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# WISSAHICKON FACILITY STUDY

## Introduction

Presented herein is the Facilities Study for the Wissahickon School District dated September 2011.

In preparing this Facilities Study, a condition survey was performed of all of the District Buildings. Also, detailed questionnaires were completed by the building administration and maintenance staff. Tabs 2 and 3 provide a brief description of the District as a whole and the educational specifications adopted by the District as the District moves forward with preparing your buildings for the 21<sup>st</sup> century. The costs and items of work noted in this Tabs 4 through 8 address the existing conditions only and do not included costs for new additions or renovations based on program and space needs. Tabs 9 through 12 provide the background in the development of the options for the School Boards consideration as they prepare for the District's future needs.

The team of Breslin Ridyard Fadero Architects and D'Huy Engineering, Inc. would like to thank the Wissahickon School District for selecting us to prepare the Facilities Study. We would also like to thank the Wissahickon Board of School Directors, the Facilities Committee, Mrs. Judith Clark, Mr. Christopher Marchese, Ed.D., Mr. Wade Coleman, Mrs. Cathy Rossi, Mr. Ronald Saurman, Mr. Gerry Moore, and the respective facility staff members for assisting us with the background information and guiding us through the facilities.

This facility study for the Wissahickon School District serves several purposes.

- This study provides a framework for which facility needs can be discussed, prioritized, modified, and implemented by the District.
- It focuses on long-term or permanent solutions to the challenges and issues facing the District. This study is not intended to address temporary problems (such as unusually large class sizes in a given year), emergency or short-term situations. It will however provide a context within which such issues can be addressed efficiently by the Administration and the School Board.
- It follows the guidelines for a *Facilities Study* established by the Pennsylvania Department of Education (PDE) as part of the requirements for a PDE PlanCon approved project. School Board approval of a study such as this is necessary should the District seek state reimbursement for any future construction project. This study will be accepted by PDE as part of the PlanCon approval process for a period of up to two years following its acceptance by the School Board. After that, or sooner, if conditions warrant, this study should be revised or updated.

This report contains a number of inter-related components. Briefly, these are as follows:

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- **Population, enrollment, and capacity analysis:** The study looks at recent trends in regional population growth and school enrollment, along with various forecasts and projections for future growth. These are analyzed to produce a suggested range of student enrollment that the District should plan to accommodate in the next five to twenty years. In turn, the range of anticipated student enrollment is compared to the current capacity of the District's schools. The difference between anticipated enrollment and current capacity along with the District's curriculum provides an important measure for determining future building projects. The potential of any given school property to be developed through renovations, additions, or new construction will be examined.
- **Educational Specifications and Program analysis:** In addition to providing enough space for its students, the District must also be concerned with the type of space it has. This is influenced by the educational specifications and programs, community needs, and enrollment. For example, in recent years, the number of programs for Special Education has grown substantially. In many cases, implementing these programs has resulted in the loss of spaces used for other purposes such as classrooms. Technology, the infrastructure, and space required for computers, distribution rooms, and related equipment has also had an impact on the District's use of space. New programs for subjects or teaching methods not currently utilized must also be reviewed. This study will look at the program changes the District may be considering.
- **Conditions of Existing Facilities:** The existing facilities of the Wissahickon School District range in age from about 56 years old (Blue Bell elementary School) with the renovations at the Central Office being the newest work completed in 2005. The condition of the buildings range from poor to very good. This study will provide an overview of the condition of the buildings and grounds system at all of the facilities.
- **Energy Portfolio Surveys:** Within the District-wide Facilities Study, PDE now requires that an Energy Portfolio Survey be performed on each of the existing buildings and that a predictive energy portfolio be performed for each construction option being considered by the District. This information will allow the District to create a bench-mark for each facility so as the District moves forward with their energy saving opportunities; they will be able to measure the savings.
- **Cost Estimates:** Construction programs to address any or all of the above topics will require funding. This study will include order-of-magnitude cost estimates for increasing or realigning the student capacity of the District's schools, adding new programs, and/or repairing or renovating the District's existing facilities. Cost related to the implementation of any construction project will also be noted.
- **Priorities and Recommendations:** It is understood that the District will not be able to undertake all of the potential construction projects identified in this study.

## WISSAHICKON FACILITY STUDY

Consequently, it will be essential to prioritize them. It will be the responsibility of the District, stakeholders, and the Breslin-D'Huy team to analyze, revise, and refine these priorities in order to produce a final draft that can serve as a blueprint for the District moving forward in the coming years.



# WISSAHICKON SCHOOL DISTRICT FACILITIES STUDY

## **OVERVIEW OF THE SCHOOL DISTRICT**

The Wissahickon School District, established in 1964, is located about 17 miles north of Philadelphia, in the heart of suburban Montgomery County. Conveniently located near a network of major highways and public transportation, we are accessible to cultural centers, sporting events, state and national parks and recreational facilities. The District, covering 22.81 square miles of the Wissahickon Valley, has a population of 31,923 and serves approximately 4,200 students in the three contiguous communities of Lower Gwynedd Township, the Borough of Ambler, and Whitpain Township. There are a number of well known unincorporated communities located within the School District, including Springhouse, Penllyn and Gwynedd Valley in Lower Gwynedd Township and Centre Square, Blue Bell, and Broad Axe in Whitpain Township.

The character of the School District has developed principally as a residential area with sections of light industry, a commercial center and still undeveloped areas upon which a certain amount of gentleman farming is pursued. The area of the School District contains some of the more desirable suburban residential communities in the Philadelphia suburbs.

The local municipalities which comprise the School District are strictly zoned and these zoning regulations have led to development intended to balance residential growth with commercial and industrial growth in order to protect the investment of property owners and to channel future development into desired directions. An example of this growth along desired lines is the Blue Bell Office Campus located in Whitpain Township. This area has been designed for research and light industrial facilities.

Wissahickon is considered an excellent community in which to live and raise a family. Wissahickon students come from diverse socioeconomic and ethnic backgrounds. Occupations and educational backgrounds are diverse and all professions are well represented. A substantial portion of the population is composed of college graduates. Our community is comprised of residential areas, as well as several corporate headquarters, UNISYS, Rohm and Hass, Aetna Healthcare and McNeil Pharmaceuticals. These economic entities are very supportive of our schools by working with the students on ROBOTICS projects, providing scholarships, and offering their facilities for interested students and teachers to improve their expertise in their line of endeavor.

## **EDUCATIONAL MISSION, VISION, STRATEGIC GOALS & PROGRAM OVERVIEW**

The School District is governed by a nine-member Board of School Directors elected for four-year terms. The Superintendent is the Chief Executive Officer of the School District, with overall responsibility for all aspects of operations, including education and finance. The Business Administrator is responsible for budget and financial operations. Both of these officials are appointed by the Board of School Directors.

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The educational mission and vision of the Wissahickon School District is rooted in a strong belief in the empowerment of all students to be successful and responsible global citizens who will demonstrate success now and in the future. This mission and vision is captured by four distinct strategic goals that are aligned to the board goals for governers:

- To maximize the academic achievement of each Wissahickon School District student.
- To eliminate the achievement gap.
- To provide and maintain open communication within the school district and the community.
- To operate the school district with efficiency and effectiveness.

Students learn in four elementary schools (K-5), one elementary school (K-3), one middle school (6-8) and high school (9-12). Students in grades 9 through 12 may elect to attend North Montco Area Vocational-Technical School. The professional staff is comprised of 388 full and part time certificated teachers, 254 of whom have Master's degrees and 8 who hold Doctoral degrees.

In Kindergarten through Fifth Grades, planned instruction is provided to each student in the areas of language arts, mathematics, science, social studies, physical education & health, the arts, and library literacy.

In Sixth through Ninth Grades, planned instruction is provided to each student in language arts, mathematics, science, social studies, physical education & health, the arts, technology education, family consumer science, and career education.

In Ninth through Twelfth Grades, planned instruction is provided to students in language arts, mathematics, science, and social studies. In addition, students choose from a series of electives in business education, world languages, technology education, the arts, physical education & health, and college level advanced placement and dual enrollment courses. Students also can choose to attend North Montgomery County Career and Technical Institute for a variety of technical educational options.

The District programs for students K-12 using recommended guidelines for class sizes. The guidelines are listed below:

### Elementary Level

- Kindergarten & Grade 1 18-22 Students
- Grades 2 and 3 20-25 Students
- Grades 4 and 5 22-26 Students

### Middle School Level

- General Curriculum 25-28 Students
- Unified Arts 15-22 Students

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- Chorus/Band 25-45 Students

High School Level

- General Curriculum 25-28 Students
- Art/Tech. Ed./
- Family Consumer Science 20-24 Students
- TV Lab 10-15 Students
- Science Lab 20-24 Students
- Business 20-26 Students
- Chorus/Band 25-45 Students

# WISSAHICKON SCHOOL DISTRICT FACILITIES STUDY

## EDUCATIONAL SPECIFICATIONS

### *Elementary (K-5)*

In order to provide a learning environment that prepares our elementary students for the 21<sup>st</sup> century, each school's instructional spaces should allow for co-teaching and should fit comfortably 26 to 30 students. Sinks and bathrooms are essential for classrooms supporting students in grades K-2. Small nooks should be available for guided reading groups, small group instruction, and progress monitoring as well as to promote collaboration. Each classroom should allow for space to have learning centers around various stations that allow for hands-on educational experiences. Each classroom should have technology integrated into the classrooms with sufficient electrical outlets and data drops. The classrooms should also have natural light with room darkening shades and light switches allowing for multi-media projection.

Full-time special education classrooms should allow for space for specialized equipment and small learning centers. The classrooms should be equipped with plenty of outlets for technology devices and student assistive technology, as well as sinks and bathrooms for ADA needs. Due to the demands of supplemental materials and equipment, each classroom should have a storage space that closes and could be locked. Special Education is growing at every level and each school should have a shared resource room for pullout student instruction, IEP conferences as well as a transitional place from the general education.

The elementary guidance counselor offices should be highly visible to visitors and accessible for students and parents throughout the day. Small office spaces for school psychologists and behavioral specialists, which would allow for student testing, student groups, and storage of assessment material. For related service providers; such as OT/PT, instructional settings should include space to store equipment and materials, while providing a small area/room in each school for occupational and physical therapy treatments. Likewise, a location should be made available for speech and language support services where small group instruction is implemented.

The promotion of continued professional development for employees is essential and each school should have a room for teacher training, conference (video and face to face) as well as for large group instruction.

The HVAC system for the entire school should provide for good air quality, individual room temperature control and the systems should be quiet so as to promote the learning environment.

Each elementary school Library should be a Multi-Media Center. This will allow for students to expand their curriculum knowledge through private reading, listening centers

## WISSAHICKON SCHOOL DISTRICT FACILITIES STUDY

and technology access. Small group rooms should be available for project based learning/collaboration.

Each elementary school cafeteria should have high ceilings with round tables with seats built-in for up to eight students at a table to reduce noise level.

Each elementary school's gymnasium facility should include a stage so as to allow for school performances.

### **Wissahickon Middle School (6-8)**

The Wissahickon School District looks forward to servicing its students in a modern, functional, secure, flexible facility designed to meet the needs of our student population well into the twenty-first century. The facility should be equipped with modern classrooms, cafeteria, auditorium, technology, library media center, and physical education facilities. These areas should provide an environment that fosters high quality teaching and learning with a strong emphasis on student needs and safety.

The current grade configuration of the District's middle school is grades 6 through 8. The middle school schedule promotes using the teaming concept, interdisciplinary instruction, and the integration of learning experiences into daily classroom instruction. The District believes that the building infrastructure should facilitate and support the addition of emerging technologies to enhance student achievement.

Also, the District believes that a safe and secure learning environment is essential for student success. Therefore, the essential offices should be located at the front entrance of the building, equipped with modern security devices and cameras.

Sufficient classrooms should be planned for future growth of the community and School District. The classrooms should be spacious, proportional in shape, and set up to facilitate movement of students, furniture, and equipment into varying configurations. Rooms should be equipped to facilitate visual, auditory, and tactile learners while flexible enough to encourage collaborative work. The building must include music rooms, art rooms, science labs, and computer labs. In addition English as a Second Language, library instruction, guidance classes, technology classes with a focus on thematic unit and problem based learning integration, world language exploration, and a full range of special education services must be provided.

In Science, the classrooms should be sized to meet the needs of serving both as a classroom and lab room combined. Each lab should include sinks, gas, technology, and chemical hood meeting OSHA standards.

The Special Education program is ever changing with federal and state mandates. The classrooms must meet PDE and IDEA requirements. Recently, the district made a significant investment in returning the life skills to the secondary schools. This program

## WISSAHICKON SCHOOL DISTRICT FACILITIES STUDY

requires a learning environment that mirrors “real-life” conditions and applications, as defined by the curriculum.

The current guidance team at the middle schools is comprised of four guidance counselors and a part-time contracted mainstay counselor. The guidance office should be highly visible to students, parents, and other visitors. For students, it serves as an important source for information and support. The guidance office should be located within the building for ease of access by both students and the public. The suite should have sufficient room for three counselors, mainstay counselor, private conference area, secretarial units, storage and full computer access. Consideration should be given to providing a room for students and staff to participate in the Olweus Anti-Bullying Program, Career Education, and the Student Assistance Program (SAP). The area should provide a balance of openness and confidentiality while providing flexible workspaces for various auxiliary personnel.

A Middle School should include an Auditorium for use by the Students for assemblies, performances and by the community for theatre productions according to the district policy. The Auditorium should be sized appropriately for the current student body and future growth. The music department and related arts staff should have input with the hardware and technical requirements.

The student cafeteria should be large enough so that one cafeteria will be sufficient to handle the food-service needs of the current student population as well as future growth. A structural design that minimizes ambient noise is a necessity. Varied seating arrangements shall be incorporated to accommodate differing social settings for students. The serving area should be able to serve the students in 7-10 minutes allowing for ample time for students to eat and socialize.

In order to provide our students with 21<sup>st</sup> century educational opportunities and to maximize the learning opportunities for all students, the facility should contain computer labs, a distance learning center, and state-of-the-art Television and Production Studio

The Library or Multi-Media Center should be centrally located in the building to provide easy access to all students and faculty who wish to utilize the space for teaching. The Library should be separated into different learning environments such as individual study areas, group discussion or work-shop areas, as well as an area for the students to socialize during the day. An exterior door to the Library should be considered for use by the community when it is not being utilized by the district.

In the special area subjects, ample classroom space should be provided to promote and enhance learning opportunities for students. In Family and Consumer Science, classrooms should be equipped with the appropriate appliances to effectively deliver the curriculum. Ample storage space is also a necessity. In Technology Education, educational spaces should provide flexibility for students to work individually and in cooperative groups. The space should also be able to accommodate the project based

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approach that is prevalent in the Technology Education curriculum. The Art classrooms should allow for ample working and storage space to accommodate a variety of student needs. The rooms should have sinks and allow for natural light to penetrate the classroom.

The Physical Fitness area of the Middle School should be sized appropriately to support the current and future student body. A Gymnasium with a minimum of four teaching stations should be provided to support the Middle School indoor athletic program as well as ancillary spaces such as a fitness center, auxiliary gymnasium, and locker rooms should be provided to promote the wellness component of the curriculum. The Gymnasium is to be utilized for curriculum purposes, intramural activities, athletic competitions, practices and community activities.

The music department requires sufficient space for the needs of the curriculum. The department requires adequate space for a band, orchestra, and choral program. Adequate space is critical for instrument and music storage. Small group practice rooms are also necessary to deliver the program.

Technology should be integrated in all areas of the building with adequate power and data connections.

All teaching spaces and particularly classrooms should have windows to provide natural light. The rooms should also have room darkening shades and light switches to allow for room multi-media projection needs when required.

The HVAC system for the entire school should provide for good air quality, individual room temperature control and the systems should be quiet so as to promote the learning environment.

