

Frederick County Public Schools Capital Improvements Plan 2017-2022

Approved November 4, 2015

Priority	Project Title	7/1/2015-6/30/2016	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Estimated Project Cost*			
			7/1/2016-6/30/2017	7/1/2017-6/30/2018	7/1/2018-6/30/2019	7/1/2019-6/30/2020	7/1/2020-6/30/2021	7/1/2021-6/30/2022	Building Construction	Site Construction	Total Cost**	
	Existing FCMS Building	Study										
	LAND ACQUISITION											
	5th Middle School											
	13th Elementary School	A land proffer at Villages at Artrip could potentially be used for this school.										
1	New 12th Elementary School and Armel Elementary School Addition and Renovation	Proffered Property	Approval & Appropriation	Construction, July 2017 - June 2018	Open July 2018					\$23,200,000	\$3,600,000	\$32,400,000**
		Design										
2	4th High School	Approval, Appropriation, & Design		Construction, August 2017 - June 2020			Open July 2020			\$67,400,000	\$6,800,000	\$89,500,000**
										This is a July 2015 estimate made with an assumed opening date of August 2019.		
3	Robert E. Aylor Middle School Addition and Renovation		Preliminary Scoping & Scheduling								TBD	
4	James Wood High School Upgrades		Preliminary Scoping & Scheduling								TBD	
5	Sherando High School Parking Lot and Softball Field Improvements		Preliminary Scoping & Scheduling								TBD	
6	Apple Pie Ridge Elementary School Phase 2 Renovation		Preliminary Scoping & Scheduling								TBD	
7	Bass-Hoover Elementary School Phase 2 Renovations		Preliminary Scoping & Scheduling								TBD	
8	Administrative Office		Preliminary Scoping & Scheduling								TBD	

Potential future CIP projects:

- Dowell J. Howard Center Addition and Renovation
- Indian Hollow Elementary School Addition and Renovations
- 13th Elementary School
- 5th Middle School

** - Total cost includes building construction, site construction, land purchase, design, furniture, fixtures, and equipment, technology equipment, construction management, third party testing, water and sewer connection fees, commissioning, site studies and testing, review fees, surveying, legal, and other miscellaneous costs.

* - Project costs are estimated. These estimated costs will vary over time as the costs of design, materials, labor, and overhead change. Professional cost estimators currently use inflation factors of 2.0% to 2.5% annually.

Program capacity may be adjusted as necessary to meet instructional or budgetary needs, and as a result, school facility capacities may increase or decrease. See School Board regulation 409R-A.

Capital Improvements Plan 2017-2022 Project Description Sheet

Proposed Priority	Project Title	Begin Construction Date	Estimated Project Cost	Notes & Current Status
1	New 12th Elementary School and Armel Elementary School Addition and Renovation	July 2017	\$32,400,000	<ul style="list-style-type: none"> ▪ Student population growth will drive the need for both the new elementary school and the Armel ES addition/renovation. The two fastest growing developments over the next few years will be Snowden Bridge in the Stonewall attendance zone and Lake Frederick in the Armel attendance zone. ▪ The 12th Elementary School was first identified in the 2006-2011 CIP as the 13th ES but was renamed after closure of Senseny Road Elementary School. The Armel ES Addition and Renovation project was first identified in the 2015-2020 CIP. ▪ A master plan for the Snowden Bridge park and school site has been completed. We are in the process of hiring an architect for both the 12th ES and Armel.
2	4th High School	August 2017	\$89,500,000	<ul style="list-style-type: none"> ▪ Two of the high schools exceed program capacity by as much as 10%, while the other school is at 91% of capacity. As of September 30, 2015, enrollment at the high school level is 110 students over program capacity, as compared to 29 last year. A rezoning will not provide sufficient classroom space to accommodate projected growth. ▪ Funds have been appropriated for architectural design only. ▪ An 83 acre site beside Admiral Byrd has been purchased. ▪ This project was first identified in the 2005-2010 CIP. ▪ The project is in construction document phase.
3	Robert E. Aylor Middle School Addition & Renovation	TBD	TBD	<ul style="list-style-type: none"> ▪ This project is needed to modernize the facility and to improve delivery of instruction. ▪ The infrastructure needs have grown so critical at this facility, which was opened 46 years ago, that necessary repair/replacement has begun with a new roof and will continue with other critical repairs. The next major repair is replacement of the classroom HVAC units. Replacing classroom HVAC units could be more effectively accomplished as part of the renovations and additions, because the renovations and additions will rearrange the heating and cooling load in the building. ▪ OWPR completed phase 1 of a condition study on the building in September 2013, with the conclusion that 85% of walls are load-bearing and the roof structure is low by modern standards. Further study is needed. ▪ This project was first identified in the 2004-2009 CIP. ▪ There has been some initial scoping work done.
4	James Wood High School Upgrades	TBD	TBD	<ul style="list-style-type: none"> ▪ This school was opened 35 years ago. Facility modernization is the driving need for this project, including replacement of HVAC, updated plumbing, improved delivery of instruction, science labs, classroom technology, electrical capacity upgrades, and safety issue projects such as upgrading the fire alarm system. ▪ This project was first identified in the 2006-2011 CIP. ▪ Scoping has not been started on this project.

