care are included in the remaining reservations.

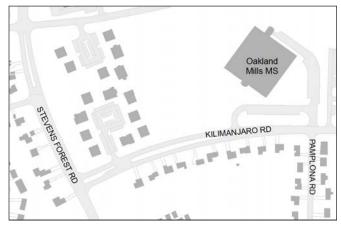


Project Details

The project calls for a renovation of the existing building in accord 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



Budget Summary (In Thousands)			
Approved App	propriations		
FY 2015	Planning*	\$	2,300
Current & Future Requests			
FY 2018	Construction	\$	3,000
FY 2019	Construction	\$	18,828
FY 2020	Construction	\$	6,000
Total Project Cost Estimate			
Total		\$	27,828

* Planning funds received in Systemic Renovation Project.

The second year of funding for Oakland Mills Middle School will be in FY 2018. Planning funds were received in the Systemic Renovation Line in FY 2015. During FY 2018, the first year of construction will be implemented. The requested sum of \$27.8 million in FY 2018 through FY 2020 will allow construction to progress on schedule and work to be completed by August 2020.

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 August of 2020.

New HS #13: Project 1035

School site to be determined.



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

Project Purpose

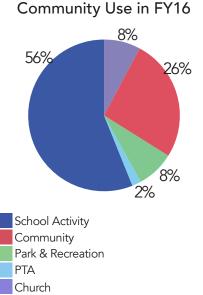
New HS #13 provides the HCPSS with the opportunity to expand college and career readiness programs for high school students across the county. Given the significant cost to build new facilities, it is recommended that this new high school be built to a larger capacity, up to 1,800 students.

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 1,100 additional seats by 2019. This capital budget recommends completion of New HS #13 in 2023. Planning would be initiated

in FY 2018. 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. Wilde Lake High School serves as a comparison. Wilde Lake High School hosted an estimated 1,160,000 attendees for over 7,200 reservations after school hours and on weekends for a variety of events. The majority of the events were community and school related events, and the remaining reservations were Park and Recreation, church events, and PTA meetings.

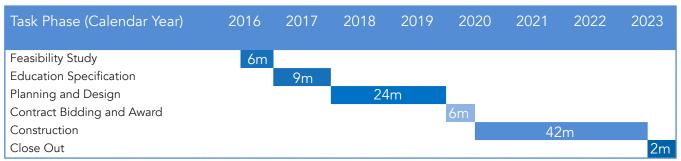




Planning for New HS #13 will occur during FY 2018 and FY 2019 with \$14.3 million requested to allow planning to progress on schedule. An extended planning period is necessary to develop education specifications for this new facility. Based upon this timeline, the Board will request construction funding for this project in FY 2020 through FY 2023 to complete work and have the school ready by August 2023.

Budget Summary (In Thousands)			
Current & Future F	Requests		
FY 2018	Planning	\$	3,300
FY 2019	Planning	\$	10,950
FY 2020	Construction	\$	35,250
FY 2021	Construction	\$	27,200
FY 2022	Construction	\$	36,500
FY 2023	Construction	\$	25,325
Total Project Cost Estimate			
Total		\$	138,525

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 August of 2023.

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 and the replacement school is the third

iteration of the current middle school prototype and opened in 2001. The projections in the 2015 Feasibility Study 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 in the 2015 Feasibility Study. This project is a next logical step after study of middle school capacity and analysis of redistricting scenarios.

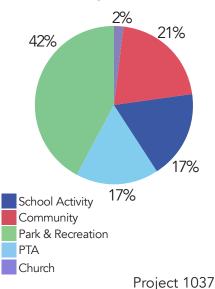
The complete scope of this project is defined by the BOE approved construction documents (CD) brochure (see Policy 6020 in the Supporting Data Section for a complete description of the process) and any change orders approved subsequent to submittal of the CD brochure.

Community Use at Ellicott Mills Middle School

Over 2,200 reservations brought citizens 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 170,000 was estimated for these activities. Athletic events and child care accounted for the largest portion of the facility use. Other uses, which include after school activities and performing arts, make up the remaining reservations. Christopher Rattay, Principal 410.313.2839

Building Data		
Year Built	1939	
Age	77	
Site Area (acres)	16.22	
Last Renovation/Addition	2001	
Current Relocatables	3	
Current Capacity	662	
9/2015 Enrollment	808	
Projections/Capacity Utilization		
2016 Projection	803	
Projected Utilization	121%	
2024 Projection	857	
Projected Utilization	130%	
Post-Renovation Cap.	818	
Projected Utilization	105%	

Community Use in FY16



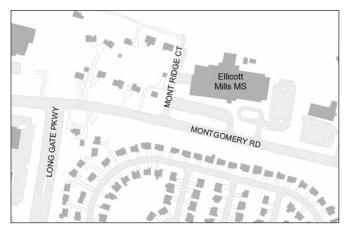
Project Details

This project will include an addition and light 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.



Project Timeline

School Location Map



Budget Summary (In Thousands)			
Current & Futur	e Requests		
FY 2022	Planning	\$	544
FY 2023	Construction	\$	5,404
Total Project Cost Estimate			
Total		\$	5,948

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. The requested sum of \$544 thousand in FY 2022 will allow planning to progress on schedule. Based upon the current plan, the Board will request construction funding for this program in FY 2023 totaling \$5.4 million to complete work and have the school ready by August 2024.

Task Phase (Calendar Year)	2022	2023	2024
Feasibility Study	3m		
Planning and Design	12m		
Contract Bidding and Award		6m	
Construction			12m
Close Out			2m

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 August of 2024.

Hammond High School Renovation: Project 1024

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



Marcy Leonard, Principal
410.313.7615

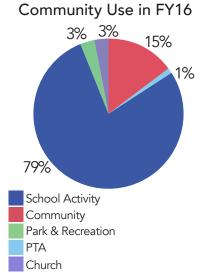
Building Data	
Year Built	1976
Age	40
Site Area (acres)	33.14
Last Renovation/Addition	2011
Current Relocatables	4
Current Capacity	1,220
9/2015 Enrollment	1,276
Projections/Capacity Utiliz	ation
2016 Projection	1,289
Projected Utilization	106%
2021 Projection	2,034
Projected Utilization	167%

Project Purpose

The Hammond High School project will renovate the existing school. Hammond High School is a onestory building that first opened in 1976 and underwent some miscellaneous 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. The capacity of the school will remain unchanged upon completion of the proposed 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 56,000 was estimated for over 2,900 reservations at Hammond High School outside of school hours for events. Most after school activities at any high school are school related including after school programming, athletic activities, educational activities and performing arts.

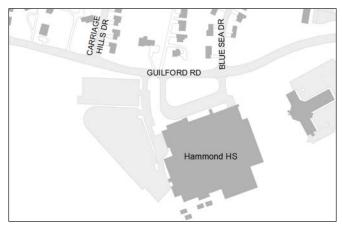


Project Details

The project will consist of a complete systemic renovation 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 accessibility compliance ADA 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 and sustainable practices thus yielding another USGBC LEED certified facility.



School Location Map

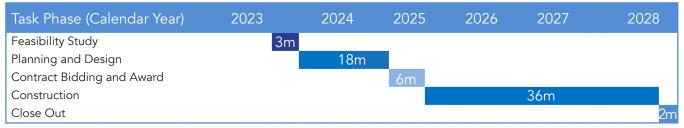


Budget Summary (In Thousands)			
Current & Future	Requests		
FY 2023	Planning	\$	2,800
FY 2024	Planning/Construction	\$	25,748
FY 2025	Construction	\$	17,099
FY 2026	Construction	\$	15,099
FY 2027	Construction	\$	11,099
FY 2028*	Construction	\$	16,100
Total Project Cost Estimate			
Total		\$	87,945

*Outside of Long-Range Master Plan

The first year of funding for Hammond High School is planned for FY 2023. During FY 2023, the first year of planning will be implemented. Based upon the current plan, the Board will request construction funding for this program in FY 2024 through FY 2028 totaling \$85 million to complete work and have the school ready by August 2028.

Project Timeline



The above chart shows the calendar year timeline for planning and construction for this project (in months). The Hammond High School Renovation project is scheduled for opening in August of 2028.

Hammond High School

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

Sites to be determined.



Responding to the 2016 Feasibility Study

Planning and zoning changes require changes 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 Department of Planning and Zoning and Public Works staff 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 2018–2027 long-range plan requires three new elementary schools. Previous budgets introduced ES #42, ES #43 and ES #44.

Elementary School Needs

Elementary enrollment is projected to increase by 4,000 students by 2024 and the capacity utilization of all elementary schools combined will begin to exceed 110 percent by 2022. 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 recently completed comprehensive zoning increased the entire housing projection in 2014 by 996 units, most of which was in the east. New ES #42 will be built in the northeast region at Oxford Square. The needs of the southeast region are evident in the projections of Bollman Bridge Elementary School and Forest Ridge Elementary School. The location of ES #43 is to be determined. A location in close proximity to the planned Transit Oriented Development is desirable.



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 – Columbia West ES – 1040

Running Brook Elementary School (with expansion) is expected to exceed 110 percent utilization by 2018. 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.

ES #45 – Turf Valley ES – 1041

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 can absorb some growth. Considering the limited potential for expanding schools outside of the sewer service area, a Turf Valley school is planned. Land sites are being considered for this future school.

Systemic Renovations: Project 0980

Various locations.



School Facilities is charged with maintaining the facilities and grounds 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	A	ctual Expense		
FY 2012	\$	25,048,690		
FY 2013	\$	21,798,947		
FY 2014	\$	15,593,468		
FY 2015	\$	11,565,498		
FY 2016	\$	10,920,834		

Project Purpose

The Systemic Renovations project will include 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 2018 Request Analysis

Project Funding (July 1, 2003 - June 30, 2017)	\$ 239,647,937
Project Cost-to-Date (through June 30, 2016)	(214,077,303)
FY 2017 Projected Costs	(19,712,053)
Available Project Funding (July 1, 2017)	\$ 5,858,580
Requested Budget FY 2018	\$ 26,750,000



Systemic Renovations

Howard County Public School System

Project Details

The FY 2018 Capital Budget request represents renovation work or planning for future construction at the following school system facilities:

Burleigh Manor Middle School RTUs Elkridge Landing Middle School RTUs Fulton Elementary School RTUs Hollifield Station Elementary School RTUs Rockburn Elementary School HVAC Pointers Run Elementary School HVAC Mount View Middle School HVAC Kitchen Modernizations Safety and Accessibility Projects





Systemic renovation projects 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 department publishes annual Comprehensive Maintenance an Program 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.

Due to the deferral of high school renovations as a result of significant budgetary constraints, staff is currently engaged in an assessment of core facility infrastructure needs to determine a scope of work to address the existing conditions of an immediate nature.

Roofing Projects: Project 0994



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 2012	\$	4,841,087			
FY 2013	\$	3,093,044			
FY 2014	\$	5,468,035			
FY 2015	\$	3,400,190			
FY 2016	\$	2,220,940			

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 actually complex investments built to exact specifications. The 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.





Roofing Projects

Project Details

The roof system is the largest single area of the building that must endure the most severe weather conditions. The roof protects the structural integrity of the building, equipment, as well as its systems. Because of building age and environmental conditions, scheduled roof replacements must be completed to protect the investment that has 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.

Due to the age and current condition of school facilities roofs, HCPSS will not request funds for roof replacement in FY 2018. When feasible, Roofing Projects will be considered in conjunction with systemic renovations.



Playground Equipment: Project 0990

Various locations.



The Safety and Risk Management Office 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 2012	\$	398,430		
FY 2013	\$	240,677		
FY 2014	\$	8,506		
FY 2015	\$	503,412		
FY 2016	\$	85,058		

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 playground installations. The playground planning process considers the needs of a widerange of ages and skills to develop strength, social skills, coordination, balance, and motor planning.

FY 2018 Request Analysis		
Project Funding (July 1, 2003 - June 30, 2017)	\$	2,680,000
Project Cost-to-Date (through June 30, 2016)		(2,321,569)
FY 2017 Projected Costs		(337,610)
Available Project Funding (July 1, 2017)	\$	20,821
Requested Budget FY 2018	\$	560,000



Playground Equipment

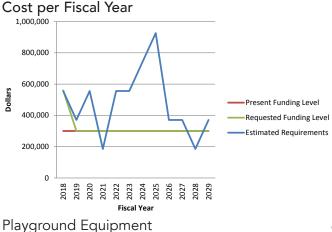
Howard County Public School System



Project Details

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. The \$560,000 request is adequate for the short-term. In future years, more than two playground replacements are needed per year. The long-term plan could be adjusted to smooth out the number of replacements per year by advancing or delaying some projects. 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.

Projected Playground Replacement



Long-Term Plan	
Playground Site	Fiscal Year
Hollifield Station Elementary School	FY 2018
Manor Woods Elementary School	FY 2018
Talbott Springs Elementary School	FY 2018
Bryant Woods Elementary School	FY 2019
Guilford Elementary School	FY 2019
Clarksville Elementary School	FY 2020
Triadelphia Ridge Elementary School	FY 2020
Worthington Elementary School	FY 2020
Bellows Spring Elementary School	FY 2021
Gorman Crossing Elementary School	FY 2022
Rockburn Elementary School	FY 2022
Thunder Hill Elementary School	FY 2022
Lisbon Elementary School	FY 2023
Centennial Lane Elementary School	FY 2023
St John's Lane Elementary School	FY 2023
West Friendship Elementary School	FY 2024
Atholton Elementary School	FY 2024
Dayton Oaks Elementary School	FY 2024
Cedar Lane School	FY 2024
Fulton Elementary School	FY 2025
Phelps Luck Elementary School	FY 2025
Bollman Bridge Elementary School	FY 2025
Bushy Park Elementary School	FY 2025
Cradlerock Elementary School	FY 2025
Veterans Elementary School	FY 2026
Ilchester Elementary School	FY 2026
Waterloo Elementary School	FY 2027
Clemens Crossing Elementary School	FY 2027
Northfield Elementary School	FY 2027
Ducketts Lane Elementary School	FY 2028
Stevens Forest Elementary School	FY 2028

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 0993



Project Purpose

The Relocatable Classrooms project will provide funds for the relocation of existing portable 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 2018 Request Analysis		
Project Funding (July 1, 2003 - June 30, 2017)	\$	18,910,000
Project Cost-to-Date (through June 30, 2016)		(17,406,316)
FY 2017 Projected Costs		(1,503,684)
Available Project Funding (July 1, 2017)	\$	-
Requested Budget FY 2018	\$	1,500,000

Relocatable Classrooms Actual Expenses				
Fiscal Year	Ac	Actual Expense		
FY 2012	\$	2,152,087		
FY 2013	\$	1,620,398		
FY 2014	\$	1,117,572		
FY 2015	\$	1,613,098		
FY 2016	\$	1,322,547		

The School Planning Office evaluates relocatable classroom needs annually in a report to the Board of Education. After a decision is made, the Construction Office 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.



Relocatable Classrooms

FY 2018 Superintendent's Proposed Capital Budget

Howard County Public School System

Project Details

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, Waverly Elementary School, and Clarksville Middle School. These units are included in building capacity because they are considered permanent additions. In recent renovations, for example Bollman Bridge Elementary School and Deep Run Elementary School, they have been replaced. Similar plans are underway at Patuxent Valley Middle School.

The school system conducts annual 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 2016, there were 244 relocatable/ modular classrooms in use (four are used for administrative purposes at the Central Office, all others are at school sites). The school system will continue to conduct an annual review 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 upon annually.

This work will be completed in the summer of 2017.



Site Acquisition and Construction Reserve: Project 0995



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 2012	\$	4,126,230						
FY 2013	\$	526,091						
FY 2014	\$	4,258,073						
FY 2015	\$	22 <i>,</i> 850						
FY 2016	\$	3,704						

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 a future school site that will be purchased directly by the county.

FY 2018 Request Analysis

Project Funding (July 1, 2003 - June 30, 2017)	\$ 20,836,241
Project Cost-to-Date (through June 30, 2016)	(17,963,164)
FY 2017 Projected Costs	(1,737,000)
Available Project Funding (July 1, 2017)	\$ 1,136,077
Requested Budget FY 2018	\$ 2,000,000



Site Acquisition and Construction Reserve

FY 2018 Superintendent's Proposed Capital Budget

Howard County Public School System

Project Details

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 1021



The Technology Department oversees the Technology Project. A staff of 15 provides maintenance and support for approximately 37,000 computing devices, 4,000 printers, and 400 copier and multifunction devices (MFDs) throughout the system. Actual costs incurred in the Technology Project over the past five years is below.

Technology Actual Expenses									
Fiscal Year	Actual Expense								
FY 2012	\$	5,335,262							
FY 2013	\$	5,714,919							
FY 2014	\$	3,606,457							
FY 2015	\$	5,226,710							
FY 2016	\$	5,559,784							

Project Purpose

Technology project funds are required for continuous improvements and upgrades to the HCPSS network infrastructure and computer systems to ensure that instruction and business technology needs are met in a standard and equitable manner. Technology refresh programs, known as "Replacement Plans," have been established to ensure that all HCPSS students and school-based staff are equipped with the appropriate computing and network resources. Replacement Plans are designed to ensure that these essential resources are kept current in order to meet instruction and business technology requirements.

FY 2018 Request Analysis

Project Funding (July 1, 2003 - June 30, 2017)	\$ 39,486,000
Project Cost-to-Date (through June 30, 2016)	(33,470,774)
FY 2017 Projected Costs	(5,726,577)
Available Project Funding (July 1, 2017)	\$ 288,649
Requested Budget FY 2018	\$ 5,000,000



FY 2018 Superintendent's Proposed Capital Budget

Howard County Public School System

Project Details

This project provides funding for technology equipment replacement. Computers for teachers and students have historically been the most significant use of this funding. In FY 2018, this project will fund a portion of Replacement Plans 2.0 and 3.0 which provide computers, printers, and copiers/multifunction devices (MFDs) to administrative employees (RP2.0) and curriculum programs (RP3.0) in all schools. This initiative is in support of Goals 1, 2, 3, and 4 of Vision 2018 by providing new technologies for the aforementioned areas.



In FY 2018, the Technology Department plans to replace 100% of school administrative-position computers, MFDs, and printers, and 37 percent of school curriculum program computers and printers. As part of this process, devices will have the latest approved operating systems and software. Professional development will be provided to staff as needed.