### **High School (9-12)**

The learning environment at the high school must be one that is student-centered and designed for “hands-on learning”, promoting student autonomy and independence for the 21<sup>st</sup> Century Learner. Space should exist for active participation providing opportunities for integrating disciplines and easy access to tools of exploration. Classrooms should be spacious to provide for different learning configurations including small group work and use of technology. All spaces to facilitate learning should allow for movement, collaborative learning opportunities, collaborative instruction and technology. Instructional areas should promote a learning community concept that accommodates a variety of instructional strategies and student grouping approaches characterized as flexible, sense of community, easy supervision, general purpose learning labs and classrooms, teacher center, small group rooms, tutoring office, science labs and special needs rooms. Outdoor sites should serve as a proactive learning environment as well. Design and construction methodology must include a high degree of flexibility to accommodate program changes in the future. Our 9<sup>th</sup> grade academy should be

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configured as a school within a school, allowing teachers the ability to team with one another and integrate the learning experiences of the students.

Science instruction should have large classroom space to instruct and have access to lab space. Labs must be equipped with the necessary equipment such as gas, water, sinks, technology, and storage.

Art department needs a suite of classroom space to provide the various genres instructed in art including ceramics, digital photography, display areas, space that has the ability to be darkened for sculpture design, storage area.

Physical Education facility should continue to provide for two gyms, locker room space for home and visiting teams and girls and boys. The Physical Education department also needs office space for a number of areas, weight room, practice rooms, fitness and training room and storage space.

The music department requires classroom space, practice space for voice training and instrument instruction—seating in classrooms may need stadium type seating. There is also a need for storage of instruments and music uniforms. Display boards for programs and announcements would enhance the area.

To address STEM initiatives the Technology Education Department teaching space must be flexible and allow provisions for computer use, investigating new and emerging technology. The classroom space must address future curriculums, such as; engineering/robotics, communication, graphics, digital production, and architecture. Technology must consider both cable and wireless and focus on special presentations with white boards and flat screens and a physical layout that considers instructional learning, common spaces for small specialized grouping, media and large group and problem solving that provides for competitive and multi-task opportunities. The areas must be locations that students can work together, have the ability for group work, digital connections—content, open areas, presentations, media production and access areas. TV lab and production booth requires upgrades, such as space, storage and technology.

The Family and Consumer Sciences should be organized in close proximity to one another to allow for maximum effort. Space should be equipped with industrial appliances to effectively deliver the curriculum. Ample storage and space for movement is required. Program planning for our new “WISSAHICKON COOKS” TV program should enable additional space as it now enriches and could enhance the opportunities provided in Consumer Science and TV Production.

Significant changes are needed to the library. In order to accommodate the 21<sup>st</sup> Century learner, the library should be transformed to a Library/Media Center. The location should include increased technology, spacing for large and small group instruction, while enhancing the visual appearance of the room.



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Upon entry to the school, the main office should house key administrative personnel and guidance services. Additional administrative personnel should be strategically placed throughout the facility to ensure there is a focus on safety.

The facility should include a state of the art Auditorium that seats the entire student body. The facility should have a balcony to accommodate large musical and theatrical productions. The facility should include state of the art sound and lighting equipment which are controlled by a “pit” that does not obstruct the view of the audience.

The high school facility should include a collegiate standard natatorium. The natatorium should be part of the high school as both the swim teams and water polo teams are part of the high school athletic program. The pool should have a minimum of eight lanes; a diving area and width to provide water polo matches that provide competitive and equitable matches. Locker rooms, spectator areas, office, storage and display cases and spaces are needed for awards and records.

A single area is needed to accommodate student dining, teacher dining, and small group dining (special needs students who need a smaller area). These smaller areas should be able to be visible for safety and security but allow space for students unable to dine in a large, often loud area. A School store and possible multi-space area for parent volunteer and community purpose space should be provided. The dining space should lend itself to the ability to move outside for outside seating in good weather. This space should be equipped with benches, tables, and receptacles. The area should utilize the natural environment equipped with trees for shade, grass, shrubs and flowers.

In order to create the HS of the future, dedicated spaces are needed for students to allow peer-to-peer interaction as well as teacher to student interaction. Space for students to use to meet with clubs, sports teams, study groups.

The corridors and common areas of the high school should include an extensive display area. Common spaces should facilitate positive student behavior and attitudes about school. The building should have wide passing areas, open stairways, bright colors, artificial light and natural day lighting that is open, bright and creates a thriving learning environment.

Technology should be integrated in all areas of the building with adequate power and data connections.

All teaching spaces and particularly classrooms should have windows to provide natural light. The rooms should also have room darkening shades and light switches to allow for room multi-media projection needs when required.

The HVAC system for the entire school should provide for good air quality, individual room temperature control and the systems should be quiet so as to promote the learning environment.

<b>School</b>	Blue Bell Elementary
<b>Description:</b>	
<b>Total Sq. Ft:</b>	61,000
<b>Date Built:</b>	1955, 1957, 1988
<b>HVAC Renovations:</b>	

Space	Floors	Bases	Walls	Ceilings	Soffits	Casework	Marker/Tack Boards	Multi-Media System	Condition	Comments
LOBBY	VCT	VB	CT/GYP BD	AP	GYP BD	NA	NA	NA	FAIR	WOOD PANELS ARE DELAMINATING
CORRIDORS	VCT	VB	CT/GYP BD/WD	AP	GYP BD	NA	NA	NA	FAIR	WOOD VISION PANELS-DOORS IN FAIR SHAPE
OFFICE	VCT/CARP	VB	CMU	AP	GYP BD	NA	NA	NA	FAIR	
NURSE	VCT	VB	CT	AP	NA	NA	NA	NA	FAIR	
MULTI-PURPOSE RM	WD	S	CMU	AP	NA	NA	NA	NA	FAIR	WD FLOOR BEYOND REFINISHING
STAGE	WD	WD	CMU	STRUC	NA	NA	NA	NA	FAIR	
CLASSROOM	VCT	VB	CMU/WD	AP	GYP BD	WD	DM	SB	FAIR	
LIBRARY	CARP	VB	GYP BD/CMU	GYP BD/AP	GYP BD	WD	NA	NA	FAIR	CARPET IS TORN
MUSIC	CARP	VB	PANELS	AP	NA	NA	DM	NA	POOR	TEMPORARY CLASSROOMS
ART	VCT	VB	GYP BD/CMU	AP	NA	WD	NA	NA	FAIR	
KINDERGARTEN	VCT	VB	GYP BD/CMU	AP	NA	WD	DM	SB	FAIR	
KITCHEN	EPOXY	EPOXY	CMU	AP	GYP BD	NA	NA	NA	FAIR	
TOILETS	CT	CT	CT/CMU	AP	NA	NA	NA	NA	FAIR	
GYMNASIUM	WD	S	CMU	STRUC	NA	NA	NA	NA	FAIR	WD FLOOR BEYOND REFINISHING
STAGE	WD	WD	CMU	STRUC	NA	NA	NA	NA	FAIR	

AP - Acoustic Panel  
 AS - Acoustic Spray  
 BRK - Brick  
 CARP - Carpet  
 CB - Chalkboard  
 CMU - Concrete Masonry Unit  
 CONC - Concrete  
 CT - Ceramic Tile  
 DM - Dry Marker Board  
 GFB - Ground Face Block  
 Gyp Bd - Gypsum Wall Board  
 MB - Metal Base  
 MP - Metal Panels  
 P LAM - Plastic Laminate  
 P - Plaster  
 PV - Poured Vinyl  
 QT - Quarry Tile  
 RF - Resilient Flooring  
 RU - Rubber  
 S - Steel  
 SB - Smart Board  
 STRUC - Exposed Structure  
 SV - Sheet Vinyl  
 TER - Terrazzo  
 TP - Tectum Panels  
 TT - Terrazzo Tile  
 VB - Vinyl Base  
 VCT - Vinyl Composition Tile  
 VF - Vinyl Fabric  
 WD - Wood



<b>School</b>	Shady Grove
Description:	
Total Sq. Ft:	102,000
Date Built:	1956, 1975, 1989, 1990
HVAC Renovations:	

Space	Floors	Bases	Walls	Ceilings	Soffits	Casework	Marker/Tack Boards	Multi-Media System	Condition	Comments
LOBBY	TER-MARBLE		STONE	NA	NA	NA	NA	NA	GOD	
ADMINISTRATION	CARP/VCT	VB	GYP BD	NA	NA	NA	NA	NA	GOOD	
LIBRARY	CARP/VCT	VB	CMU	AP	WD/GYP BD	NA	NA	NA	FAIR	
UPPER CLASSROOM	VCT	VB	VCT/CMU/GYP BD	AP	NA	NA	DM	SB	GOOD	
GYM	WD-PARK	SB	CMU/WD	PER PANEL STRUCT GYP BD	NA	NA	NA	NA	GOOD	
TOILETS	CT	CT	CT/GYP BD	GYP BD	NA	NA	NA	NA	POOR	
CORRIDOR	TER/VCT	VB	GYP BD/WD/CT	AP	GYP BD	NA	NA	NA	POOR	
STAGE	WD	WD	CMU	STRUC	NA	NA	NA	NA	GOOD	
STAIR	TER	CT	CT/GYP BD	AP/P	P	NA	NA	NA	FAIR	
STAIR	TER	STONE	STONE	AP/P	NA	NA	NA	NA	FAIR	WALL LEAKS
CATERIA	VCT	VB	CMU/CT	AP	GYP BD	NA	NA	NA	POOR	
KITCHEN	QT	QT	CT	AP	NA	NA	NA	NA	POOR	
ART	VCT	VB	CMU	AP	NA	NA	DM	NA	FAIR	
MUSIC	VCT/CARP-RISER	VB	CMU/AS	AP	GYP BD/AS	DM	DM	NA	GOOD	
CHORAL	CARP	VB	CMU	AP	NA	NA	DM	NA	GOOD	

AP - Acoustic Panel  
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 CONC - Concrete  
 CT - Ceramic Tile  
 DM - Dry Marker Board  
 GFB - Ground Face Block  
 Gyp Bd - Gypsum Wall Board  
 MB - Metal Base  
 MP - Metal Panels  
 P LAM - Plastic Laminate  
 P - Plaster  
 PV - Poured Vinyl  
 QT - Quarry Tile  
 RF - Resilient Flooring  
 RU - Rubber  
 S - Steel  
 STRUC - Exposed Structure  
 SV - Sheet Vinyl  
 TER - Terrazzo  
 TP - Tectum Panels  
 TT - Terrazzo Tile  
 VB - Vinyl Base  
 VCT - Vinyl Composition Tile  
 VF - Vinyl Fabric  
 WD - Wood

<b>School</b>	Lower Gwynedd
<b>Description:</b>	
<b>Total Sq. Ft:</b>	82,000
<b>Date Built:</b>	1996
<b>HVAC Renovations:</b>	

Space	Floors	Bases	Walls	Ceilings	Soffits	Casework	Marker/Tack Boards	Multi-Media System	Condition	Comments
LOBBY	TT	VB	CMU/WD	GYP BD/MB	GYP BD	NA	NA	NA	VERY GOOD	
OFFICE	CARP/VCT	CARP/VB	GYP BD/CMU	STRUC/AP	GYP BD	P LAM/WD	NA	NA	VERY GOOD	
MULTI-PURPOSE RM	SV	VB	CMU	MB/STRUC	GYP BD	NA	NA	NA	VERY GOOD	
CLASSROOM	VCT/CARP	VB/CARP	CMU	AP	NA	P LAM	DM	SB	GOOD	
MUSIC	CARP	CARP	CMU	AP	GYP BD	P LAM	DM	SB	VERY GOOD	
ART	VCT	VB	CMU	AP	GYP BD	P LAM	CB	SB	VERY GOOD	
TOILETS	TT	TT	CMU	AP	NA	NA	NA	NA	VERY GOOD	
CORRIDOR	TT	VB	CMU	AP	NA	NA	NA	NA	GOOD	
STAIR	TT	VB	CMU	AP	GYP BD	NA	NA	NA	VERY GOOD	
LGT	CARP	CARP	CMU	AP	GYP BD	NA	DM	SB	VERY GOOD	
LIBRARY	CARP	CARP	CMU	GYP BD/MP	GYP BD	P LAM	NA	NA	VERY GOOD	
NURSE	VCT	VB	GYP BD	AP	NA	NA	NA	NA	VERY GOOD	
FACULTY	VCT/CARP	VB/CARP	GYP BD	AP	GYP BD	P LAM	NA	NA	VERY GOOD	

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<b>School</b>	Mattison Avenue
Description:	
Total Sq. Ft:	28,000
Date Built:	1966, 2002
HVAC Renovations:	

Space	Floors	Bases	Walls	Ceilings	Soffits	Casework	Marker/Tack Boards	Multi-Media System	Condition	Comments
CORRIDOR	TER	GFB	BRK/CMU	AP	GYP BD	NA	NA	NA	FAIR	
OFFICE	VCT/CARP	GFB/VB	CMU/BRK	AP	NA	NA	NA	NA	FAIR	
MULTI-PURPOSE ROOM	VCT	GFB	CMU	MP/PER METAL PANEL STRUC	WD	NA	NA	NA	FAIR	
CORRIDOR	TER	GFB	CMU	AP	NA	NA	NA	NA	FAIR	FIRE RATING ISSUES
STAIR	WD	GFB	CMU	MP/PER METAL PANEL STRUC	NA	NA	NA	NA	POOR	
TOILETS	CT	GFB	CMU	GYP BD	NA	NA	NA	NA	POOR	
HEAD START	VCT	VB	CMU	AP	NA	NA	DM	SB	FAIR	
STAIR	TER/CONC/VCT	GFB	CMU	AP	P	NA	NA	NA	FAIR	
CLASSROOM	VCT	GFB	CMU/MP	AP	GYP BD	WD	DM	SB	FAIR	CASEWORK IS POOR
LIBRARY	CARP	VB	GYP BD	AP	GYP BD	NA	NA	NA	GOOD	
2ND FLR CORRIDOR	VCT	GFB	CMU/BRK	AP	GYP BD	NA	NA	NA	FAIR	FIRE RATING ISSUES
ART	VCT	GFB	CMU/MP	AP	GYP BD	WD	DM	NA	FAIR	

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School	Middle School
Description:	
Total Sq. Ft:	182,000
Date Built:	1974, 1991, 2005
HVAC Renovations:	2005

Space	Floors	Bases	Walls	Ceilings	Soffits	Casework	Marker/Tack Boards	Multi-Media System	Condition	Comments
ATRIUM	TER	TER	BRK	GYP BD/AP	BUP BD	NA	NA	NA	GOOD	
MAIN OFFICE	CARP/VCT	VB	GYP BD/CMU	AP	GYP BD	NA	NA	NA	FAIR	
CORRIDOR (ADDITION)	VCT	VB	CMU	AP	NA	NA	NA	NA	GOOD	
CLASSROOM	CARP	VB	CMU	AP	NA	P LAM	DM	SB	FAIR	DOORS POOR
CAFETERIA	TER	GFB	CMU	AP	GYP BD	NA	NA	NA	FAIR	
MAIN CORRIDOR	VCT/RF	VB	CMU	AP	GYP BD	NA	NA	NA	FAIR	
KITCHEN	QT	GFB	CMU/GFB	AP	GYP BD	NA	NA	NA	FAIR	NO ANTI SLIP FLOOR TILE
SCIENCE/HOME EC	VCT	VB	CMU/MP	AP	NA	NA	DM	SB	FAIR	
BAND	CARP-RISERS	VB	CMU	AP	GYP BD	P LAM	DM	NA	FAIR	
OFFICE	CARP	VB	CMU/GYP BD	AP	GYP BD	P LAM	NA	NA	FAIR	
GYM	WD/RF	S	CMU/MP	STRUC	GYP BD	NA	NA	NA	FAIR	VINYL BLEACHER
OLD GYM	WD/RF	S	CMU/MP	STRUC	NA	NA	NA	NA	FAIR	VINYL BLEACHER
POOL	TER/CT	CT	CT/CMU	AP	GYP BD	NA	NA	NA	FAIR	
WEIGHT ROOM	RU	S	CMU	AP	NA	NA	NA	NA	POOR	
NEW LOCKER ROOM	CT	CT	CMU	AP	NA	NA	NA	NA	FAIR	
LARGE GROUP	RF/CARP	VB	CMU/WD	AP	GYP BD	NA	DM	NA	POOR	
STAIRS	TER	GFB	CMU	P	NA	NA	NA	NA	POOR	
LIBRARY	CARP/VCT	VB	CMU/GFB	AP/GYP BD/VF	GYP BD	WD/P LAM	NA	NA	FAIR	
GUIDANCE	CARP	VB	GYP BD/CMU	AP	GYP BD	P LAM	NA	NA	FAIR	