Proposed Priority	Project Title	Begin Construction Date	Estimated Project Cost	Notes & Current Status
5	Sherando High School Parking Lot and Softball Field Improvements	TBD	TBD	<ul style="list-style-type: none"> ▪ This project will provide needed safety improvements for traffic circulation at arrival and dismissal. It will also provide a competition softball field on the school property. ▪ Studies to determine the scope of the transportation aspects of this project were completed in 2010. Additional master planning was completed in 2013. Ideally, this project would coordinate with development of the adjoining property. ▪ This project was first identified in the 2012-2017 CIP as the Sherando High School Parking Lot Improvement project.
6	Apple Pie Ridge Elementary School Phase 2 Renovation	TBD	TBD	<ul style="list-style-type: none"> ▪ This school was opened 41 years ago. Facility modernization is the driving need for renovating this open classroom concept school. Infrastructure needs to be addressed include life safety systems, electrical system capacity, and fire walls and zones. ▪ This project was first identified in the 2006-2011 CIP. ▪ \$1,000,000 was appropriated in the first quarter of 2008 for Phase I, which consisted of renovation of the kindergarten area and expansion of educational uses into an existing storage area. ▪ Preliminary scoping has been completed for the rest of the building.
7	Bass-Hoover Elementary School Phase 2 Renovations	TBD	TBD	<ul style="list-style-type: none"> ▪ This school was opened 40 years ago. Facility modernization is the driving need for renovating this open classroom concept school. Infrastructure needs to be addressed include life safety systems, electrical system capacity, fire walls and zones, and flooring. ▪ This project was first identified in the 2006-2011 CIP. Kindergarten classrooms were constructed as part of the Elementary School Classroom Additions project. ▪ Preliminary scoping has been completed.
8	Administrative Office	TBD	TBD	<ul style="list-style-type: none"> ▪ Student population growth, safety, and facility modernization are the driving needs to update this 54 year old building. The building was designed as an elementary school and so is an inefficiently arranged office building. Office space is lacking. Conference and professional development space is lacking. ▪ This project was first identified in the 2007-2012 CIP as renovation of the FCMS building for offices. ▪ Preliminary scoping was undertaken in the second quarter of 2005. Several different options have been discussed, including renovations to the existing administrative office, renovation of FCMS, construction of a new building in front of the existing administrative office, and construction of a joint office complex with the County. All of these ideas have been set aside and new scoping is needed. ▪ Two additions have been constructed to the existing building, one for the Instructional Department, the other for the Finance Department. Even with these additions, personnel remain in trailers on the grounds.

CIP

2016-2017 Capital Improvements Plan

Departmental Project Summary Sheet

Department: Frederick County Public Schools

New and Carry Over Project Requests (from Proposed Funding Sources tables):

Dept. Priority	Project Title	Prior to FY 2016/17 Cost	FY 2016/17 Cost	FY 2017/18 Cost	FY 2018/19 Cost	FY 2019/20 Cost	FY 2020/21 Cost	FY 2021 and Beyond Cost	Long Range Comprehensive Plan Projects	TOTAL CIP Cost
1	New 12th ES and Armel ES Addition and Renovation	\$2.0M	\$17.6M	\$12.8M						\$32.4M
2	4 th High School	\$6.0M	\$13.7M	\$27.4M	\$27.4M	\$15.0M				\$89.5M
3	Robert E. Aylor MS Addition and Renovation									TBD
4	James Wood HS Upgrades									TBD
5	Sherando HS Parking Lot and Softball Field Improvements									TBD
6	Apple Pie Ridge ES Phase 2 Renovation									TBD
7	Bass-Hoover ES Phase 2 Renovations									TBD
8	Administrative Office									TBD

CIP

2016-2017 Capital Improvements Plan

Individual Project Description and Justification Form

Project Name: **New 12th Elementary School and Armel ES Addition and Renovation**

Department: **Frederick County Public Schools**

Department Contact Person: **Wayne Lee**

Phone Number: **(540) 662-3889 x88249**

Email: **leew@frederick.k12.va.us**

Location of Project: **TBD**

Magisterial District: **12th ES: Stonewall**

Department Project #: **1**

**(Attendance Zone: TBD); Armel:
Shawnee (Attendance Zone: Opequon
and Shawnee)**

Project Description: Give a brief (1-2) paragraph description of what the project includes. Provide basic information, such as the location, size, acreage, floor area, capacity, etc.

The 12th ES will have a floor area of approximately 100,000 square feet and will be located in Snowden Bridge. The facility will be designed to accommodate a student membership of 742.

Armel ES opened in 1991 and has served continuously as a K-5 elementary school since that time. The school contains 70,281 square feet and has a program capacity of 590 students. As of October 31, 2015, the school has 579 students. Ten classrooms will be added to Armel ES, to accommodate the additional growth at Lake Frederick. The existing facility will be updated as needed and core areas partially renovated to serve the additional students.

Project Justification:

Please describe the need for this project and justify the proposed location of the project.

The 12th ES project will address anticipated growth in student enrollment in the school division in General and in the Stonewall, Redbud Run, and Apple Pie Ridge elementary school attendance zones in specific over the next several years.

Armel Elementary School is in good condition; however, growth in the attendance zone will need to be addressed through the addition of classrooms to the facility. An attendance rezoning was completed two years ago as part of the implementation of full-day kindergarten. Addressing the growth issue at Armel was studied as a part of this rezoning. Four areas were identified to be rezoned to another school to offset the additional growth at Lake Frederick. None of the four options provided a complete and satisfactory solution. One option would have put Armel outside of its own attendance zone. A second would have split a neighborhood and sent some of the neighborhood to a school further away. A third would have simply relocated the growth issue to another school. The fourth option was adopted, but only moved ~50 students, a temporary reprieve from growth pressures.

