

EDUCATIONAL FACILITIES MASTER PLAN 2009-2018



**Board of Education Approval
June 10, 2009**

*Carroll County Public Schools
Westminster, Maryland 21157*

FACILITIES MASTER PLAN

Basic Assumptions and Parameters

- ▶ Enrollment projections have been revised based on September 30, 2008 actual enrollments and serve as a foundation for the development of the master plan.
- ▶ The 2008-17 Educational Facilities Master Plan, the current status of the FY10-15 Capital Improvement Program Budget request, and contribution from staff, citizens and Carroll County Government are considered as the 2009-18 Educational Facilities Master Plan is developed.
- ▶ The Physical and Functional Assessment Report completed in 2008 was one of the criteria used to establish the need for building system renewal, renovation, or modernization.
- ▶ The plan reflects the basic guidelines specified in the “Goals, Standards and Guidelines” section (#3) of the full educational master plan document. This includes, but is not limited to, school system organization, philosophy and instructional program, school capacity calculations, school size parameters, and school staffing ratios.
- ▶ Unless serious health, safety, code, or program deficiencies exist, provision for capacity takes priority over renovation projects where no additional capacity is planned.
- ▶ Geographic clustering of schools is employed for the purpose of calculating enrollment and capacity data to justify the construction of new schools. Justification to receive State Planning Approval for a project requires that there are enough students over capacity (including adjacent school districts) to fill half of the capacity of the new school being constructed.
- ▶ When enrollment versus capacity in a geographic cluster does not meet the parameter established above, but an individual school within the cluster substantially exceeds its capacity, a building addition is considered. The building addition should not exceed established school size criteria and the core capacity will be studied to determine if expansion is required to support the additional classroom space.
- ▶ Special education components, including alternative education, should be planned at each level.

FACILITY NEEDS ANALYSIS

The primary purpose of this Educational Facility Master Plan is to identify the present and future facility needs of Carroll County Public Schools. This plan addresses the need to provide capacity for projected student enrollments, the need to maintain and repair existing school buildings, and the need to provide a learning environment which meets the current instructional program of the school system. The following analysis will examine each of these factors to identify the facility needs for the 2009 to 2018 time frame.

Capacity Analysis

System Wide Capacity Needs

Total enrollment dropped by 360 students in 2008, to a total of 27,901 students. This is the third consecutive year that total enrollment has declined. This trend is expected to continue until enrollment reaches a low of 27,197 in 2014. After 2014, total enrollment is projected to return to 2008 enrollment levels in 2018. The majority of this projected decline will be seen in much lower high school enrollments. The reason high school enrollments are expected to decrease is that there are fewer students currently in the elementary grades, and the level of new students transferring into the county has dropped significantly due to the dramatic decline in new home construction.

Based on the system wide breakdown of the projected 2018 total enrollment (12,460 elementary, 6,380 middle, and 8,685 high) and the future school capacities (13,377 elementary, 6,845 middle, and 10,612 high) there is not a countywide need for additional school capacity at any level.

Elementary School Capacity Needs

Although the system wide analysis does not show a need for additional elementary capacity, the geographic areas that have excess capacity are not always near other areas that may have a localized capacity concern. Based on the elementary school geographic clusters contained in the 2009-2018 enrollment projections, the southeast area cluster is the only area that is projected to be above 100% utilization in the next ten years. Carrolltowne Elementary, Freedom Elementary, and Piney Ridge Elementary are all projected to be inadequate based on the Board of Education's Policy regarding Adequate Facilities. This area of the County is also expected to receive a large portion of the future County growth due to the current expansion of the Freedom Water Treatment Plant. Although the projections for this cluster do not meet the State requirement for planning approval, the fact that growth is expected in this area means that the timing of a new school should be coordinated with the County need to provide adequate facilities for future growth.

In addition to the southeast area cluster of elementary schools, there are a couple of individual schools that are either approaching inadequate, or are inadequate based on the Board of Education's Policy regarding Adequate Facilities. Charles Carroll Elementary will be considering approaching inadequate in years 2010-2011, and 2013-2018. Westminster Elementary will be approaching inadequate

beginning in 2009, and inadequate in 2018. William Winchester Elementary will be inadequate beginning in 2009, and remain inadequate even with the additional capacity created by the Kindergarten Addition scheduled to open in 2010. Since the projections indicate that adjacent schools will have additional capacity, redistricting should be considered to relieve the overcrowding at William Winchester Elementary.

Since the enrollment projection methodology uses historical enrollment trends to project future enrollment, a consistent rate of growth makes the enrollments projections more reliable. In order to identify areas where the growth rate is changing, a comparison of historical and projected permit activity was done for each elementary school. The table below compares the number of building permits issued for each school district for the past four years with the number of projected building permits for each school district for the next four years. The elementary schools where an increase of more than 100 permits is expected are Carrolltowne, Cranberry Station, Elmer Wolfe, Freedom, Taneytown, and Westminster. Building permit activity should be monitored in addition to enrollment growth at both of these schools to determine when appropriate capacity relief options should be considered.