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<b>School</b>	High School
<b>Description:</b>	
<b>Total Sq. Ft:</b>	314,000
<b>Date Built:</b>	1961, 1974, 2000
<b>HVAC Renovations:</b>	

Space	Floors	Bases	Walls	Ceilings	Soffits	Casework	Marker/Tack Boards	Multi-Media System	Condition	Comments
PRESCHOOL	VCT	VB	CMU/MP	AP	GYP BD	P LAM	DM	NA	GOOD	VCT IS CRACKING
ADMINISTRATION	CARP	VB	GYP BD	AP	GYP BD	P LAM	NA	NA	FAIR	
CORRIDOR	TER	VB/CT	CT/WD/BRK/GYP BD	AP	AP	NA	NA	NA	FAIR	MURALS
TOILETS	TER	CT	CT/CMU	AP	NA	NA	NA	NA	POOR	FLOOR & TOILET PARTITIONS POOR
AUDION	CARP	VB	CMU/GYP BD	CLOUD/STRUC	GYP BD	NA	NA	NA	GOOD	
STAGE	WD (poor)	VB	CMU	STRUC	NA	NA	NA	NA	POOR	POOR FLOOR
UPPER CAFETERIA	TER	VB	CMU	AP	NA	NA	NA	TV	POOR	UNSTRUCK MORTAR JOINTS
KITCHEN	QT	QT	CT/GYP BD	AP	NA	NA	NA	NA	FAIR	
STAIRS	TER/RU	CT	CT/CMU	AP	GYP BD	NA	NA	NA	FAIR	SOME RUBBER TILE CRACKING
TYP. CLASSROOM	CARP	VB	CMU	AP	NA	NONE	DM	SB	POOR	CARPET POOR/WALLS, CEILING - GOOD
CORRIDOR/K WING	VCT	VB	CMU	AP	NA	NA	NA	NA	FAIR	LOCKERS TOP POOR
CORRIDOR/G WING	VCT	VB	CMU	AP	NA	NA	NA	NA	FAIR	PAINT HM - REPLACE DOORS
LIBRARY	CARP	VCT	CMU	AP	GYP BD	NA	NA	NA	GOOD	CARPET GOOD - PAINT WALLS
CORRIDOR/H WING	VCT	VB	BRK/CMU	AP	NA	NA	NA	NA	FAIR	P LAM COL WRAPS/PAINT RAILINGS /WALLS TREADS-POOR
OPEN STAIR	RU	VB	CMU	AP	GYP BD	NA	NA	NA	POOR	
CORRIDOR/C WING	VCT	VB	CMU	AP	NA	NA	NA	NA	FAIR	
SCIENCE CR/LAB	VCT/CARP	VB	CMU	AP	NA	WD	DM	SB-CR ONLY	GOOD	CARPET IN CR (POOR)/SOME VCT SHRINKAGE
ROUND GYM	PV/SV (TRACK)	VB	CMU	TP/CONC	CONC	NA	NA	NA	FAIR	WOOD BLEACHERS/UNRESILIENT FLOOR REPLACE FLOOR/PAINT WALLS/VINYL BLEACHER - UNRESILIENT FLOOR
SQUARE GYM	WD	DM	CMU	TP	NA	NA	NA	NA	FAIR	
UPPER LOCKER ROOM	CT	CT/QT	CMU/CT	AP	NA	NA	NA	NA	FAIR	TOILETS CRACKED STAIR TREADS
WEIGHT ROOM	SV	VB	CMU	AP	P	NA	NA	NA	FAIR	FORMER SHOP
BAND/CHORAL	CARP	VB	CMU	AP	GYP BD	P LAM	WB	NA	POOR	REPLACE DOORS
STAGE	WD/PAINT BLACK	VB	CMU	STRUC	GYP BD	NA	NA	NA	FAIR	
AUDITORIUM	CARP/CONC	VB	P/MP	CLOUD/STRUC	WD	NA	NA	NA	FAIR	
LARGE GROUP	CONC/CARP	VB	P/WD/MP	AP	WD	NA	DM	NA	FAIR	WD-DELAM. REPLACE CARPET-PAINT

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School	Administration Building
Description:	
Total Sq. Ft:	30,000
Date Built:	1966, 2005
HVAC Renovations:	

Space	Floors	Bases	Walls	Ceilings	Soffits	Casework	Marker/Tack Boards	Multi-Media System	Condition	Comments
LOBBY	CARP	CARP	GYP BD	AP	GYP BD/WD	NA	NA	NA	VERY GOOD	
CORRIDOR	CARP	CARP	GYP BD/CT	AP	NA	NA	NA	NA	VERY GOOD	
BOARD ROOM	CARP	CARP	GYP BD	AP	NA	NA	NA	NA	VERY GOOD	
OFFICE SUITES	CARP	CARP	GYP BD	AP	GYP BD	NA	NA	NA	VERY GOOD	
TOILETS	CT	CT	CT/GYP BD	AP	NA	NA	NA	NA	VERY GOOD	
LOUNGE	VCT	VB	GYP BD	AP	NA	WD	NA	NA	VERY GOOD	
COPY ROOM	VCT	VB	GYP BD	AP	NA	NA	NA	NA	GOOD	
RECEIVING	CONC	WD	CMU	AP	NA	NA	NA	NA	FAIR	
DOOR FRAMES NEED PAINT										

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<b>School</b>	Bus Garage
Description:	
Total Sq. Ft:	9,000
Date Built:	1956, 1975
HVAC Renovations:	

Space	Floors	Bases	Walls	Ceilings	Soffits	Casework	Marker/Tack Boards	Multi-Media System	Condition	Comments
GARAGE	CONC	NONE	CMU	AP	NA	NA	NA	NA	POOR	
OFFICE	VCT	VB	CMU	AP	NA	NA	NA	NA	GOOD	
CONFERENCE ROOM	VCT	VB	CMU	AP	NA	P LAM	DM	NA	FAIR	
CORRIDOR	VCT	VB	CMU	AP	NA	NA	NA	NA	FAIR	
STORAGE	CONC	NONE	CMU	AP	NA	NA	NA	NA	POOR	

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# WISSAHICKON SCHOOL DISTRICT

Building & Address	Roof Systems					
	Roof Type	Warrenty	Roof Insulation	Roof Area	Skylight Area	Ratio of Roof Area to Building Sq.
High School 521 Houston Road Ambler, PA 19002-3599	Art Room Area Garland High Performance BUR System - StressPly SA Minieral	25-year Partnership Pledge - 2009 #0900364-B	2" iso. minimum	224,356 Total Sq. Ft.	2,191 Sq. Ft. Total Area	0.7 to 1
	Dome (Round) Gymnasium Carlisle Sure-Seal System with 5 year Garland High Performance BUR System - White Knight	20 year 1986 Recoating - 2009 #0900364-D	2" iso. minimum	224,356 Total Sq. Ft.	2,191 Sq. Ft. Total Area	0.7 to 1
	Square Gymnasium Garland High Performance BUR System - StressPly IV Minieral	25-year Partnership Pledge - 2009 #0900364-C	2" iso. minimum	224,356 Total Sq. Ft.	2,191 Sq. Ft. Total Area	0.7 to 1
	Square Gymnasium Lobby/Finess/Guidance Garland High Performance BUR System - StressPly 4	20 Year - 2009 #0900364-A	2" iso. minimum	224,356 Total Sq. Ft.	2,191 Sq. Ft. Total Area	0.7 to 1
	Penthouse/Auditorium Garland High Performance BUR System - StressPly Elite	20 Year - 1995 #SP905386	2" iso. minimum	224,356 Total Sq. Ft.	2,191 Sq. Ft. Total Area	0.7 to 1
	Concession Stand/Locker Rooms Garland High Performance BUR System - stressPly Plus Mineral	20 Year - 1995 #SP950387	2" iso. minimum	224,356 Total Sq. Ft.	2,191 Sq. Ft. Total Area	0.7 to 1
	Library Garland High Performance BUR Sytem - StressPly "E"	20 Year - 2004 #0400207	2" iso. minimum	224,356 Total Sq. Ft.	2,191 Sq. Ft. Total Area	0.7 to 1
	Classrooms-North/West Sections of Building Allied Signal Black Armor RP-41-5 Coal tar pitch roof	25 year - 1995 #NO225950249	2" iso. minimum	224,356 Total Sq. Ft.	2,191 Sq. Ft. Total Area	0.7 to 1
	Classrooms-North - Original Building Allied Signal Black Armor RP-405 Coal tar pitch roof	25 year - 1995 #NO225940295	2" iso. minimum	224,356 Total Sq. Ft.	2,191 Sq. Ft. Total Area	0.7 to 1
	Science Wing Honeywell Black Armor RP-41-5 Coal tar pitch roof	25 year #NO225000397	2" iso. minimum	224,356 Total Sq. Ft.	2,191 Sq. Ft. Total Area	0.7 to 1
	Press Box PVC 60 mil with polyester fabric material	None	N/A	N/A	N/A	N/A
	Elevator area "Knuckle" EPDM Firestone Red Shield Roofing System	10 year #RB089841	2" iso. minimum	N/A	N/A	N/A

# WISSAHICKON SCHOOL DISTRICT

Building & Address	Roof Systems					
	Roof Type	Warrenty	Roof Insulation	Roof Area	Skylight Area	Ratio of Roof Area to Building Sq.
Middle School 500 Houston Road Ambler, PA 19002-3597	Original Building Hickman BUR System Pika Ply & Aluminum	20 year - 1990 # Not Provided	2" iso. minimum	107,000 Total Sq. Ft.	N/A	0.6 to 1
	Building Addition Hickman BUR System Pika Ply & Aluminum	20 year - 1991 # Not Provided	2" iso. minimum	107,000 Total Sq. Ft.	72 Sq. Ft.	0.6 to 1
	Entire Building Garland StressPly IV Smooth Energizer roofing system	10 year partnership pledge - 2006 #05000957	2" iso. minimum	107,000 Total Sq. Ft.	72 Sq. Ft.	0.6 to 1
Lower Gwynedd Elementary 571 Houston Road Ambler, PA 19002-3553	Pitched Roof CertainTeed Fiberglass Shingles, Landmark Brand	30 year - 1997 Reduction figure 1/360 per month # Not Provided	2" iso. minimum	54,000 Total Sf. Ft.	N/A	0.7 to 1
	Art/Music Room/Elevator - Flat Roofs Black Armor Roofing System Coal Tar Pitch BUR RP-61	20 year - 1997 #N0220970472	2" iso. minimum	54,000 Total Sf. Ft.	N/A	0.7 to 1
Shady Grove Elementary 351 West Skippack Pike Ambler, PA 19002-5198	Large Gymnasium Roof Garland High Performance BUR System StressPly	20 year - 1993 #SP930453	2" iso. minimum	68,000 Total Sf. Ft.	N/A	.7 to 1
	Remaining Building Black Armor Premier Series Coal tar Pitch RP-61-5 Roof	25 year - 1993 #M0225930095	2" iso. minimum	68,000 Total Sf. Ft.	N/A	.7 to 1
Stony Creek Elementary 1721 Yost Road Blue Bell, PA 19422	Black Armor Roofing System Coal Tar Pitch RP-615	25 year - 1997 #N0225070417	2" iso. minimum	60,000 Total Sf. Ft.	N/A	1 to 1
Blue Bell 801 Symphony Lane Blue Bell, PA 19422	Area A Black Armor Roofing System Coal Tar Pitch	25 year - 1996 #N0225960320	2" iso. minimum	61,000 Total Sq. Ft.	N/A	1 to 1
	Area B Garland High Performance BUR System, StressPly IV	20 year - 2008 #0800660	2" iso. minimum	61,000 Total Sq. Ft.	N/A	1 to 1
	Portable Classrooms Garland High Performance BUR System StressPly E Mineral	20 year - 1996 #SP60484	2" iso. minimum	61,000 Total Sq. Ft.	N/A	1 to 1
Mattison Avenue Elementary 131 Rosemary Avenue Ambler, PA 19002-4798	Garland High Performance BUR System, StressPly E UV	20 year - 2006 #06001672	2" iso. minimum	19,000 Sq. Ft.	528 Sq. Ft.	0.7 to 1
Administration Building 601 Knight Road Ambler, PA 19002-3496	Upper Roof Garland High Performance BUR System, StressPly IV Smooth	20 year - 2007 #0700719	2" iso. minimum	30,000 Total Sf. Ft.	N/A	1 to 1
	Lower Roof Garland High Performance BUR System, StressPly IV Smooth	20 year - 2008 #0800374	2" iso. minimum	30,000 Total Sf. Ft.	N/A	1 to 1
Bus Garage 800 School Road Blue Bell, PA 19422	Black Armor Roofing System Coal Tar Pitch RP-615	25 year - 1996 #N0225960362	2" iso. minimum	9,000 Sf. Ft.	N/A	1 to 1

## **WISSAHICKON HIGH SCHOOL**

### **HVAC SYSTEM**

#### **Central Heating and Cooling Plant**

Heating and cooling is generated by 3 direct fired, dual fuel, absorption chiller/heaters. The units are manufactured by York and were installed during the 1999 renovations. There are 3 cooling towers to provide heat rejection for the chillers. The towers were also installed during the 1999 renovations.

#### **Hot Water Distribution System**

The heating water distribution system is comprised of multiple primary and secondary pumps. There are bypass piping connections and valves to provide some redundancy on the primary pumps to each chiller/heater. All heating distribution equipment was installed during the 1999 renovations.

#### **Chilled Water Distribution System**

The chilled water distribution system is comprised of multiple primary and secondary pumps. There are bypass piping connections and valves to provide some redundancy on the primary pumps to each chiller/heater. There are 3 condenser water pumps to provide heat rejection flow from the chiller/heaters to the cooling towers. All cooling distribution equipment was installed during the 1999 renovations.

#### **Classrooms**

Classrooms are heated and cooled by fan-coil units with the majority of the classrooms having 2 fan-coil units located on the exterior wall in the classroom. Ventilation is provided by a number of roof mounted energy recovery units and a duct system to provide air in the classrooms.

#### **Science Classrooms**

Science Classrooms are heated and cooled by fan-coil units located above the classroom ceilings. Ventilation is provided by a roof mounted energy recovery unit and a duct system to provide air in the classrooms. Classrooms with laboratory exhaust hoods have supplemental air handling units to provide make-up air required when the exhaust hoods are operating.

#### **Round Gymnasium**

The Gymnasium is heated, cooled and ventilated by a roof mounted air handling unit with the outdoor ventilation air routed through a roof mounted energy recovery unit to pre-cool or pre-heat the ventilation air. The Locker Rooms in this area are heated by a number of hydronic cabinet heaters and the area is exhausted by a fan located in a mechanical room on the lower level of the Gym.

## **Gymnasium (Area F)**

The Gymnasium is heated, cooled and ventilated by air handling units located in mechanical rooms. The Locker Rooms in this area are heated by hydronic cabinet heaters and exhausted by a roof mounted exhaust fans.