Legal Requirement:

Is the project required in order to meet a State or Federal mandate or some other legal requirement?

Completion of this project will assist in maintaining State-recommended teacher-to-student ratios, assist in providing necessary services to special-needs populations, and assist in accommodating students and staff with disabilities.

Conformance to the Comprehensive Plan:

Does the project conform to, or contribute to the attainment of the goals and objectives of the 2030 Comprehensive Plan? Is the project consistent with established policies?

This project contributes to improving educational services to Frederick County students by providing sufficient school capacity and by providing a facility that meets modern standards. This facility will meet or exceed all Virginia Department of Education's new construction requirements for elementary schools. This project is consistent with established policies and procedures of the Frederick County School Board.

Public Health, Safety, or Welfare:

Does the project improve conditions affecting health, safety, or welfare? Does it eliminate a clear health or safety risk?

This proposed project will assist the school division and county government in meeting the needs of the community collectively and citizens individually in Frederick County.

Department of Planning and Development, Frederick County, VA

Construction Schedule: If the project will take several years to complete, outline the schedule here. Be sure to include any work that might have been done in previous years, including studies or other planning.

For both schools, planning, design, permit approval, appropriation, and construction should take approximately 30 months.

Estimate Cost (This is based on an estimated done in September 2014. The estimate was done with a planned opening date of August 2017. Delay of the opening to August 2018 will have inflationary impacts.):

PROPOSED EXPENDITURES

Element	Prior to FY 2016/17	1 st FY 2016/17	2nd FY 2017/18	3rd FY 2018/19	4th FY 2019/20	5th FY 2020/21	Beyond FY 2021	Long Range Comprehensive Plan Projects	Total
Planning, Surveying, & Design	\$0.8M	\$0.8M							\$1.6M
Land Acquisition									
Site Preparation & Improvements			\$3.2M						\$3.2M
Construction			\$23.9M						\$23.9M
Furniture and Equipment			\$2.1M						\$2.1M
Other			\$1.6M						\$1.6M
TOTAL	\$0.8M	\$0.8M	\$30.8M						\$32.4M

Basis of Cost Estimates: Check one of the following. *If you want to provide more detailed information on the estimate, please do so in the space provided.*

- Cost of comparable facility or equipment "Preliminary" estimate, (e.g. no other basis for estimate, guesstimate)
 From cost estimate provided by an engineer, architect, or vendor From bids received
 Other (please explain) Cost per square foot from the estimate for the 12th ES was applied to Armel

Department of Planning and Development. Frederick County, VA

Source of Funding: Indicate the projected amount for each funding source.

PROPOSED FUNDING SOURCES

Element	Prior to FY 2016/17	1st FY 2016/17	2nd FY 2017/18	3rd FY 2018/19	4th FY 2019/20	5th FY 2020/21	Beyond FY 2021	Long Range Comprehensive Plan Projects	Total
General Fund	\$2.0M								\$2.0M
Other Fund									
State Grants									
Bonds and Debts		\$17.6M	\$12.8M						\$30.4M
Other Fund-raising									
TOTAL	\$2.0M	\$17.6M	\$12.8M						\$32.4M

Please describe the source of funding (i.e. type of grant):

Virginia Public School Authority Bonds Proffers

CIP

2016-2017 Capital Improvements Plan

Individual Project Description and Justification Form

Project Name: **Fourth High School**

Department: **Frederick County Public Schools**

Department Contact Person: **Wayne Lee**

Phone Number: **(540) 662-3889 x88249**

Email: **leew@frederick.k12.va.us**

Location of Project: **1669 Front Royal Pike**

Magisterial District: **Shawnee (Attendance zone: TBD)**

Department Project #: **2**

Project Description: Give a brief (1-2) paragraph description of what the project includes. Provide basic information, such as the location, size, acreage, floor area, capacity, etc.

The fourth high school project will serve students grades 9-12, have a program capacity of 1,725 students, and will address anticipated growth in high school student enrollment in the school division. The site is located at the end of Justes Drive behind Admiral Byrd MS. This school is designed for collaborative education, similar to the new Frederick County MS, with a variety of learning spaces to meet the needs of a variety of learning styles and to impart skills necessary in today's working world.

Project Justification:

Please describe the need for this project and justify the proposed location of the project.

This project will address expected growth in high school student enrollment in the school division over the next several years. We project that enrollment in the high schools by the fall of 2020 will be 4,253 students. High school program capacity is currently 4,050 students. To avoid overcrowding in the high schools, we need to construct the fourth high school in Frederick County to open in that time frame.

Legal Requirement:

Is the project required in order to meet a State or Federal mandate or some other legal requirement?

Completion of this project will assist in maintaining State-recommended teacher-to-student ratios, assist in providing necessary services to special-needs populations, and assist in accommodating students and staff with disabilities.

Conformance to the Comprehensive Plan:

Does the project conform to, or contribute to the attainment of the goals and objectives of the Comprehensive Plan? Is the project consistent with established policies?

This project contributes to improving educational services to Frederick County students by providing sufficient school capacity to meet projected enrollment trends and to meet modern facility standards. This facility will meet or exceed all Virginia Department of Education's new construction requirements for high schools. This project is consistent with established policies and procedures of the Frederick County School Board.

Public Health, Safety, or Welfare:

Does the project improve conditions affecting health, safety, or welfare? Does it eliminate a clear health or safety risk?