SCHOOL	HISTORICAL PERMITS ISSUED					PROJECTED PERMITS					Difference
	FY05	FY06	FY07	FY08	4 Yr. Total	FY09	FY10	FY11	FY12	4 Yr. Total	
Carrolltowne	6	5	0	9	20	52	92	92	75	311	291
Charles Carroll	11	13	7	3	34	33	9	0	0	42	8
Cranberry Station	19	24	14	14	71	90	79	25	25	219	148
Ebb Valley*						74	51	0	32	157	157
Eldersburg	3	1	0	0	4	7	0	0	0	7	3
Elmer Wolfe	8	11	3	3	25	14	50	48	75	187	162
Freedom	8	31	6	5	50	52	93	50	0	195	145
Friendship Valley	23	14	2	4	43	38	3	0	0	41	-2
Hampstead	20	52	6	7	85	10	17	13	0	40	-45
Linton Springs	36	46	12	13	107	42	51	27	16	136	29
Manchester	74	40	38	55	207	76	35	20	0	131	-76
Mechanicsville	36	23	8	10	77	85	36	13	0	134	57
Mt. Airy*	117	96	50	20	283	84	72	39	58	253	-30
Piney Ridge	62	33	4	5	104	51	50	25	0	126	22
Robert Moton	1	13	7	3	24	11	0	0	0	11	-13
Runnymede	34	19	9	5	67	26	34	30	30	120	53
Sandymount	41	37	17	3	98	99	38	19	22	178	80
Spring Garden	4	9	4	5	22	11	22	0	0	33	11
Taneytown	11	8	9	5	33	80	27	55	40	202	169
Westminster	6	3	9	0	18	13	40	40	40	133	115
William Winchester	45	75	34	25	179	42	75	62	71	250	71
Winfield	40	26	23	8	97	59	15	0	1	75	-22
TOTALS	605	579	262	202	1648	1049	889	558	485	2981	1333

Historical Permit Data for Ebb Valley was not available

Middle School Capacity Needs

Although the system wide analysis does not show a need for additional middle school capacity, the geographic areas that have excess capacity are not always near other areas that may have a localized capacity concern. Based on the middle school geographic clusters contained in the 2009-2018 enrollment projections, the Southern Area cluster is currently approaching inadequate and is projected to be inadequate in 2016. The Southcentral/West Area cluster is currently approaching inadequate and is projected to be inadequate beginning in 2017. The reason that both of these areas have a capacity need is because they both include Mount Airy Middle and Sykesville Middle Schools. Both schools are inadequate based on the Board of Education's policy on Adequate Facilities, and continue to remain inadequate throughout the ten year period. Due to the fact that Mount Airy Middle School is scheduled to receive a modernization in the next ten years, and the current functional capacity of 510 is

not adequate to accommodate the current feeder schools an addition should be considered with the modernization. Based on the projections a modernized Mt. Airy Middle would have additional capacity that could be used to relieve Sykesville, however an addition at Sykesville Middle along with the Mt. Airy project would provide the capacity to accommodate planned growth in both the Mt. Airy and Freedom Community Planning Areas.

The Westminster Area cluster is projected to be approaching inadequate starting in 2015. Enrollment growth at both Westminster East and Westminster West Middle Schools should continue to be monitored to determine when appropriate capacity relief options should be evaluated. Due to the fact that both of these schools are scheduled for modernizations, any additional capacity needs should be considered at the time of planning for these schools.

Since the enrollment projection methodology uses historical enrollment trends to project future enrollment, a consistent rate of growth makes the enrollments projections more reliable. In order to identify areas where the growth rate is changing, a comparison of historical and projected permit activity was done for each middle school. The table below compares the number of building permits issued for each school district for the past four years with the number of projected building permits for each school district for the next four years. The middle schools where an increase in the rate of growth is expected are New Windsor, Northwest, Oklahoma Road, Westminster East, and Westminster West. The enrollment projections for some of these schools already indicate a need for capacity relief, but that is not the case for New Windsor, Northwest, and Oklahoma Road middle schools. Both New Windsor and Northwest middle schools are projected to have additional capacity over the next ten years, however building permit activity should be monitored along with enrollment growth at both of these schools to determine when appropriate capacity relief options should be considered. Oklahoma Road middle school enrollment is projected to stay right around capacity, so any additional growth is a concern. Building permit activity should be monitored along with enrollment growth at this school to determine when appropriate capacity relief options should be considered