## **Auditorium**

The Auditorium is heated, cooled and ventilated by an air handling unit that is located in a penthouse mechanical room. The outdoor ventilation air is routed through a sensible only heat exchanger to pre-cool or pre-heat the air.

## **Lecture Rooms**

Each of the 4 Lecture Rooms as well as the Corridor adjacent to the Lecture Rooms are heated, cooled and ventilated by an air handling unit that is located in a penthouse mechanical room. The unit is a multi-zone unit to provide individual temperature control to each Lecture Room. The outdoor ventilation air is routed through a sensible only heat exchanger to pre-cool or pre-heat the air.

## **Music Rooms**

There are 2 ceiling mounted air handling units to provide heating, cooling and ventilation for the Music Classrooms and Practice Rooms.

## **Library**

The Library is heated, cooled and ventilated by an air handling unit that is located in a penthouse mechanical room. The outdoor ventilation air is routed through a sensible only heat exchanger to pre-cool or pre-heat the air.

## **Cafeteria (Area C)**

The Cafeteria is heated, cooled and ventilated by an air handling unit that is located in a penthouse mechanical room. The outdoor ventilation air is routed through a sensible only heat exchanger to pre-cool or pre-heat the air. The exhaust hood and fan in the Kitchen appear to part of the original system installed when the building was constructed.

## **Cafeteria (Area H)**

This Cafeteria is heated, cooled and ventilated by an indoor air handling unit that is located in a mechanical room. The Kitchen in this area is conditioned by a roof mounted energy recovery unit. All equipment was installed in 1999.

## **Administration**

The Administration area is heated and cooled by fan-coil units. In some rooms the fan-coil units are located on an exterior wall while other rooms are served by fan-coil units located above ceilings. Ventilation is provided by a roof mounted energy recovery units and a duct system to provide air to the rooms.

## **Audion**

The Audion is heated, cooled and ventilated by a roof mounted air handling unit that also contains an energy recovery heat exchanger to pre-treat the ventilation air. The Unit was installed in 2005.

## **Exhaust Systems**

The exhaust system were replaced during the 1999 renovations.

## **Terminal Heating Equipment**

Much of the terminal heating equipment was installed during the 1999 renovations.

## **Automatic Temperature Controls (ATC)**

The HVAC control system was installed by Siemens in 1999. The system utilizes electronic and pneumatic operators throughout.

## **WISSAHICKON MIDDLE SCHOOL**

### **HVAC SYSTEMS**

#### **Central Heating and Cooling Plant**

Heating is provided by 2 cast iron water boilers manufactured by Weil Mclain. The boilers were installed in 1974.

Chilled water is generated by modular water cooled chillers manufactured by Multi-Stack. The modular chiller was installed in 2005. There are cooling towers to reject heat form the chillers. The towers were rebuilt in 1995.

#### **Hot Water Distribution System**

Heating water is distributed by redundant base mounted pumps located in the boiler room. All heating distribution equipment was installed in 2005.

#### **Chilled Water Distribution System**

Chilled water is distributed by redundant base mounted pumps located in the boiler room. All cooling distribution equipment was installed in 2005.

#### **Classrooms**

Classrooms are heated, cooled and ventilated by variable air volume systems utilizing both fan powered and shut-off variable air volume units. Air handling units are located in penthouse mechanical rooms. The system was installed in 2005.

#### **Cafeteria**

The Cafeteria is heated, cooled and ventilated by an air handling unit located in a penthouse. The unit is equipped with a variable speed drive supply fan to allow the system to deliver the proper amount of supply air to heat or cool the space and save fan energy. The air handling unit and system was installed in 2005.

#### **Library**

The Library is heated, cooled and ventilated by an air handling unit located in a penthouse. The unit is equipped with a variable speed drive supply fan to allow the system to deliver the proper amount of supply air to heat or cool the space and save fan energy. The air handling unit and system was installed in 2005.

#### **Natatorium**

The Natatorium is conditioned by an air handling system that provides heat and de-humidification to the pool area. Along with the roof mounted air handling unit there is an air-



cooled condensing unit that is required to reject heat when the system is de-humidifying. The system is capable of providing supplemental heat to the domestic water heater in the pool area. The pool system was installed in 2005.

### **Gymnasiums and Auxiliary Gymnasium**

Each of the 2 gyms as well as the Auxiliary Gym is heated, cooled and ventilated by a dedicated roof top air handling unit. Each unit is equipped with a variable speed drive supply fan to allow the system to deliver the proper amount of supply air to heat or cool the space and save fan energy. The air handling unit and system was installed in 2005

### **Natatorium and Gymnasium Locker Rooms**

The Locker Rooms are heated, ventilated and exhausted by air handling units located within the building. The units and systems were installed during the construction of the original building.

### **Serving Area and Kitchen**

The Serving area and kitchen are heated and ventilated by an air handling system with the unit located in a mechanical room adjacent to the Kitchen area. The air handling system as well as the kitchen exhaust systems are part of the original building construction.

### **Administration**

The Administration and associated areas are heated, cooled and ventilated by an air handling unit and variable air volume system. The unit is located in a penthouse and the system was installed in 2005.

### **Exhaust Systems**

The building exhaust systems consist of exhaust ducts routed to exhaust fans located on the roof. The systems are part of the original building construction.

### **Terminal Heating Equipment**

Much of the terminal heating equipment was installed during the original construction of the building in 1973 or when the addition was built in 1990.

### **Automatic Temperature Controls (ATC)**

The HVAC control system was installed by Siemens with much of the system updated in 2005. The system utilizes electronic and pneumatic operators throughout.

## **BLUE BELL ELEMENTARY**

### **HVAC SYSTEMS**

#### **Central Heating and Cooling Plant**

Heating is provided by 2 cast iron water boilers manufactured by H. B. Smith. The boilers were installed in 2000.

Chilled water is generated by a roof mounted air cooled chiller manufactured by Trane. The chiller was installed in 2000.

#### **Hot Water Distribution System**

Heating water is distributed by redundant base mounted pumps located in the boiler room. A separate heating loop, containing glycol, is in place to provide heating water to various roof mounted equipment. This loop is contains a water-to-water heat exchanger and redundant in-line circulating pumps. All heating distribution equipment was installed in 2000.

#### **Chilled Water Distribution System**

Chilled water is distributed by redundant base mounted pumps located in the boiler room. A separate chilled water loop, containing glycol, is located in the boiler room place to provide chilled water heating water to various roof mounted equipment. This loop is contains a water-to-water heat exchanger and redundant in-line circulating pumps. All cooling distribution equipment was installed in 2000.

#### **General Classroom Systems**

Classrooms throughout the building are heated and cooled by unit ventilators. Most of the unit vents are located on the exterior wall of the rooms however there are a few rooms where the unit vents are located in the ceilings. Ventilation air is provided by the unit ventilators. The unit vents were installed in 2000.

#### **Multi-purpose**

The multi-purpose room is provided with heating or cooling from 2 roof mounted air handling units. The stage area is conditioned by a separate roof mounted air handling unit. Ventilation air is provided by the air handling units. The air handling units and systems were installed in 2000.

#### **Cafeteria and Food Service HVAC Systems**

The Cafeteria is provided with heating or cooling from a roof mounted air handling unit. Ventilation air is provided by the air handling unit. The air handling unit and system was installed in 2000.

#### **Library**

The Library is provided with heating or cooling from a roof mounted air handling unit. Ventilation air is provided by the air handling unit. The air handling unit and system were installed in 2000.

### **Administration System**

The Administration and associated areas are heated and cooled by fan coil units located at the exterior wall within the rooms with ventilation air is provided by the fan coil units. The units and systems were installed in 2000.

### **Exhaust Systems**

Exhaust systems are part of the original building construction.

### **Terminal Heating Equipment**

The terminal heating units consist of unit heaters, cabinet heaters and fin-tube heat with the units installed during construction of the building.

### **Automatic Temperature Controls (ATC)**

The HVAC control system was installed by Siemens. The system utilizes electronic and pneumatic operators throughout.

## **LOWER GWYNEDD ELEMENTARY**

### **HVAC SYSTEMS**

#### **Central Heating and Cooling Plant**

Heating is provided by 2 cast iron water boilers manufactured by Weil McLain. The boilers were installed during construction of the building.

Chilled water is generated by 2 air cooled chillers manufactured by Trane. The chillers were installed during construction of the building.

#### **Hot Water Distribution System**

Heating water is distributed by redundant base mounted pumps located in the boiler room. All heating distribution equipment was installed during the construction of the original building.

#### **Chilled Water Distribution System**

Chilled water is distributed by redundant base mounted pumps located in the boiler room. All cooling distribution equipment was installed during construction of the building.

#### **General Classroom Systems**

Classrooms throughout the building are heated and cooled by unit ventilators. Most of the unit vents are located on the exterior wall of the rooms. Ventilation air is provided by the unit ventilators. The unit vents were installed during construction of the building.

#### **Multi-purpose Room HVAC Systems**

The multi-purpose room is provided with heating, cooling and ventilation from 2 air handling units located in a mechanical room. The stage area is conditioned by a separate air handling unit located in the mechanical room. The air handling units and systems were installed during construction of the building.

#### **Serving Area / Kitchen HVAC Systems**

The Serving area is provided with heating and ventilating by an air handling unit located in the mechanical room. The kitchen is exhausted. All equipment in this area was installed during construction of the building.

#### **Library**

The Library is provided with heating, cooling and ventilation from an air handling unit located in a mechanical room. Distribution of heating and cooling is by a ducted variable air volume system. The air handling unit and systems installed during construction of the building.

### **Administration System**

The Administration and associated areas are heated, cooled and ventilated by an air handling unit and variable air volume system. The unit and system was installed during construction of the building.

### **Exhaust Systems**

Exhaust systems are part of the original building construction.

### **Terminal Heating Equipment**

The terminal heating units consist of unit heaters, cabinet heaters and fin-tube heat with the units installed during construction of the building.

### **Automatic Temperature Controls (ATC)**

The HVAC control system was installed by Siemens during the construction of the building. The system utilizes electronic and pneumatic operators throughout.

## **MATTISON AVENUE ELEMENTARY**

### **HVAC SYSTEMS**

#### **Central Heating and Cooling Plant**

Heating is provided by 2 water tube boilers manufactured by Bryan. The boilers were installed in 2002.

Chilled water is generated by a roof mounted air cooled chillers manufactured by Carrier. The chiller was installed in 2002.

#### **Hot Water Distribution System**

Heating water is distributed by redundant base mounted pumps located in the boiler room. All heating distribution equipment was installed in 2002.

#### **Chilled Water Distribution System**

Chilled water is distributed by redundant base mounted pumps located in the boiler room. All cooling distribution equipment was installed in 2002.

#### **General Classroom Systems**

All Classrooms are heated and cooled by one of two air handling units. Ductwork distributes air to all the rooms with individual room temperature control accomplished by a duct mounted heating coil. Ventilation air is provided by the air handling units. Both air handling units were installed in 2002. The ductwork and heating coils were part of the original building construction.

#### **Multi-purpose Room / Stage HVAC Systems**

The multi-purpose room is provided with heating or cooling from an air handling units located in a mechanical room adjacent to the Multi-purpose room. Ventilation air is provided by the air handling unit. The air handling units and systems were installed in 2002.

#### **Serving Area / Kitchen HVAC Systems**

The Serving area is provided with heating and ventilating a air handling unit located in the mechanical room. The kitchen is exhausted. All equipment in this area was installed during construction of the building.

#### **Library**

The Library is provided with heating or cooling from an air handling unit located in a mechanical room. Ventilation air is provided by the air handling unit. The air handling unit was installed in 2002.

### **Administration System**

The Administration and associated areas are heated and cooled by an air handling unit located in the boiler room. Ductwork distributes air to all the rooms. Individual room temperature control is by a duct mounted heating coil. Ventilation air is provided by the air handling unit. The air handling unit was installed in 2002. The ductwork and heating coils were part of the original building construction.

### **Exhaust Systems**

Exhaust systems are part of the original building construction.

### **Terminal Heating Equipment**

The terminal heating units consist of unit heaters, cabinet heaters and fin-tube heat with the units installed during construction of the building.

### **Automatic Temperature Controls**

The HVAC control system is a Johnson controls system that utilizes electronic and pneumatic operators throughout

## **SHADY GROVE ELEMENTARY**

### **HVAC SYSTEMS**

#### **Central Heating and Cooling Plant**

Heating is provided by 2 cast iron water boilers manufactured by H. B. Smith. The boilers were installed in 1989.

Chilled water is generated by 2 air cooled, split system chillers manufactured by York and installed in 1989. One chiller is a nominal 160 ton unit with the other having a nominal capacity of 75 tons.

#### **Hot Water Distribution System**

Heating water is distributed by redundant base mounted pumps located in the boiler room. All heating distribution equipment was installed in 1989.

#### **Chilled Water Distribution System**

Chilled water is distributed by redundant base mounted pumps located in the boiler room. All cooling distribution equipment was installed during the 1989 renovations.

#### **General Classroom Systems**

Classrooms throughout the building are heated, cooled and ventilated by a ducted system with roof mounted multi-zone air handling units providing the air. The units were installed during the 1989 renovations. Multi-zone units can provide either heating or cooling by modulating dampers to meet the space temperature requirements.

#### **Multi-purpose Room HVAC Systems**

The multi-purpose room is provided with heating or cooling by 2, single zone, roof mounted air handling units. The stage area along with the Music area is conditioned by a separate roof mounted multi-zone air handling unit. Ventilation air is provided by the air handling units. The air handling units and systems were installed during the 1989 renovations.

#### **Kitchen Systems**

The Serving area The Kitchen is heated and ventilated by a roof mounted, single zone, air handling unit. General and hood exhaust systems are present. The air handling unit was installed during the 1989 renovations while the exhaust systems were installed in 1974.

#### **Cafeteria**

The Cafeteria is heated, cooled and ventilated by a roof mounted unit. The unit is a single zone configuration and was installed during the 1989 renovations.



## **Library**

The Library is provided with heating, cooling and ventilation by a roof mounted air handling unit. The unit is a multi-zone unit and serves other areas such as the Administration area and Classrooms. The air handling unit and systems was installed during the 1989 renovations.

## **Exhaust Systems**

Toilet and other general exhaust system are part of the 1974 renovations.

## **Terminal Heating Equipment**

The terminal heating units consist of unit heaters, cabinet heaters and fin-tube heat with the units installed during the 1974 additions to the building.

## **Automatic Temperature Controls (ATC)**

The HVAC control system was installed by Siemens and utilizes electronic and pneumatic operators throughout.

## **STONY CREEK ELEMENTARY**

### **HVAC SYSTEMS**

#### **Central Heating and Cooling Plant**

Heating is provided by 2 cast iron water boilers manufactured by Weil McLain. The boilers were installed in 1986.

Chilled water is generated by an air cooled chillers manufactured by Carrier. The chiller was installed in 2001.

#### **Hot Water Distribution System**

Heating water is distributed by redundant pumps located in the boiler room. The pumps were installed in 1986.

#### **Chilled Water Distribution System**

Chilled water is distributed by redundant base mounted pumps located in the boiler room. The pumps were installed in 2001.

#### **General Classroom Systems**

Classrooms throughout the building are heated, cooled and ventilated by unit ventilators. Most of the unit vents are located on the exterior wall of the rooms. The unit vents were installed in 2001.

#### **Multi-purpose Room /Stage HVAC Systems**

The Multi-purpose room is provided with heating, cooling and ventilation from 2 air handling units located within the space. The stage area is conditioned by a separate air handling unit located at the roof within the Stage space. The air handling units and systems were installed in 2001.

#### **Cafeteria HVAC Systems**

The Cafeteria is provided with heating, cooling and ventilation from 2 air handling units located within the space. The air handling units and systems were installed in 2001. The kitchen is exhausted with the exhaust fans installed as part of the original building construction.

#### **Library**

The Library is provided with heating, cooling and ventilation from a rooftop air handling air handling. The air handling unit and systems installed in 1986.