For the reasons mentioned above, this school will assist the school division and county government in meeting the needs of the community collectively and citizens individually in Frederick County.

Construction Schedule: If the project will take several years to complete, outline the schedule here. Be sure to include any work that might have been done in previous years, including studies or other planning.

Planning, design, permit approval, appropriation, and construction should take approximately 48 months.

Department of Planning and Development, Frederick County, VA

Estimate Cost (This is based on an estimated done in July 2015. The estimate was done with a planned opening date of August 2019. Delay of the opening to August 2020 will have inflationary impacts.):

PROPOSED EXPENDITURES

Element	Prior to FY 2017	1 st FY 2016/17	2 nd FY 2017/18	3 rd FY 2018/19	4 th FY 2019/20	5 th FY 2020/21	Beyond FY 2021	Long Range Comprehensive Plan Projects	Total
Planning, Surveying, & Design	\$3.9M	\$0.6M							\$4.5M
Land Acquisition	\$2.1M								\$2.1M
Site Preparation & Improvements			\$5.0M	\$2.0M	\$1.6M				\$8.6M
Construction			\$25.0M	\$30.0M	\$10.6M				\$65.6M
Furniture and Equipment					\$5.5M				\$5.5M
Other			\$1.1M	\$1.1M	\$1.0M				\$3.2M
TOTAL	\$6.0M	\$0.6M	\$31.1M	\$33.1M	\$18.7M				\$89.5M

Basis of Cost Estimates: Check one of the following. *If you want to provide more detailed information on the estimate, please do so in the space provided.*

- Cost of comparable facility or equipment "Preliminary" estimate, (e.g. no other basis for estimate, guesstimate)
 From cost estimate provided by an engineer, architect, or vendor From bids received
 Other (please explain)

Department of Planning and Development. Frederick County, VA

Source of Funding: Indicate the projected amount for each funding source.

PROPOSED FUNDING SOURCES

Element	Prior to FY 2017	1st FY 2016/17	2nd FY 2017/18	3rd FY 2018/19	4th FY 2019/20	5th FY 2020/21	Beyond FY 2021	Long Range Comprehensive Plan Projects	Total
General Fund	\$1.2M								\$1.2M
Other Fund	\$1.8M								\$1.8M
State Grants									
Bonds and Debts	\$3.0M	\$13.7M	\$27.4M	\$27.4M	\$15.0M				\$86.5M
Other Fund-raising									
TOTAL	\$6.0M	\$13.7M	\$27.4M	\$27.4M	\$15.0M				\$89.5M

Please describe the source of funding (i.e. type of grant):

Virginia Public School Authority Bonds
Proffers
Local County Dollars

CIP

2016-2017 Capital Improvements Plan

Individual Project Description and Justification Form

Project Name: **Robert E. Aylor Middle School Addition and Renovation**

Department: **Frederick County Public Schools**

Department Contact Person: **Wayne Lee**

Phone Number: **(540) 662-3889 x88249**

Email: **leew@frederick.k12.va.us**

Location of Project: **901 Aylor Road**

Magisterial District: **Opequon (Attendance zone: Back Creek, Opequon, & Shawnee.)**

Department Project #: **3**

Project Description: Give a brief (1-2) paragraph description of what the project includes. Provide basic information, such as the location, size, acreage, floor area, capacity, etc.

Robert E. Aylor Middle School opened in 1969 as a junior high and has served those grades since that time. The school contains 113,643 square feet and has a program capacity of 850 students serving grades 6-8. The building is in acceptable condition; however, several major areas need to be addressed in a renovation. Major areas of this renovation project include the following: reorganization and addition of classroom and storage space to better equip the building to support collaborative education, complete replacement of fire alarm and communication systems, upgrade of electrical and plumbing, and complete replacement of mechanical systems. Other areas to be addressed are security, reorganization of asphalted areas, and the installation of an emergency system.

Project Justification:

Please describe the need for this project and justify the proposed location of the project.

Robert E. Aylor Middle School is 46 years old and renovations are needed to a number of areas to ensure the economical and efficient operation of the school for years to come. The school was constructed as a junior high, where the school was arranged by department. Modern instruction requires that the school be arranged by grade and that a variety of learning spaces be provided (classroom, low intensity labs, high intensity labs, small collaborative spaces, large collaborative spaces, etc.) to meet the needs of a variety of learning styles and to impart skills necessary in today's working world.

Legal Requirement:

Is the project required in order to meet a State or Federal mandate or some other legal requirement?

Completion of this project will assist in maintaining State-recommended teacher-to-student ratios, assist in providing necessary services to special-needs populations, and assist in accommodating students and staff with disabilities.

Conformance to the Comprehensive Plan:

Does the project conform to, or contribute to the attainment of the goals and objectives of the 2030 Comprehensive Plan? Is the project consistent with established policies?

This project will contribute to improving educational services to Frederick County students by providing facilities that meet modern standards. This project is consistent with established policies and procedures of the Frederick County School Board.

Public Health, Safety, or Welfare:

Does the project improve conditions affecting health, safety, or welfare? Does it eliminate a clear health or safety risk?

This project will assist the school division and county government in meeting the needs of the community collectively and citizens individually in the Robert E. Aylor Middle School attendance zone.

Construction Schedule: If the project will take several years to complete, outline the schedule here. Be sure to include any work that might have been done in previous years, including studies or other planning.

Planning, design, permit approval, appropriation, and construction should take approximately 48 months.