SCHOOL	HISTORICAL PERMITS ISSUED					PROJECTED PERMITS					Difference
	FY05	FY06	FY07	FY08	4 Yr. Total	FY09	FY10	FY11	FY12	4 Yr. Total	
Mt. Airy*	125	102	57	21	305	110	72	39	59	280	-25
New Windsor	43	26	20	5	94	41	65	48	75	229	135
North Carroll	89	60	47	59	255	157	86	20	32	295	40
Northwest	41	29	14	8	92	106	61	85	70	322	230
Oklahoma Road	16	36	6	14	72	109	185	142	75	511	439
Shiloh	100	81	21	12	214	101	77	32	22	232	18
Sykesville	54	83	18	20	175	101	101	52	16	270	95
Westminster East	69	117	53	39	278	165	163	87	96	511	233
Westminster West	68	45	25	19	157	159	79	53	40	331	174
TOTALS	605	579	261	197	1642	1049	889	558	485	2981	1339

High School Capacity Needs

Based on the high school geographic clusters contained in the 2009-2018 enrollment projections, there are no geographic clusters that are currently or projected to be inadequate or approaching inadequate. Liberty High School is currently inadequate, but is projected to drop to approaching inadequate in 2011. Liberty then becomes adequate in 2013 and 2014, before going back to approaching inadequate in 2015 – 2018. Since the school currently has 5 relocatable classrooms and the utilization percentage is expected to decline below 100%, the short term capacity needs are being managed with the relocatable classrooms. Enrollment growth at Liberty High should continue to be monitored to determine if permanent capacity relief options should be evaluated in future. Century High is currently

approaching inadequate, but is projected to be adequate from 2010 to 2018. Since the utilization is barely above 100% and the enrollments are projected to decline no capacity relief is planned for Century High. Winters Mill High is projected to be approaching inadequate from 2016 to 2018. Enrollment growth at Winters Mill should continue to be monitored to determine if permanent capacity relief options should be evaluated in future.

Since the enrollment projection methodology uses historical enrollment trends to project future enrollment, a consistent rate of growth makes the enrollments projections more reliable. In order to identify areas where the growth rate is changing, a comparison of historical and projected permit activity was done for each high school. The table below compares the number of building permits issued for each school district for the past four years with the number of projected building permits for each school district for the next four years. The high schools where an increase in the rate of growth is expected are Francis Scott Key, Liberty, South Carroll, Westminster, and Winters Mill. The majority of these schools are projected to have enough additional capacity to handle this additional projected growth. Liberty is the only school that would not be able to accommodate the increase in growth projected. However, the projections indicate that there is sufficient capacity in other high schools to be able to accommodate the additional growth expected in the Liberty High attendance area. Building permit activity should be monitored along with enrollment growth at both of these schools to determine when appropriate capacity relief options should be considered.

SCHOOL	HISTORICAL PERMITS ISSUED					PROJECTED PERMITS					Difference
	FY04	FY05	FY06	FY07	4 Yr. Total	FY08	FY09	FY10	FY11	4 Year Total	
Century	109	100	83	18	310	101	101	52	16	270	-40
Francis Scott Key	135	53	38	21	247	120	111	133	145	509	262
Liberty	34	16	36	6	92	109	185	142	75	511	419
North Carroll	197	108	110	53	468	174	125	33	32	364	-104
South Carroll	54	66	37	32	189	140	87	39	59	325	136
Westminster	104	101	75	40	320	239	117	72	62	490	170
Winters Mill	58	71	118	53	300	166	163	87	96	512	212
TOTALS	691	515	497	223	1926	1049	889	558	485	2981	1055

Modernization Needs Analysis

In addition to providing adequate school capacity to house student enrollments, another essential part of this Facilities Master Plan is to make sure that older facilities are meeting the demands of the current educational program, as well as county, state, and federal codes and requirements. Schools that are not meeting these standards are candidates for modernization, and are therefore scheduled for Modernization in the Facilities Master Plan. Modernizations have historically taken a back seat to new schools due to the requirement to provide capacity relief to accommodate the enrollment growth. As a result there is large group of schools that were constructed in fifties, sixties, and seventies which are candidates for modernizations. Based on the enrollment declines projected over the coming decade, the timing is right to address the needs of older schools across the system.

Facility Assessments

The term “Modernization” refers to the “design, construction, and equipping process through which an aging facility is brought up to current educational standards and through which its systems are renewed and updated to meet current system, county, state and federal codes and requirements. Modernizations

may be accompanied by additions or redesign of existing spaces to meet educational program requirements.” In order to accurately assess a school buildings ability to meet today’s standards; both physical and educational evaluations are required.

In 2005 the Board of Education hired the firm of EMG to do building condition assessments of all school facilities in the system. EMG observed the major building components and assessed their physical condition. Estimated repair and replacement costs were developed and compared against the replacement value of the school to develop a Facilities Condition Index. This number was then used to compare and rank the physical condition of school facilities.