### **Administration System**

The Administration area is provided with heating, cooling and ventilation from a split system air handling with a roof mounted condensing unit. The system was installed in 1986.

### **Exhaust Systems**

The existing exhaust systems were installed during the construction of the building in both the original building and the addition.

### **Terminal Heating Equipment**

The terminal heating units consist of unit heaters, cabinet heaters and fin-tube heat with most of the units installed during construction of the building. There were a few terminal heating units added in 2001.

### **Automatic Temperature Controls**

The HVAC control system was installed by Johnson Controls and utilizes electronic and pneumatic operators throughout.

WISSAHICKON SCHOOL DISTRICT

Building & Address	Sq. Ft.	Original Date Built	Hydronic Boilers										
			Qty	Input BTU Each	Output BTU Each	Total BTU Input	Total BTU Output	Make	Model	Fuel	Year Installed	Efficiency	Comments
High School 521 Houston Road Ambler, PA 19002-3599	314,000	1961	3	4,500,000	3,600,000	13,500,000	10,800,000	York	YPC	Duel Fuel - gas & oil	1999	Approximately 80%	Each unit is an absorption chiller /heater capable of providing heating water and chilled water. The total heating capacity of the units appears to be inadequate as the owner is experiencing problems heating areas of the building in colder weather.
Middle School 500 Houston Road Ambler, PA 19002-3597	182,000	1974	2	5,100,000	3,980,000	10,200,000	7,956,000	Weil McLain		Duel Fuel - gas & oil	1975	Approximately 78%	Although the boilers are well maintained and in operating condition they have reached the normal useful life span of 35 years. Consider replacement in the near future with higher efficiency boilers.
Lower Gwynedd Elementary 571 Houston Road Ambler, PA 19002-3553	82,000	1996	2	4,100,000	3,280,000	8,200,000	6,560,000	Weil McLain		Duel Fuel - gas & oil	1999	Approximately 80%	Boilers are well maintained and should provide a minimum of an additional 20 plus years of service
Shady Grove Elementary 351 West Skippack Pike Ambler, PA 19002-5198	102,000	1956	2	5,200,000	4,056,000	10,400,000	8,112,000	H. B. Smith		Duel Fuel - gas & oil	1989	Approximately 78%	Although the boilers are operational and well maintained the useful life is 35 years. Consider replacement in the next 10 years.
Stony Creek Elementary 1721 Yost Road Blue Bell, PA 19422	60,000	1963	2	2,500,000	1,950,000	5,000,000	3,900,000	Weil McLain		Duel Fuel - gas & oil	1986	Approximately 78%	Although the boilers are operational and well maintained the useful life is 35 years. Consider replacement in the next 10 years.
Blue Bell 801 Symphony Lane Blue Bell, PA 19422	61,000	1955	2	3,392,000	3,160,000	6,784,000	6,320,000	H. B. Smith		Duel Fuel - gas & oil	2000	Approximately 80%	Boilers are well maintained and should provide a minimum of an additional 20 plus years of service
Mattison Avenue Elementary 131 Rosemary Avenue Ambler, PA 19002-4798	28,000	1966	2	1,200,000	960,000	2,400,000	1,920,000	Bryan	CL	Gas	2002	Approximately 80%	Boilers are well maintained and should provide a minimum of an additional 25 years of service
Administration Building 601 Knight Road Ambler, PA 19002-3496	30,000	1966	2	1,200,000	960,000	2,400,000	1,920,000	Bryan	CL	Duel Fuel - gas & oil	2002	Approximately 80%	Boilers are well maintained and should provide a minimum of an additional 20 plus years of service
Bus Garage 800 School Road Blue Bell, PA 19422	9,000	1956	1	700,000	525,000	700,000	525,000	Kewanee		Gas	1975	Approximately 75%	Although the boiler is operational and well maintained the useful life is 35 years. Consider replacement in the near future.

# WISSAHICKON SCHOOL DISTRICT

Building & Address	Domestic Hot Water System			
	Htr fuel type	Size	Circ Pumps	Condition
High School 521 Houston Road Ambler, PA 19002-3599	Duel Fuel - gas & oil	2 @ 1500 gal. storage each	yes	Heaters are in good codiction.
Middle School 500 Houston Road Ambler, PA 19002-3597	Water-to-water heat exchanger	500 gal. storage	yes	Heater serves the Athletic Wing and was installed in 2005
Middle School 500 Houston Road Ambler, PA 19002-3597	Water-to-water heat exchanger	1000 gal. storage	yes	Heater in the Boiler Room serves the Kitchen and the fixtures throughout the Classroom area. The unit is original and replacemnet should be considered.
Lower Gwynedd Elementary 571 Houston Road Ambler, PA 19002-3553			yes	<b>Exisitng unit is scheduled to be replaced this summer</b>
Shady Grove Elementary 351 West Skippack Pike Ambler, PA 19002-5198	Duel Fuel - gas & water-to-water heat exchanger	750 gal. storage	yes	Heater was installed in 2006 and is in very good condition.
Stony Creek Elementary 1721 Yost Road Blue Bell, PA 19422	Gas	100 gal. storgae	yes	Heater is a high efficiency gas unit installed in January of 2011
Blue Bell 801 Symphony Lane Blue Bell, PA 19422	Duel Fuel - gas & oil	140 gal. storage	yes	Heater is in good condtion and is well maintained
Mattison Avenue Elementary 131 Rosemary Avenue Ambler, PA 19002-4798	Gas	100 gal. storgae	yes	Heater was installed in 2009 and is in good condition.
Administration Building 601 Knight Road Ambler, PA 19002-3496	Gas	120 gal. storgae	yes	Heater is in good condtion and is well maintained
Bus Garage 800 School Road Blue Bell, PA 19422	Gas	90 ga. Storage	no	Age of the heater is unknown. Replacement with a high efficiency gas fired heater should be considered.

# WISSAHICKON SCHOOL DISTRICT

Electric Service						
Building & Address	Service Type	Voltage	Switchgear	Transformers Qty, Size, Location	Emer Power Description	Condition
High School 521 Houston Road Ambler, PA 19002-3599	Primary on Campus to 4160V	480V into Building. 2 services, Mechanical & Ltg/Pwr	1600A (ltg & Rec) 2000A (mech) Square D (1999)	Distributed through building. All Square D (1999)	200kW Kohler Diesel Gen. 1 transfer switch (1999)	Good
Middle School 500 Houston Road Ambler, PA 19002-3597	Primary on Campus to 4160V	4160V into Building. 1500KV dry-type to 480V (ITE, Old)	2500A, 480V gear Siemens (1990)	Distributed through building. Mainly old ITE	150kW MagnaMax NG. 1 transfer switch (1991) battery ballasts in interior	Running and Maintained - Aging
Lower Gwynedd Elementary 571 Houston Road Ambler, PA 19002-3553	Primary on Campus to 4160V	480V into Building	1200A Cutler Hammer (1997)	Distributed through building. Mainly CH (1997)	80kW Onan NG. 1 transfer switch (1996)	Good (fire pump not on generator, and has breaker in gear)
Shady Grove Elementary 351 West Skippack Pike Ambler, PA 19002-5198	Secondary	480V into Building	1600A Square D (1989) backfeeds old Westinghouse gear	Distributed through building. All vintages	80kW Kohler NG. 1 transfer switch (1989)	Mixed
Stony Creek Elementary 1721 Yost Road Blue Bell, PA 19422	Secondary	480V into Building	1200A Cutler Hammer (2001)	150kVA CH (2001)	30kW Katolight NG. 1 transfer switch (1996)	Many older FPE panels
Blue Bell 801 Symphony Lane Blue Bell, PA 19422	Secondary	480V into Building, 208V at modulars	1000A GE (1989) Power factory issues	300kVA GE in elect. Room. (1989)	18.5 kW Onan NG. 1 transfer switch (1989)	Many older panels.
Mattison Avenue Elementary 131 Rosemary Avenue Ambler, PA 19002-4798	Primary	4160V into Building	Old GE unit sub. Too many disconnects after transformer	-	15 kW Olympain NG. 1 transfer switch (2002) battery packs in corridors	Many older panels. Unit sub poor condition.
Administration Building 601 Knight Road Ambler, PA 19002-3496	Secondary	208V into Building	1200A Eaton (CH) (2007)	-	45kW Kohler NG. 1 transfer switch (2002)	Some older panels.
Bus Garage 800 School Road Blue Bell, PA 19422	Secondary	208V into Building	1200A Cutler Hammer (2002)	-	30kW Katolight NG. 1 transfer switch (2002)	Many older panels.

# WISSAHICKON SCHOOL DISTRICT

Lighting Systems									
Building & Address	Typical Classrooms					Gym / M.P. Room / Aud / Café			
	Qty of Rooms	Qty of Fixtures in Each	Type of Fixture / Lamp	Condition	Room Type and Size	Qty of Fixtures	Type of Fixture / Lamp	Condition	
High School 521 Houston Road Ambler, PA 19002-3599	100	3 rows	Pendants, T8 Lamps	Satisfactory 85fc	Main Gym	50	Spun Al MH	Poor 50fc	
High School 521 Houston Road Ambler, PA 19002-3599	-	-	-	-	Aux Gym	35	Spun Al MH	Poor 50fc	
High School 521 Houston Road Ambler, PA 19002-3599	-	-	-	-	Auditorium	75+	Incandescent & MH Cylinders	Satisfactory	
High School 521 Houston Road Ambler, PA 19002-3599	-	-	-	-	Audion	50	Incandescent & MH Cylinders	Satisfactory	
High School 521 Houston Road Ambler, PA 19002-3599	-	-	-	-	Cafeteria & Satellite Caf	8 rows	Pendant, T8	Satisfactory 90fc	
Middle School 500 Houston Road Ambler, PA 19002-3597	76	3 rows	Pendants, T8 Lamps	Satisfactory 60fc	Gymnasium 1	20	Spun Al MH	Poor 70fc	
Middle School 500 Houston Road Ambler, PA 19002-3597	-	-	-	-	Gymnasium 2	12	Spun Al MH	Poor 70fc	
Middle School 500 Houston Road Ambler, PA 19002-3597	-	-	-	-	Pool	39	HPS Wall Packs & MV Pendants	Poor, Glary	
Middle School 500 Houston Road Ambler, PA 19002-3597	-	-	-	-	Cafeteria	60	Recessed, T8	Satisfactory 40fc	
Lower Gwynedd Elementary 571 Houston Road Ambler, PA 19002-3553	38	12	Recessed, T8 Lamps	Satisfactory 60fc	Multipurpose	16	Spun Al MH	Poor 15fc	

# WISSAHICKON SCHOOL DISTRICT

Lighting Systems									
Building & Address	Typical Classrooms					Gym / M.P. Room / Aud / Café			
	Qty of Rooms	Qty of Fixtures in Each	Type of Fixture / Lamp	Condition	Room Type and Size	Qty of Fixtures	Type of Fixture / Lamp	Condition	
Shady Grove Elementary 351 West Skippack Pike Ambler, PA 19002-5198	40	3 rows	Pendants, T8 Lamps	Satisfactory 50fc	Gym	24	T5HO Chain Hung	Satisfactory 30fc	
Shady Grove Elementary 351 West Skippack Pike Ambler, PA 19002-5198	-	-	-	-	Cafeteria	60	Surface, T8	Satisfactory 50fc	
Stony Creek Elementary 1721 Yost Road Blue Bell, PA 19422	33	12	Recessed, T8 Lamps	Satisfactory 40fc	Multipurpose	24	Recessed Lensed	Poor 20fc	
Stony Creek Elementary 1721 Yost Road Blue Bell, PA 19422	-	-	-	-	Gym	17	Chain Strips	Poor 50fc	
Blue Bell 801 Symphony Lane Blue Bell, PA 19422	35	12	Recessed, T8 Lamps	Satisfactory 110fc	Multipurpose	17	2x2' MH Recessed	Poor 60fc	
Mattison Avenue Elementary 131 Rosemary Avenue Ambler, PA 19002-4798	15	12	Recessed, T8 Lamps	Satisfactory 40fc	Multipurpose	17	T5HO Chain Hung	Satisfactory 50fc	
Administration Building 601 Knight Road Ambler, PA 19002-3496	NA	NA	NA	NA	NA	NA	NA	NA	
Bus Garage 800 School Road Blue Bell, PA 19422	NA	NA	NA	NA	NA	NA	NA	NA	



# WISSAHICKON SCHOOL DISTRICT

Building & Address	Communication Systems						
	Telephone	Data network	Cable Television	Intercom/Paging	Public Address Systems	Clock System	Overall Condition
High School 521 Houston Road Ambler, PA 19002-3599	Mitel (District System)	CAT 6 Horizontal, 62.5 MM Backbone	Transition over to V-Brick	Simplex 5100 Series (Slightly Antequated)	Simplex 5100 Series (Slightly Antequated)	Simplex, transition to Sapling Wireless	Good
Middle School 500 Houston Road Ambler, PA 19002-3597	Mitel (District System)	CAT 6 Horizontal, 62.5 MM Backbone	Transition over to V-Brick	Telecor XL	Telecor XL	Sapling Wireless	Good
Lower Gwynedd Elementary 571 Houston Road Ambler, PA 19002-3553	Mitel (District System)	CAT 6 Horizontal, 62.5 MM Backbone	Transition over to V-Brick	Telecor XL	Telecor XL	Sapling Wireless	Good
Shady Grove Elementary 351 West Skippack Pike Ambler, PA 19002-5198	Mitel (District System)	CAT 6 Horizontal, 62.5 MM Backbone	Transition over to V-Brick	Telecor XL	Telecor XL	Sapling Wireless	Good
Stony Creek Elementary 1721 Yost Road Blue Bell, PA 19422	Mitel (District System)	CAT 6 Horizontal, 62.5 MM Backbone	Transition over to V-Brick	Telecor XL	Telecor XL	Sapling Wireless	Good
Blue Bell 801 Symphony Lane Blue Bell, PA 19422	Mitel (District System)	CAT 6 Horizontal, 62.5 MM Backbone	Transition over to V-Brick	Telecor XL	Telecor XL	Sapling Wireless	Good
Mattison Avenue Elementary 131 Rosemary Avenue Ambler, PA 19002-4798	Mitel (District System)	CAT 6 Horizontal, 62.5 MM Backbone	Transition over to V-Brick	Telecor XL	Telecor XL	Sapling Wireless	Good
Administration Building 601 Knight Road Ambler, PA 19002-3496	Mitel (District System)	CAT 6 Horizontal, 62.5 MM Backbone	Transition over to V-Brick	N/A	N/A	N/A	Good
Bus Garage 800 School Road Blue Bell, PA 19422	Mitel (District System)	CAT 6 Horizontal, 62.5 MM Backbone	Transition over to V-Brick	N/A	N/A	N/A	Good

# WISSAHICKON SCHOOL DISTRICT

Building & Address	Security & Fire Protection Systems							
	Security System				Fire Protection System			
	Security Manufacturer	System Type	Access Control	Video Surveillance System	Condition	Fire Protection Provider/Monitor	System Type	Condition
High School 521 Houston Road Ambler, PA 19002-3599	Ademco	Intrusion Detection (Door Contacts & Motions)	DSX	Dedicated Micros DVR & Panasonic Cameras	Good	Monitored through the fire alarm system	Wet pipe sprinkler throughout	good
Middle School 500 Houston Road Ambler, PA 19002-3597	Ademco	Intrusion Detection (Door Contacts & Motions)	DSX	Dedicated Micros DVR & Panasonic Cameras	Good	Monitored through the fire alarm system	Wet pipe system installed in the 1991 addition only	good
Lower Gwynedd Elementary 571 Houston Road Ambler, PA 19002-3553	Ademco	Intrusion Detection (Door Contacts & Motions)	DSX	Dedicated Micros DVR & Panasonic Cameras	Good	Monitored through the fire alarm system	Wet pipe sprinkler throughout with a pressure booster	good
Shady Grove Elementary 351 West Skippack Pike Ambler, PA 19002-5198	Ademco	Intrusion Detection (Door Contacts & Motions)	DSX	Dedicated Micros DVR & Panasonic Cameras	Good	Monitored through the fire alarm system	Wet pipe system in Boiler Room and larger Storage Rooms	n/a
Stony Creek Elementary 1721 Yost Road Blue Bell, PA 19422	Ademco	Intrusion Detection (Door Contacts & Motions)	DSX	Dedicated Micros DVR & Panasonic Cameras	Good	n/a	n/a	n/a
Blue Bell 801 Symphony Lane Blue Bell, PA 19422	Ademco	Intrusion Detection (Door Contacts & Motions)	DSX	Dedicated Micros DVR & Panasonic Cameras	Good	n/a	n/a	n/a
Mattison Avenue Elementary 131 Rosemary Avenue Ambler, PA 19002-4798	Ademco	Intrusion Detection (Door Contacts & Motions)	DSX	Dedicated Micros DVR & Panasonic Cameras	Good	n/a	n/a	n/a