Department of Planning and Development, Frederick County, VA

Estimate Cost (in 2015 dollars):

PROPOSED EXPENDITURES

Element	1st FY 2016/17	2nd FY 2017/18	3rd FY 2018/19	4th FY 2019/20	5th FY 2020/21	Beyond FY 2021	Long Range Comprehensive Plan Projects	Total
Planning, Surveying, & Design								
Land Acquisition								
Site Preparation & Improvements								
Construction								
Furniture and Equipment								
Other								
TOTAL								TBD

Basis of Cost Estimates: Check one of the following. *If you want to provide more detailed information on the estimate, please do so in the space provided.*

- | | |
|---|--|
| <input type="checkbox"/> Cost of comparable facility or equipment | <input type="checkbox"/> "Preliminary" estimate, (e.g. no other basis for estimate, guesstimate) |
| <input type="checkbox"/> From cost estimate provided by an engineer, architect, or vendor | <input type="checkbox"/> From bids received |
| <input type="checkbox"/> Other (please explain) | |

Department of Planning and Development. Frederick County, VA

Source of Funding: Indicate the projected amount for each funding source.

PROPOSED FUNDING SOURCES

Element	1st FY 2016/17	2nd FY 2017/18	3rd FY 2018/19	4th FY 2019/20	5th FY 2020/21	Beyond FY 2021	Long Range Comprehensive Plan Projects	Total
General Fund								
Other Fund								
State Grants								
Bonds and Debts								
Other Fund-raising								
TOTAL								TBD

Please describe the source of funding (i.e. type of grant):

Virginia Public School Authority Bonds

CIP

2016-2017 Capital Improvements Plan

Individual Project Description and Justification Form

Project Name: **James Wood High School Upgrades**

Department: **Frederick County Public Schools**

Department Contact Person: **Wayne Lee**

Phone Number: **(540) 662-3889 x88249**

Email: **leew@frederick.k12.va.us**

Location of Project: **161 Apple Pie Ridge Road**

Magisterial District: **Gainesboro
(Attendance zone is in Back Creek,
Gainesboro, and Stonewall.)**

Department Project #: **4**

Project Description: Give a brief (1-2) paragraph description of what the project includes. Provide basic information, such as the location, size, acreage, floor area, capacity, etc.

James Wood High School opened in 1980 and has served as a high school since that time. The school contains 234,095 square feet and has a program capacity of 1,400 students. Currently, the building serves grades 9-12. The building is in good condition; however, several major areas need to be addressed in a renovation. Major areas to be included in this renovation project are increased electrical service and distribution to support technology, technology cabling, hardware and its installation, upgrade of plumbing and mechanical systems, and modification of instructional areas to support modern instructional delivery.

Project Justification:

Please describe the need for this project and justify the proposed location of the project.

James Wood High School is 35 years old. Renovations and technological upgrades are needed to a number of areas to ensure effective, economical, and efficient operation of the school for years to come. This school will be renovated to be more like the 4th HS, the new Frederick County MS, and the renovated Aylor MS, with a variety of learning spaces to meet the needs of a variety of learning styles and to impart skills necessary in today's working world.

Legal Requirement:

Is the project required in order to meet a State or Federal mandate or some other legal requirement?

Completion of this project will assist in maintaining State-recommended teacher-to-student ratios, assist in providing necessary services to special-needs populations, and assist in accommodating students and staff with disabilities.

Conformance to the Comprehensive Plan:

Does the project conform to, or contribute to the attainment of the goals and objectives of the 2030 Comprehensive Plan? Is the project consistent with established policies?

This project contributes to improving educational services to Frederick County students by providing a facility that meets modern standards. This project is consistent with established policies and procedures of the Frederick County School Board.

Public Health, Safety, or Welfare:

Does the project improve conditions affecting health, safety, or welfare? Does it eliminate a clear health or safety risk?

This project will assist the school division and county government in meeting the needs of the community collectively and citizens individually in James Wood High School's attendance zone.

Construction Schedule: If the project will take several years to complete, outline the schedule here. Be sure to include any work that might have been done in previous years, including studies or other planning.

An architectural and engineering study will need to be conducted to determine the scope of work to be undertaken and provide preliminary cost estimates for the project. Planning, design, permit approval, appropriation, and construction should take approximately 36 months.

Department of Planning and Development, Frederick County, VA

Estimate Cost (in 2015 dollars):

PROPOSED EXPENDITURES

Element	1st FY 2016/17	2nd FY 2017/18	3rd FY 2018/19	4th FY 2019/20	5th FY 2020/21	Beyond FY 2021	Long Range Comprehensive Plan Projects	Total
Planning, Surveying, & Design								
Land Acquisition								
Site Preparation & Improvements								
Construction								
Furniture and Equipment								
Other								
TOTAL								TBD

Basis of Cost Estimates: Check one of the following. *If you want to provide more detailed information on the estimate, please do so in the space provided.*

- | | |
|---|--|
| <input type="checkbox"/> Cost of comparable facility or equipment | <input type="checkbox"/> "Preliminary" estimate, (e.g. no other basis for estimate, guesstimate) |
| <input type="checkbox"/> From cost estimate provided by an engineer, architect, or vendor | <input type="checkbox"/> From bids received |
| <input type="checkbox"/> Other (please explain) | |

Department of Planning and Development. Frederick County, VA

Source of Funding: Indicate the projected amount for each funding source.