Replace Technology Purchased in 2012–2013 with Like Models										
Туре	Position/Office/Program	Position/Office/Program Replacement Plan		Technology Type	Number	Total Cost				
ES, MS, HS	School Administrative Positions	RP2.0	2012	Computers	1,472	\$ 1,669,602				
ES, MS, HS	School Administrative Positions	RP2.0	2012	Printers	641	\$ 274,846				
ES, MS, HS	School Administrative Offices	RP2.0	2012	MFDs	202	\$ 496,934				
ES, MS, HS	School Curriculum Programs	RP3.0	2013	Computers	2,196	\$ 2,465,016				
ES, MS, HS	School Curriculum Programs	RP3.0	2013	Printers	155	\$ 94,094				
Total Reques	ted Funding				4,666	\$ 5,000,492				

In addition, there is a need to replace 1,830 General Purpose Fixed Lab computers in elementary and middle schools that were postponed due to reduced funding in FY 2015 and 1,610 computers in General Purpose Fixed Labs, General Purpose Mobile Labs, and high school media centers that were postponed due to reduced funding in FY 2016. Also, replacement of 3,720 MAP Testing Computers with a normal replacement schedule of FY 2017 will be deferred due to constrained funding available. The four-year warranties on all of these computers have expired and without costly upgrades the computers cannot reliably run the latest operating system and software. Also, deferred in FY 2018 will be 3,947 School Curriculum Programs computers from RP3.0.

	Replace Technology Purchased in 2010–2013 with Like Models										
Deferred from Year	Туре	Position/Office/Program	Replacement Plan	Last Installed	Technology Type	Number	Total Cost				
2015	ES, MS	School General Purpose Fixed Labs	RP1.0	2011	Computers	1,830	\$ 2,239,920				
2016	HS	School General Purpose Fixed Labs	RP1.5	2010	Computers	810	\$ 1,008,450				
2016	HS	School General Purpose Mobile Labs	RP1.5	2010	Computers	405	\$ 282,285				
2016	HS	School Media Centers	RP1.5	2010	Computers	395	\$ 275,315				
2017	ES, MS	School MAP Testing	N/A	2013	Computers	3,720	\$ 2,046,000				
2017	ES, MS, HS	School Curriculum Programs	RP3.0	2013	Computers	3,947	\$ 4,431,415				
Total Defe	rred Funding	1				11,107	\$10,283,385				

School Parking Lot Expansions: Project 1012

Various locations.



The Office of School Construction 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 2012	\$ 1,976,199							
FY 2013	\$ -							
FY 2014	\$ -							
FY 2015	\$-							
FY 2016	\$ -							

Project Purpose

Parking lot expansions 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. This project provides for the construction of additional parking spaces and modification of parking lots to improve traffic flow patterns at existing school sites.

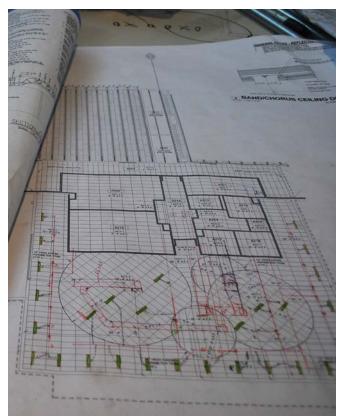
FY 2018 Request Analysis

Project Funding (July 1, 2003 - June 30, 2017)	\$ 4,200,370
Project Cost-to-Date (through June 30, 2016)	(3,580,764)
FY 2017 Projected Costs	(450,000)
Available Project Funding (July 1, 2017)	\$ 169,606
Requested Budget FY 2018	\$ 600,000



School Parking Lot Expansions

Planning and Design: Project 1038





Project Purpose

The Planning and Design Project has been established to provide funding for feasibility 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 feasibility 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." The replacement of Wilde Lake Middle School is a good example. The feasibility study helped guide a decision to replace the school. Pricing for these studies is favorable because design consultants want to obtain the full design project. Through a feasibility study, the Board is able to examine the needs of an existing building as well as unexpected design circumstances. 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.

Proposed Feasibility Studies in FY 2018 New HS #13

Talbott Springs Elementary School Renovation West Friendship Elementary School MBR

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 of 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 2012	\$	74,420							
FY 2013	\$	77,734							
FY 2014	\$	119,445							
FY 2015	\$	23,580							
FY 2016	\$	54,747							



Lift room for access to the stage.

FY 2018 Request Analysis

Project Funding (July 1, 2003 - June 30, 2017)	\$ 5,627,500
Project Cost-to-Date (through June 30, 2016)	(4,822,154)
FY 2017 Projected Costs	(356,389)
Available Project Funding (July 1, 2017)	\$ 448,957
Requested Budget FY 2018	\$ 200,000

FY 2018 Superintendent's Proposed Capital Budget

Project Details

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.

The barrier-free fund ensures 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 is ongoing.



Elevator for transportation to the second-story level.

Wilde Lake MS (Grades 6–8) REPLACEMENT SCHOOL

Project: 1031

Source of Fu	Five-Year Capital Program				Master Plan							
Туре	Approved Appropriation	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	Total
Bonds	\$ 22,518	\$ 2,000	\$-	\$-	\$-	\$-	\$-	\$-	\$-	\$-	\$-	\$ 24,518
Paygo	-	-	-	-	-	-	-	-	-	-	-	-
State Aid	15,359	-	-	-	-	-	-	-	-	-	-	15,359
Transfer Tax	1,500	-	-	-	-	-	-	-	-	-	-	1,500
Z Bonds	4,000	-	-	-	-	-	-	-	-	-	-	4,000
Total Funds	\$ 43,377	\$ 2,000	\$-	\$-	\$-	\$-	\$-	\$-	\$-	\$-	\$-	\$ 45,377

(In Thousands)

Use of Funds Five-Year Capital Program							Master Plan					
Description	Approved Appropriation	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	Total
Plans/Engineering	\$ 2,658	\$-	\$-	\$-	\$-	\$-	\$-	\$-	\$-	\$-	\$-	\$ 2,658
Construction	38,519	2,000	-	-	-	-	-	-	-	-	-	40,519
Equip./Furnishings	2,200	-	-	-	-	-	-	-	-	-	-	2,200
Total Expenditures	\$ 43,377	\$ 2,000	\$-	\$-	\$-	\$-	\$-	\$-	\$-	\$-	\$-	\$ 45,377

Project Commencement FY 2014

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Patuxent Valley MS (Grades 6–8) RENOVATION

Project: 1033

(In Thousands)

Source of F	unds			Five-Yea	ar Capital	Program			Maste	er Plan		
Туре	Approved Appropriation	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	Total
Bonds	\$ 16,031	\$ 1,500	\$-	\$-	\$-	\$-	\$-	\$-	\$-	\$-	\$-	\$ 17,531
Paygo	-	-	-	-	-	-	-	-	-	-	-	-
State Aid	10,604	-	-	-	-	-	-	-	-	-	-	10,604
Transfer Tax	1,400	-	-	-	-	-	-	-	-	-	-	1,400
Z Bonds	-	-	-	-	-	-	-	-	-	-	-	-
Total Funds	\$ 28,035	\$ 1,500	\$-	\$-	\$-	\$-	\$-	\$-	\$-	\$-	\$-	\$ 29,535

Use of Fund	S			Five-Yea	r Capital	Program			Maste	er Plan		
Description	Approved Appropriation	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	Total
Plans/Engineering	\$ 1,360	\$-	\$-	\$-	\$-	\$-	\$-	\$-	\$-	\$-	\$-	\$ 1,360
Construction	26,425	1,500	-	-	-	-	-	-	-	-	-	27,925
Equip./Furnishings	250	-	-	-	-	-	-	-	-	-	-	250
Total Expenditures	\$ 28,035	\$ 1,500	\$-	\$-	\$-	\$-	\$-	\$-	\$-	\$-	\$-	\$ 29,535

Project Commencement FY 2015

73

Swansfield ES (Grades K-5) **RENOVATION / ADDITION**

Project: 1034

Source of	Funds			Five-Yea	ar Capital	Program			Maste	er Plan		
Туре	Approved Appropriation	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	Total
Bonds	\$ 14,956	\$ 4,407	\$-	\$-	\$-	\$-	\$-	\$-	\$-	\$-	\$-	\$ 19,363
Paygo	-	-	-	-	-	-	-	-	-	-	-	-
State Aid	7,539	-	-	-	-	-	-	-	-	-	-	7,539
Transfer Tax	-	-	-	-	-	-	-	-	-	-	-	-
Z Bonds	-	-	-	-	-	-	-	-	-	-	-	-
Total Funds	\$ 22,495	\$ 4,407	\$-	\$-	\$-	\$-	\$-	\$-	\$-	\$-	\$-	\$ 26,902

(In Thousands)

Use of Fund	S			Five-Yea	r Capital	Program			Maste	er Plan		
Description	Approved Appropriation	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	Total
Plans/Engineering	\$ 1,898	\$-	\$-	\$-	\$-	\$-	\$-	\$-	\$-	\$-	\$-	\$ 1,898
Construction	20,597	3,453	-	-	-	-	-	-	-	-	-	24,050
Equip./Furnishings	-	954	-	-	-	-	-	-	-	-	-	954
Total Expenditures	\$ 22,495	\$ 4,407	\$-	\$-	\$-	\$-	\$-	\$-	\$-	\$-	\$-	\$ 26,902

Project Commencement FY 2015

Waverly ES(Grades K–5) RENOVATION / PHASE II ADDITION

Project: 0973

Source of F	unds			Five-Yea	ar Capital	Program			Maste	er Plan		
Туре	Approved Appropriation	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	Total
Bonds	\$ 3,770	\$18,896	\$ 1,500	\$-	\$-	\$-	\$-	\$-	\$-	\$-	\$-	\$ 24,166
Paygo	-	-	-	-	-	-	-	-	-	-	-	-
State Aid	9,589	-	-	-	-	-	-	-	-	-	-	9,589
Transfer Tax	-	-	-	-	-	-	-	-	-	-	-	-
Z Bonds	-	-	-	-	-	-	-	-	-	-	-	-
Total Funds	\$ 13,359	\$18,896	\$ 1,500	\$-	\$-	\$-	\$-	\$-	\$-	\$-	\$-	\$ 33,755

(In Thousands)

Use of Fund	S			Five-Yea	r Capital	Program			Maste	er Plan		
Description	Approved Appropriation	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	Total
Plans/Engineering	\$-	\$-	\$-	\$-	\$-	\$-	\$-	\$-	\$-	\$-	\$-	\$-
Construction	13,359	17,746	1,500	-	-	-	-	-	-	-	-	32,605
Equip./Furnishings	-	1,150	-	-	-	-	-	-	-	-	-	1,150
Total Expenditures	\$ 13,359	\$18,896	\$ 1,500	\$-	\$-	\$-	\$-	\$-	\$-	\$-	\$-	\$ 33,755

Project Commencement FY 2003

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FY 2018 Superintendent's Proposed Capital Budget

New ES #42 (Grades K-5) NEW SCHOOL

Project: 1028

apital	Program			Maste	er Plan		
2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	Total
-	\$-	\$-	\$-	\$-	\$-	\$-	\$ 32,123
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	12,000
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
	¢	¢	¢	¢	¢	¢	¢ 44.100

(In Thousands)

Source of Fu	unds			Five-Yea	r Capital	Program			Maste	er Plan		
Туре	Approved Appropriation	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	Total
Bonds	\$ 5,333	\$20,658	\$ 6,132	\$-	\$-	\$-	\$-	\$-	\$-	\$-	\$-	\$ 32,123
Paygo	-	-	-	-	-	-	-	-	-	-	-	-
State Aid	12,000	-	-	-	-	-	-	-	-	-	-	12,000
Transfer Tax	-	-	-	-	-	-	-	-	-	-	-	-
Z Bonds	-	-	-	-	-	-	-	-	-	-	-	-
Total Funds	\$ 17,333	\$20,658	\$ 6,132	\$-	\$-	\$-	\$-	\$-	\$-	\$-	\$-	\$ 44,123

Use of Funds	S			Five-Yea	r Capital	Program			Maste	er Plan		
Description	Approved Appropriation	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	Total
Plans/Engineering	\$ 2,807	\$-	\$-	\$-	\$-	\$-	\$-	\$-	\$-	\$-	\$-	\$ 2,807
Construction	14,526	19,158	4,787	-	-	-	-	-	-	-	-	38,471
Equip./Furnishings	-	1,500	1,345	-	-	-	-	-	-	-	-	2,845
Total Expenditures	\$ 17,333	\$20,658	\$ 6,132	\$-	\$-	\$-	\$-	\$-	\$-	\$-	\$-	\$ 44,123

Project Commencement FY 2016

76

Talbott Springs ES (Grades K-5)

RENOVATION

77

Project: 1043

Source of Fi	unds			Five-Yea	r Capital	Program			Maste	er Plan		
Туре	Approved Appropriation	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	Total
Bonds	\$-	\$ 3,000	\$15,800	\$ 9,200	\$-	\$-	\$-	\$-	\$-	\$-	\$-	\$ 28,000
Paygo	-	-	-	-	-	-	-	-	-	-	-	-
State Aid	-	-	-	-	-	-	-	-	-	-	-	-
Transfer Tax	-	-	-	-	-	-	-	-	-	-	-	-
Z Bonds	-	-	-	-	-	-	-	-	-	-	-	-
Total Funds	\$-	\$ 3,000	\$15,800	\$ 9,200	\$-	\$-	\$-	\$-	\$-	\$-	\$-	\$ 28,000

(In Thousands)

Use of Funds	S			Five-Yea	r Capital	Program			Maste	er Plan		
Description	Approved Appropriation	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	Total
Plans/Engineering	\$-	\$ 3,000	\$-	\$-	\$-	\$-	\$-	\$-	\$-	\$-	\$-	\$ 3,000
Construction	-	-	15,800	8,200	-	-	-	-	-	-	-	24,000
Equip./Furnishings	-	-	-	1,000	-	-	-	-	-	-	-	1,000
Total Expenditures	\$-	\$ 3,000	\$15,800	\$ 9,200	\$-	\$-	\$-	\$-	\$-	\$-	\$-	\$ 28,000

Project Commencement FY 2019

Oakland Mills MS (Grades 6–8) RENOVATION

Project: 1036

Source of F	unds			Five-Yea	r Capital	Program			Maste	er Plan		
Туре	Approved Appropriation	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	Total
Bonds	\$-	\$ 3,000	\$18,828	\$ 6,000	\$-	\$-	\$-	\$-	\$-	\$-	\$-	\$ 27,828
Paygo	-	-	-	-	-	-	-	-	-	-	-	-
State Aid	-	-	-	-	-	-	-	-	-	-	-	-
Transfer Tax	-	-	-	-	-	-	-	-	-	-	-	-
Z Bonds	-	-	-	-	-	-	-	-	-	-	-	-
Total Funds	\$-	\$ 3,000	\$18,828	\$ 6,000	\$-	\$-	\$-	\$-	\$-	\$-	\$-	\$ 27,828

(In Thousands)

Use of Funds	S			Five-Yea	r Capital	Program			Maste	er Plan		
Description	Approved Appropriation	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	Total
Plans/Engineering	\$-	\$-	\$-	\$-	\$-	\$-	\$-	\$-	\$-	\$-	\$-	\$-
Construction	-	3,000	18,828	4,875	-	-	-	-	-	-	-	26,703
Equip./Furnishings	-	-	-	1,125	-	-	-	-	-	-	-	1,125
Total Expenditures	\$-	\$ 3,000	\$18,828	\$ 6,000	\$-	\$-	\$-	\$-	\$-	\$-	\$-	\$ 27,828

Project Commencement FY 2016

78

New HS #13 (Grades 9–12) NEW SCHOOL

(In Thousands)

Source of F	unds			Five-Yea	r Capital	Program			Maste	er Plan		
Туре	Approved Appropriation	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	Total
Bonds	\$-	\$ 3,300	\$10,950	\$35,250	\$27,200	\$36,500	\$25,325	\$-	\$-	\$-	\$-	\$ 138,525
Paygo	-	-	-	-	-	-	-	-	-	-	-	-
State Aid	-	-	-	-	-	-	-	-	-	-	-	-
Transfer Tax	-	-	-	-	-	-	-	-	-	-	-	-
Z Bonds	-	-	-	-	-	-	-	-	-	-	-	-
Total Funds	\$-	\$ 3,300	\$10,950	\$35,250	\$27,200	\$36,500	\$25,325	\$-	\$-	\$-	\$-	\$ 138,525

Use of Fund	S			Five-Yea	r Capital	Program			Maste	er Plan		
Description	Approved Appropriation	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	Total
Plans/Engineering	\$-	\$ 3,300	\$-	\$-	\$-	\$-	\$-	\$-	\$-	\$-	\$-	\$ 3,300
Construction	-	-	10,950	35,250	27,200	36,500	23,325	-	-	-	-	133,225
Equip./Furnishings	-	-	-	-	-	-	2,000	-	-	-	-	2,000
Total Expenditures	\$-	\$ 3,300	\$10,950	\$35,250	\$27,200	\$36,500	\$25,325	\$-	\$-	\$-	\$-	\$ 138,525

Project Commencement FY 2018

79

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

Project: 1039

Source of Fi	unds			Five-Yea	r Capital	Program			Maste	er Plan		
Туре	Approved Appropriation	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	Total
Bonds	\$-	\$-	\$-	\$ 5,380	\$20,166	\$22,125	\$ 8,124	\$-	\$-	\$-	\$-	\$ 55,795
Paygo	-	-	-	-	-	-	-	-	-	-	-	-
State Aid	-	-	-	-	-	-	-	-	-	-	-	-
Transfer Tax	-	-	-	-	-	-	-	-	-	-	-	-
Z Bonds	-	-	-	-	-	-	-	-	-	-	-	-
Total Funds	\$ -	\$-	\$-	\$ 5,380	\$20,166	\$22,125	\$ 8,124	\$-	\$-	\$-	\$-	\$ 55,795

(In Thousands)

Use of Fund	S			Five-Yea	r Capital	Program			Maste	er Plan		
Description	Approved Appropriation	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	Total
Plans/Engineering	\$-	\$-	\$-	\$ 5,380	\$-	\$-	\$-	\$-	\$-	\$-	\$-	\$ 5,380
Construction	-	-	-	-	20,166	22,125	5,624	-	-	-	-	47,915
Equip./Furnishings	-	-	-	-	-	-	2,500	-	-	-	-	2,500
Total Expenditures	\$-	\$-	\$-	\$ 5,380	\$20,166	\$22,125	\$ 8,124	\$-	\$-	\$-	\$-	\$ 55,795