# WISSAHICKON SCHOOL DISTRICT

Security & Fire Protection Systems								
Security System					Fire Protection System			
Building & Address	Security Manufacturer	System Type	Access Control	Video Surveillance System	Condition	Fire Protection Provider/Monitor	System Type	Condition
Administration Building 601 Knight Road Ambler, PA 19002-3496	Ademco	Intrusion Detection (Door Contacts & Motions)	DSX	Dedicated Micros DVR & Panasonic Cameras	Good	n/a	n/a	n/a
Bus Garage 800 School Road Blue Bell, PA 19422	None	None	None	Dedicated Micros DVR & Panasonic Cameras	Good	n/a	n/a	n/a

# WISSAHICKON SCHOOL DISTRICT

Parking profiles								
Building & Address	Location	Faculty Parking Spaces	Visitors Parking Spaces	Student Parking Spaces	Handicapped Parking per Lot	Total Parking Spaces	Bus Parking	
High School 521 Houston Road Ambler, PA 19002-3599	Student Faculty/Front Stadium	0 43 307	0 7 0	304 0 0	8 2 10	312 52 317	11 0 21	
Middle School 500 Houston Road Ambler, PA 19002-3597	South North	60 39	4 0	0 0	5 2	69 41	11 11	
Lower Gwynedd Elementary 571 Houston Road Ambler, PA 19002-3553	North East Rear	60 10 16	0 0 0	0 0 0	3 3 2	134 13 18	8 0 0	
Shady Grove Elementary 351 West Skippack Pike Ambler, PA 19002-5198	North-Rear South-Front	123 18	0 0	0 0	3 3	126 21	12 0	
Stony Creek Elementary 1721 Yost Road Blue Bell, PA 19422	South North-Playground	22 44	0 2	0 0	0 2	22 46	0 7	
Blue Bell 801 Symphony Lane Blue Bell, PA 19422	Faculty Visitor	25 0	0 32	0 0	4 0	29 32	8 0	
Mattison Avenue Elementary 131 Rosemary Avenue Ambler, PA 19002-4798	Main	22*	?	0	2	24	Public Road	
Administration Building 601 Knight Road Ambler, PA 19002-3496	Main	72	0	0	3	75	0	
Bus Garage 800 School Road Blue Bell, PA 19422	Main	55	0	0	0	55	61+	

\* Offsite parking used

# Wissahickon School District

## Logic Matrix For Assigning Priorities

Rating	Parameters										
	SA	CV	EI	NP	PC	DE	CI	LEI	ESI	Life Expectancy	
	Safety	Curricular Value	Educational Impact Existing	Number of People Affected/Day	Physical Conditions Existing	Domino Effect	Community Impact	Lifecycle Economic Impact	Energy /Sustainability Impact	Age	Remaining Existing
5	Unsafe Needs Immediate Attention	Significant Positive Impact	Critical Will Close School	1000 or More	Critical - Needs Immediate Attention	Greatly Impacts Other Elements	Greatly Impacts Community	Immediate Action Saves Much Later	High Energy Savings Low Cost	Over 20 Years	Less Than 5 Years
4	Not Unsafe But Needs Immediate Attention	Notable Positive Impact	Serious Disruption	500 to 1000	Very Poor Address Promptly	Moderate Impact To Other Elements	Moderate Impact To Community	Prompt Action Saves Much Later	High Energy Savings Moderate Cost	10 - 20 Years	5 - 10 Years
3	Needs Attention	Some Positive Impact	Moderate Disruption	250 to 500	Poor Should Be Budgeted	Slight Impact To Other Elements	Slight Impact To Community	Prompt Action Saves Moderately	High Energy Savings High Cost	5 - 10 Years	10 - 15 Years
2	Safe But Should Be Budgeted	Minimal Positive Impact	Slight Disruption	100 to 250	Acceptable Could Be Improved		No Impact To Community	Action In 3 Years Saves Much	Low Energy Savings Low Cost	3 - 5 Years	15 - 20 Years
1	Safe But Will Need Work In The Future	No Impact	Minor Disruption To Small Group	1 to 100	Good - Will Need Work in the Future	No Impact To Other Elements	Slight Negative Impact To Community	Little Savings	Low Energy Savings Moderate Cost	1 - 3 Years	20 - 30 Years
0	No Safety Hazard	Some Negative Impact	No Disruption	0	Excellent		Negative Impact To Community	No Significant Impact	Low Energy Savings High Cost	New	Over 30 Years
Importance Factors	5	5	5	4	3	2	2	2	2		2

### Safety \*

(Safety is a direct physical facility threat to staff and students)

$$\text{Priority} = ((\text{SA} \times 5) + (\text{CV} \times 5) + (\text{EI} \times 5) + (\text{NP} \times 4) + (\text{PC} \times 3) + (\text{DE} \times 2) + (\text{CI} \times 2) + (\text{LEI} \times 2) + (\text{ESI} \times 2) + (\text{LE} \times 2)) / 16$$

## **WISSAHICKON SCHOOL DISTRICT FACILITIES STUDY**

### **PRIORITY INDEXING**

Recommendations have been assigned a priority index which represents a degree of need. The priority indexing ranges from 2 to 10, with 10 representing the highest degree of need.

9, 10	Critical – Should be addressed immediately
7, 8	Serious – Should be addressed promptly
5, 6	Necessary – Should be budgeted for
3, 4	Suggested to improve operations
2	Not presently essential – Will likely need attention in the near future
1	Provide handicapped accessibility
0	Contingency, miscellaneous, and unidentified items including implementing asbestos assessment and management plan

**WISSAHICKON SCHOOL DISTRICT  
FACILITIES STUDY**

**FACTORS AFFECTING PRIORITY RATINGS**

- Age of specific plant facility components (including repairs and reconstruction).
- Use of specific plant facility components, e.g.:

<u>Usage</u>	<u>Priority</u>
Not in use	Low
Leased	Medium
Occasional	High
Regular	Very High

- Built-in redundancies, e.g.:

<u>Redundancy</u>	<u>Priority</u>
2 Boilers	Low
1 Boiler	High

- Imminent danger/hazard to occupants from the existing condition of the plant component.
- Criticality of specific component in relation to functioning of overall facility, including consideration of effect on other plant components, e.g.:

<u>Component</u>	<u>Priority</u>
Roof	High
Curtain	Low

- Present physical condition at time of survey
- Reported problems, including any repair history
- Deficiencies in identified plan component as it relates to its intended use.
- Educational impact of deterioration, deficiency, or existing condition of specific plant component.
- Life cycle evaluation of present recommendation on projected life of specific plan.
- Consideration of domino effect from failure of specific plan component.

**WISSAHICKON SCHOOL DISTRICT  
CAPITAL IMPROVEMENTS PLAN**

**CATEGORIES OF WORK**

**CATEGORIES**

**DESCRIPTION**

<b>AF</b>	<b>Athletic/Play Facilities - Exterior</b>
<b>ATC</b>	<b>Automatic Temperature Control</b>
<b>CA</b>	<b>Casework &amp; Millwork</b>
<b>CLG</b>	<b>Ceiling Systems</b>
<b>CS</b>	<b>Communication Systems (Intercom, Telephone, Clock, etc.)</b>
<b>CONC</b>	<b>Concrete Sidewalks and Curbs</b>
<b>CW</b>	<b>Curtainwall and Store Front Systems</b>
<b>ED</b>	<b>Exterior Doors and Frames</b>
<b>EL</b>	<b>Exterior Lighting</b>
<b>ES</b>	<b>Electrical Service</b>
<b>FIN</b>	<b>Finishes (Paint, Wall Covering, etc.)</b>
<b>FA</b>	<b>Fire protection Systems and Security Systems</b>
<b>FC</b>	<b>Floor Covering</b>
<b>FS</b>	<b>Food Service</b>
<b>GE</b>	<b>Gymnasium Equipment</b>
<b>HC</b>	<b>Handicapped Accessibility</b>
<b>HVAC</b>	<b>Heating, Ventilating, and Air Conditioning</b>
<b>ID</b>	<b>Interior Doors and Frames</b>
<b>IL</b>	<b>Interior Lighting</b>
<b>L</b>	<b>Landscaping (Including Fences, Signage, etc.)</b>
<b>LR</b>	<b>Locker Rooms</b>
<b>M</b>	<b>Masonry</b>
<b>P</b>	<b>Plumbing and Sanitary Sewer Systems</b>
<b>PA</b>	<b>Parking and Access Roads (Macadam)</b>
<b>R</b>	<b>Roof Work</b>
<b>SI</b>	<b>Signage – Interior</b>
<b>SS</b>	<b>Sanitary System</b>
<b>SP</b>	<b>Specialties (Marker/Tack Boards, Smart Boards, Display Cases)</b>
<b>STE</b>	<b>Stairs and Ramps – Exterior</b>
<b>STI</b>	<b>Stairs and Ramps – Interior</b>
<b>SW</b>	<b>Storm Sewer</b>
<b>SL</b>	<b>Student Lockers</b>
<b>TE</b>	<b>Theatrical Equipment</b>
<b>TRI</b>	<b>Toilet Rooms – Individual</b>
<b>TRG</b>	<b>Toilet Rooms – Gang</b>
<b>UN</b>	<b>Un-Categorized</b>
<b>VTF</b>	<b>Vehicular Traffic Flow</b>
<b>WR</b>	<b>Window Repair/Replacement</b>
<b>WT</b>	<b>Window Treatment</b>



**WISSAHICKON SCHOOL DISTRICT  
RECOMMENDATIONS  
LISTED BY BUILDING**

SCHOOL	ITEM	SA	CV	EI	NP	PC	DE	CI	LEI	ESI	LE	PRIORITY	2011 Estimated Cost Including 30% Indirect Costs	Category
High School	Replace chillers (3) at the end of their useful life expectancy. Provide (2) water cooled chillers	3	5	5	5	4	4	4	5	3	4	9	\$ 1,820,000.00	HVAC
High School	Provide new heating boilers	3	3	5	5	5	5	3	5	4	4	8	\$ 702,000.00	P
High School	Investigate sanitary sewer system, replace damaged portions	3	3	5	5	4	5	3	3	2	5	8	\$ 102,050.00	P
High School	Modify door/stair entrance at bottom of Gymnasium Lobby, not ADA compliant. Impedes Egress	3	5	4	5	4	4	4	1	2	4	8	\$ 93,600.00	UN
High School	Renovate stairs in "1974" wing, treads, guard/hand rails not ADA compliant. Eliminate "pass-thru" feature Not to Code, Corridor wall not code compliant, sound block not code compliant.	3	3	4	5	5	4	4	4	2	4	8	\$ 268,840.00	HC
High School	Replace two grease traps	3	4	4	5	4	3	4	4	2	4	8	\$ 70,200.00	FS
High School	Add exterior area site lighting for more uniform lighting and to cover dark areas.	3	4	3	5	3	3	4	4	5	4	7	\$ 292,500.00	EL
High School	Provide lighting protection	2	4	3	5	5	4	2	4	4	5	7	\$ 233,330.24	R
High School	Install water softener	3	4	3	5	4	3	4	4	3	4	7	\$ 97,500.00	P
High School	Test domestic water for lead and sediment, replace piping	3	4	4	5	3	5	4	2	2	4	7	\$ 102,050.00	P
High School	Modify access to main auditorium control booth. Currently accessed through catwalk system.	5	4	3	2	5	4	4	2	2	5	7	\$ 11,700.00	UN
High School	Replace single pane windows in original building with insulated glass	2	3	3	5	5	4	3	5	4	4	7	\$ 1,121,640.00	WR
High School	Install intermittent steps along aisles of bleachers. Rise at steps is greater than 7" provide handrail along center of aisle.	3	3	3	5	5	3	5	3	2	4	7	\$ 111,150.00	AF
High School	Replace flooring in "round" gymnasium (Replace Mondo floor with wood floor. Address ground water and drainage issue)	2	5	4	5	3	4	4	2	1	4	7	\$ 556,146.50	FC
High School	Replace stadium turf field, running track, and misc. equipment	2	4	4	5	3	3	4	3	2	4	7	\$ 2,600,000.00	AF
High School	Repair areas of roof where blisters have developed. Correct areas where ponding occurs due to low pitch of roof.	2	4	3	5	4	4	4	3	2	4	7	\$ 787,527.00	R
High School	Round Gym Roof - Bottom perimeter trough - fills up with water, freezes and backs up under upper membrane. Add additional roof drains and overflow scuppers. Install heat wire to prevent freezing. Add additional layer/membrane coating in entire gutter up onto dome membrane.	2	4	4	4	4	4	3	3	2	4	7	\$ 70,200.00	R
High School	Replace fitness equipment, update space	3	4	3	5	3	4	4	1	2	4	7	\$ 195,000.00	GE
High School	Provide closer panels at main entrance canopy to eliminate bird nesting ledge	2	4	4	4	4	3	3	3	1	5	7	\$ 12,168.00	UN
High School	Allowance for curb replacement	3	3	3	5	4	3	3	3	1	5	7	\$ 16,640.00	CONC
High School	Allowance for sidewalk replacement	3	3	3	5	4	3	3	3	1	5	7	\$ 240,500.00	CONC
High School	Recoat tennis courts	3	4	3	4	3	4	4	3	1	4	7	\$ 31,850.00	AF
High School	Replace guard/hand rails in round Gymnasium, not ADA compliant	3	3	3	5	4	3	4	1	3	4	7	\$ 49,335.00	HC