PROPOSED FUNDING SOURCES

Element	1st FY 2016/17	2nd FY 2017/18	3rd FY 2018/19	4th FY 2019/20	5th FY 2020/21	Beyond FY 2021	Long Range Comprehensive Plan Projects	Total
General Fund								
Other Fund								
State Grants								
Bonds and Debts								
Other Fund-raising								
TOTAL								TBD

Please describe the source of funding (i.e. type of grant):

Virginia Public School Authority Bonds

CIP

2016-2017 Capital Improvements Plan

Individual Project Description and Justification Form

Project Name: **Sherando High School Parking Lot and Softball Field Improvements**

Department: **Frederick County Public Schools**

Department Contact Person: **Wayne Lee**

Phone Number: **(540) 662-3889 x88249**

Email: **leew@frederick.k12.va.us**

Location of Project: **185 S. Warrior Dr.** Magisterial District: **Opequon (Attendance**

Department Project #: **5** Zone: **Back Creek, Opequon, and Shawnee)**

Project Description: Give a brief (1-2) paragraph description of what the project includes. Provide basic information, such as the location, size, acreage, floor area, capacity, etc.

This project is being undertaken to address several traffic safety concerns identified over the years at Sherando High School and to address equity issues (there is no softball field at SHS). Two studies of the site have been conducted, and a master plan created. Concerns exist for pedestrians, school buses, student drivers, parents, and staff. Rearrangement of the site and the flow of traffic on the site are necessary to address these needs.

Project Justification:

Please describe the need for this project and justify the proposed location of the project.

This is a two-part project. For transportation safety, concerns exist on the school site at Sherando High School during arrival and dismissal. The students, many of their parents, and the staff necessary to serve them are exposed to these safety concerns on a daily basis. The flow of traffic at arrival is so slow that at times vehicles on Route 277 back up past Double Church Road.

For the softball field, SHS does not have a softball field on site, instead using a softball field in neighboring Sherando Park. This represents an equity issue between boys and girls sports and is contrary to FCPS' standpoint of equity between boys and girls sports.

Legal Requirement:

Is the project required in order to meet a State or Federal mandate or some other legal requirement?

Completion of this project will assist in providing as safe an environment as possible for our students, address equality issues, and help to accommodate students and staff with disabilities.

Conformance to the Comprehensive Plan:

Does the project conform to, or contribute to the attainment of the goals and objectives of the 2030 Comprehensive Plan? Is the project consistent with established policies?

This project contributes to improving educational services to Frederick County students by addressing safety concerns at Sherando High School. This project is consistent with established policies and procedures of the Frederick County School Board.

Public Health, Safety, or Welfare:

Does the project improve conditions affecting health, safety, or welfare? Does it eliminate a clear health or safety risk?

This project does address safety concerns at Sherando High School that have been identified and detailed in studies conducted by our engineer.

Construction Schedule: If the project will take several years to complete, outline the schedule here. Be sure to include any work that might have been done in previous years, including studies or other planning.

Planning, design, permit approval, appropriation, and construction should take approximately 30 months.

Department of Planning and Development, Frederick County, VA

Estimate Cost (in 2015 dollars):

PROPOSED EXPENDITURES

Element	1 st FY 2016/17	2 nd FY 2017/18	3 rd FY 2018/19	4 th FY 2019/20	5 th FY 2020/21	Beyond FY 2021	Long Range Comprehensive Plan Projects	Total
Planning, Surveying, & Design								
Land Acquisition								
Site Preparation & Improvements								
Construction								
Furniture and Equipment								
Other								
TOTAL								TBD

Basis of Cost Estimates: Check one of the following. *If you want to provide more detailed information on the estimate, please do so in the space provided.*

- | | |
|---|---|
| <input type="checkbox"/> Cost of comparable facility or equipment
<input type="checkbox"/> From cost estimate provided by an engineer, architect, or vendor
<input type="checkbox"/> Other (please explain) | <input type="checkbox"/> "Preliminary" estimate, (e.g. no other basis for estimate, guesstimate)
<input type="checkbox"/> From bids received |
|---|---|

Department of Planning and Development. Frederick County, VA

Source of Funding: Indicate the projected amount for each funding source.

PROPOSED FUNDING SOURCES

Element	1st FY 2016/17	2nd FY 2017/18	3rd FY 2018/19	4th FY 2019/20	5th FY 2020/21	Beyond FY 2021	Long Range Comprehensive Plan Projects	Total
General Fund								
Other Fund								
State Grants								
Bonds and Debts								
Other Fund-raising								
TOTAL								TBD

Please describe the source of funding (i.e. type of grant):

Virginia Public School Authority Bonds

CIP

2016-2017 Capital Improvements Plan

Individual Project Description and Justification Form

Project Name: **Apple Pie Ridge Elementary School Phase 2 Renovation**

Department: **Frederick County Public Schools**

Department Contact Person: **Wayne Lee**

Phone Number: **(540) 662-3889 x88249**

Email: **leew@frederick.k12.va.us**

Location of Project: **APRES**

Magisterial District: **Gainesboro**

(Attendance Zone: Gainesboro and Stonewall)

Department Project #: **6**

Project Description: Give a brief (1-2) paragraph description of what the project includes. Provide basic information, such as the location, size, acreage, floor area, capacity, etc.

Apple Pie Ridge Elementary School opened in 1974 and has served continuously as an elementary school since that time. The school contains 65,120 square feet and has a program capacity of 528 students.