Project Commencement FY 2024

Ellicott Mills MS(Grades 6–8) ADDITION

Project: 1037

Source of F	unds			Five-Yea	ar Capital	Program			Maste	er Plan		
Туре	Approved Appropriation	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	Total
Bonds	\$-	\$-	\$-	\$-	\$-	\$-	\$ 544	\$ 5,404	\$-	\$-	\$-	\$ 5,948
Paygo	-	-	-	-	-	-	-	-	-	-	-	-
State Aid	-	-	-	-	-	-	-	-	-	-	-	-
Transfer Tax	-	-	-	-	-	-	-	-	-	-	-	-
Z Bonds	-	-	-	-	-	-	-	-	-	-	-	
Total Funds	\$-	\$-	\$-	\$-	\$-	\$-	\$ 544	\$ 5,404	\$-	\$-	\$-	\$ 5,948

(In Thousands)

Use of Fund	S			Five-Yea	r Capital	Program			Maste	er Plan		
Description	Approved Appropriation	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	Total
Plans/Engineering	\$-	\$-	\$-	\$-	\$-	\$-	\$ 544	\$-	\$-	\$-	\$-	\$ 544
Construction	-	-	-	-	-	-	-	5,154	-	-	-	5,154
Equip./Furnishings	-	-	-	-	-	-	-	250	-	-	-	250
Total Expenditures	\$-	\$-	\$-	\$-	\$-	\$-	\$ 544	\$ 5,404	\$-	\$-	\$-	\$ 5,948

Project Commencement FY 2022

Hammond HS (Grades 9–12) RENOVATION

Project: 1024

Source of F	unds			Five-Yea	r Capital	Program			Maste	er Plan		
Туре	Approved Appropriation	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	Total
Bonds	\$-	\$-	\$-	\$-	\$-	\$-	\$ 2,800	\$25,748	\$17,099	\$15,099	\$11,099	\$ 71,845
Paygo	-	-	-	-	-	-	-	-	-	-	-	-
State Aid	-	-	-	-	-	-	-	-	-	-	-	-
Transfer Tax	-	-	-	-	-	-	-	-	-	-	-	-
Z Bonds	-	-	-	-	-	-	-	-	-	-	-	-
Total Funds	\$-	\$-	\$-	\$-	\$-	\$-	\$ 2,800	\$25,748	\$17,099	\$15,099	\$11,099	\$ 71,845

(In Thousands)

Use of Fund	S			Five-Yea	r Capital	Program			Maste	er Plan		
Description	Approved Appropriation	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	Total
Plans/Engineering	\$-	\$-	\$-	\$-	\$-	\$-	\$ 2,800	\$-	\$-	\$-	\$-	\$ 2,800
Construction	-	-	-	-	-	-	-	25,748	17,099	15,099	10,849	68,795
Equip./Furnishings	-	-	-	-	-	-	-	-	-	-	250	250
Total Expenditures	\$-	\$-	\$-	\$-	\$-	\$-	\$ 2,800	\$25,748	\$17,099	\$15,099	\$11,099	\$ 71,845

Project Commencement FY 2019

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

Project: 1040

		110	Jeen. 1040
aste	er Plan		
25	FY2026	FY2027	Total
99	\$17,906	\$ 9,410	\$ 55,795
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

(In Thousands)

Source of Fi	unds			Five-Yea	r Capital	Program			Maste	er Plan		
Туре	Approved Appropriation	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	Total
Bonds	\$-	\$-	\$-	\$-	\$-	\$-	\$-	\$ 5,380	\$23,099	\$17,906	\$ 9,410	\$ 55,795
Paygo	-	-	-	-	-	-	-	-	-	-	-	-
State Aid	-	-	-	-	-	-	-	-	-	-	-	-
Transfer Tax	-	-	-	-	-	-	-	-	-	-	-	-
Z Bonds	-	-	-	-	-	-	-	-	-	-	-	-
Total Funds	\$-	\$-	\$-	\$-	\$-	\$-	\$-	\$ 5,380	\$23,099	\$17,906	\$ 9,410	\$ 55,795

Use of Funds	S			Five-Yea	r Capital	Program			Maste	er Plan		
Description	Approved Appropriation	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	Total
Plans/Engineering	\$-	\$-	\$-	\$-	\$-	\$-	\$-	\$ 5,380	\$-	\$-	\$-	\$ 5,380
Construction	-	-	-	-	-	-	-	-	23,099	17,906	9,410	50,415
Equip./Furnishings	-	-	-	-	-	-	-	-	-	-	-	-
Total Expenditures	\$-	\$-	\$-	\$-	\$-	\$-	\$-	\$ 5,380	\$23,099	\$17,906	\$ 9,410	\$ 55,795

Project Commencement FY 2025

Project: 1040

FY 2018 Superintendent's Proposed Capital Budget

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

Project: 1041

Source of Fi	Approved AppropriationFY2018FY20\$-\$\$\$-\$\$				r Capital	Program		Master Plan					
Туре		FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	Total	
Bonds	\$-	\$ -	\$-	\$-	\$-	\$-	\$-	\$-	\$-	\$ 5,380	\$15,166	\$ 20,546	
Paygo	-	-	-	-	-	-	-	-	-	-	-	-	
State Aid	-	-	-	-	-	-	-	-	-	-	-	-	
Transfer Tax	-	-	-	-	-	-	-	-	-	-	-	-	
Z Bonds	-	-	-	-	-	-	-	-	-	-	-	-	
Total Funds	\$-	\$-	\$-	\$-	\$-	\$-	\$-	\$-	\$-	\$ 5,380	\$15,166	\$ 20,546	

(In Thousands)

Use of Funds	S			Five-Yea	r Capital	Program						
Description	Approved Appropriation	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	Total
Plans/Engineering	\$-	\$-	\$-	\$-	\$-	\$-	\$-	\$-	\$-	\$ 5,380	\$-	\$ 5,380
Construction	-	-	-	-	-	-	-	-	-	-	15,166	15,166
Equip./Furnishings	-	-	-	-	-	-	-	-	-	-	-	-
Total Expenditures	\$-	\$-	\$-	\$-	\$-	\$-	\$-	\$-	\$-	\$ 5,380	\$15,166	\$ 20,546

Project Commencement FY 2026

Project: 1041

FY 2018 Superintendent's Proposed Capital Budget

Systemic Renovations

Project: 0980

Source of Fu	unds			Five-Yea	r Capital	Program			Master Plan				
Туре	Approved Appropriation	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	Total	
Bonds	\$ 118,215	\$26,750	\$27,300	\$26,657	\$37,703	\$23,822	\$42,775	\$40,661	\$42,694	\$44,829	\$47,070	\$ 478,476	
Paygo	4,555	-	-	-	-	-	-	-	-	-	-	4,555	
State Aid	82,501	-	-	-	-	-	-	-	-	-	-	82,501	
Transfer Tax	6,100	-	-	-	-	-	-	-	-	-	-	6,100	
Z Bonds	28,323	-	-	-	-	-	-	-	-	-	-	28,323	
Total Funds	\$ 239,694	\$26,750	\$27,300	\$26,657	\$37,703	\$23,822	\$42,775	\$40,661	\$42,694	\$44,829	\$47,070	\$ 599,955	

(In Thousands)

Use of Fund	S			Five-Yea	r Capital	Program		Master Plan					
Description	Approved Appropriation	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	Total	
Plans/Engineering	\$-	\$-	\$-	\$-	\$-	\$-	\$-	\$-	\$-	\$-	\$-	\$-	
Construction	239,694	26,750	27,300	26,657	37,703	23,822	42,775	40,661	42,694	44,829	47,070	599,955	
Equip./Furnishings	-	-	-	-	-	-	-	-	-	-	-	-	
Total Expenditures	\$ 239,694	\$26,750	\$27,300	\$26,657	\$37,703	\$23,822	\$42,775	\$40,661	\$42,694	\$44,829	\$47,070	\$ 599,955	

Project Commencement FY 2004

Roofing F	Projects
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Project: 0994

t: 0994	FY 2018 Superintendent's Pro
otal	Proposed (
70,866	Capita
-	
11,920	Budget
3,251	G G
3,201	e e

98

Source of Fu	unds			Five-Yea	r Capital	Program		Master Plan				
Туре	Approved Appropriation	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	Total
Bonds	\$ 25,866		\$ 5,000	\$ 5,000	\$ 5,000	\$ 5,000	\$ 5,000	\$ 5,000	\$ 5,000	\$ 5,000	\$ 5,000	\$ 70,866
Paygo	-	-	-	-	-	-	-	-	-	-	-	-
State Aid	11,920	-	-	-	-	-	-	-	-	-	-	11,920
Transfer Tax	3,251	-	-	-	-	-	-	-	-	-	-	3,251
Z Bonds	4,500	-	-	-	-	-	-	-	-	-	-	4,500
Total Funds	\$ 45,537	\$-	\$ 5,000	\$ 5,000	\$ 5,000	\$ 5,000	\$ 5,000	\$ 5,000	\$ 5,000	\$ 5,000	\$ 5,000	\$ 90,537

(In Thousands)

Use of Fund	S			Five-Yea	r Capital	Program			Maste	er Plan		
Description	Approved Appropriation	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	Total	
Plans/Engineering	\$-	\$-	\$-	\$-	\$-	\$-	\$-	\$-	\$-	\$-	\$-	\$-
Construction	45,537	-	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	90,537
Equip./Furnishings	-	-	-	-	-	-	-	-	-	-	-	-
Total Expenditures	\$ 45,537	\$-	\$ 5,000	\$ 5,000	\$ 5,000	\$ 5,000	\$ 5,000	\$ 5,000	\$ 5,000	\$ 5,000	\$ 5,000	\$ 90,537

Project Commencement FY 2004

Playground Equipment

Project: 0990

m						Maste	er Pla	an				
2	FY	2023	FY	2024	FY	2025	FY	2026	FY	2027	1	ſotal
0	\$	300	\$	300	\$	300	\$	300	\$	300	\$	5,360
-		-		-		-		-		-		-
-		-		-		-		-		-		-
-		-		-		-		-		-		580
-		-		-		-		-		-		-

Source of Fu	unds					Fiv	e-Yea	r C	apital	Pro	gram						Maste	er Pl	an			
	Approved																					
Туре	Appropriation	n	FY2018	FY	2019	F١	/2020	FY	2021	FΥ	2022	FY	2023	FY	2024	FY	2025	FY	2026	FY	2027	Total
Bonds	\$ 2,10	0	\$ 560	\$	300	\$	300	\$	300	\$	300	\$	300	\$	300	\$	300	\$	300	\$	300	\$ 5,360
Paygo		-	-		-		-		-		-		-		-		-		-		-	-
State Aid		-	-		-		-		-		-		-		-		-		-		-	-
Transfer Tax	58	0	-		-		-		-		-		-		-		-		-		-	580
Z Bonds		-	-		-		-		-		-		-		-		-		-		-	-
Total Funds	\$ 2,68	0	\$ 560	\$	300	\$	300	\$	300	\$	300	\$	300	\$	300	\$	300	\$	300	\$	300	\$ 5,940

(In Thousands)

Use of Funds	S			Five-Yea	r Capital	Program			Maste	er Plan		
Description	Approved Appropriation	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	Total
Plans/Engineering	\$-	\$-	\$-	\$-	\$-	\$-	\$-	\$-	\$-	\$-	\$-	\$-
Construction	2,680	560	300	300	300	300	300	300	300	300	300	5,940
Equip./Furnishings	-	-	-	-	-	-	-	-	-	-	-	-
Total Expenditures	\$ 2,680	\$ 560	\$ 300	\$ 300	\$ 300	\$ 300	\$ 300	\$ 300	\$ 300	\$ 300	\$ 300	\$ 5,940

Project Commencement FY 2002

87

Relocatable Classrooms

Project: 0993

Source of F	unds			Five-Yea	r Capital	Program		Master Plan				
Туре	Approved Appropriation	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	Total
Bonds	\$ 14,410	\$ 1,500	\$ 1,500	\$ 1,500	\$ 1,500	\$ 1,500	\$ 1,500	\$ 1,500	\$ 1,500	\$ 1,500	\$ 1,500	\$ 29,410
Paygo	-	-	-	-	-	-	-	-	-	-	-	-
State Aid	-	-	-	-	-	-	-	-	-	-	-	-
Transfer Tax	3,100	-	-	-	-	-	-	-	-	-	-	3,100
Z Bonds	1,400	-	-	-	-	-	-	-	-	-	-	1,400
Total Funds	\$ 18,910	\$ 1,500	\$ 1,500	\$ 1,500	\$ 1,500	\$ 1,500	\$ 1,500	\$ 1,500	\$ 1,500	\$ 1,500	\$ 1,500	\$ 33,910

(In Thousands)

Use of Funds	S			Five-Yea	r Capital	Program			Maste	er Plan		
Description	Approved Appropriation	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	Total
Plans/Engineering	\$-	\$-	\$-	\$-	\$-	\$-	\$-	\$-	\$-	\$-	\$-	\$-
Construction	18,910	1,500	1,500	1,500	1,500	1,500	1,500	1,500	1,500	1,500	1,500	33,910
Equip./Furnishings	-	-	-	-	-	-	-	-	-	-	-	-
Total Expenditures	\$ 18,910	\$ 1,500	\$ 1,500	\$ 1,500	\$ 1,500	\$ 1,500	\$ 1,500	\$ 1,500	\$ 1,500	\$ 1,500	\$ 1,500	\$ 33,910

Project Commencement FY 2004

80

Site Acquisition and Construction Reserve

(In Thousands)

Source of F	unds			Five-Yea	r Capital	Program			Maste	er Plan		
Туре	Approved Appropriation	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	Total
Bonds	\$ 9,425	\$ 2,000	\$ 2,000	\$ 2,000	\$ 2,000	\$ 2,000	\$ 2,000	\$ 2,000	\$ 2,000	\$ 2,000	\$ 2,000	\$ 29,425
Paygo	-	-	-	-	-	-	-	-	-	-	-	-
State Aid	2,594	-	-	-	-	-	-	-	-	-	-	2,594
Transfer Tax	8,817	-	-	-	-	-	-	-	-	-	-	8,817
Z Bonds	-	-	-	-	-	-	-	-	-	-	-	-
Total Funds	\$ 20,836	\$ 2,000	\$ 2,000	\$ 2,000	\$ 2,000	\$ 2,000	\$ 2,000	\$ 2,000	\$ 2,000	\$ 2,000	\$ 2,000	\$ 40,836

Use of Fund	S			Five-Yea	r Capital	Program			Maste	er Plan		
Description	Approved Appropriation	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	Total
Plans/Engineering	\$-	\$-	\$-	\$-	\$-	\$-	\$-	\$-	\$-	\$-	\$-	\$-
Construction	20,836	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	40,836
Equip./Furnishings	-	-	-	-	-	-	-	-	-	-	-	-
Total Expenditures	\$ 20,836	\$ 2,000	\$ 2,000	\$ 2,000	\$ 2,000	\$ 2,000	\$ 2,000	\$ 2,000	\$ 2,000	\$ 2,000	\$ 2,000	\$ 40,836

Project Commencement FY 2004

Project: 0995

FY 2018 Superintendent's Proposed Capital Budget

					(In Thous	sands)								
	_													
Source of Fi	unds			Five-Yea	ar Capital	Program			Maste	er Plan				
Туре	Approvec Appropriation	priation FY2018 FY2019 FY2020 FY2021 FY2022 FY2023 FY2024 FY2025 FY2026 FY2027												
Bonds	\$ 4,98	6 \$ -	\$-	\$-	\$-	\$-	\$-	\$-	\$-	\$-	\$-	\$ 4,986		
Paygo			-	-	-	-	-	-	-	-	-	-		
State Aid			-	-	-	-	-	-	-	-	-	-		
Transfer Tax	34,50	0 5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	84,500		
Z Bonds			-	-	-	-	-	-	-	-	-	-		
Total Funds	\$ 39,48	6 \$ 5,000	\$ 5,000	\$ 5,000	\$ 5,000	\$ 5,000	\$ 5,000	\$ 5,000	\$ 5,000	\$ 5,000	\$ 5,000	\$ 89,486		

Use of Funds	S			Five-Yea	r Capital	Program			Maste	er Plan		
Description	Approved Appropriation	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	Total
Plans/Engineering	\$-	\$-	\$-	\$-	\$-	\$-	\$-	\$-	\$-	\$-	\$-	\$-
Construction	-	-	-	-	-	-	-	-	-	-	-	-
Equip./Furnishings	39,486	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	89,486
Total Expenditures	\$ 39,486	\$ 5,000	\$ 5,000	\$ 5,000	\$ 5,000	\$ 5,000	\$ 5,000	\$ 5,000	\$ 5,000	\$ 5,000	\$ 5,000	\$ 89,486

Project Commencement FY 2011

Project: 1021

Project: 1021

/1 TI 40

Technology

School Parking Lot Expansions

(In Thousands)

Source of F	unds			Five-Yea	ar Capital	Program			Maste	er Plan		
Туре	Approved Appropriation	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	Total
Bonds	\$ 2,779	\$ 600	\$ 600	\$ 600	\$ 600	\$ 600	\$ 600	\$ 600	\$ 600	\$ 600	\$ 600	\$ 8,779
Paygo	-	-	-	-	-	-	-	-	-	-	-	-
State Aid	1,421	-	-	-	-	-	-	-	-	-	-	1,421
Transfer Tax	-	-	-	-	-	-	-	-	-	-	-	-
Z Bonds	-	-	-	-	-	-	-	-	-	-	-	-
Total Funds	\$ 4,200	\$ 600	\$ 600	\$ 600	\$ 600	\$ 600	\$ 600	\$ 600	\$ 600	\$ 600	\$ 600	\$ 10,200

Use of Fund	S			Five-Yea	r Capital	Program			Maste	er Plan		
Description	Approved Appropriation	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	Total
Plans/Engineering	\$ 240	\$ 60	\$ 60	\$ 60	\$ 60	\$ 60	\$ 60	\$ 60	\$ 60	\$ 60	\$ 60	\$ 840
Construction	3,960	540	540	540	540	540	540	540	540	540	540	9,360
Equip./Furnishings	-	-	-	-	-	-	-	-	-	-	-	-
Total Expenditures	\$ 4,200	\$ 600	\$ 600	\$ 600	\$ 600	\$ 600	\$ 600	\$ 600	\$ 600	\$ 600	\$ 600	\$ 10,200