**WISSAHICKON SCHOOL DISTRICT  
RECOMMENDATIONS  
LISTED BY BUILDING**

SCHOOL	ITEM	SA	CV	EI	NP	PC	DE	CI	LEI	ESI	LE	PRIORITY	2011 Estimated Cost Including 30% Indirect Costs	Category
High School	Install new exterior building lighting.	3	3	3	5	4	3	3	3	3	3	7	\$ 78,000.00	EL
High School	Upgrade the HVAC control system software.	3	4	3	5	3	3	3	3	2	3	7	\$ 13,000.00	ATC
High School	Repair coping at main entrance. Damage due to water infiltration	3	4	3	3	4	4	3	3	1	5	7	\$ 9,100.00	M
High School	Replace F&CS equipment	3	4	3	4	3	3	3	3	2	4	7	\$ 1,170,000.00	FS
High School	Replace carpeting in classrooms with VCT	2	3	4	5	3	3	3	3	2	4	7	\$ 659,318.40	FC
High School	Provide new keying system for building, to match District-wide system	3	3	3	4	5	3	5	1	2	3	7	\$ 209,820.00	ID
High School	Add Occupancy Sensors in classrooms, offices and other code locations to save energy.	3	3	3	5	3	3	2	3	4	3	7	\$ 227,500.00	IL
High School	Add carbon dioxide sensors to provide demand control ventilation for 2 units in the Gymnasium	4	3	3	5	4	3	3	1	1	3	7	\$ 7,800.00	HVAC
High School	Install security fencing around high voltage transformers adjacent to tennis courts.	5	2	2	4	5	3	3	2	2	3	6	\$ 4,875.00	L
High School	Refinish bleacher structures. Remove rust and repaint.	2	3	3	5	3	3	4	3	2	4	6	\$ 81,341.00	AF
High School	Replace lighting in gymnasium to provide better lighting for television and more energy efficiency.	2	3	3	5	3	3	3	3	3	4	6	\$ 117,000.00	IL
High School	Replace acoustic operable partition in "old" gymnasium	2	4	3	4	3	4	4	2	1	4	6	\$ 194,688.00	SP
High School	Provide drop-down divider curtain in "round" gymnasium	2	4	3	4	3	4	4	2	1	4	6	\$ 65,000.00	SP
High School	Add receptacles as required in classrooms to limit power strip use.	2	4	3	4	3	3	3	4	1	4	6	\$ 97,500.00	ES
High School	Expand existing Simplex 4020 Fire Alarm System visual devices into Classrooms to meet current codes.	3	3	2	5	3	3	2	3	4	3	6	\$ 91,000.00	FA
High School	The existing domestic water heaters were installed in 1999. Replacement may be necessary in the next ten years. Consider replacement with high efficiency instantaneous type heaters.	3	3	4	5	3	3	2	1	1	3	6	\$ 325,000.00	P
High School	Renovate toilet rooms, not ADA compliant, in poor condition. original Building.	3	2	2	5	3	4	4	3	2	4	6	\$ 702,000.00	TRG
High School	Remove all skylights, patch roof to match existing adjacent surfaces	2	2	3	5	3	4	2	3	4	4	6	\$ 118,300.00	R
High School	Provide multi-media system in "Audion"	2	4	4	4	2	3	4	1	1	4	6	\$ 20,800.00	SP
High School	Add additional heating equipment to generator (will necessitate new generator)	3	3	3	5	3	4	2	1	1	4	6	\$ 240,500.00	ES
High School	Replace classroom casework	2	3	3	5	3	4	3	1	2	4	6	\$ 150,800.00	CA
High School	Replace operable partitions	2	3	3	4	4	4	3	2	1	4	6	\$ 65,000.00	SP
High School	Refinish classroom doors, replace hardware	2	4	3	5	3	3	3	1	1	3	6	\$ 341,250.00	ID

**WISSAHICKON SCHOOL DISTRICT  
RECOMMENDATIONS  
LISTED BY BUILDING**

SCHOOL	ITEM	SA	CV	EI	NP	PC	DE	CI	LEI	ESI	LE	PRIORITY	2011 Estimated Cost Including 30% Indirect Costs	Category
High School	Install acoustic treatments in gymnasiums (two)	2	4	3	5	3	3	3	1	1	3	6	\$ 19,435.00	UN
High School	Add resilient wood floor in original Gymnasiums	2	4	3	5	3	3	2	1	1	4	6	\$ 235,942.20	FC
High School	Replace seating in "Audion" with ADA compliant seating	2	4	3	4	2	3	4	1	2	4	6	\$ 19,500.00	TE
High School	Replace guard/hand rails in main auditorium	3	3	3	4	4	3	3	1	1	3	6	\$ 14,625.00	HC
High School	Provide additional district-wide maintenance shop space	3	3	3	3	3	4	3	2	1	4	6	\$ 820,456.00	UN
High School	Add UL924 listed relay system to control emergency lights	2	3	2	5	3	3	2	3	4	3	6	\$ 45,500.00	IL
High School	Replace window treatments, original building	2	3	3	5	3	3	2	2	1	4	6	\$ 205,634.00	WT
High School	Rework trench drain & inlet along adjoining tennis courts.	2	3	3	4	3	3	3	2	2	4	6	\$ 20,995.00	SW
High School	Replace acoustic tile ceilings.	2	3	3	4	3	4	3	2	2	3	6	\$ 1,183,000.00	CLG
High School	Repair small canopy's at cardio room exterior entrance, replace light fixtures	2	3	3	3	4	3	4	2	1	4	6	\$ 2,246.40	R
High School	Replace ceiling in larger kitchen, protective coating is failing	2	3	2	4	3	4	3	3	2	4	6	\$ 5,382.00	CLG
High School	Install safety railing around stairs leading to low level mechanical room.	4	2	2	4	4	3	3	2	1	3	6	\$ 6,825.00	HC
High School	Replace kitchen hood exhaust system in lower level cafeteria	3	3	3	4	3	3	2	1	1	4	6	\$ 39,000.00	P
High School	Renovate 2-story locker rooms. Make ADA accessible	3	3	2	4	4	4	3	1	1	3	6	\$ 643,500.00	L
High School	Install new ADA compliant handrails @ exit stairs around building. Several locations have no handrails at all.	3	2	2	5	4	4	3	1	1	3	6	\$ 45,500.00	HC
High School	Replace concrete steps at exterior door C5 - spalled worn finish, cracks at bottom (Northeast corner adjacent to dome).	3	3	3	3	4	3	3	1	1	3	6	\$ 5,850.00	CONC
High School	Spalled surface parging on tennis courts high retaining wall at south east corner, reparaige.	2	3	3	4	3	3	2	2	2	4	6	\$ 68,250.00	AF
High School	Replace/upgrade the existing monitoring system on both underground oil tanks.	3	2	2	4	4	3	2	2	2	4	6	\$ 19,500.00	HVAC
High School	Grade/fill with soil along building edge of main canopy sidewalk - tripping hazard.	3	3	2	4	4	3	2	1	1	3	6	\$ 15,600.00	L
High School	Install safety railing and handrail on stairs leading down to lower level of chiller area. Also at adjacent loading dock stairs.	3	2	2	4	3	3	3	2	2	4	6	\$ 1,072.50	HC
High School	Replace Library furniture	2	3	3	4	3	3	2	1	1	4	5	\$ 227,500.00	SP
High School	Extend existing domestic hot water return piping where required.	2	3	3	4	3	3	2	1	1	4	5	\$ 32,500.00	P
High School	Review CCTV system and add cameras and NVR's as required to meet current occupant needs.	2	3	3	4	3	3	3	1	1	3	5	\$ 32,500.00	FA

**WISSAHICKON SCHOOL DISTRICT  
RECOMMENDATIONS  
LISTED BY BUILDING**

SCHOOL	ITEM	SA	CV	EI	NP	PC	DE	CI	LEI	ESI	LE	PRIORITY	2011 Estimated Cost Including 30% Indirect Costs	Category
High School	Allowance for Asphalt paved drives and parking lots - Remove & replace	3	2	2	4	3	3	3	2	2	3	5	\$ 832,000.00	PA
High School	Allowance for Asphalt paved drives and parking lots - Seal cracks & overlay	3	2	2	4	3	3	3	2	2	3	5	\$ 1,300,000.00	PA
High School	Install ADA compliant railings/handrills. Also install ADA ramp access.	3	2	2	4	3	3	3	2	2	3	5	\$ 45,500.00	HC
High School	The intercom system should be updated down the road. While functional it is a little antiquated.	2	3	2	5	3	3	2	1	1	4	5	\$ 1,020,500.00	CS
High School	Replace Kitchen Equipment	3	2	2	4	3	3	3	2	2	3	5	\$ 1,300,000.00	FS
High School	Reconfigure receiving area. Access is difficult for deliveries and for District use	3	2	2	4	3	3	3	2	2	3	5	\$ 52,000.00	PA
High School	Replace electric water coolers	2	2	2	5	3	3	3	1	2	4	5	\$ 46,800.00	P
High School	Allowance to provide landscaping around building	2	3	2	4	3	3	3	1	1	4	5	\$ 260,000.00	L
High School	Update communication system, does not announce in Corridors or Cafeteria	3	2	2	4	3	3	3	2	2	2	5	\$ 117,000.00	CS
High School	Provide air balancing services to investigate issues & temperature issues in various areas	3	2	2	4	3	3	3	2	2	2	5	\$ 36,400.00	CS
High School	Provide additional roof ladders for access to various roof levels. Install cages where required.	5	1	2	1	5	3	2	1	1	5	5	\$ 11,700.00	R
High School	Upgrade TV Studio	2	3	3	2	3	3	3	2	2	3	5	\$ 195,000.00	UN
High School	Provide ramp in front corridor for ADA access from main entrance to "old" gymnasium	3	2	2	4	2	3	4	1	1	3	5	\$ 13,000.00	HC
High School	Expand visitors and administrators parking along front of building. Provide adequate ADA parking	2	1	1	3	5	3	5	1	2	5	5	\$ 296,400.00	PA
High School	Replace Ceramic Wall tile in 1961 Building	2	2	2	4	3	4	2	1	1	3	5	\$ 899,600.00	FIN
High School	Provide additional site directional signage	3	2	1	4	3	3	3	1	1	3	5	\$ 4,550.00	L
High School	Replace floor finishes in "Audion"	2	2	2	3	2	4	3	1	2	4	5	\$ 10,796.50	FC
High School	Refinish stage and stage front in "Audion"	2	2	2	3	2	4	3	1	2	4	5	\$ 17,615.00	TE
High School	Add/modify ADA sidewalk accessibility from parking lot to sidewalks.	3	2	2	3	3	3	2	1	1	3	5	\$ 582.40	CONC



**WISSAHICKON SCHOOL DISTRICT  
RECOMMENDATIONS  
LISTED BY BUILDING**

SCHOOL	ITEM	SA	CV	EI	NP	PC	DE	CI	LEI	ESI	LE	PRIORITY	2011 Estimated Cost Including 30% Indirect Costs	Category
High School	Provide wheelchair seating with companion seating in main auditorium	3	2	2	3	2	3	3	1	1	3	5	\$ 19,500.00	HC
High School	Replace flooring in main auditorium (not stage)	3	2	2	3	2	3	3	1	1	3	5	\$ 188,812.00	FC
High School	Replace vertical metal siding, paint finish worn, peeling and panels are rusting.	2	2	2	3	3	3	2	2	2	3	5	\$ 31,200.00	UN
High School	Replace Library carpet	2	2	2	4	3	3	2	1	1	3	5	\$ 183,118.00	FC
High School	Replace window shades	2	2	2	4	3	3	2	1	1	3	5	\$ 343,200.00	WT
High School	Replace fan-coil units located in classrooms	2	2	3	4	1	4	2	1	1	2	5	\$ 2,016,300.00	HVAC
High School	Repair/repaint brick/masonry, recaulk control joints.	2	2	2	3	3	3	2	2	1	3	5	\$ 771,387.50	M
High School	Replace Non Terrazzo flooring in corridors and stairs	2	2	2	3	3	3	2	1	1	4	5	\$ 648,180.00	FC
High School	Polish existing Terrazzo flooring	2	2	2	4	2	3	2	1	1	3	5	\$ 224,900.00	FC
High School	Replace VCT in Preschool and Family Consumer Science	2	2	2	4	2	3	2	1	1	3	5	\$ 24,700.00	FC
High School	Repaint all cmu walls	2	2	2	4	2	3	2	1	1	3	5	\$ 514,800.00	FIN
High School	Repaint all gypsum board walls, Fascia, & soffits	2	2	2	4	2	3	2	1	1	3	5	\$ 146,250.00	FIN
High School	Seal exposed cold joint in concrete sill below exterior curtain wall windows.	2	2	2	3	3	3	2	1	1	3	4	\$ 8,450.00	M
High School	Replace Music and Band room doors	2	2	2	3	3	3	2	1	1	3	4	\$ 32,760.00	ID
High School	Install overflow roof drains on lecture hall roof & back stage roof	2	2	2	2	3	3	2	1	1	4	4	\$ 3,900.00	R
High School	Install overflow roof drain on lower roof at auditorium.	2	2	3	1	3	3	2	1	1	3	4	\$ 1,300.00	R
High School	Replace roof drains. Include vertical leader down to and including first elbow	2	2	3	1	3	3	2	1	1	3	4	\$ 31,200.00	R
High School	Repaint southwest corner upper level screen wall structural steel, surfaces are rusting.	2	2	2	3	2	3	2	1	1	3	4	\$ 4,290.00	FIN
High School	Refinish main stage floor	2	2	2	3	2	3	2	1	1	3	4	\$ 24,570.00	FC
High School	Replace Stage Curtain (square feet)	2	2	2	3	2	3	2	1	1	3	4	\$ 52,650.00	SP
High School	Repair locker tops	2	2	2	3	2	3	2	1	1	3	4	\$ 45,500.00	SL
High School	Replace dark brown fascia extension around building.	2	2	2	2	2	3	2	1	1	4	4	\$ 156,429.00	UN
High School	Repaint all exposed structural steel columns.	2	2	2	2	2	3	2	1	1	3	4	\$ 1,735.50	FIN
													\$ 30,220,408.14	

**WISSAHICKON SCHOOL DISTRICT  
RECOMMENDATIONS  
LISTED BY BUILDING**

SCHOOL	ITEM	SA	CV	EI	NP	PC	DE	CI	LEI	ESI	LE	PRIORITY	2011 Estimated Cost Including 30% Indirect Costs	Category
Middle School	Replace existing 20 year old generator down the road. Add additional heating equipment during this time as directed by owner	3	4	3	4	4	4	3	3	3	4	7	\$ 195,000.00	ES
Middle School	Replace older ITE panelboards and transformers with newer, safer and more efficient equipment	3	4	3	4	4	4	3	3	3	4	7	\$ 425,880.00	ES
Middle School	Replace existing oil tank monitoring system	4	3	3	4	4	3	3	3	3	4	7	\$ 9,360.00	HVAC
Middle School	Replace existing boilers and provide a dedicated boiler for pool water heating	3	3	3	4	4	4	4	3	3	4	7	\$ 309,400.00	P
Middle School	Allowance for sidewalk replacement	3	3	3	5	4	3	3	3	1	5	7	\$ 115,700.00	CONC
Middle School	Allowance for curb replacement	3	3	3	5	4	3	3	3	1	5	7	\$ 9,360.00	CONC
Middle School	Replace all kitchen equipment	3	3	3	4	4	4	3	3	3	4	7	\$ 715,000.00	FS
Middle School	Renovate locker rooms & showers for Gymnasiums and Natatorium. In poor condition and not ADA compliant	3	3	3	4	4	4	4	3	2	4	7	\$ 239,200.00	LR
Middle School	Replace natatorium equipment & piping	3	3	3	4	3	4	4	3	3	4	7	\$ 260,000.00	GE
Middle School	Renovate natatorium	3	3	3	4	3	4	4	3	3	4	7	\$ 1,820,000.00	GE
Middle School	Main entrance not ADA compliant. Infill stairs and provide ramp outside building	3	3	3	4	4	4	4	2	2	4	7	\$ 117,000.00	HC
Middle School	Reconfigure Main Office area to provide secure building entrance	3	3	3	4	4	4	4	2	2	4	7	\$ 608,400.00	UN
Middle School	Replace existing heating and ventilating units in Gymnasium Locker Rooms	3	3	3	4	4	3	3	3	3	4	7	\$ 104,000.00	HVAC
Middle School	Replace existing heating and ventilating units in Pool Locker Rooms	3	3	3	4	4	3	3	3	3	4	7	\$ 104,000.00	HVAC
Middle School	Replace existing Domestic Water Heater located in the Boiler Room	3	3	3	4	4	3	3	3	3	4	7	\$ 58,500.00	P
Middle School	Replace windows on original building	2	3	3	4	4	3	3	3	4	4	6	\$ 202,800.00	WR
Middle School	Install new ADA compliant elevator. Medical Gurney will not fit in existing elevator	3	3	3	4	3	4	3	2	2	4	6	\$ 130,000.00	HC
Middle School	Replace Gymnasium divider curtains	2	4	4	4	3	3	3	1	1	4	6	\$ 247,000.00	GE
Middle School	Stairs leading down to track & football field do not have ADA compliant handrails. (2 sets of stairs)	3	3	3	4	4	3	4	1	1	4	6	\$ 26,000.00	HC
Middle School	There is no ADA access ramp from building level down to running track & football field.	3	3	3	4	4	3	4	1	1	4	6	\$ 28,600.00	HC
Middle School	Provide steps & ADA compliant ramp leading down to cross-over bridge accessing back playing field.	3	3	3	4	4	3	4	1	1	4	6	\$ 71,500.00	HC
Middle School	Install sprinklers in original building for complete coverage	3	3	2	4	4	4	3	2	2	4	6	\$ 709,800.00	P
Middle School	Renovate Toilet Rooms, not ADA compliant	3	3	3	4	3	3	3	2	2	4	6	\$ 1,202,760.00	TRG
Middle School	Add additional power circuits as well as receptacles as required in classrooms to limit power strip use.	3	3	3	4	3	3	3	2	2	4	6	\$ 78,000.00	ES