Currently, the building serves grades K-5. The building is in good condition; however, several major areas need to be addressed, including open classroom space, ADA compliance, energy conservation, security, and upgrades of fire alarm, electrical, plumbing, and mechanical systems.

Project Justification:

Please describe the need for this project and justify the proposed location of the project.

Apple Pie Ridge Elementary School is 41 years old and renovation is needed to a number of areas to ensure the economical and efficient operations of the school for years to come.

Legal Requirement:

Is the project required in order to meet a State or Federal mandate or some other legal requirement?

Completion of this project will assist in maintaining State-recommended teacher-to-student ratios, assist in providing necessary services to special-needs populations, and assist in accommodating students and staff with disabilities.

Conformance to the Comprehensive Plan:

Does the project conform to, or contribute to the attainment of the goals and objectives of the 2030 Comprehensive Plan? Is the project consistent with established policies?

This project contributes to improving educational services to Frederick County students by providing a facility that meets modern standards. This project is consistent with established policies and procedures of the Frederick County School Board.

Public Health, Safety, or Welfare:

Does the project improve conditions affecting health, safety, or welfare? Does it eliminate a clear health or safety risk?

This project will assist the school division and county government in meeting the needs of the community collectively and citizens individually in the Apple Pie Ridge Elementary School attendance zone.

Construction Schedule: If the project will take several years to complete, outline the schedule here. Be sure to include any work that might have been done in previous years, including studies or other planning.

Planning, design, permit approval, appropriation, and construction should take approximately 36 months.

Department of Planning and Development, Frederick County, VA

Estimate Cost (in 2015 dollars):

PROPOSED EXPENDITURES

Element	1st FY 2016/17	2nd FY 2017/18	3rd FY 2018/19	4th FY 2019/20	5th FY 2020/21	Beyond FY 2021	Long Range Comprehensive Plan Projects	Total
Planning, Surveying, & Design								
Land Acquisition								
Site Preparation & Improvements								
Construction								
Furniture and Equipment								
Other								
TOTAL								TBD

Basis of Cost Estimates: Check one of the following. *If you want to provide more detailed information on the estimate, please do so in the space provided.*

- | | |
|---|--|
| <input type="checkbox"/> Cost of comparable facility or equipment | <input type="checkbox"/> "Preliminary" estimate, (e.g. no other basis for estimate, guesstimate) |
| <input type="checkbox"/> From cost estimate provided by an engineer, architect, or vendor | <input type="checkbox"/> From bids received |
| <input type="checkbox"/> Other (please explain) | |

Department of Planning and Development. Frederick County, VA

Source of Funding: Indicate the projected amount for each funding source.

PROPOSED FUNDING SOURCES

Element	1st FY 2016/17	2nd FY 2017/18	3rd FY 2018/19	4th FY 2019/20	5th FY 2020/21	Beyond FY 2021	Long Range Comprehensive Plan Projects	Total
General Fund								
Other Fund								
State Grants								
Bonds and Debts								
Other Fund-raising								
TOTAL								TBD

Please describe the source of funding (i.e. type of grant):

Virginia Public School Authority Bonds

CIP

2016-2017 Capital Improvements Plan

Individual Project Description and Justification Form

Project Name: **Bass-Hoover Elementary School Phase 2 Renovations**

Department: **Frederick County Public Schools**

Department Contact Person: **Wayne Lee**

Phone Number: **(540) 662-3889 x88249**

Email: **leew@frederick.k12.va.us**

Location of Project: **TBD**

Magisterial District: **Opequon (Attendance**

Zone: Opequon and Shawnee)

Department Project #: **7**

Project Description: Give a brief (1-2) paragraph description of what the project includes. Provide basic information, such as the location, size, acreage, floor area, capacity, etc.

Bass-Hoover Elementary School opened in 1975. The school contains 70,569 square feet and has a program capacity of 656 students.

Currently, the building serves grades K-5. The building is in good condition; however, several major areas need to be addressed. Renovations will address several major issues, including open classroom space, ADA compliance, energy conservation, security, and upgrades of fire alarm, electrical, plumbing, and mechanical systems. A building addition, Phase 1, has been done to maintain program capacity and prepare the building for full-day kindergarten.

Project Justification:

Please describe the need for this project and justify the proposed location of the project.

Bass-Hoover Elementary School is 40 years old and renovation is needed to a number of areas to ensure the effective, economical, and efficient operations of the school for years to come.

Legal Requirement:

Is the project required in order to meet a State or Federal mandate or some other legal requirement?

Completion of this project will assist in maintaining State-recommended teacher-to-student ratios, assist in providing necessary services to special-needs populations, and assist in accommodating students and staff with disabilities.

Conformance to the Comprehensive Plan:

Does the project conform to, or contribute to the attainment of the goals and objectives of the 2030 Comprehensive Plan? Is the project consistent with established policies?

This project contributes to improving educational services to Frederick County students by providing a facility that meets modern standards. This project is consistent with established policies and procedures of the Frederick County School Board.

Public Health, Safety, or Welfare:

Does the project improve conditions affecting health, safety, or welfare? Does it eliminate a clear health or safety risk?

This project will assist the school division and county government in meeting the needs of the community collectively and citizens individually in the Bass-Hoover Elementary School attendance zone.

Construction Schedule: If the project will take several years to complete, outline the schedule here. Be sure to include any work that might have been done in previous years, including studies or other planning.

Planning, design, permit approval, appropriation, and construction should take approximately 36 months.