Project Commencement FY 2008

Project: 1012

FY 2018 Superintendent's Proposed Capital Budget

Planning and Design

Source of F	unds			Five-Yea	ar Capital	Program			Maste	er Plan		
Туре	Approved Appropriation	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	Total
Bonds	\$-	\$ 300	\$ 300	\$ 300	\$ 300	\$ 300	\$ 300	\$ 300	\$ 300	\$ 300	\$ 300	\$ 3,000
Paygo	-	-	-	-	-	-	-	-	-	-	-	-
State Aid	-	-	-	-	-	-	-	-	-	-	-	-
Transfer Tax	600	-	-	-	-	-	-	-	-	-	-	600
Z Bonds	-	-	-	-	-	-	-	-	-	-	-	-
Total Funds	\$ 600	\$ 300	\$ 300	\$ 300	\$ 300	\$ 300	\$ 300	\$ 300	\$ 300	\$ 300	\$ 300	\$ 3,600

(In Thousands)

Use of Funds	S			Five-Yea	ar Capital	Program			Maste	er Plan		
Description	Approved Appropriation	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	Total
Plans/Engineering	\$ 600	\$ 300	\$ 300	\$ 300	\$ 300	\$ 300	\$ 300	\$ 300	\$ 300	\$ 300	\$ 300	\$ 3,600
Construction	-	-	-	-	-	-	-	-	-	-	-	-
Equip./Furnishings	-	-	-	-	-	-	-	-	-	-	-	-
Total Expenditures	\$ 600	\$ 300	\$ 300	\$ 300	\$ 300	\$ 300	\$ 300	\$ 300	\$ 300	\$ 300	\$ 300	\$ 3,600

Project Commencement FY 2016

Approved Appropriation

FY2018

FY2019

FY2020

Barrier-Free

Source of Funds

Туре

93

Total

Master Plan

FY2026

FY2027

FY2025

9	FY 2018 Superintendent's Proposed Capital Budget
5	Ca
5 3	pita
-	Bu
C	dge
	-

Howard County Public School System

Bonds	\$ 3,875	\$ 200	\$ 5,875									
Paygo	303	-	-	-	-	-	-	-	-	-	-	303
State Aid	-	-	-	-	-	-	-	-	-	-	-	-
Transfer Tax	1,450	-	-	-	-	-	-	-	-	-	-	1,450
Z Bonds	-	-	-	-	-	-	-	-	-	-	-	-
Total Funds	\$ 5,628	\$ 200	\$ 7,628									

(In Thousands)

FY2022

FY2023

FY2024

Five-Year Capital Program

FY2021

Use of Funds	S			Five-Yea	r Capital	Program			Maste	er Plan		
Description	Approved Appropriation	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	Total
Plans/Engineering	\$-	\$ -	\$-	\$-	\$-	\$-	\$-	\$-	\$-	\$-	\$-	\$-
Construction	5,628	200	200	200	200	200	200	200	200	200	200	7,628
Equip./Furnishings	-	-	-	-	-	-	-	-	-	-	-	-
Total Expenditures	\$ 5,628	\$ 200	\$ 200	\$ 200	\$ 200	\$ 200	\$ 200	\$ 200	\$ 200	\$ 200	\$ 200	\$ 7,628

Project Commencement FY 1989



Howard County Public School System

Superintendent's Proposed FY 2018 Capital Budget Capital Improvement Program FY 2019–2023 Long-Range Master Plan FY 2018–2027

Section 4

Supporting Data

September 2016

Pre-Measures																nstrativ											
Chart reflects May 2016	Projec	tions, Bo	bard of	Educa				y Utilization Rates with oproved capacities, and n						r's Approved FY 2017 Ca			bital Budget Projects - Not 1			- Not Te	est for a	APFO					
		Capa	acity		20	17-18	20	18-19	20	19-20	20	20-21	20)21-22	20	22-23	20	23-24	20	24-25	20	25-26	20	26-27	20	27-28	
Columbia - East Cradlerock ES Jeffers Hill ES Phelps Luck ES Stevens Forest ES Talbott Springs ES Thunder Hill ES Region Totals	2017 398 421 616 399 377 509 2720	2018 398 421 616 399 377 509 2720	2019 398 421 616 399 377 509 2720	2020 398 421 616 399 377 509 2720	Proj 440 451 565 422 450 599 2927	% Util. 110.6 107.1 91.7 105.8 119.4 (117.7 107.6		% Util. 112.8 106.4 89.8 102.5 118.3 C 115.5 C 106.4	Proj 434 442 565 401 457 587 2886	% Util. 109.0 105.0 91.7 100.5 121.2 C 115.3 C 106.1	442 440 588 413 457	% Util. 111.1 104.5 95.5 103.5 121.2 C 112.2 107.0	Proj 442 439 608 412 453 572 2926	% Util. 111.1 104.3 98.7 103.3 120.2 C 112.4 107.6	439 437 624 415	% Util. 110.3 103.8 101.3 104.0 119.1 C 110.8 107.6	Proj 440 439 632 416 453 561 2941	% Util. 110.6 104.3 102.6 104.3 120.2 C 110.2 108.1	Proj 455 441 636 415 466 572 2985	% Util. 114.3 104.8 103.2 104.0 123.6 112.4 109.7	Proj 468 450 643 423 2462 577 3023	% Util. 117.6 106.9 104.4 106.0 122.5 113.4 111.1	465 455 655 428	% Util. 116.8 108.1 106.3 107.3 124.4 114.9 112.4	C 463 462 666 433	% Util. 116.3 C 109.7 108.1 108.5 C 116.7 C 113.8 C	
Columbia - West Bryant Woods ES Clemens Crossing ES Longfellow ES New ES #44 Ns Running Brook ES Swansfield ES A Region Totals	361 521 512 0 515 521 2430	361 521 512 0 515 621 2530	361 521 512 0 515 621 2530	361 521 512 0 515 621 2530	397 526 445 539 611 2518	110.0 101.0 86.9 104.7 117.3 (103.6	406 545 445 605 615 2616	112.5 104.6 86.9 117.5 C 99.0 103.4	416 566 430 668 599 2679	115.2 C 108.6 84.0 129.7 C 96.5 105.9	590 423	114.1 113.2 82.6 140.6 C 96.1 108.5	410 593 420 806 587 2816	113.6 113.8 82.0 156.5 C 94.5 111.3	411 609 413 868 597 2898	113.9 116.9 C 80.7 168.5 C 96.1 114.5	412 611 413 945 601 2982	114.1 117.3 C 80.7 183.5 C 96.8 117.9 C	415 608 414 1001 602 3040	115.0 116.7 (80.9 194.4 (96.9 120.2 (421 1044 609	117.2 (116.1 (82.2 202.7 (98.1 122.6 (611 424 1076 617 	99.4		119.1 C 121.7 C 84.0 213.4 C 100.3 96.9	
Northeastern Bellows Spring ES Deep Run ES Ducketts Lane ES Elkridge ES Ilchester ES New ES #42 NS Rockburn ES Veterans ES Waterloo ES Worthington ES Region Totals	751 772 770 653 0 653 788 663 590 6400	751 772 770 653 788 653 788 653 788 663 590 7188	751 772 770 653 788 653 788 653 788 663 590 7188	751 772 770 653 788 653 788 663 590 7188	755 831 940 817 625 645 881 591 508 6593	100.5 107.6 122.1 C 107.5 95.7 98.8 111.8 89.1 86.1 103.0	830 868 1045 837 598 660 898 597 477 6810	110.5 112.4 135.7 C 110.1 91.6 101.1 114.0 90.0 80.8 94.7	874 876 1129 834 584 665 913 560 445 6880	116.4 C 113.5 146.6 C 109.7 89.4 101.8 115.9 C 84.5 75.4 95.7	872 1204 843 595 678	123.3 C 113.0 156.4 C 110.9 91.1 103.8 118.9 C 86.3 74.4 98.3	964 880 1296 828 660 681 916 554 444 7223	128.4 C 114.0 168.3 C 108.9 101.1 104.3 116.2 C 83.6 75.3 100.5	866 1370 810 687 722	106.6 105.2 110.6 115.7 C 83.6 76.6	877 1404 812 717 747	129.8 C 113.6 182.3 C 106.8 109.8 114.4 114.2 83.6 78.3 103.6	971 878 1448 823 724 803 906 551 478 7582	129.3 C 113.7 188.1 C 108.3 110.9 C 123.0 C C 115.0 83.1 81.0 105.5 C C	881 1470 877 722	126.9 (114.1) 190.9 (115.4) 115.4 (110.6) 128.2 (112.6) 85.2 84.4 107.0 (107.0)	892 1510 882 707	123.2 115.5 196.1 116.1 108.3 136.0 111.8 86.3 84.9 107.9	C 910 C 1536 C 907 681	118.5 C 117.9 C 199.5 C 119.3 C 104.3 144.7 C 115.9 C 87.3 82.9 109.2	
Northern Centennial Lane ES Hollifield Station ES Manor Woods ES New ES #45 Ns Northfield ES St Johns Lane ES Waverly ES A Region Totals	647 694 681 0 700 612 638 3972	647 694 681 0 700 612 738 4072	647 694 681 0 700 612 738 4072	647 694 681 0 700 612 738 4072	773 768 841 723 709 672 4486	119.5 C 110.7 123.5 C 103.3 115.8 C 105.3 112.9	789 976 720 736 669	119.3 C 113.7 143.3 C 102.9 120.3 C 90.7 114.5	805 1089 711	123.6 C 116.0 C 159.9 C 101.6 119.8 C 87.1 117.4 C	823 1225 715 721 637	121.5 C 118.6 C 179.9 C 102.1 117.8 C 86.3 120.5 C	825 1368 717 722 615	102.4 118.0 C 83.3	833 1487 724 737 606	103.4 120.4 C 82.1	818 1606 718 747 607	121.5 C 117.9 C 235.8 C 102.6 122.1 C 82.2 129.7 C	738 739 606	105.4 120.8 C 82.1	833 1693 762 754 627	123.8 (120.0 (248.6 (108.9 123.2 (85.0 134.3 (869 1692 771 787 643	124.4 125.2 248.5 110.1 128.6 87.1 136.7	C 908 C 1651 B18 C 809 653	126.4 C 130.8 C 242.4 C 116.9 C 132.2 C 88.5 138.9 C	
Southeastern Atholton ES Bollman Bridge ES Forest Ridge ES Gouifford ES Hammond ES Laurel Woods ES New ES #43 NS Region Totals	424 666 669 700 465 653 640 0 4217	424 666 669 700 465 653 640 0 4217	424 666 669 700 465 653 640 0 4217	424 666 669 700 465 653 640 0 4217	444 706 798 705 473 667 561 4354	104.7 106.0 119.3 (100.7 101.7 102.1 87.7 103.2	443 725 794 750 472 675 552	104.5 108.9 118.7 C 107.1 101.5 103.4 86.3 104.6	467 730 852 734 480 679 534 4476	110.1 109.6 127.4 C 104.9 103.2 104.0 83.4 106.1	479 739 909 780 471 704 532	113.0 111.0 135.9 C 111.4 101.3 107.8 83.1 109.4	475 753 936 797 476 749 540	112.0 113.1 139.9 C 113.9 102.4 114.7 84.4 112.1	480 781 978 807 470 815 545	113.2 117.3 C 146.2 C 115.3 C 101.1 124.8 C 85.2 115.6 C	490 805 1030 795 530 844 547	115.6 C 120.9 C 154.0 C 113.6 114.0 129.2 C 85.5	501 819 1062 774 542 876 553 5127	118.2 C 123.0 C 158.7 C 110.6 116.6 C 134.2 C 86.4	2 494 2 827 2 1085 778 2 542	116.5 (124.2 (162.2 (111.1 116.6 (140.6 (86.6	501 829 1103 796 537 929 571	118.2 124.5	C 509 C 840 C 1102 786 C 537 C 948 576	120.0 C 126.1 C 164.7 C 112.3 115.5 C 145.2 C 90.0 105.9	
Western Bushy Park ES Clarksville ES Dayton Oaks ES Fulton ES Dinters Run ES Triadelphia Ridge ES West Friendship ES Region Totals Countywide Totals 'A' includes additions as		788 612 788 527 744 581 414 5242 25969					568 392 594 883 475 766 595 308 4581 25973	72.1 64.1 75.4 112.1 90.1 103.0 102.4 74.4 87.4 100.0	552 378 598 947 472 793 595 304 4639 26341	70.1 61.8 75.9 120.2 C 89.6 106.6 102.4 73.4 88.5 101.4	461 827 634 304 4710	69.9 59.5 74.5 124.6 C 87.5 111.2 109.1 73.4 89.9 103.8	527 374 581 1013 450 882 646 291 4764 27487	66.9 61.1 73.7 128.6 C 85.4 118.5 C 111.2 70.3 90.9 105.8	456 887 647 319 4766	66.0 60.1 71.7 127.4 C 86.5 119.2 C 111.4 77.1 90.9 107.8	502 367 552 992 448 899 657 336 4753 28447	63.7 60.0 70.1 125.9 C 85.0 120.8 C 113.1 81.2 90.7 106.3	503 366 539 971 451 886 657 337 4710 28830	63.8 59.8 68.4 123.2 85.6 119.1 113.1 81.4 89.9 107.7	478 869 655 336 4692	66.5 59.5 66.9 119.2 90.7 116.8 112.7 81.2 89.5 109.0	524 851 645 341 4688	66.4 59.6 65.5 117.1 99.4 114.4 111.0 82.4 89.4 110.2	538 829 641 345 4673	71.1 59.0 64.3 113.2 102.1 111.4 110.3 83.3 89.1 108.1	

'A' includes additions as reflected in FY 2017 CIP for Grades K-5 'NS' New School proposed in FY 2017 Capital Budget

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Howard County Public School System

FY 2018 Superintendent's Proposed Capital Budget

1easures			
t reflects May 2	2016	Projec	:ti
mbia - East		2017	1
Elkhorn MS		643	
and Mills MS		506	
on MS Totals		1149	
mbia - West			
ers Choice MS		506	
e Lake MS	R	760	
m MC Totolo		1077	-

Supporting Data

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MIDDLE SCHOOLS - Data for Demonstrative Purposes Only Capacity Utilization Rates with Board of Education's Approved FY 2017 Capital Budget Projects - Not Test for APFO ons, Board of Education's FY 2017 approved capacities, and no redistricting. Char 2021-22 2022-23 2023-24 2017-18 2019-20 2020-21 2024-25 2025-26 2026-27 2027-28 Capacity 2018-19 2018 2019 2020 Proj % Util. Proj % Util. Proj % Util. Colun Proj % Util. 643 643 643 523 545 84.8 547 85.1 542 84.3 543 84.4 542 84.3 86.5 562 87.4 579 90.0 Lake 81.3 542 84.3 556 576 89.6 506 506 506 479 513 515 101.8 511 101.0 501 99.0 512 101.2 522 103.2 510 100.8 509 100.6 509 100.6 515 101.8 Oakla 94.7 101.4 1149 1149 1149 1002 87.2 92.1 1062 92.4 1053 91.6 1043 90.8 1055 91.8 1064 92.6 1066 92.8 1071 93.2 1085 94.4 1094 95.2 Regio 1058 Colun Harpe 506 506 506 590 116.6 C 616 121.7 C 637 125.9 C 639 126.3 C 660 130.4 C 630 124.5 C 627 123.9 C 615 121.5 C 616 121.7 C 617 121.9 C 613 121.1 C Wilde 760 760 760 608 80.0 606 79.7 649 85.4 669 88.0 700 92.1 739 97.2 755 99.3 821 108.0 877 115.4 C 922 121.3 C 950 125.0 C 1266 1266 1266 1266 1198 94.6 1286 101.6 1360 107.4 1382 109.2 1493 117.9 C 1539 121.6 C 1563 123.5 C Region MS Totals 1222 96.5 1308 103.3 1369 108.1 1436 113.4 Northeastern 116.2 C 120.8 C 757 117.7 C 121.6 C 813 125.8 C Bonnie Branch MS 662 662 662 662 769 805 121.6 C 800 114.4 737 111.3 750 113.3 779 790 119.3 C 805 122.8 C 833 Elkridge Landing MS 779 779 779 779 708 90.9 697 89.5 702 90.1 679 87.2 703 90.2 707 90.8 738 94 7 735 94.4 742 95.3 754 96.8 781 100.3 128.7 C 870 138.1 C 905 136.7 C 921 139.1 C 902 136.3 C 899 135.8 C 857 Ellicott Mills MS А 662 662 662 662 852 131.4 C 914 104.8 825 100.9 809 98.9 824 100.7 Mayfield Woods MS 798 798 798 798 742 93.0 781 97.9 855 107.1 906 113.5 948 118.8 C 963 120.7 C 969 121.4 C 995 124.7 C 978 122.6 C 989 123.9 C 974 122.1 C 0 New MS #21 NS 0 0 0 Thomas Viaduct MS 701 701 701 701 691 98.6 746 106.4 821 117.1 C 895 127.7 C 923 131.7 C 949 135.4 C 1037 147.9 C 1125 160.5 C 1210 172.6 C 1245 177.6 C 1282 182.9 C Region MS Totals 3602 4232 117.5 C 4271 118.6 C 4422 122.8 C 4502 119.8 C 4560 121.3 C 4610 122.7 C 4694 124.9 C 3602 3602 3762 104.4 3899 108.2 4092 113.6 4142 115.0 Northern Burleigh Manor MS 779 779 779 779 812 104.2 854 109.6 897 115.1 C 929 119.3 C 949 121.8 C 986 126.6 C 1025 131.6 C 1076 138.1 C 1096 140.7 C 1138 146.1 C 824 105.8 Dunloggin MS 565 565 565 662 108.5 111.7 639 113.1 98.5 101.7 674 101.8 689 104.1 672 101.5 667 100.8 98.8 А 613 631 652 673 654 675 102.0 Patapsco MS 643 643 643 643 722 112.3 711 110.6 714 111.0 727 113.1 765 119.0 C 758 **117.9 C** 762 **118.5 C** 758 **117.9 C** 778 121.0 C 793 123.3 C 799 124.3 C **Region MS** Totals 1987 1987 1987 2084 2147 108.1 2166 109.0 2207 111.1 2276 109.2 2437 116.9 C 2455 117.8 C 2521 121.0 C 2543 122.0 C 2612 125.3 C 2367 113.6 2381 114.3 Southeastern 146.7 C 895 Hammond MS 604 604 604 604 585 96.9 599 99.2 637 105.5 694 114.9 737 122.0 C 799 132.3 C 818 135.4 C 836 138.4 C 876 145.0 C 886 148.2 C 99.7 109.1 115.7 C 107.6 Murray Hill MS 662 662 662 662 660 679 102.6 722 766 756 114.2 712 712 107.6 747 112.8 752 113.6 781 118.0 C 769 116.2 C Patuxent Valley MS 760 760 760 645 84.9 727 95.7 722 95.0 746 98.2 707 93.0 744 97.9 768 101.1 782 102.9 785 103.3 107.2 760 815 851 112.0 Region MS Totals 1890 93.3 99.0 2026 2026 2026 2026 2005 2081 102.7 2206 108.9 2200 108.6 2255 111.3 2298 113.4 2365 116.7 C 2413 119.1 C 2482 122.5 C 2515 124.1 C Western Clarksville MS 643 643 643 643 561 87.2 570 88.6 608 94.6 619 96.3 575 89.4 537 83.5 508 79.0 533 82.9 537 83.5 549 85.4 544 84.6 Folly Quarter MS 662 662 662 662 660 99.7 643 97.1 668 100.9 667 100.8 668 100.9 662 100.0 670 101.2 688 103.9 686 103.6 684 103.3 668 100.9 Glenwood MS 545 545 545 545 564 103.5 564 103.5 594 109.0 602 110.5 593 108.8 560 102.8 565 103.7 575 105.5 605 111.0 606 111.2 608 111.6 127.2 C 899 Lime Kiln MS 701 701 701 701 740 105.6 744 106.1 799 114.0 801 114.3 830 118.4 C 838 119.5 C 854 121.8 C 864 123.3 C 892 128.2 C 892 127.2 C Mount View MS 798 798 798 798 791 99.1 821 102.9 837 104.9 829 103.9 866 108.5 912 114.3 958 120.1 C 996 124.8 C 1004 125.8 C 1039 130.2 C 1036 129.8 C Region MS Totals 3349 3349 3349 3349 3316 99.0 3342 99.8 3506 104.7 3518 105.0 3532 105.5 3509 104.8 3555 106.2 3656 109.2 3724 111.2 3777 112.8 3748 111.9 13379 13379 13379 13476 13315 99.5 13692 102.3 14234 106.4 15158 112.5 Countywide Totals 14503 107.6 14734 109.3 14840 110.1 15480 113.6 15782 115.8 16036 117.6 16226 119.0