In addition to this physical assessment, Carroll County Public Schools staff conducted an Educational Assessment of all school facilities that were constructed prior to 1980. This assessment included evaluations done for specific program areas of the school buildings that were conducted by the appropriate Instructional Area Supervisors. Although the Carroll County Career and Technology Center was constructed prior to 1980, it was not a part of this evaluation. The main reason for this is that the need to modernize this building and add program space has already been identified by the Long Range Career and Technology Plan Committee. Another reason this school was not included is that it would be difficult to compare it with the other schools evaluated due to its specialized program requirements.

The outcome of both of these assessments is the combined score found on the following table. Based these combined totals, Charles Carroll Elementary had the lowest score and is therefore the school most in need of modernization according to these assessments.

School	Physical Assessment Score Max. 1000	Functional Assessment Score Max. 1000	Total Score Max. 2000
Charles Carroll	958	462	1420
William Winchester	964	495	1459
Mt. Airy MS	906	569	1475
Westminster East	952	579	1531
Westminster West	979	578	1557
Freedom	975	597	1572
Westminster HS	940	654	1594
South Carroll	980	630	1610
Robert Moton	995	634	1629
Northwest	969	694	1663
Eldersburg	974	699	1673
Westminster ES	971	735	1706
Carrolltowne	987	738	1725
North Carroll HS	988	739	1727

The ranking was used as one criterion to schedule modernization projects in the Facilities Master Plan. Other criteria included the findings and recommendations of the Long Range Career and Technology Plan Committee, the need for additional capacity, and the desire to maximize state funding for a modernization. Based on the critical program need and the fact that a Feasibility Study has already been performed, the Carroll County Career and Technology Center is the first modernization scheduled to occur. The Feasibility Study completed in 2006, determined that due to the difficulty of phasing the modernization a replacement school would provide the best school educationally and would also cost

less than modernizing the existing school building. Due to the need for capacity at Mount Airy Middle School, this school is the second modernization scheduled. In order for this project to be eligible for State funding, a Feasibility Study will need to be performed prior to planning this project.

Instruction Program Needs Analysis

In addition to changing enrollments and aging facilities, schools also have to be able to respond to changes in instructional programs offered by the school system. These changes in instruction result from changes in federal or state requirements, and/or changes due to local initiatives. Since educational facilities exist to serve the needs of educators and students, they must be designed or renovated for these purposes. The following is a list of some recent changes that affect school facilities:

- **Full Day Kindergarten**

Full-day kindergarten was mandated in the State of Maryland through the 2002 Bridge to Excellence Act. In order to address this mandate, Carroll County Public Schools made the decision to construct permanent classroom additions to provide the additional classrooms required. A total of ten schools have received additions, one is currently under construction, and construction is scheduled to begin this summer on two more. At this time an additional five schools are scheduled to receive additions in the next ten years. The following table lists schools that have received additions, and those that have not received kindergarten additions.

SCHOOLS WITH KINDERGARTEN ADDITIONS	REMAINING SCHOOLS WITHOUT KINDERGARTEN ADDITIONS
Carrolltowne Eldersburg Freedom* Hampstead Linton Springs Manchester Mechanicsville Piney Ridge Runnymede Spring Garden Westminster William Winchester* Winfield*	Charles Carroll** Cranberry Station Ebb Valley*** Elmer Wolfe Friendship Valley Mount Airy*** Parr's Ridge*** Robert Moton Sandymount Taneytown

* Additions currently in design phase

** Addition not possible due to Septic System

*** Addition not necessary

- **Pre-Kindergarten Program**

Pre- kindergarten services to all economically disadvantaged four year olds were also mandated in the State of Maryland through the 2002 Bridge to Excellence Act. Carroll County Public Schools was required to provide a minimum of fourteen half day sessions by the 2007-2008 school year to meet this mandate. Due to the fact that the population served by pre-

kindergarten changes as the countywide demographics change, future pre-kindergarten needs will be evaluated on an annual basis. The table below lists the elementary schools that currently offer pre-kindergarten services.

SCHOOLS WITH PRE-K SESSIONS

<u>School</u>	<u>Sessions</u>	<u>Location</u>
Charles Carroll	One Session	Portable
Eldersburg	One Session	Kindergarten Classroom
Elmer Wolfe	One Session	1st Grade Classroom
Manchester	Two Sessions	Pre-K Classroom
Parr's Ridge	One Session	Pre-K Classroom
Robert Moton	Two Sessions	Portable
Spring Garden	Two Sessions	Kindergarten Classroom
Taneytown	Two Sessions	Primary Classroom
William Winchester	Two Sessions	Portable

- Class Size Reductions

In order to increase student achievement, system wide reductions in the teacher/pupil ratios at the elementary level have been occurring over the past few years. The average class size at the elementary level for the 2008-2009 school year is currently 20.4. The state rated capacities of these schools is based on 22 students per class for kindergarten, and 23 students per class for grades 1-5. As a result, portable classrooms are being utilized by some elementary schools to accommodate the lower class sizes. Until a target teacher/pupil ratio is developed, planning for permanent facility needs created by lowering class sizes is difficult to achieve. In the absence of a class size target, existing school capacities and portable classroom inventories need to be evaluated annually as staffing decisions affecting class sizes are made.