Department of Planning and Development, Frederick County, VA

Estimate Cost (in 2015 dollars):

PROPOSED EXPENDITURES

Element	1st FY 2016/17	2nd FY 2017/18	3rd FY 2018/19	4th FY 2019/20	5th FY 2020/21	Beyond FY 2021	Long Range Comprehensive Plan Projects	Total
Planning, Surveying, & Design								
Land Acquisition								
Site Preparation & Improvements								
Construction								
Furniture and Equipment								
Other								
TOTAL								TBD

Basis of Cost Estimates: Check one of the following. *If you want to provide more detailed information on the estimate, please do so in the space provided.*

- | | |
|---|--|
| <input type="checkbox"/> Cost of comparable facility or equipment | <input type="checkbox"/> "Preliminary" estimate, (e.g. no other basis for estimate, guesstimate) |
| <input type="checkbox"/> From cost estimate provided by an engineer, architect, or vendor | <input type="checkbox"/> From bids received |
| <input type="checkbox"/> Other (please explain) | |

Department of Planning and Development. Frederick County, VA

Source of Funding: Indicate the projected amount for each funding source.

PROPOSED FUNDING SOURCES

Element	1st FY 2016/17	2nd FY 2017/18	3rd FY 2018/19	4th FY 2019/20	5th FY 2020/21	Beyond FY 2021	Long Range Comprehensive Plan Projects	Total
General Fund								
Other Fund								
State Grants								
Bonds and Debts								
Other Fund- raising								
TOTAL								TBD

Please describe the source of funding (i.e. type of grant):

Virginia Public School Authority Bonds

CIP

2016-2017 Capital Improvements Plan

Individual Project Description and Justification Form

Project Name: **Administrative Office**

Department: **Frederick County Public Schools**

Department Contact Person: **Wayne Lee**

Phone Number: **(540) 662-3889 x88249**

Email: **leew@frederick.k12.va.us**

Location of Project: **TBD**

Magisterial District: **TBD**

Department Project #: **8**

Project Description: Give a brief (1-2) paragraph description of what the project includes. Provide basic information, such as the location, size, acreage, floor area, capacity, etc.

Frederick County Public Schools' administration has been located at the old Kline Elementary School building since 1983. Before the building was converted to offices, it had served as Kline Elementary School since 1961. The facility contains 27,992 square feet, including the 5,000 square foot Annex and the 2,400 square foot Finance Addition, but not including the four modular classroom units that are used for offices and work space.

Project Justification:

Please describe the need for this project and justify the proposed location of the project.

The 54 year old Administrative Offices building does not have enough office and meeting space, needs technology upgrades, and improvements to the mechanical, plumbing and electrical systems to meet modern code. Meeting space is at a premium, as we have only 2 sizeable meeting rooms. There are also building security and asbestos issues. Existing issues will become more pressing and new issues will appear as the district (and therefore the staff) grows.

Legal Requirement:

Is the project required in order to meet a State or Federal mandate or some other legal requirement?

This project will empower the Frederick County Public Schools' administrative staff to work more efficiently. This will improve our ability to monitor and maintain compliance with the Federal and State laws and regulations that govern education. This project will also address building code issues.

Conformance to the Comprehensive Plan:

Does the project conform to, or contribute to the attainment of the goals and objectives of the 2030 Comprehensive Plan? Is the project consistent with established policies?

This project contributes to improving educational services to Frederick County students by providing a facility that meets modern standards. This project is consistent with established policies and procedures of the Frederick County School Board.

Public Health, Safety, or Welfare:

Does the project improve conditions affecting health, safety, or welfare? Does it eliminate a clear health or safety risk?

This project will assist the school division and county government in meeting community and individual needs countywide.

Construction Schedule: If the project will take several years to complete, outline the schedule here. Be sure to include any work that might have been done in previous years, including studies or other planning.

Planning, design, permit approval, appropriation, and construction should take approximately 30 months.

Department of Planning and Development, Frederick County, VA

Estimate Cost (in 2015 dollars):

PROPOSED EXPENDITURES

Element	1st FY 2016/17	2nd FY 2017/18	3rd FY 2018/19	4th FY 2019/20	5th FY 2020/21	Beyond FY 2021	Long Range Comprehensive Plan Projects	Total
Planning, Surveying, & Design								
Land Acquisition								
Site Preparation & Improvements								
Construction								
Furniture and Equipment								
Other								
TOTAL								TBD

Basis of Cost Estimates: Check one of the following. *If you want to provide more detailed information on the estimate, please do so in the space provided.*

- | | |
|---|--|
| <input type="checkbox"/> Cost of comparable facility or equipment | <input type="checkbox"/> "Preliminary" estimate, (e.g. no other basis for estimate, guesstimate) |
| <input type="checkbox"/> From cost estimate provided by an engineer, architect, or vendor | <input type="checkbox"/> From bids received |
| <input type="checkbox"/> Other (please explain) | |

Department of Planning and Development. Frederick County, VA

Source of Funding: Indicate the projected amount for each funding source.

PROPOSED FUNDING SOURCES

Element	1st FY 2016/17	2nd FY 2017/18	3rd FY 2018/19	4th FY 2019/20	5th FY 2020/21	Beyond FY 2021	Long Range Comprehensive Plan Projects	Total
General Fund								
Other Fund								
State Grants								
Bonds and Debts								
Other Fund-raising								
TOTAL								TBD

Please describe the source of funding (i.e. type of grant):

Virginia Public School Authority Bonds