'A' includes additions as reflected in FY 2017 CIP for Grades 6-8

'R' = Replacement school scheduled to open August 2017

'NS' New School proposed in FY 2017 Capital Budget

Columbia Capacity Ulliation Proved Suppose FY 2017 Capacity 2025-26 2025-26 2026-27 2 Columbia East 2017 2018 2019-20 2020-21 2021-22 2022-23 2023-24 2024-25 2025-26 2026-27 2 Columbia East 2017 2018 Proj % Uili Proj <th< th=""><th colspan="15">re-Measures HIGH SCHOOLS - Data for Demonstrative Purposes Only</th><th></th></th<>	re-Measures HIGH SCHOOLS - Data for Demonstrative Purposes Only																										
Copyrety 2017-18 2018-19 2018-19 2020-21 2021-22 2022-23 2022-23 2022-23 2022-23 2022-23 2024-25 2025-26 <					Ca	pacity	/ Utilizat													Not Tes	st for Al	PFO					
Columbia - East Dakand Mills HS 2017 2018 2019 2020 Proj 1400 % Uiii. 1124 Proj 8.0.3 % Uiii. 1174 Proj 8.4.2 % Uiii. 1174 Proj 8.4.2 % Uiii. 1238 Proj 8.4.1 % Uiii. 1258 Proj 9.1.1 % Uiii. 1258 Proj 9.1.1 % Uiii. 1258 Proj 9.1.1 % Uiii. 1280 Proj 9.1.4 % Uiii. 1280 % Uiii. 1280 Proj 9.1.4 <th< th=""><th>cts May 2016 P</th><th>Projec</th><th>ctions, E</th><th>Board c</th><th>of Educa</th><th>ation's f</th><th>FY 2017 a</th><th>pproved</th><th>d capac</th><th>ities, and</th><th>l no red</th><th>istricting</th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th></th<>	cts May 2016 P	Projec	ctions, E	Board c	of Educa	ation's f	FY 2017 a	pproved	d capac	ities, and	l no red	istricting															
Ocakiand Millis HS 1400 1420 1	Capacity							20	2018-19 201			9-20 2020-21		2021-22		202	2022-23		2023-24		24-25	2025-26		2026-27		2027-28	
Columbia - West Milde Lake HS 1424 1420	- East 2	2017	2018	2019	2020	Proj	% Util.	Proj	% Util.	Proj	% Util.	Proj	% Util.	Proj	% Util.	Proj	% Util.	Proj	% Util.	Proj	% Util.	Proj	% Util.	Proj	% Util.	Proj	% Util.
Wilde Lake HS 1424 1420 1420 1420 1420 1420 1420 1424 1436 189.9 2075 146.1 2125 149.6 2157 151.9 217.6 153.2 217.8 153.4 2162 152.3 2164 152.4 2183 182.3 281 Nor Gegion HS Totals 2008 2008 2008 2008 2008 2008 2008 126.4 127.4 1419 144.3 4358 149.9 450.4 154.9 4614 102.0 470.2 104.0 4808 108.3 203 503 Norther Mariotits Ridge HS 1615 1615 1615 <	Aills HS 1	1400	1400	1400	1400	1160	82.9	1124	80.3	1174	83.9	1179	84.2	1238	88.4	1275	91.1	1258	89.9	1276	91.1	1280	91.4	1272	90.9	1284	91.7
Wilde Lake HS 1424 </td <td>- West</td> <td></td>	- West																										
Howard HS 1420 125.5 186.7 125.5 1969 132.3 2070 139.1 2107 151.9 2176 153.2 2178 153.4 2162 152.3 2164 152.4 2185 153.9 221 New HS #13 NS 0		1424	1424	1424	1424	1327	93.2	1382	97.1	1419	99.6	1480	103.9	1498	105.2	1574	110.5	1617	113.6	1648	115.7	1675	117.6	1665	116.9	1696	119.1
Howard HS 1420 125.5 186.7 125.5 1969 132.3 2070 133.1 2070 133.1 2070 133.1 2070 141.9 232.8 156.5 243.6 163.7 2162 152.3 2164 152.4 2183 153.9 221 147.9 232.8 156.5 243.6 163.7 2540 170.7 2644 177.7 271.8 182.3 201 139.1 149.9 4504 154.9 4614 102.0 4702 104.0 4808 106.3 4898 108.3 503 Vorther Marrints Ridge HS 1615 1615 1615 1615 1615 1615 1254 77.6 1293 80.1 1327 <td></td>																											
Nom Reach HS 1488 1615 1615 1615 1615 1615 1615 1615 1615 1615 1615 1615 1254 77.6 1293 80.1 1327 82.2 1379 85.4 1408 <td></td> <td>1 4 2 0</td> <td>1400</td> <td>1400</td> <td>1400</td> <td>1044</td> <td>10/ 0</td> <td>100/</td> <td>100.0</td> <td>2075</td> <td>14/ 1</td> <td>0105</td> <td>140 (</td> <td>0157</td> <td>151.0</td> <td>017/</td> <td>152.0</td> <td>0170</td> <td>150.4</td> <td>01/0</td> <td>150.0</td> <td>01/4</td> <td>150.4</td> <td>0105</td> <td>152.0</td> <td>2015</td> <td>154.0</td>		1 4 2 0	1400	1400	1400	1044	10/ 0	100/	100.0	2075	14/ 1	0105	140 (0157	151.0	017/	152.0	0170	150.4	01/0	150.0	01/4	150.4	0105	152.0	2015	154.0
New HS #13 NS 0 <th< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>156.0</td></th<>																											156.0
egion HS Totals 2908 1615 1615 1615 1615 1615 1615 1184 1696 121.1 1738 124.1 1765 126.1 1783 127.4 1816 129.7 1831 130.8 1867 133.4 1887 134.8 1903						1/24	115.9	1807	125.5	1909	132.3	2070	139.1	2201	147.9	2328	156.5	2430	163.7	2540	170.7	2644	177.7	2/13	182.3	2819	189.4
Jorthern Aarriotts Ridge HS 1615 1615 1615 1615 1615 1254 77.6 1293 80.1 1327 82.2 1379 85.4 1408 87.2 1464 90.7 1484 91.9 1532 94.9 1588 98.3 1617 100.1 168 Marriotts Ridge HS 1400 1400 1400 1400 16057 118.4 1696 121.1 1738 124.1 1765 126.1 1783 127.4 1816 129.7 1831 130.8 1867 133.4 1887 134.8 1903 135.9 190 tegion HS Totals 4375 4375 4375 4375 4497 102.8 4610 105.4 4726 108.0 4853 110.9 4913 112.3 5043 115.3 5125 117.1 5259 120.2 5357 122.4 5447 124.5 555 outheastern Iammond HS 1220 1220 1220 1233 109.3 1387 113.7 1461 119.8 1483 121.6 <td< td=""><td>-</td><td>-</td><td>0</td><td>0</td><td><u>ب</u></td><td>0440</td><td>404.4</td><td>0050</td><td>400 5</td><td>10.1.1</td><td>100.4</td><td>1405</td><td>444.0</td><td>4050</td><td>1 10 0</td><td>4504</td><td>454.0</td><td>4/44</td><td>100.0</td><td>4700</td><td>1010</td><td>1000</td><td>10/ 0</td><td>4000</td><td>100.0</td><td>5004</td><td>444.0</td></td<>	-	-	0	0	<u>ب</u>	0440	404.4	0050	400 5	10.1.1	100.4	1405	444.0	4050	1 10 0	4504	454.0	4/44	100.0	4700	1010	1000	10/ 0	4000	100.0	5004	444.0
Marriotts Ridge HS 1615 1615 1615 1615 1615 1615 1254 77.6 1293 80.1 1327 82.2 1379 85.4 1408 87.2 1464 90.7 1484 91.9 1532 94.9 1588 98.3 1617 100.1 168 Mt Hebron HS 1400 1400 1400 1400 1400 1400 1400 140	lotals 2	2908	2908	2908	2908	3668	126.1	3853	132.5	4044	139.1	4195	144.3	4358	149.9	4504	154.9	4614	102.0	4702	104.0	4808	106.3	4898	108.3	5034	111.3
Vit Hebron HS 1400 </td <td></td>																											
tegion HS Totals 4375 4375 4375 4375 4497 102.8 4610 105.4 4726 108.0 4853 110.9 4913 112.3 5043 115.3 5125 117.1 5259 120.2 5357 122.4 5447 124.5 555 ioutheastem laammond HS 1220 1220 1220 1220 1233 109.3 1387 113.7 1461 119.8 1483 121.6 1561 128.0 1645 134.8 1689 138.4 1787 146.5 1835 150.4 1881 154.2 194 Vestern tholton HS 1360 1360 1360 1360 1434 105.4 1466 107.8 1467 107.9 1514 111.3 1556 114.4 1601 117.7 1669 122.7 1683 123.8 1706 125.4 1706 125.4 1706 125.4 1706 125.4 1706 125.4 1705 123.8 1200 1434 105.4 1466 107.8 1467 107.9 1514 111.3 1	0																									1687	104.5
Southeastem Hammond HS 1220 1230 126 128.0 1645 134.8 1689 138.4 1787 146.5 1835 150.4 1881 154.2 194 Western 1360 1360 1360 1360 1360 125.4 1706 125.4 175 Gleneig HS 1420 1420 1420 1420 1420 1420 1313 92.5 1325																										1906	136.1
Hammond HS 1220 1220 1220 1220 1220 1220 1220 1220 1220 1233 109.3 1387 113.7 1461 119.8 1483 121.6 1561 128.0 1645 134.8 1689 138.4 1787 146.5 1835 150.4 1881 154.2 194 Western Atholiton HS 1360 1360 1360 1360 1360 1360 1434 105.4 1466 107.8 1467 107.9 1514 111.3 1556 114.4 1601 117.7 1669 122.7 1683 123.8 1706 125.4 1706 125.4 175 Glenelg HS 1420 1420 1420 1420 1420 1420 1238 83.2 1255 84.3 1256 88.5 1301 91.6 1289 90.8 1313 92.5 1325 93.3 1303 91.8 1316 92.7 1355 River Hill HS 1488 1488 1488 1288 83.2 1255 84.3 1280	Totals 4	4375	4375	4375	4375	4497	102.8	4610	105.4	4726	108.0	4853	110.9	4913	112.3	5043	115.3	5125	117.1	5259	120.2	5357	122.4	5447	124.5	5551	126.9
Vestern Atholiton HS 1360 1360 1360 1360 1360 1434 105.4 1466 107.8 1467 107.9 1514 111.3 1556 114.4 1601 117.7 1669 122.7 1683 123.8 1706 125.4 1705 125.4 1755 Slenelg HS 1420 1420 1420 1420 1420 1420 1420 1420 1420 125.4 1706 125.4 1755 Slenelg HS 1488 1488 1488 1488 1238 83.2 1255 84.3 1256 88.5 1301 91.6 1289 90.8 1313 92.5 1325 93.3 1303 91.8 1316 92.7 135 River Hill HS 1488 1488 1488 1238 83.2 1255 84.3 1280 86.0 1287 86.5 1292 86.8 1320 88.7 1297 87.2 1283 86.2 1258 84.5	ern																										
Atholton HS 1360 1360 1360 1360 1360 1360 1360 1360 1360 1360 1360 1434 105.4 1466 107.8 1467 107.9 1514 111.3 1556 114.4 1601 117.7 1669 122.7 1683 123.8 1706 125.4 1706 125.4 1705 111.3 1256 88.5 1301 91.6 1289 90.8 1313 92.5 1325 93.3 1303 91.8 1316 92.7 1358 River Hill HS 1488 1488 1488 1488 <td>IHS 1</td> <td>1220</td> <td>1220</td> <td>1220</td> <td>1220</td> <td>1333</td> <td>109.3</td> <td>1387</td> <td>113.7</td> <td>1461</td> <td>119.8</td> <td>1483</td> <td>121.6</td> <td>1561</td> <td>128.0</td> <td>1645</td> <td>134.8</td> <td>1689</td> <td>138.4</td> <td>1787</td> <td>146.5</td> <td>1835</td> <td>150.4</td> <td>1881</td> <td>154.2</td> <td>1945</td> <td>159.4</td>	IHS 1	1220	1220	1220	1220	1333	109.3	1387	113.7	1461	119.8	1483	121.6	1561	128.0	1645	134.8	1689	138.4	1787	146.5	1835	150.4	1881	154.2	1945	159.4
Atholiton HS 1360 1360 1360 1360 1360 1360 1434 105.4 1466 107.8 1467 107.9 1514 111.3 1556 114.4 1601 117.7 1669 122.7 1683 123.8 1706 125.4 1706 125.4 1705 125.4 1705 124.1 11.3 1556 114.4 1601 117.7 1669 122.7 1683 123.8 1706 125.4 1706 125.4 1705 125.4 1705 124.1 11.3 1556 114.4 1601 117.7 1669 122.7 1683 123.8 1706 125.4 1706 125.4 1705 125.1 110.2 110.2 110.2 100.2 110.2 100.2 110.2 100.2 100.2 110.2 110.2 110.2 110.2 110.2 110.2 120.2<																											
Silenelg HS 1420 123 82.6 1241 87.4 1249 88.0 1256 88.5 1301 91.6 1289 90.8 1313 92.5 1325 93.3 1303 91.8 1316 92.7 135 tiver Hill HS 1488 1488 1488 1488 1238 83.2 1255 84.3 1260 86.0 1287 86.5 1292 86.8 1320 88.7 1297 87.2 1283 86.2 1258 84.5 126	S 1	1360	1360	1360	1360	1434	105.4	1466	107.8	1467	107.9	1514	111.3	1556	114 4	1601	117 7	1669	122.7	1683	123.8	1706	125.4	1706	125.4	1750	128.7
iver Hill HS 1488 1488 1488 1488 1238 83.2 1255 84.3 1255 84.3 1280 86.0 1287 86.5 1292 86.8 1320 88.7 1297 87.2 1283 86.2 1258 84.5 126																										1350	95.1
																										1260	84.7
																										6379	109.6
Countywide Totals 17146 17146 17146 17146 17146 17146 17146 101.3 17948 104.7 18484 107.8 18999 110.8 19525 113.9 20098 117.2 20515 109.3 20921 111.5 21217 113.1 21426 114.2 2188																										21889	116.7
Sound wide toolars (1) 46 (1) 46 (1) 46 (1) 46 (1) 47 (1) 46 (1) 47 (1) 46 (1) 47 (1) 46 (1) 47 (1) 46 (1) 47 (1)							101.5	17740	104.7	10404	107.0	10777	110.0	17525	113.7	20070	117.2	20010	107.3	20721	111.5	21217	113.1	21420	114.2	21007	110.7