- Special Education

Special Education has gone through a transition in recent years. Currently, elementary special education students have the opportunity to attend school in their local community school, or at a regional special education center. There are five regional special education centers at the elementary level which serve a geographic area and receive students from feeder schools. These five regional centers are: Carrolltowne Elementary, Hampstead Elementary, Robert Moton Elementary, Runnymede Elementary, and Winfield Elementary. Since there are not regional special education centers at the middle and high school level, these students are provided services within their home school. As more special education students are mainstreamed into the regular education environment, schools need to adapt by providing appropriate staff and improving facilities to serve children with various disabilities.

Open Space Enclosures

In addition to these program changes, the original open space designs of some buildings have created learning environments that create many difficulties during the instructional day. Carrolltowne Elementary, Northwest Middle, Eldersburg Elementary, and Westminster Elementary schools were

identified in 2001 as needing open space enclosures. A Scope Study was performed by Frederick Ward and Associates in 2001 to determine the scope of these enclosures for their inclusion in the Educational Facilities Master Plan at that time. Funding was received from the Carroll County Board of Commissioners in the 2008 fiscal year to renovate some of these schools. Based on the funding received and current project estimates, there is only enough funding to accomplish the work at Carrolltowne Elementary and Northwest Middle. Future funding will need to be secured to perform the work at the other two schools.

High School Science Rooms

Another targeted instructional need is the renovation of aging high school science rooms. Due to changes in the manner in which science is taught, many of our older high schools make it difficult to teach science like it is taught in newer high schools. Renovation of these science facilities will provide the environment necessary to deliver quality science instruction to meet the goals of the science curriculum. Many of the science rooms at these older schools have already received renovations to bring them up to current standards, but there are a total of 18 classrooms at four high schools still to be completed. The following is the breakdown of the remaining science rooms to be renovated: North Carroll – 6, Westminster High – 6, Liberty High – 4, South Carroll High – 2.

Maintenance Needs Analysis

When not scheduled for a modernization, older school buildings require ongoing maintenance to prevent problems with major building systems such as heating, ventilation, and air-conditioning (HVAC), roofs, plumbing, electrical systems, floor and wall finishes, etc.. The Building Condition Assessments performed by EMG resulted in the evaluation of the condition of these building systems. Part of this evaluation included the prioritization of maintenance needs into five categories. The five categories are:

- Priority 1: Currently Critical (Immediate)
- Priority 2: Potentially Critical (Years 1 -2)
- Priority 3: Necessary – Not Yet Critical (Years 3 – 5)
- Priority 4: Recommended (Years 6 – 10)
- Priority 5: Does Not Meet Current Codes (Years 11-20)

This prioritization of needs helps to identify the most critical needs of the system. Due to the size of these maintenance projects, they must be funded through the Capital Budget as opposed to the annual Operating Budget. These needs are the ones that this Educational Facilities Master Plan focuses on, and are listed below.

- Roofs - Replacement of aging roofs is necessary to protect building structure, and to preserve the learning environment. Without a roof replacement program, aging roofs will continue to deteriorate allowing water to infiltrate building envelopes. This water infiltration will damage the structural roof deck, interior ceilings, floor and wall finishes, and building contents. Water

infiltration can also create conditions which could lead to air quality issues within the building. Based on their current age and condition, the following roofs have been identified as the ones most in need of replacement.

Priority	School	Date of Roof Installation	Scheduled Replacement	Age of Roof at Replacement
1	Mt. Airy Elementary	1987	2009	22
1	Hampstead Elementary	1986	2010	24
1	Freedom Elementary	1987	2011	24
1	William Winchester Elementary	1987	2011	24
1	Westminster West Middle	1986	2012	26
1	Charles Carroll Elementary	1976	2013	37
1	Carroll County Career & Tech. Center	1990	2013	23
1	Sandymount Elementary	1992	2014	22
1	Carroll Springs	1981	2014	33
2	Manchester Elementary	1994	2015	21
2	Mechanicsville Elementary	1994	2015	21
2	Taneytown Elementary	1995	2016	21
2	Spring Garden Elementary	1991	2016	25
2	Westminster East Middle	1993	2016	23
2	Westminster High	1992	2017	25
2	Westminster Elementary	1990	2017	27
2	South Carroll High	1990	2018	28
3	Friendship Valley	1991	2018	27
3	Oklahoma Road Middle	1997	2018	21
3	Piney Ridge Elementary	1991	2019	28
3	Winfield Elementary	1992	2019	27
3	Robert Moton Elementary	1996	2020	24
3	Runnymede Elementary	1994	2020	26
3	Carrolltowne Elementary	1994	2020	26
3	New Windsor Middle	1995	2021	26
3	Francis Scott Key High	1999	2021	22

- HVAC – Due to the significant impact of temperature and indoor air quality on the learning environment, the HVAC system plays a critical role in the daily operation of a school building. Replacement of aging systems and equipment is required to continue to provide a comfortable and healthy learning environment. Based on their current age and condition, the following HVAC systems and equipment have been identified as the ones most in need of replacement.