Cardinal Level Voy 2017 2002-20 2002-21	Post-Measures								ELEME	NTA	RY SC	HOC	DLS - D	ata	for De	emor	nstrativ	ve Pi	urpose	s Oi	nly						
Constraint PA Constrai	Aggregate Plan	6 Projec	tions R	loard c	of Educ	ation's	EV 2018 E								2018 C	apital	Budget	Projec	cts - Not	Test f	or APFO						
Candenceks B. 998 988 988 988 988 988 988 988 988 98	Chartrenects may 2010		Capa	acity	JI LUUC		17-18			20	19-20				21-22	20	22-23			20	24-25	20	25-26				
Begin Torba 270 270 270	Cradlerock ES Jeffers Hill ES Phelps Luck ES Stevens Forest ES Talbott Springs ES	398 421 616 399 377	398 421 616 399 377	398 421 616 399 377	398 421 616 399 377	440 451 565 422 450	110.6 107.1 91.7 105.8 119.4 C	449 448 553 409 446	112.8 106.4 89.8 102.5 118.3 C	434 442 565 401 457	109.0 105.0 91.7 100.5 121.2 C	442 440 588 413 457	111.1 104.5 95.5 103.5 121.2 C	442 439 608 412 453	111.1 104.3 98.7 103.3 120.2	439 437 624 415 449	110.3 103.8 101.3 104.0 119.1 C	440 439 632 416 453	110.6 104.3 102.6 104.3 120.2 C	455 441 636 415 466	114.3 104.8 103.2 104.0 123.6 C	468 450 643 423 462	117.6 C 106.9 104.4 106.0 122.5 C	465 455 655 428 469	116.8 108.1 106.3 107.3 124.4	C 463 462 666 433 C 476	116.3 C 109.7 108.1 108.5 126.3 C
Common Vest Vest <th< td=""><td>Thunder Hill ES Region Totals</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></th<>	Thunder Hill ES Region Totals																										
Symmet Work Start	Region Totals	2720	2720	2720	2720	2921	107.0	2093	100.4	2000	100.1	2911	107.0	2920	107.0	2920	107.0	2941	100.1	2900	109.7	3023	111.1	3037	112.4	3094	113.0
Swamshord (15 A E2) 621 621 621 621 621 61 1173 C 722 1163 C 710 1143 712 1147 701 1129 714 1150 C 717 1155 C 722 1163 C 732 1170 C 742 1190 C 744 1110 110 110 C 75 81 110 110 110 110 110 110 110 110 110	Columbia - West Bryant Woods ES Clemens Crossing ES Longfellow ES New ES #44 NS	521 512	521 512	521 512	521 512	526	101.0	569	109.2	608	116.7 C	653	125.3 C	685	131.5 (730	140.1 C	764	146.6 C	795	152.6 C	823	158.0 C	847	162.6	C 869	166.8 C
Bellow Spring ES 75 751 751 751 750 750 751 750 751 750 751 750 751 750 750 750 750 750 750 750 750 750 750 750 750 750 750 750 750	Running Brook ES Swansfield ES A Region Totals	521	621	621	621	611	117.3 C	722	116.3 C	710	114.3	712	114.7	701	112.9	714	115.0	718	115.6 C	717	115.5 C	722	116.3 C	732	117.9	C 742	119.5 C
Bellow Spring ES 75 751 751 751 750 750 751 750 751 750 751 750 751 750 750 750 750 750 750 750 750 750 750 750 750 750 750 750 750	Northoastorn																										
Velterans E5 • 621 621 821	Bellows Spring ES Deep Run ES Ducketts Lane ES Elkridge ES Ilchester ES New ES #42 NS	772 770 760 653 0	772 770 760 653 788	772 770 760 653 788	772 770 760 653 788	831 940 817 625	107.6 122.1 C 107.5 95.7	868 611 837 598 612	112.4 79.4 110.1 91.6 77.7	876 640 834 584 671	113.5 83.1 109.7 89.4 85.2	872 659 843 595 731	113.0 85.6 110.9 91.1 92.8	880 686 828 660 811	114.0 89.1 108.9 101.1 102.9	866 706 810 687 894	112.2 91.7 106.6 105.2 113.5	877 706 812 717 946	113.6 91.7 106.8 109.8 120.1 C	878 714 823 724 1014	113.7 92.7 108.3 110.9 128.7 C	881 718 877 722 1049	114.1 93.2 115.4 C 110.6 133.1 C	892 734 882 707 1108	115.5 95.3 116.1 108.3 140.6	 910 735 907 681 1172 	117.9 C 95.5 119.3 C 104.3 148.7 C
Region Totals 6433 7221 7221 7221 7221 723 10.0 734 10.1 7448 10.3.1 758 10.5. 778 10.7. 7480 10.3.1 758 10.5. 778 10.7. 780 10.8.7 Centennial Lane ES 647 648 10.6 768 11.0 688 11.0 688 11.0 688 11.0 688 11.0 688 11.0 688 11.0 688 11.0 688 11.0 688 11.0 688 11.0 688 11.0 688 11.0 688 11.0 688 11.0 11.0 11.0 11.0 11.0 1	Veterans ES * Waterloo ES	821 663	821 663	821 663	821 663	881 591	107.3 89.1	898 597	109.4 90.0	913 560	111.2 84.5	937 572	114.1 86.3	916 554	111.6 83.6	912 554	111.1 83.6	900 554	109.6 83.6	906 551	110.4 83.1	887 565	108.0 85.2	881 572	107.3 86.3	913 579	111.2 87.3
Centemial Lane ES 647 647 647 647 773 119 5 C 772 119 3 C 800 123 6 C 766 121 5 C 785 121 3 C 799 125 C 786 121 5 C 786 122 5 C 876 128 6 C 896 131 6 C 898 130 C 8 89 125 C 980 130 8 C 808 130 C 8 89 125 C 980 130 8 C 808 130 C 8 89 125 C 980 130 C 8 10 123 6 C 898 130 C 8 10 123 6 C 898 130 C 8 10 123 C 8 10 11 10 1 C 8 11 10 10 10 10 10 10 10 10 10 10 10 10	Region Totals	6433	7221	7221	7221	6593	102.5	6810	94.3	6880	95.3	7066	97.9	7223	100.0	7342	101.7	7448	103.1	7582	105.0	7690	106.5	7758	107.4	7850	108.7
Northfield ES 700	Northern Centennial Lane ES Hollifield Station ES Manor Woods ES New ES #45 NS	694 681	694 681	694 681	694 681	768	110.7	789	113.7	805	116.0 C	823	118.6 C	825	118.9 (833	120.0 C	818	117.9 C	831	119.7 C	833	120.0 C	869	125.2	C 908	130.8 C
Atholiton ES 424	Northfield ES St Johns Lane ES Waverly ES A Region Totals	612 638	612 738	612 738	612 738	709 672	115.8 C 105.3	736 719	120.3 C 97.4	733 693	119.8 C 93.9	721 688	117.8 C 93.2	722 667	118.0 (90.4	7 37 660	120.4 C 89.4	747 661	122.1 C 89.6	739 657	120.8 C 89.0	754 684	123.2 C 92.7	787 701	128.6 95.0	C 809 708	132.2 C 95.9
Region Totals 4296 418.5 5041 99.2 5127 100.8 5198 102.2 5266 103.6 597 718 76.7 69.6 75.7 73.0 641 81.3 719 91.2 794 100.8 849 107.7 890 112.9 932 118.8 C 931 118.1 C 937	Southeastern Atholton ES Bollman Bridge ES Forest Ridge ES * Gorman Crossing ES * Guilford ES Hammond ES Laurel Woods ES New ES #43 NS	666 713 735 465 653 640	666 713 735 465 653 640	666 713 735 465 653 640	666 713 735 465 653 640	706 798 705 473 667	106.0 111.9 95.9 101.7 102.1	725 736 750 472 675	108.9 103.2 102.0 101.5 103.4	730 791 734 480 679	109.6 110.9 99.9 103.2 104.0	739 847 780 471 704	111.0 118.8 C 106.1 101.3 107.8	753 872 797 476 749	113.1 122.3 108.4 102.4 114.7	781 914 807 470 815	117.3 C 128.2 C 109.8 101.1 124.8 C	805 961 795 530 844	120.9 C 134.8 C 108.2 114.0 129.2 C	819 990 774 542 876	123.0 C 138.8 C 105.3 116.6 C 134.2 C	827 1003 778 542 918	124.2 C 140.7 C 105.9 116.6 C 140.6 C	829 1021 796 537 929	124.5 143.2 108.3 115.5 142.3	 840 1013 786 537 948 	126.1 C 142.1 C 106.9 115.5 C 145.2 C
Bushy Park ES 788	Region Totals	4296	4296	4296	4296	4354	101.4	4411	102.7	4476	104.2	4614	107.4	4726	110.0	4876	113.5	5041	99.2	5127	100.8	5198	102.2	5266	103.6	5298	104.2
Countywide Totals 25093 26081 26081 26081 26081 25381 101.1 25973 99.6 26341 101.0 26954 103.3 27487 105.4 27996 107.3 28447 105.9 28830 107.3 29175 108.6 29492 109.8 29788 107.7	Western Bushy Park ES Clarksville ES Dayton Oaks ES Fulton ES Lisbon ES Pointers Run ES Triadelphia Ridge ES West Friendship ES Dagien Ctark	612 788 788 527 744 581 414	612 788 788 527 744 581 414	612 788 788 527 744 581 414	612 788 788 527 744 581 414	418 597 853 448 719 558 313	68.3 75.8 108.2 85.0 96.6 96.0 75.6	392 776 883 475 766 564 441	64.1 98.5 112.1 90.1 103.0 97.1 106.5	378 761 947 472 793 580 436	61.8 96.6 120.2 C 89.6 106.6 99.8 105.3	364 755 982 461 827 618 436	59.5 95.8 124.6 C 87.5 111.2 106.4 105.3	374 744 1013 450 882 627 433	61.1 94.4 128.6 85.4 118.5 107.9 104.6	368 726 1004 456 887 632 471	60.1 92.1 127.4 C 86.5 119.2 C 108.8 113.8	367 711 992 448 899 643 499	60.0 90.2 125.9 C 85.0 120.8 C 110.7 120.5 C	366 702 971 451 886 642 510	59.8 89.1 123.2 C 85.6 119.1 C 110.5 123.2 C	364 691 939 478 869 642 513	59.5 87.7 119.2 90.7 116.8 110.5 123.9	365 679 923 524 851 634 517	59.6 86.2 117.1 99.4 114.4 109.1 124.9	361 680 892 538 829 626 529	59.0 86.3 113.2 102.1 111.4 107.7 127.8 C
	Countywide Totals	25093	26081	26081	26081	25381	101.1																				

NS New School proposed in FY 2018 Capital Budget * Capacity includes reclaimed classroom space from repurposing community rooms.

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Post-Measures									Ν	/IDDL	E SCH	OOL	S - Da	ita fo	r Dem	onstr	ative F	Purpo	oses O	nly							
Aggregate Plan								Ca	pacity	Utilizat	ion Rate	s with	Propos	ed FY	2018 Ca	apital P	Budget F	Proiect	s - Not Te	est foi	APFO						
Chart reflects May 20	16 Project	ions. B	oard	l of Ed	lucatio	n's FY :	2018 Rec																				
			apad)17-18		18-19)19-20		20-21	20	21-22	20	022-23	20	23-24	20	24-25	20	25-26	20	26-27	20	27-28
Columbia - East	201		18 2	-	2020		% Util.		% Util.		% Util.		% Util.	Proj	% Util.	Proj	% Util.	Proj	% Util.	Proj	% Util.		% Util.		% Util.		% Util.
Lake Elkhorn MS	65	B 65	8	658	658	523	79.5	672	102.1	679	103.2	674	102.4	675	102.6	679	103.2	678	103.0	693	105.3	697	105.9	712	108.2	710	107.9
Oakland Mills MS	51	9 51	9	519	519	479	92.3	630	121.4	C 641	123.5 C	647	124.7	C 639	123.1	653	125.8 C	663	127.7 C	647	124.7 C	644	124.1 C	641	123.5 (650	125.2 C
Region MS Totals	117	7 11	77 1	1177	1177	1002	85.1	1302	110.6	1320	112.1	1321	112.2	1314	111.6	1332	113.2	1341	113.9	1340	113.8	1341	113.9	1353	115.0	1360	115.5 C
Columbia - West																											
Harpers Choice MS	51	9 51		519	519	590	113.7	616		C 637	122.7 C	639		C 660	127.2		121.4 C		120.8 C		118.5 C	616	118.7 C	617	118.9	C 613	118.1 C
Wilde Lake MS	R 77	B 77	8	778	778	608	78.1	606	77.9	649	83.4	669	86.0	700	90.0	739	95.0	755	97.0	821	105.5	877	112.7	922	118.5 (122.1 C
Region MS Totals	129	7 12	97 1	1297	1297	1198	92.4	1222	94.2	1286	99.2	1308	100.8	1360	104.9	1369	105.6	1382	106.6	1436	110.7	1493	115.1 C	1539	118.7 (1 563	120.5 C
Northeastern																											
Bonnie Branch MS	67			678	678	769	113.4	751	110.8	745	109.9	705	104.0	684	100.9	697	102.8	725	106.9	735	108.4	749	110.5	756	111.5	774	114.2
Elkridge Landing MS	79			798	798	708	88.7	766	96.0	775	97.1	754	94.5	779	97.6	784	98.2	817	102.4	816	102.3	823	103.1	838	105.0	867	108.6
Ellicott Mills MS	A* 71			718	718	852	118.7		96.7	725	101.0	713	99.3	727	101.3	712	99.2	709	98.7	675	76.9	652	74.3	640	72.9	653	74.4
Mayfield Woods MS	81			818	818	742	90.7	780	95.4	860	105.1	914	111.7	965	118.0 (120.0 C		122.6 C		127.5 C						127.6 C
Thomas Viaduct MS	71			718	718	691	96.2	643	89.6	704	98.1	769	107.1	787	109.6	808	112.5	880	122.6 C		132.6 C				147.1 (
Region MS Totals	373	0 37	30 3	3730	3730	3762	100.9	3634	97.4	3809	102.1	3855	103.4	3942	105.7	3983	106.8	4134	110.8	4221	108.5	4289	110.3	4343	111.6	4428	113.8
Northern	70			700	700	010	404.0	00.4	100.0	05.4	407.0	0.07		000						4005	100.1			100/	407.0		
Burleigh Manor MS	79			798	798	812	101.8	824	103.3	854	107.0	897	112.4	929	116.4		118.9 C		123.6 C						137.3 (142.6 C
Dunloggin MS	A 57			579 658	579 658	613 722	105.9	697		C 712	123.0 C		125.2		129.2 (110.0	762 699	112.4	743 697	109.6	734	108.3	719	106.0 110.9	741	109.3
Patapsco MS Region MS Totals	65 203				2035	2147	109.7 105.5	648 2169	98.5 106.6	652 2218	99.1 109.0	666 2288	101.2	701 2378	106.5 116.9 (694	105.5 111.9	2447	106.2	2465	105.9 115.5 C	716	108.8 118.4 C		119.3	735	111.7 122.5 C
Region wis rolais	203	0 20	50 Z	2030	2035	2147	105.5	2109	100.0	2210	109.0	2200	112.4	2370	110.9	2309	111.9	2447	114.7	2405	110.0 C	, 2020	110.4 C	2040	119.5	2014	122.5 C
Southeastern																											
Hammond MS	61	8 61	8	618	618	585	94.7	554	89.6	589	95.3	640	103.6	681	110.2	738	119.4 C	756	122.3 C	772	124.9 C	810	131.1 C	820	132.7 (829	134.1 C
Murray Hill MS	67			678	678	660	97.3	644	95.0	685	101.0	728	107.4	719	106.0	677	99.9	678	100.0	711	104.9	716	105.6	744	109.7	732	108.0
Patuxent Valley MS	77			778	778	645	82.9	762	97.9	759	97.6	784	100.8	744	95.6	779	100.1	802	103.1	818	105.1	821	105.5		109.5	888	114.1
Region MS Totals	207				2074	1890	91.1	1960	94.5	2033	98.0	2152		2144		2194	105.8	2236	107.8	2301	110.9		113.2	2416			
, , , , , , , , , , , , , , , , , , ,																											
Western																											
Clarksville MS	65	8 65	8	658	658	561	85.3	538	81.8	574	87.2	585	88.9	543	82.5	508	77.2	480	72.9	504	76.6	508	77.2	520	79.0	516	78.4
Folly Quarter MS	67			678	678	660	97.3	643	94.8	668	98.5	667	98.4	668	98.5	662	97.6	670	98.8	688	101.5	686	101.2	684	100.9	668	98.5
Glenwood MS	55	9 55	9	559	559	564	100.9	564	100.9	594	106.3	602	107.7	593	106.1	560	100.2	565	101.1	575	102.9	605	108.2	606	108.4	608	108.8
Lime Kiln MS	71	B 71	8	718	718	740	103.1	744	103.6	799	111.3	801	111.6	830	115.6	838	116.7 C	854	118.9 C	864	120.3 C	892	124.2 C	899	125.2	892	124.2 C
Mount View MS	81			818	818	791	96.7	916	112.0	933	114.1	924	113.0	962	117.6		122.9 C	1049	128.2 C		132.8 C						
Region MS Totals	343					3316	96.6	3405	99.2	3568		3579		3596		3573	104.1	3618	105.5		108.3		110.3		111.9	3812	
Countywide Totals	137	44 137	44 1	3744	13744	13315	96.9	13692	99.6	14234	103.6	14503	105.5	14734	107.2	14840	107.2	15158	109.5	15480	110.5	15782	112.7	16036	114.5	16226	115.9
'A' includes additions																											

"A' includes additions as reflected in FY 2018 CIP for Grades 6-8 "R" = Replacement school scheduled to open August 2017 "NS" = New middle school

 * Capacity includes reclaimed classroom space from repurposing community rooms.