School	HVAC Equipment	Date of Installation	Scheduled Replacement	Age at Replacement
Hampstead Elementary	System Replacement/Gas Conversion	1986	2010	24
Freedom Elementary	Steam Boiler Conversion	1955	2011	56
Charles Carroll Elementary	Steam Boiler Conversion	1929	2011	82
Westminster East Middle	Boiler/Chiller	1975	2011	36
Piney Ridge Elementary	Boiler	1991	2012	21
Manchester Elementary	System Replacement/Gas Conversion	1989	2012	23
William Winchester	Boiler	1962	2013	51
Northwest Middle	Boiler	1976	2013	37
South Carroll High	Boiler/Gas Conversion	1967	2013	46
Mount Airy Elementary	Boiler	1986	2014	28
Carroll Springs	Boiler	1980	2014	34
Spring Garden Elementary	Boiler	1991	2015	24
Liberty High	Boiler	1980	2015	35
Sykesville Middle	Boiler	1984	2017	33
Runnymede Elementary	Boiler	1994	2017	23
Sandymount Elementary	Boiler	1992	2018	26
Westminster Elementary	Boiler	1976	2018	42

In addition to these major building systems, other large maintenance items to be addressed through the capital improvement program include fire alarm system replacements, electrical upgrades, and window replacements. These items would typically be replaced through the modernization of a school facility; however there are times when they are at the end of their useful life and replacement can not wait for a modernization of the facility.

CARROLL COUNTY PUBLIC SCHOOLS TEN YEAR FACILITIES MASTER PLAN CALENDAR

<i>CAPACITY PROJECTS</i>	Completion Date	Fiscal Year										Notes
		10	11	12	13	14	15	16	17	18	19	
<p>Mount Airy Middle Modernization/Addition This modernization is scheduled ahead of where its combined assessment score would place it due to capacity needs. The school is currently configured to accommodate 175 students per grade, but the feeder system is consistently sending 200 – 230 students per grade.</p>	Aug. 2013	FS	P	C	C	O						Project is included in Recommended Community Investment Plan (CIP) for Fiscal Years 2010-2015.
<p>Sykesville Middle Addition This project is for a classroom addition to provide capacity relief. Electrical Service Upgrades and Window Replacements will be incorporated into this project.</p>	Aug. 2013		P	C	C	O						Project is not included in Recommended CIP for Fiscal Years 2010-2015.
<p>New South Carroll Area Elementary School This project is a new elementary school located in the elementary school located in the Freedom CPA that would alleviate overcrowding the southeast area cluster.</p>	Aug. 2020									P	C	County Recommended CIP currently has Planning for project in Fiscal Year 2015 based on expected growth. Based on the current enrollment projections, this project would not meet State criteria for justification. If the enrollments begin to grow more rapidly based on future growth, the timing of this project will be adjusted in the future.

FS = Feasibility Study

P = Planning

C = Construction

O = Occupancy

Highlighted Projects are not included in County Adopted 2010-2015 CIP

CARROLL COUNTY PUBLIC SCHOOLS TEN YEAR FACILITIES MASTER PLAN CALENDAR

<i>MODERNIZATION PROJECTS</i>	Completion Date	Fiscal Year										Notes
		10	11	12	13	14	15	16	17	18	19	
Mount Airy Middle Modernization/Addition This modernization is scheduled ahead of where its combined assessment score would place it due to capacity needs. The school is currently configured to accommodate 175 students per grade, but the feeder system is consistently sending 200 – 230 students per grade.	Aug. 2013	FS	P	C	C	O						Project is included in Recommended Community Investment Plan (CIP) for Fiscal Years 2010-2015.
New Career & Technology Center (Replacement) This project involves the design and construction of a new Career and Technology Center to replace the aging Carroll County Career and Technology Center. In addition to providing a modern school facility to meet the current career and technology curriculum, this school will also provide additional space to accommodate additional programs that have been added over the years.	Aug. 2014		P	P/C	C	C	O					Project is not included in Recommended CIP for Fiscal Years 2010-2015.
Charles Carroll Elementary Modernization Any renovations to the current building will need to address the functional assessment inadequacies without adding square footage due to site constraints. Limited Renovation could be a possibility for this school.	Aug. 2015			FS	P	C	C	O				Project is not included in Recommended CIP for Fiscal Years 2010-2015.
William Winchester Elementary Modernization Existing Site Constraints may limit possible solutions to address all inadequacies at this school. Limited Renovation could be a possibility for this school.	Aug. 2016				FS	P	C	C	O			Project is not included in Recommended CIP for Fiscal Years 2010-2015.

FS = Feasibility Study

P = Planning

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Highlighted Projects are not included in County Adopted 2010-2015 CIP

CARROLL COUNTY PUBLIC SCHOOLS TEN YEAR FACILITIES MASTER PLAN CALENDAR

MODERNIZATION PROJECTS (cont.)	Completion Date	Fiscal Year										Notes
		10	11	12	13	14	15	16	17	18	19	
Westminster East Middle Modernization Scheduled Systemic Renovations would be included as part project.	Aug. 2018						FS	P	C	C	O	Project is not included in Recommended CIP for Fiscal Years 2010-2015.
Westminster West Middle Modernization This school has just received an HVAC replacement, and window replacement. Scheduled Systemic Renovations would be included as part of this project. Since this school is located on the same site as William Winchester Elementary, the possibility of combining the two projects should be explored	Aug. 2019							FS	P	C	C	
Freedom Elementary Modernization Existing Site Constraints may limit possible solutions to address all inadequacies at this school. Limited Renovation could be a possibility for this school.	Aug. 2020								FS	P	C	
Westminster High Modernization Scheduled Systemic Renovations would be included as part of this project.	Aug. 2021									FS	P	

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Highlighted Projects are not included in County Adopted 2010-2015 CIP

CARROLL COUNTY PUBLIC SCHOOLS TEN YEAR FACILITIES MASTER PLAN CALENDAR

<i>INSTRUCTIONAL PROGRAM IMPROVEMENT PROJECTS</i>	Completion Date	Fiscal Year										Notes
		10	11	12	13	14	15	16	17	18	19	
William Winchester Kindergarten Addition Design is complete, and construction is scheduled to start July 2009.	Aug. 2010	C	O									Project is included in Adopted CIP for Fiscal Years 2010-2015.
Winfield Kindergarten Addition Design is complete, and construction is scheduled to start July 2009.	Aug. 2010	C	O									Project is included in Adopted CIP for Fiscal Years 2010-2015.
Robert Moton Kindergarten Addition This addition is needed to accommodate full day Kindergarten.	Aug. 2011	P	C	O								Project is included in Adopted CIP for Fiscal Years 2010-2015.
Taneytown Kindergarten Addition This addition is needed to accommodate full day Kindergarten.	Aug. 2013			P	C	O						Project is included in Adopted CIP for Fiscal Years 2010-2015.
Cranberry Station Kindergarten Addition This addition is needed to accommodate full day Kindergarten.	Aug. 2015					P	C	O				Project is included in Adopted CIP for Fiscal Years 2010-2015.
Friendship Valley Kindergarten Addition This addition is needed to accommodate full day Kindergarten.	Aug. 2017							P	C	O		
Sandymount Kindergarten Addition This addition is needed to accommodate full day Kindergarten	Aug. 2019									P	C	

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CARROLL COUNTY PUBLIC SCHOOLS TEN YEAR FACILITIES MASTER PLAN CALENDAR

INSTRUCTIONAL PROGRAM IMPROVEMENT PROJECTS (cont.)	Completion Date	Fiscal Year										Notes	
		10	11	12	13	14	15	16	17	18	19		
Carrolltowne Elementary Open Space Enclosures Project is scheduled to be complete in the summer of 2009.	Aug. 2009	O											Funding was included in FY08 capital budget for open space enclosures.
Northwest Middle Open Space Enclosures Construction is scheduled to start in June 2009.	Aug. 2010	C	O										Funding was included in FY08 capital budget for open space enclosures.
Westminster Elementary Open Space Enclosures Design is scheduled to begin in fiscal year 2010 pending State share of previous two projects.	Aug. 2011	P	C	O									Project is dependent upon receipt of State share of Carrolltowne, and Northwest projects.
Eldersburg Elementary Open Space Enclosures Design is scheduled to begin in fiscal year 2011 pending State share of previous two projects.	Aug. 2012		P	C	O								Project is dependent upon receipt of State share of Carrolltowne, and Northwest projects.
North Carroll High Science Room Renovations This project involves 6 science rooms that were not renovated as part of the initial round of science room renovations.	Aug. 2012		P	C	O								
Westminster High Science Room Renovations This project involves 6 science rooms that were not renovated as part of the initial round of science room renovations.	Aug. 2013			P	C	O							
South Carroll High Science Room Renovations This project involves 2 science rooms that were not renovated as part of the initial round of science room renovations.	Aug. 2014				P	C	O						
Liberty High Science Room Renovations This project involves 4 science rooms that were not renovated as part of the initial round of science room renovations.	Aug. 2015					P	C	O					