Post-Measures									HGH	SCHO	DOLS -	Data	for [Demo	onstra	tive	Purposes	Only							
Aggregate Plan							Co										t Projects - 1		for ADE						
Chart reflects May 2	016 Proi	octions	Roard		Ication	- EV 201								2010 C	apitari	buuye		IOI IESI	IUI AFI	0					
chart reliects may 2	010110j		acity			17-18		18-19		19-20	2020-		<u></u>	1-22	202	2-23	2023-24	2	024-25	20	25-26	202	6-27	201	27-28
Columbia - East	2017			2020		% Util.		% Util.		% Util.	Proj %			% Util.	Proj		Proj % Util	Proj			% Util.	Proj			% Util.
Oakland Mills HS	1400			1400	1160	82.9	1124		1174	83.9		34.2		88.4	1275	91.1	1258 89.9	1276		1280	91.4	1272		1284	
Columbia - West																									
Wilde Lake HS	1424	1424	1424	1424	1327	93.2	1382	97.1	1419	99.6	1480 10	03.9	1498	105.2	1574	110.5	1617 113.6	1648	115.7	1675	117.6	1665	116.9	1696	119.1
Northeastern																									
Howard HS	1420	1420	1420	1420	1944	136.9	1986	139.9	2075	146.1	2125 14	49.6	2157	151.9	2176	153.2	2178 153.4	2162	152.3	2164	152.4	2185	153.9	2215	156.0
Long Reach HS	1488	1488	1488	1488	1724	115. 9	1867	125.5	1969	132.3	2070 1	39.1	2201	147.9	2328	156.5	2436 163.	2540	170.7	2644	177.7	2713	182.3	2819	189.4
New HS #13	⁴⁵ 0	0	0	0																					
Region HS Totals	2908	2908	2908	2908	3668	126.1	3853	132.5	4044	139.1	4195 14	44.3	4358	149.9	4504	154.9	4614 102.0	4702	104.0	4808	106.3	4898	108.3	5034	111.3
Northern																									
Centennial HS	1360	1360	1360	1360	1586	116.6	1621	119.2	1661	122.1	1709 1	25.7	1722	126.6	1763	129.6	1810 133.1	1860	136.8	1882	138.4	1927	141.7	1958	144.0
Marriotts Ridge HS	1615	1615	1615	1615	1254	77.6	1293	80.1	1327	82.2	1379 8	85.4	1408	87.2	1464	90.7	1484 91.9	1532	94.9	1588	98.3	1617	100.1	1687	104.5
Mt Hebron HS	1400	1400	1400	1400	1657	118.4	1696	121.1	1738	124.1	1765 1	26.1	1783	127.4	1816	129.7	1831 130.8	1867	133.4	1887	134.8	1903	135.9	1906	136.1
Region HS Totals	4375	4375	4375	4375	4497	102.8	4610	105.4	4726	108.0	4853 1	10.9	4913	112.3	5043	115.3	5125 117.1	5259	120.2	5357	122.4	5447	124.5	5551	126.9
Southeastern																									
Hammond HS	1220	1220	1220	1220	1333	109.3	1387	113.7	1461	119.8	1483 1	21.6	1561	128.0	1645	134.8	1689 138 .4	1787	146.5	1835	150.4	1881	154.2	1945	159.4
Western																									
Atholton HS	1460	1460	1460	1460	1434	98.2	1466	100.4	1467	100.5				106.6		109.7	1669 114.3	1683		1706	116.8		116.8	1750	119.9
Glenelg HS	1420		1420	1420	1173	82.6	1241	87.4	1249	88.0				91.6	1289	90.8	1313 92.5	1325		1303	91.8	1316	92.7	1350	95.1
Reservoir HS	1551	1551	1551	1551	1536	99.0	1630	105.1	1689	108.9				116.9		120.9	1910 123.1	1944		1970	127.0		127.9	2019	130.2
River Hill HS	1488		1488	1488	1238	83.2	1255	84.3	1255	84.3				86.5	1292	86.8	1320 88.7	1297		1283	86.2	1258	84.5	1260	84.7
Region HS Totals	5919	5919	5919	5919	5381	90.9	5592	94.5	5660	95.6	5809 9	98.1	5957	100.6		102.3	6212 105.0	6249	105.6	6262	105.8	6263	105.8	6379	107.8
Countywide Totals	17246	17246	17246	17246	17366	100.7	17948	104.1	18484	107.2	18999 1	10.2 *	19525	113.2	20098	116.5	20515 108.8	2092	1 110.9	21217	112.5	21426	113.6	21889	116.1

FY 2018 Superintendent's Proposed Capital Budget

ı.

PUBLIC SCHOOL ENROLLMENT ACTUAL FOR 1973-2015 AND ESTIMATED FOR 2016-2027

		Elementary	K-5	Middle	6-8	High	9-12	Sp. Ed. School	Sp Ed.	K-12	
	<u>Year</u>	Enrollment	Change	<u>EnrollmentC</u>	hange	Enrollment(<u>Change</u>	<u>Enrollment</u>	Change	Enrollment(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
А	1978	10,968	-278	6,080	-95	8,488	531	70	8	25,606	166
ĉ	1979	10,627	-341	6,163	83	8,530	42	80	10	25,400	-206
Ť	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
Е	1985	10,439	631	5,496	-101	8,900	177	143	19	24,978	726
N	1986	11,135	696	5,551	55	8,737	-163	173	30	25,596	618
R	1987	12,155	1,020	5,727	176	8,675	-62	191	18	26,748	1,152
0	1988	13,225	1,070	5,776	49	8,441	-234	147	-44	27,589	841
L	1989	14,160	935	6,235	459	8,305	-136	136	-11	28,836	1,247
L M	1990	15,001	841	6,603	368	8,248	-57	150	14	30,002	1,166
E	1991	15,805	804	7,058	455	8,527	279	70	-80	31,460	1,458
Ň	1992	16,456	651	7,382	324	8,858	331	60	-10	32,756	1,296
Т	1993	17,155	699	7,958	576	9,107	249	58	-2	34,278	1,522
S	1994	17,767	612	8,510	552	9,611	504	62	4	35,950	1,672
	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	44,525	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	50,489	498
	2012	22,735	489	11,483	-40	16,660	33	91	-2	50,969	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
Р	2016	24,800	555	12,957	242	16,824	250	100	0	54,681	1,047
г R	2017	25,381	581	13,315	358	17,366	542	100	0	56,162	1,481
Ö	2018	25,973	592	13,692	377	17,948	582	100	0	57,713	1,551
Ĵ	2019	26,341	368	14,234	542	18,484	536	100	0	59,159	1,446
Е	2020	26,954	613	14,503	269	18,999	515	100	0	60,556	1,397
C	2021	27,487	533	14,734	231	19,525	526	100	0	61,846	1,290
T	2022	27,996	509	14,840	106	20,098	573	100	0	63,034	1,188
 0	2023	28,447	451	15,158	318	20,515	417	100	0	64,220	1,186
N	2024	28,830	383	15,480	322	20,921	406	100	0		1,111
S	2025	29,175	345	15,782	302	21,217	296	100	0		943
-	2026	29,492	317	16,036	254	21,426	209	100	0	67,054	780
	2020	29,788	296	16,226	190	21,889	463	100	0	68,003	949
	2027	30,044	256	16,405	179	22,231	342	100	0		777
	Netes	(1) All "actual"		its are head co			th	100	0	00,100	

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

(2) "Change" column indicates change from prior year.

(3) Preschool enrollments are not included in these figures.

(4) Cedar Lane School's projected enrollment is based on Cedar Lane School's September 30, 2014 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	-	\$ 24,000,000	2007	(Replacement) replaced Old Bushy Park with a new school
Centennial Lane ES	11.22	5	\$ 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	-	\$ 21,804,000	2006	New school 2006
Deep Run ES	11.67	6	\$ 6,403,575	1990	1998(A), 2009(A), 2016®
Ducketts Lane ES	10.03	9	\$ 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	-	\$ 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)
Hollifield Station ES	14.50	3	\$ 6,017,889	1997	2002(R)/(A), 2009(A)
llchester 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	-	\$ 775,481	1970	1986(R), 1994(A), 2008(A)
Manor Woods ES	43.23	1	\$ 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	12	\$ 764,941	1972	1988(A), 1998(R), 2008(A)
Talbott Springs ES	10.00	11	\$ 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	-	\$ 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	9	\$ 6,669,587	1990	2007
West Friendship ES	17.85	-	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)

* Estimated Investment: based on available records; in process of updating data. **Dayton Oaks shares 12.66 acres with Recreation and Parks play fields.

Facility Use, Acreage, and Capital Projects

HCPSS Middle Schools	Acreage	Current Relocatables	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®, 2010(Masonry)
Dunloggin MS	20.00	5	\$ 1,963,323	1973	1999(R)
Elkridge Landing MS	48.58	2	\$ 9,000,000	1995	
Ellicott Mills MS	16.22	3	\$ 9,430,537	1939	(Replacement) 1957, 1962, 1973, 2001
Folly Quarter MS	78.3 shared	-	\$ 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	-	\$ 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	-	\$ 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	6	\$ 8,261,000	1989	
Thomas Viaduct MS	20.21	-	\$ 34,755,000	2014	
Wilde Lake MS	21.00	9	\$ 1,323,314	1969	1974, 1998(R)

HCPSS High Schools	Acreage	Current Relocatables	Original Construction Cost	Initially Complete	Renovations (R), Additions (A), Projects
Atholton HS	36.28	-	\$ 1,423,49	3 1966	1972, 1977, 1978, 1988, 1987(A), 1997(R), 2003(R)/(A),
Centennial HS	43.00	4	\$ 6,337,86	7 1977	1998(R), 2002(R)/(A), 2011(A)
Glenelg HS	40.94	-	\$ 56,345,25	7 1958	1963, 1967, 1969, 1971, 1972(R), 1986(A), 1988(A)/(R), 2003, 2008(A), 2009(Auditorium), 2011(HVA
Hammond HS	33.14	4	\$ 6,321,00	0 1976	1996(A), 1998®, 2011(A)
Howard HS	41.00	15	\$ 698,78	1 1951	1960, 1964,1971, 1975, 1977, 2001(A)/(R), 2002(R), 2004, 2006, 2009(Windows)
Long Reach HS	50.00	4	\$ 20,373,00	0 1996	
Marriotts Ridge HS	42.40	-	\$ 34,115,89	5 2005	
Mt. Hebron HS	40.05	4	\$ 55,560,00	0 1965	1968,1972,1976, 1977-1978,1983(MODERNIZATION), 1997-99(A), 2004(R), 2005(R), 2011
Oakland Mills HS	28.60	-	\$ 3,579,00	0 1973	1991-92(R), 1998(R), 2004(A)
Reservoir HS	99.0 shared	5	\$ 27,224,00	0 2002	
River Hill HS	64.2	-	\$ 21,473,00	0 1994	
Wilde Lake HS	31.25	-	\$ 21,202,39	1 1996	(Replacement)

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

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

						FI	FМ	-NT	ARY	SCF			s -	MA	V (20	16	ΔΡ	FO) Te	st										
									on Rates																						
		Сар	acity	Cha		cts May 019-20		ections, B 2020-21	oard of Edu	cation's 2021-22	Reque		Y 2017 c 22-23		s, and pi 023-24	ropos		listricting 024-25	g asso		vith Ca 5-26	apital P	rojects 2026			2027	7 20		202	28-29	
Columbia - East	2019	2020	2021	2022	∠ Proj	% Util.	Proj	% Util.	Proj	% Util.	I		% Util.	Proj	% Util.		Proj	% Util.			6 Util.	Pr		Util.	Pro		b Util.	F		% Util.	
Cradlerock ES	398	398	398	398	369	92.7	386	97.0	383	96.2		379	95.2	395	99.2		406	102.0			06.0	43		09.5	44		10.8			111.8	
Jeffers Hill ES	421	421	421	421	447	106.2	444	105.5	447	106.2		445	105.7	453	107.6		464	110.2			11.6	47		13.3	48		14.5			116.6	с
Phelps Luck ES	616	616	616	616 399	535	86.9 99.5	539 419	87.5	546	88.6		547	88.8	549	89.1		548	89.0			89.8	55		0.7	56		92.0			93.3	
Stevens Forest ES Talbott Springs ES	399 377	399 377	399 377	399	397 427	99.5 113.3	419	105.0 112.5	423 426	106.0 113.0		429 430	107.5 114.1	424 438	106.3 116.2	с	425 453	106.5 120.2			07.5 21.5	43 C 46		08.5 23.6	43 C 47		09.8 25.7			110.8 127.9	с
Thunder Hill ES	509	509	509	509	595	116.9	C 580	112.5	586	115.1		598	117.5 (118.9	c	455 616	120.2				C 63		24.0	C 63		25.5				c
Region Totals	2720	2720	2720	2720	2770	101.8	2792		2811	103.3		2828	104.0	2864	105.3	Ū	2912	107.1			08.6			10.4	304		11.8			113.3	Ū
Columbia - West																															_
Bryant Woods ES	361	361	361	361	345	95.6	342	94.7	343	95.0		347	96.1	351	97.2		358	99.2		363 1	00.6	36	59 10	02.2	37	0 1	02.5	9	376	104.2	
Clemens Crossing ES	521	521	521	521	520	99.8	530	101.7	526	101.0		523	100.4	519	99.6		504	96.7			96.7	50		7.1	50		97.7			98.1	
Longfellow ES	512	512	512	512	432	84.4	436	85.2	439	85.7		438	85.5	447	87.3		457	89.3			90.6	46		1.6	47		93.4			94.5	
Running Brook ES	515	515	515	515	674	130.9	O ^{CIP} 735	142.7	O ^{CIP} 807	156.7		878	170.5	C 938	182.1	С	995	193.2	C			C 10		09.1	C 111		16.5				с
Swansfield ES A		621	621	621	514	82.8	519	83.6	516	83.1		524	84.4	529	85.2		526	84.7			86.0	54		7.1	54		38.2			89.4	
Region Totals	2530	2530	2530	2530	2485	98.2	2562		2631	104.0			107.1	2784	110.0		2840	112.3			14.9	29		17.1	C 302		19.4				С
Northeastern Bellows Spring ES	751	751	751	751	844	112.4	886	118.0	C 915	121.8	С	918	122.2	C 905	120.5	с	885	117.8	с	874 1	16.4	C 84	13 1.	12.3	81	7 1	08.8	-	'99	106.4	
Deep Run ES	751	772	751	772	844 884	112.4	886 903	118.0	C 915 C 911	121.8		905		C 895	120.5	c	885 898	117.8				C 91		12.3	C 92		20.2				с
Ducketts Lane ES	770	770	770	770	1224		0 ^{CIP} 1354		O ^{CIP} 1441	187.1	010	905 1531	198.8 0		206.2	c	090 1601	207.9				C 16		10.0	C 163		12.5				c
Elkridge ES	760	760	760	760	833	109.6	840	110.5	854	107.1		866	113.9	883	116.2	c	914	120.3				C 96		26.8	C 103		26.7				c
lichester ES	653	653	653	653	624	95.6	618	94.6	624	95.6		630	96.5	659	100.2	C	699	120.3			10.3	73		20.0	C 98 74		14.2			127.0	C
New ES #42 NS		788	788	788	024	75.0	010	74.0	024	75.0		030	70.5	037	100.9		077	107.0		120	10.5	1.)	11.7	/4	0 1	14.2	,	41	113.5	
Rockburn ES	653	653	653	653	580	88.8	600	91.9	639	97.9		683	104.6	712	109.0		739	113.2		788 1	20.7	C 83	x0 1'	27.1	C 85	8 1	31.4	c 8	876	134.2	c
Veterans ES	788	788	788	788	836	106.1	836	106.1	811	102.9		822	104.3	843	107.0		851	108.0			10.3	87		11.0	88		12.1			113.8	č
Waterloo ES	663	663	663	663	576	86.9	594	89.6	603	91.0		610	92.0	609	91.9		620	93.5			95.9	64		7.1	64		97.9			99.4	
Worthington ES	590	590	590	590	472	80.0	473	80.2	475	80.5		497	84.2	510	86.4		525	89.0			88.8	51		8.0	51		37.5			88.0	
Region Totals	7188	7188	7188	7188	6873	95.6	7104		7273	101.2			103.8	7604	105.8		7732	107.6			09.4			10.6	799		11.2			112.0	
Northern																															_
Centennial Lane ES	647	647	647	647	769	118.9	C 769	118.9	C 774	119.6	С	780	120.6	C 783	121.0	с	789	121.9	с	803 1	24.1	C 81	1 1	25.8	C 82	2 1	27.0	C 8	32	128.6	c
Hollifield Station ES	694	694	694	694	809	116.6	C 789 C 834	120.2	C 866	124.8		892		C 913	121.0	c	789 938	135.2				C 93			C 02 C 91		31.3				c
Manor Woods ES	681	681	681	681	1100		O ^{CIP} 1257		O ^{CIP} 1376	202.1			216.6 0		231.0		1597					D ^{CIP} 15			O ^{CIP} 145						D _{CIP}
Northfield ES	700		700	700	717	101.5	731		1070	106.6		756		770		0	776	234.5 110.9				C 81			C 82		17.4			201.1	c
St Johns Lane ES	612	700 612	612	612	732		C 721	104.4 117.8	746 C 721	117.8		720	108.0 117.6 (110.0 117.6	с	719	117.5				C 72			C 74		21.6				c
Waverly ES A		738	738	738	586	79.4	572	77.5	575	77.9		720 584	79.1	595	80.6	C	602	81.6			82.9	63		5.8	64		21.0			89.3	C
Region Totals	4072	4072	4072	4072	4713		C 4884		C 5058	124.2		5207	127.9 (131.5	С	5421	133.1				C 54		33.3	C 539		32.6	C 5			с
Region rotals	1072	1072	1072	1072			0 100		0 0000								0.21				0.10	0 0.			0 001		02.0	0 0	002		-
Southeastern									105																						
Atholton ES	424	424	424	424	396	93.4	399	94.1	405 CIP	95.5		406	95.8	412 CIP	97.2	_	420	99.1			00.5	43		02.1	44		03.8			105.2	
Bollman Bridge ES	666	666	666	666	778	110.0	O ^{CIP} 796	119.5	O ^{CIP} 816	122.5		829	124.5 O		126.0	С	847	127.2				C 86		30.3	C 87		32.0				с
Forest Ridge ES	669	669	669	669	794		O ^{CIP} 846	126.5	O ^{⊂IP} 875	130.8		912	136.3 O		142.6	С	979	146.3	С			C 10		49.6	C 99		48.7				С
Gorman Crossing ES	700	700	700	700	775	110.7	764	109.1	749	107.0		729	104.1	720	102.9		700	100.0			98.1	67		7.0	67		97.0			97.7	
Guilford ES	465	465	465	465	557	119.8	C 553	118.9	C 556	119.6		563	121.1 (121.9	С	573	123.2				C 58			C 58		25.4				С
Hammond ES	653	653	653	653	720	110.3	728	111.5	767	117.5		786		C 817	125.1	С	843	129.1				C 85		30.2	C 85		31.5			133.8	с
Laurel Woods ES	640 4217	640	640	640 4217	553	86.4 108.4	552 4638	86.3 110.0	563 4731	88.0 112.2		563 4788	88.0 113.5	566	88.4	6	582 4944	90.9 117.2			92.0 18.1	59 C 50		2.3 18.6	59 C 503		93.3 19.3			94.4 120.4	С
Region Totals	4217	4217	4217	4217	4573	108.4	4038	110.0	4/31	112.2	4	4788	113.5	4875	115.6	С	4944	117.2	ι,	4979 1	18.1	C 50	02 1	18.0	C 503	3Z I	19.3	C 5	076	120.4	C
Western																															
Bushy Park ES	788	788	788	788	602	76.4	602	76.4	590	74.9		600	76.1	598	75.9		606	76.9			77.5	61		8.6	63		30.1			81.2	
Clarksville ES	612	612	612	612	427	69.8	430	70.3	430	70.3		435	71.1	435	71.1		432	70.6			71.2	43		1.1	43		71.4			71.4	
Dayton Oaks ES	788	788	788	788	605	76.8	591	75.0	578	73.4		578	73.4	566	71.8		567	72.0			71.8	56		1.8	56		72.2			72.7	
Fulton ES	788	788	788	788	861	109.3	878	111.4	875	111.0		884	112.2	866	109.9		865	109.8			10.4	87		11.2	87		10.8			109.0	
Lisbon ES	527	527	527	527	444	84.3	447	84.8	446	84.6		460	87.3	471	89.4	~	465	88.2			88.8	47		9.4	47		39.9			90.5	
Pointers Run ES	744	744	744	744	826	111.0	855	114.9	898	120.7		923		C 918	123.4	С	904	121.5				C 86		16.1	C 83		11.8			108.2	
Triadelphia Ridge ES	581	581	581	581 414	614 241	105.7	620	106.7	621	106.9		614	105.7	601	103.4		570	98.1			96.6	55		5.7	55		96.0			96.9	
West Friendship ES	414 5242	414 5242	414 5242	414 5242	241 4620	58.2 88.1	236	57.0 88.9	242 4680	58.5 89.3		242 4736	58.5 90.3	250 4705	60.4 89.8		253 4662	61.1 88.9			62.1 88.9	25		2.3	26		53.8 38.5			65.5 88.2	_
Region Totals	0212						1007										1002						10 0	0.0	100						_
Countywide Totals		25969				100.3	2663 et for Gra		27184	104.7	2	7731	106.8	28186	108.5		28511	109.8	2	28822 1	11.0	289	707	11.6	291	20 I	12.2	25	267	112.7	

A: capacity includes additions as reflected in FY 2017 Capital Budget for Grades K-5 in 2017. NS: New school scheduled to open in August 2018.