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CARROLL COUNTY PUBLIC SCHOOLS TEN YEAR FACILITIES MASTER PLAN CALENDAR

<i>CAPITAL RENEWAL PROJECTS</i>	Completion Date	Fiscal Year										Notes	
		10	11	12	13	14	15	16	17	18	19		
ROOF REPLACEMENTS (Projects are included in the FY2010-2015 County CIP.)													
Mt. Airy Elementary	Aug 2009	C											Replacement of roofing system expected due to age and condition. Eligible for State systemic renovation funding. * These projects have modernizations scheduled in the construction calendar. If the modernization is included in the Carroll County CIP, then that roof replacement would occur with the modernization project. However, if the modernization is not recognized in the County CIP, then the roof replacement would occur as scheduled.
Hampstead Elementary	Aug 2010	P	C										
Freedom Elementary	Aug 2011		P	C									
William Winchester Elementary	Aug 2011		P	C									
Westminster West Middle	Aug 2012			P	C								
Charles Carroll Elementary*	Aug 2013				P	C							
Career & Technology Center *	Aug 2013				P	C							
Sandymount Elementary	Aug. 2014					P	C						
Carroll Springs	Aug. 2014					P	C						
Manchester Elemenatry School	Aug 2015						P	C					
Mechanicsville Elementary	Aug. 2015						P	C					
Taneytown Elementary	Aug. 2016							P	C				
Spring Garden Elementary	Aug 2016							P	C				
Westminster East Middle*	Aug 2016							P	C				
Westminster High	Aug 2017								P	C			
Westminster Elementary	Aug 2017								P	C			
South Carroll High	Aug. 2018									P	C		
Friendship Valley Elementary	Aug. 2018									P	C		
Oklahoma Road Middle	Aug. 2018									P	C		
Piney Ridge Elementary	Aug. 2019										P		
Winfield Elementary	Aug. 2019										P		

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P = Planning

C = Construction

CARROLL COUNTY PUBLIC SCHOOLS TEN YEAR FACILITIES MASTER PLAN CALENDAR

<i>CAPITAL RENEWAL PROJECTS (cont.)</i>	Completion Date	Fiscal Year										Notes
		10	11	12	13	14	15	16	17	18	19	
HVAC REPLACEMENTS/AIR-CONDITIONING IMPROVEMENTS (Projects are included in the FY2010-2015 County CIP.)												
Westminster High (System Replacement/Improvements)	TBD after Coordination of schedule and sequence of work with school's administration	C	C									Replacement of HVAC system components expected due to age and condition. Eligible for State systemic renovation funding. * These projects have modernizations scheduled in the construction calendar. If the modernization is included in the Carroll County CIP, then that replacement would occur with the modernization project. If the modernization is not recognized in the County CIP, then the replacement would occur as scheduled.
Carrolltowne Elementary (Boiler Replacement)		C										
Hampstead Elementary (System Replacement)		P	C									
Freedom Elementary (Heat Plant Conversion)			P	C								
Charles Carroll (Heat Plant Conversion)			P	C								
East Middle (Chiller/Boiler Replacement)			P	C								
Manchester Elementary (System Replacement)		S		P	C							
Piney Ridge (Boiler Replacement)					C							
Wm. Winchester Elem. (Boiler Replacement)*						C						
Northwest Middle (Boiler Replacement)						C						
South Carroll High (Boiler/Chiller Replacement)						C						
Mount Airy Elementary (Boiler Replacement)							C					
Carroll Springs (Boiler Replacement)							C					
Spring Garden Elementary (Boiler Replacement)								C				
Liberty High (Boiler Replacement)								C				
Sykesville Middle (Boiler Replacement)										C		
Runnymede Elementary (Boiler Replacement)										C		
Sandymount Elementary (Boiler Replacement)										C		
Westminster Elementary (Boiler Replacement)										C		

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CARROLL COUNTY PUBLIC SCHOOLS TEN YEAR FACILITIES MASTER PLAN CALENDAR

CAPITAL RENEWAL PROJECTS (cont.)	Completion Date	Fiscal Year										Notes
		10	11	12	13	14	15	16	17	18	19	
ELECTRICAL SERVICE UPGRADE												
Westminster High*	TBD						C					* Project would be incorporated into Modernization if recognized in the County CIP.
Westminster West Middle *								C				
FIRE ALARM REPLACEMENT												
Westminster West Middle *					C							* Project would be incorporated into Modernization if recognized in the County CIP.
Mt. Airy Elementary						C						
Westminster East Middle*							C					
South Carroll High								C				
Eldersburg Elementary									C			
North Carroll High										C		
WINDOW REPLACEMENTS												
Mount Airy Middle *					C							* Project would be incorporated into Modernization if recognized in the County CIP.
Sykesville Middle					C							
Westminster East Middle*						C						
South Carroll High School							C					
Carroll County Career & Technology Center*								C				
Westminster High School*									C			

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