FY 2018 Superintendent's Proposed Capital Budget

8																											
porting								МЛГ	וחנ	F SC	ЪНС		S - 1	ΛΔν	20	16 Δ	DFC		set								
₫								IVIIL					י - י		20				JSL								
ВС							С	apacity l	Itilizatio	on Rate	s with B	oard of I	ducatio	on's App	oved F	2017 C	apital B	udaet	Projects								
					Cha	rt reflec		2015 Projec													ital Proj	ects.					
Ď			Cap	acity		2	019-20	2	020-21		2021-22		2022-23		2023-24		2024-25	<u> </u>	2025-2	5 [']	2	026-27		2027-28		2028	3-29
ata	Columbia - East	2019	2020	2021	2022	Proj	% Util.		% Util.	Pro				Pro		Pro			roj % Ut	il.	Proj	% Util.	Pr				Util.
ω	Lake Elkhorn MS	643	643	643	643	564	87.7	557	86.6	572		56		557	86.6	549			48 85.2		568	88.3	58		58		91.0
	Oakland Mills MS	506	506	506	506	474	93.7	489	96.6	477		47:		478		478			84 95.		482	95.3	49		49		98.4
	Region MS Totals	1149	1149	1149	1149	1038	90.3	1046	91.0	104	9 91.3	103	5 90.1	103	90.1	1027	89.4	1	032 89.8	3	1050	91.4	10	4 93.5	10	83 9	94.3
	Columbia - West																										
	Harpers Choice MS	506	506	506	506	574	113.4	542	107.1	566	i 111.9	54	9 108.5	549	108.5	553	109.3	5	55 109.	7	564	111.5	55	110.5	56	65 1	11.7
	Wilde Lake MS R	760	760	760	760	705	92.8	692	91.1	697		71		763	100.4	819	107.8	8	69 114.	3	888	116.8	C 89	5 117.8	C 90)8 1	19.5 C
	Region MS Totals	1266	1266	1266	1266	1279	101.0	1234	97.5	126	3 99.8	125	9 99.4	131:	2 103.6	1372	108.4	1-	424 112.	5	1452	114.7	14	4 114.8	14	73 1	16.4
	Newtheestern																										
	Northeastern Bonnie Branch MS	662	662	662	662	734	110.9	690	104.2	652	98.5	65	7 99.2	663	100.2	681	102.9	-	86 103.	6	696	105.1	70	3 106.2	71	6 1	08.2
	Elkridge Landing MS	779	779	779	779	677	86.9	672	86.3	685		69		714		712	91.4		31 93.8		743	95.4	78				02.2
	Ellicott Mills MS A		662	662	662	909	137.3	C 904		C 899				C 856		C 826	101.0		51 104.		867	106.0	89		91		11.5
	Mayfield Woods MS	798	798	798	798	827	103.6	858	107.5	906				C 968		C 1000			93 124.		981	122.9	C 98				24.4 C
	Thomas Viaduct MS	701	701	701	701	806	115.0	C 865	123.4	C 959			3 142.4	C 108	155.2	C 1170	166.9	C 1	253 <mark>178</mark> .		1307	186.4	C 13		C 13	65 1	94.7 C
	Region MS Totals	3602	3602	3602	3602	3953	109.7	3989	110.7	410	1 113.9	413	3 114.7	428	119.1	4389	116.8	4	514 <mark>120</mark> .	1	4594	122.2	47	2 125.1	47	82 1	27.2
	Northorn																										
	Northern Burleigh Manor MS	779	779	779	779	860	110.4	868	111.4	899	115.4	C 95	3 122.3	C 997	128.0	C 1059	135.9	C 1	092 140.	2 C	1106	142.0	C 109	1 140.1	C 11	00 1	41.2 C
	Dunloggin MS A		662	662	662	656	116.1	C 660	99.7	672				679	128.0	687	103.8		140. 83 103.		697	142.0	69				07.9
	Patapsco MS	643	643	643	643	738	114.8	756		C 779					121.5		121.0		89 122	_	804	125.0	C 83				33.0 C
	Region MS Totals	1987	2084	2084	2084	2254	113.4	2284	109.6	235	0 112.8	241	5 115.9	245	117.9	2524	121.1	2	564 123.	0	2607	125.1	26			69 1	28.1
10	Southeastern	004	004	004	004	0.40	407.0	740	447.5	0 74	440-	0 74	400.0	• 750	405.7	• • • • •	400.4	•	44 404	<u> </u>	000	407.0	•	400.4	•		
90	Hammond MS Murray Hill MS	604 662	604 662	604 662	604 662	648 760	107.3 114.8	710 792	117.5 119.6	C 717 C 817				C 759 C 768		C 804 C 769	133.1 116.2		14 134. 71 116.		829 761	137.3 115.0	C 83 C 76		C 84		39.9 C
	Patuxent Vallev MS	760	760	760	760	735	96.7	757	99.6	726		73		753		766	100.2		90 103.		829	109.1	86				18.3 C
	Region MS Totals	2026	2026	2026		2143	105.8	2259	111.5	225				228		2339			375 117.		2419	119.4	24				22.6
																									· · · · · ·		
	Western																										
	Clarksville MS	643	643	643	643	562	87.4	562	87.4	552		54		552		572			84 90.8		590	91.8	58		58		91.0
	Folly Quarter MS Glenwood MS	662 545	662 545	662 545	662 545	678 559	102.4 102.6	675 578	102.0 106.1	684 590				686 567	103.6 104.0	710 570	107.3 104.6		07 106. 96 109.		688 590	103.9 108.3	65 57		65 58		98.8 06.4
	Lime Kiln MS	545 701	545 701	545 701	545 701	559 754	102.6	578 765	106.1	783				567 805		570 814			96 109. 607 115.		590 799	108.3	57				13.0
	Mount View MS	798	798	798	798	824	107.0	823	103.1	820				858		910			38 117.		984	123.3					25.2 C
	Region MS Totals	3349	3349	3349	3349	3377	100.8	3403	101.6	342		340		346		3576			532 108.		3651	109.0	36				07.8
	Countywide Totals			13476				14215		-	6 107.2			1484		1522			541 114.	· · · · ·	15773		159	-		01 1	
								Crades C			ad 2024																

 Countywide Totals
 13379
 13476
 13476
 1476
 14044
 105.0
 14215
 105.5
 14446
 107.2

 A: capacity includes additions as reflected in FY 2017 Capital Budget for Grades 6-8 between 2017 and 2024.
 100.0
 14215
 105.5
 14446
 107.2

R: Replacement school scheduled to open August 2017.

Droje et Nome		Project	Appropriation	Proposed	Drojact Status
Project Name		Project Number	Appropriation	Completion	Project Status
Planning					
	New ES #42	E1028	\$ 17,333,000	2018	Planning.
Construction					
	Wilde Lake MS Replacement	E1031	\$ 10,858,000	2017	Under construction.
	Patuxent Valley MS Renovation	E1033	\$ 8,145,000	2017	Under construction.
	Swansfield ES Renovation/Addition	E1034	\$ 1,898,000	2017	Under construction.
	Waverly ES Renovation/Addition*	E0973	\$ 13,359,000	2018	Under construction.

Partially and Fully Funded Projects in Process

Planning funds appropriated under E-0980.

Facilities Constructed With Assistance From Maryland School Construction Funds (1980–2015)

Completion (School year)	Elementary	Middle	High	Special
1980–1981				
1981–1982				Cedar Lane
1988–1989	Bollman Bridge			
1989–1990		Patuxent Valley		
1990–1991	Deep Run			
	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	llchester		Long Reach	
1996–1997			Wilde Lake Replacement	
1007 1000	Fulton	Murray Hill		
1997–1998	Hollifield Station			
1000 1000	Gorman Crossing			
1998–1999	Triadelphia Ridge			
		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			
0007 0000	Veterans			
2007–2008	Bushy Park Replacement			
2013–2014	Ducketts Lane			
2014–2015		Thomas Viaduct		

Additions/Renovations Constructed with Assistance From Maryland School Construction Funds (1980–2016) Completion (School year) **Special** Elementary Middle High 1980-1981 Atholton 1981-1982 Clarksville Guilford 1983-1984 Waterloo 1985-1986 Mt. Hebron 1986-1987 Guilford School of Technology 1987-1988 Atholton 1991-1992 **Oakland Mills** Northfield Owen Brown 1994-1995 Centennial Lane Dasher Green Wilde Lake 1995-1996 **Oakland Mills** 1996-1997 Hammond Hammond Swansfield Dunloggin 1998-1999 Jeffers Hill Waterloo Ilchester Pointers Run 2000-2001 St. John's Lane **Talbott Springs** Forest Ridge 2001-2002 Pointers Run Atholton Centennial 2002-2003 Clarksville Hollifield Station 2003-2004 Atholton Fulton Patapsco Manor Woods Clarksville Mt. Hebron 2004-2005 Rockburn **Oakland Mills** Clarksville Howard Fulton Pointers Run 2006-2007 Triadelphia Ridge All Day K All Day K Waverly 2007-2008 Centennial Lane Clarksville All Day K Clarksville Glenelg 2008-2009 Centennial Lane Worthington All Day K Clemens Crossing 2009-2010 Waterloo 2010-2011 Northfield Hammond Hammond Hammond 2011-2012 **Bellows Spring** Centennial 2012-2013 Thunder Hill Bollman Bridge Gorman Crossing 2013-2014 Phelps Luck Stevens Forest 2014-2015 **Running Brook** Longfellow Atholton 2015-2016 Laurel Woods

Supporting Data

Glossary of Terms

ADA: Americans with Disabilities Act.

ADDITION (SCHOOL): Any type of space that adds capacity or provides space for a new program.

BUILDING: A structure, either permanent or relocatable, consisting of constructed walls, a roof, and a floor. A structure that has the same floors, ceiling, and walls and is not separated by an open air space is considered one building.

PERMANENT: A structure built with a fixed foundation that has permanently attached walls, a roof, and a floor that cannot be moved or transported either as a unit or in sections.

RELOCATABLE: A building or portion of a building made up of prefabricated units that may be disassembled and reassembled frequently, or a single unit of construction consisting of walls, roof, and floor that is movable as a unit either on wheels or by a truck. Mobile, demountable, dividable, modular, and portable buildings are types of relocatable units.

CAFETORIUM: A space within an educational facility that is used as both a cafeteria and an auditorium.

CAPACITY: Number of students that may be housed in a facility at any given time based on a utilization percentage of the total number of existing satisfactory student stations.

CIP: Capital Improvement Program.

CLASSROOM: An instructional space requiring no special design or equipment and used for housing general programs such as language arts, social studies, and mathematics.

CLEAN AIR ACT: This program includes projects to convert or replace cooling equipment in school facilities so that they will no longer use ozonedepleting refrigerants.

COMAR: Code of Maryland Regulations.

COURTYARD: A large open space, usable by the student body or faculty, enclosed or surrounded by buildings.

COVERED WALKWAY: Enclosed or unenclosed covered passageways connected to a building outside the exterior walls.

EDUCATIONAL FACILITIES: Buildings and equipment, structures, and special educational use areas that are built, installed, or established to serve primarily educational purposes and secondarily social and recreational purposes of the community and which may lawfully be used as authorized by the Maryland Statutes and approved by Boards.

FEASIBILITY STUDY: The examination and analysis of information related to projected educational facilities to determine whether they are reasonable and possible.

FY: Fiscal Year.

G.S.F.: Gross Square Feet.

GYMNASIUM: An instructional area designed or adapted specifically for physical education activities. Regular or special classrooms connected to, or contained in, gymnasiums are recorded individually as regular or special classrooms and not as part of the gymnasium.

GYMNATORIUM: A space within an educational facility that is used both as a gym and an auditorium.

HVAC: Heating, ventilation, air conditioning, and refrigeration.

KINDERGARTEN CLASSROOM: A special classroom designed or provided with special builtin equipment for use by a group or class organized to provide educational experiences for children preceding the first grade. Room must not be located above the first floor and must have selfcontained rest rooms.

Glossary of Terms

LABORATORY: An instructional area designed for and furnished with specialized equipment to serve the needs of a particular program of study. Included in this category are science laboratories, language laboratories, reading laboratories, and vocational/technology laboratories.

LEED: Leadership in Energy and Environmental Design is a green building certification program.

LIMITED RENOVATION (LR): Includes projects that upgrade or replace a minimum of five major building systems and include widespread educational or architectural enhancements in schools or part(s) of schools that have been in use for more than 15 years. A limited renovation upgrades an existing building and site, or a portion of a building and site, to achieve many, but not all, of the current educational, building performance, and aesthetic qualities of a new school. A limited renovation allows further participation by the state within 15 years after the project is placed in service for projects that were not included in the original awarded scope of the Limited Renovation.

LONG-RANGE PLANNING: Devising a systematic method based on educational information and needs, carefully analyzed, to provide the facilities to meet the goals and objectives of the educational agency for a period of five years.

MAINTENANCE AND REPAIRS: The upkeep of educational and ancillary plants, including, but not limited to, roof or roofing replacement short of complete replacement of membrane or structure; repainting of interior or exterior surfaces; resurfacing of floors; repair or replacement of glass; repair of hardware, furniture, equipment, electrical fixtures, and plumbing fixtures; and repair or resurfacing of parking lots, roads, and walkways. "Maintenance and repair" will not include renovations except for the replacement of equipment with new equipment of equal systems meeting current code requirements, provided that the replacement item neither places increased demand upon utilities services or structural supports nor adversely affects the function of safety to life systems.

MEDIA CENTER: An area specifically designed or adapted as a place for studying, reading, and the custody, circulation, and administration of a collection of books, manuscripts, and periodicals kept for use by the student body.

MULTIPURPOSE ROOM: An instructional area designed or adapted specifically for two or more of the combined functions that might normally be used for assemblies, physical education, lunch, music, clubs, audiovisual work, and library services. Separate gymnatoriums and cafetoriums are not classified as multipurpose rooms.

MUSIC ROOM: An instructional area designed or provided with special built-in equipment for learning activities involving choral and instrumental music.

NEW CONSTRUCTION: Any construction of a building or unit of a building in which the entire work is new or an entirely new addition connected to an existing building or which adds additional square footage to the space inventory.

N.S.F.: Net Square Feet.

PARCEL: The unique acreage of contiguous land. Typically consists of a plot of land that is not divided by a county, city, state, or federally owned or maintained road or highway.

PROJECT FEASIBILITY STUDY: A project and site evaluation study to determine the suitability of the site for the project in question. A pre-design architectural study which may look at various scenarios before an architect is engaged to design the renovation or new construction.

PUBLIC SCHOOL CONSTRUCTION PROGRAM (PSCP): The Maryland Public School Construction Program funds the cost of constructing certain school capital improvements or portions thereof up to the extent of the approvals by the Board of Public Works and consistent with the current regulations, subject to annual appropriations.

Glossary of Terms

RENOVATION: The rejuvenating or upgrading of existing facilities by installation or replacement of materials and equipment and includes, but is not limited to, interior or exterior reconditioning of facilities and spaces; air-conditioning, heating, or ventilation equipment; fire alarm systems; emergency lighting; electrical systems; and complete roofing or roof replacement, including replacement of membrane or structure. (In this context, the term "materials" does not include instructional materials.) PSCP distinguishes between different types of renovations, depending upon their scope.

REPLACEMENT: Projects to replace the majority or the entirety of an existing school where the cost of renovation is prohibitive, or site/building layout and other technical factors make renovation of the entire structure infeasible. Replacement may include expansion to increase capacity, and must typically be justified on the basis of a feasibility study.

RESOURCE ROOM: An instructional space used primarily to enhance and support, not supplant, instruction received in regular or special classrooms. Generally designed to accommodate fewer students than other classrooms.

ROOM: A space enclosed on all sides. Alcoves or recesses are not considered separate rooms and should be included in the NSF of the room where such spaces are found.

SITE: A space of ground occupied or to be occupied by an educational facility or program.

SITE DEVELOPMENT: Site development means work that must be performed on an unimproved site in order to make it usable for the desired purpose; or, work incidental to new construction or to make an addition usable.

SITE IMPROVEMENT: The work that must be performed on an existing site to improve its utilization, correct health and safety deficiencies meet special program needs or provide additional service areas. Site improvement incident to

construction is the work that must be performed on a site as an accompaniment to the construction of an addition to an educational facility or for a modernization project.

USGBC: U.S. Green Building Council administers the LEED building program which certifies green buildings.



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 shortterm 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 fiveyear 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



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 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