**WISSAHICKON SCHOOL DISTRICT  
RECOMMENDATIONS  
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SCHOOL	ITEM	SA	CV	EI	NP	PC	DE	CI	LEI	ESI	LE	PRIORITY	2011 Estimated Cost Including 30% Indirect Costs	Category
Middle School	Replace lighting in gymnasiums and pool to provide better lighting and more energy efficiency.	2	3	3	4	3	3	3	3	3	4	6	\$ 143,000.00	IL
Middle School	Tennis Courts - seal cracks in courts and install bridging membrane. Install overlay wearing surface and resurface.	3	3	3	4	3	3	3	3	1	4	6	\$ 13,650.00	AF
Middle School	Replace pool ceilings	3	3	3	4	3	3	3	3	1	4	6	\$ 50,700.00	CLG
Middle School	Replace ceilings	2	3	3	4	3	4	3	2	2	3	6	\$ 591,500.00	CLG
Middle School	Revise emergency lighting system so that entire system be shut down during night. Remove batt ballasts and add emergency only lights in applicable classrooms.	3	2	2	4	3	3	3	3	3	4	6	\$ 378,560.00	ES
Middle School	Provide ADA access to Natatorium	2	3	3	3	4	3	4	1	1	4	6	\$ 32,500.00	HC
Middle School	Test domestic water for lead & sediment - possibly replace piping	3	3	2	4	3	4	2	1	1	4	6	\$ 59,150.00	P
Middle School	Investigate sanitary sewer system, replace damaged portions	3	3	2	4	3	4	2	1	1	4	6	\$ 59,150.00	P
Middle School	Replace domestic water service	3	3	2	4	3	4	2	1	1	4	6	\$ 58,500.00	P
Middle School	Back playing field was noted to have drainage issues. Recommend raising finish field playing surface elevation to help with this issue.	2	3	3	4	3	3	3	1	1	4	6	\$ 106,080.00	AF
Middle School	Refinish gymnasium floors	2	3	3	4	3	3	3	1	1	4	6	\$ 174,200.00	FC
Middle School	Review CCTV system and add cameras and NVR's as required to meet current occupant needs.	3	3	3	4	2	3	2	1	1	4	6	\$ 26,000.00	FA
Middle School	Replace canopy light fixtures, repair canopies	3	2	2	4	3	3	3	2	2	4	6	\$ 21,060.00	UN
Middle School	Replace window treatments	2	3	3	4	4	3	2	1	1	3	6	\$ 37,180.00	WT
Middle School	Upgrade the HVAC control system software.	3	2	2	4	3	3	3	2	2	4	6	\$ 13,000.00	ATC
Middle School	Provide additional parking for faculty, staff, and visitors	2	2	2	3	5	3	4	2	2	4	5	\$ 39,000.00	PA
Middle School	Replace classroom doors and hardware, close side light louvers	3	3	2	4	3	3	2	1	1	4	5	\$ 102,960.00	ID
Middle School	Replace plastic laminated casework	2	3	3	4	3	3	2	1	1	4	5	\$ 754,000.00	CA
Middle School	Replace classroom carpet with VCT	2	3	3	4	3	3	2	1	1	4	5	\$ 415,209.60	FC
Middle School	Replace parking lot lights and light bases. Install additional lighting.	3	2	2	4	4	3	3	1	1	4	5	\$ 143,000.00	EL
Middle School	Repair demountable partitions	2	3	3	4	3	3	3	1	1	3	5	\$ 19,500.00	SP
Middle School	Provide a dimming system in the TV studio for light fixtures.	2	3	3	4	3	3	2	1	1	4	5	\$ 19,500.00	IL
Middle School	Add Occupancy Sensors in classrooms, restrooms, offices and other code locations to save energy.	3	2	2	4	3	3	2	2	2	4	5	\$ 143,000.00	ES



**WISSAHICKON SCHOOL DISTRICT  
RECOMMENDATIONS  
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SCHOOL	ITEM	SA	CV	EI	NP	PC	DE	CI	LEI	ESI	LE	PRIORITY	2011 Estimated Cost Including 30% Indirect Costs	Category
Middle School	Replace roof. Many blistering areas, abandoned curbs, ponding water, poor drainage, replace roof drains, noted many leaks. Provide overflow scuppers on sixth grade pod	3	3	2	3	3	3	2	1	1	5	5	\$ 2,504,361.60	R
Middle School	Replace Corridor stair treads and risers	3	2	2	4	3	3	3	1	1	4	5	\$ 3,900.00	STI
Middle School	Replace F&CS equipment	2	3	3	3	3	3	2	1	1	4	5	\$ 78,000.00	CA
Middle School	Provide new backstop at baseball field. Install dugout roofs with chain link fence for separation	2	3	2	3	4	3	3	1	1	4	5	\$ 58,500.00	AF
Middle School	Provide new backstop at softball field. Install dugout roofs with chain link fence for separation	2	3	2	3	4	3	3	1	1	4	5	\$ 58,500.00	AF
Middle School	Install protective cages on roof access ladder by chiller.	5	2	2	1	4	3	2	1	1	4	5	\$ 3,120.00	R
Middle School	Install ADA indicators at all existing exterior ADA ramps.	3	2	2	4	3	3	2	1	1	4	5	\$ 4,225.00	HC
Middle School	Regrade along sidewalks - tripping hazard.	3	2	2	4	3	3	2	1	1	4	5	\$ 62,400.00	L
Middle School	Exit door stairs need ADA handrails at D1.	3	2	2	4	3	3	2	1	1	4	5	\$ 1,950.00	ED
Middle School	Replace exterior aluminum doors and hardware	2	2	2	4	3	3	2	2	2	4	5	\$ 239,200.00	ED
Middle School	Replace exterior hollow metal doors and hardware	2	2	2	4	3	3	2	2	2	4	5	\$ 74,620.00	ED
Middle School	Provide additional site directional signage	3	2	2	3	3	3	3	1	1	4	5	\$ 3,250.00	L
Middle School	Provide ADA access to spectators area in Natatorium	2	2	2	3	4	3	4	1	1	4	5	\$ 39,000.00	HC
Middle School	Replace flooring in Corridor ramps. Provide slip resistant finish	2	2	2	4	3	3	3	1	1	4	5	\$ 4,680.00	FC
Middle School	Install acoustic treatment in Gymnasium (two)	2	3	2	4	2	3	2	1	1	4	5	\$ 130,000.00	UN
Middle School	Install acoustic treatment in Natatorium	2	3	2	4	2	3	2	1	1	4	5	\$ 84,500.00	UN
Middle School	Replace grease trap	2	2	2	4	3	3	2	1	1	4	5	\$ 32,500.00	FS
Middle School	Allowance to seal cracks in asphalt paved drives and parking lots. Install overlay wearing course	2	2	2	4	3	3	2	1	1	4	5	\$ 433,875.00	PA
Middle School	Repair grass areas in high traffic areas around building.	2	2	2	4	3	3	2	1	1	4	5	\$ 13,000.00	L
Middle School	Repoint masonry and repair brick around building, signs of joint cracking and erosion.	2	2	2	4	3	3	2	1	1	4	5	\$ 567,515.00	M
Middle School	Replace recessed lights in main entrance canopy.	2	2	2	3	3	3	2	2	2	4	5	\$ 3,900.00	EL
Middle School	Replace carpet in Admin/Library/Large Group	2	2	2	4	3	3	2	1	1	4	5	\$ 179,770.50	FC
Middle School	Refinish terrazzo floors	2	2	2	4	3	3	2	1	1	4	5	\$ 130,000.00	FC
Middle School	Replace VCT	2	2	2	4	3	3	2	1	1	4	5	\$ 197,600.00	FC



**WISSAHICKON SCHOOL DISTRICT  
RECOMMENDATIONS  
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SCHOOL	ITEM	SA	CV	EI	NP	PC	DE	CI	LEI	ESI	LE	PRIORITY	2011 Estimated Cost Including 30% Indirect Costs	Category
Middle School	Replace interior stair doors with 3'-0" / 2'-0" doors. Not ADA compliant	2	2	2	4	3	2	2	1	1	4	5	\$ 56,160.00	ID
Middle School	Replace interior doors in Athletic wing, provide panic hardware	2	2	2	4	3	2	2	1	1	4	5	\$ 124,800.00	ID
Middle School	Reconfigure loading dock area for truck access	3	2	2	2	3	3	2	1	1	4	5	\$ 74,880.00	UN
Middle School	Replace lightning protection. Provide coverage on entire building	2	2	2	3	3	3	2	1	1	4	5	\$ 111,280.00	R
Middle School	Wing side walls at door D1 stairs need to be rebuilt.	2	2	2	3	3	3	2	1	1	4	5	\$ 5,070.00	M
Middle School	Replace Quarry Tile floor in kitchen	2	2	2	3	3	3	2	1	1	4	5	\$ 48,620.00	FC
Middle School	Repaint all cmu walls	2	2	2	4	2	3	2	1	1	3	5	\$ 348,075.00	FIN
Middle School	Repaint office and guidance	2	2	2	4	2	3	2	1	1	3	5	\$ 6,825.00	FIN
Middle School	Install ADA compliant room signage	2	2	2	3	2	3	2	1	1	4	4	\$ 26,000.00	SI
Middle School	Replace electric water coolers	2	1	2	4	2	3	2	1	1	4	4	\$ 9,360.00	P
Middle School	Masonry screen wall at loading dock (adjacent to ADA parking) needs to be completely rebuilt. There is no thru-wall flashing or weeps, wall has extensive structural damage due to water infiltration.	2	2	2	2	3	3	2	1	1	4	4	\$ 39,000.00	M
Middle School	Repaint door frames	2	2	2	3	2	3	2	1	1	3	4	\$ 306,150.00	FIN
Middle School	Caulk vertical expansion joints and around window frames.	2	2	2	2	2	3	2	1	1	4	4	\$ 47,320.00	M
Middle School	Recaulk rising metal wall flashing joints (bottom of vert. metal panels).	2	2	2	2	2	3	2	1	1	4	4	\$ 23,660.00	M
Middle School	Vertical metal siding - signs of rusting at numerous locations around building. Repaint or replace.	2	2	2	2	2	3	2	1	1	4	4	\$ 252,861.70	UN
Middle School	Install protective cages around large skylight	3	2	2	1	3	1	1	1	1	4	4	\$ 13,104.00	R
Middle School	Provide end panels for bleachers in gymnasium	2	1	1	3	2	3	2	1	1	4	4	\$ 9,360.00	GE
													<b>\$ 17,598,552.40</b>	

**WISSAHICKON SCHOOL DISTRICT  
RECOMMENDATIONS  
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SCHOOL	ITEM	SA	CV	EI	NP	PC	DE	CI	LEI	ESI	LE	PRIORITY	2011 Estimated Cost Including 30% Indirect Costs	Category
Blue Bell	Remove modular classrooms, replace with permanent structures	3	5	4	5	5	5	4	5	3	5	9	\$ 1,047,540.00	UN
Blue Bell	Replace kitchen equipment	3	4	4	4	4	4	4	3	4	4	8	\$ 650,000.00	FS
Blue Bell	Replace old panel boards that were not replaced in most recent renovations.	3	3	4	4	4	4	3	4	4	4	7	\$ 130,000.00	ES
Blue Bell	Provide new generator and increase emergency to add heating system.	3	3	4	4	3	4	3	4	3	4	7	\$ 143,000.00	ES
Blue Bell	Replace roof on original portion of building - provide tapered insulation for proper drainage. Install additional roof drains. Remove and infill skylights	3	3	4	4	4	4	3	3	2	4	7	\$ 982,800.00	R
Blue Bell	Replace Classroom (wood & glass) Corridor wall with HM frame and tempered glass	3	4	4	4	3	3	3	2	2	5	7	\$ 11,700.00	ID
Blue Bell	Renovate Cafeteria (flooring, wall finishes, acoustic treatments, etc.)	2	4	4	4	4	4	3	3	2	4	7	\$ 436,800.00	FC
Blue Bell	The majority of the domestic water piping is original. Consider replacement especially if an area of the building is renovated.	3	3	4	4	4	4	3	3	2	4	7	\$ 19,500.00	P
Blue Bell	The existing underground fuel oil tank is double wall steel, installed in 1989. Consider replacement of the tank or at a minimum have the tank tested to verify there are no leaks. Provide a new leak detection system.	3	2	4	4	4	3	4	3	4	4	7	\$ 75,400.00	HVAC
Blue Bell	Test domestic water for lead & sediment - possibly replace piping	3	2	4	4	4	4	3	3	1	4	6	\$ 31,720.00	P
Blue Bell	Remodel gang toilet rooms and provide proper facilities for building population	3	3	3	4	3	4	3	3	2	4	6	\$ 234,000.00	TRG
Blue Bell	Replace Classroom doors, provide tempered glass	3	3	3	4	3	3	3	3	2	4	6	\$ 63,180.00	ID
Blue Bell	Investigate sanitary sewer system, replace damaged portions	3	2	4	4	4	4	3	1	1	4	6	\$ 31,720.00	P
Blue Bell	Provide access drive between parent drop off loop and paved play area for additional visitor parking - install gate	3	3	2	4	4	3	5	1	2	4	6	\$ 16,380.00	PA
Blue Bell	Install new keying system - match District-wide system	3	3	3	4	3	3	3	2	2	4	6	\$ 54,600.00	ID
Blue Bell	renovate Classroom Toilets, not ADA compliant	3	3	3	3	3	4	3	3	2	4	6	\$ 134,784.00	TRI
Blue Bell	Provide hot water to classrooms and classroom toilet rooms	2	3	4	4	4	3	2	2	4	1	6	\$ 29,120.00	P
Blue Bell	Repair concrete foundation	3	2	4	4	4	3	3	1	1	4	6	\$ 6,240.00	CONC
Blue Bell	Add carbon dioxide sensors to provide demand control ventilation on 5 air handling units	3	2	4	4	4	3	3	1	1	4	6	\$ 19,500.00	HVAC
Blue Bell	Update the HVAC control system with the current version of the manufacturer's software.	3	3	2	4	4	3	3	2	2	4	6	\$ 13,000.00	ATC
Blue Bell	Replace exterior doors	2	3	3	4	3	3	3	3	2	4	6	\$ 100,100.00	ED
Blue Bell	Replace gymnasium upper single-pane windows with double-pane windows.	2	3	3	4	3	3	3	3	2	4	6	\$ 33,696.00	WR
Blue Bell	Recaulk all exterior windows.	2	3	3	4	3	3	3	3	2	4	6	\$ 7,800.00	WR

**WISSAHICKON SCHOOL DISTRICT  
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SCHOOL	ITEM	SA	CV	EI	NP	PC	DE	CI	LEI	ESI	LE	PRIORITY	2011 Estimated Cost Including 30% Indirect Costs	Category
Blue Bell	Regrade soil along sidewalks behind school to correct potential tripping hazard. (Between building & bus garage)	3	3	3	4	3	3	3	1	1	4	6	\$ 58,500.00	L
Blue Bell	Replace fire alarm system	3	2	3	4	3	3	3	2	2	4	6	\$ 158,600.00	FA
Blue Bell	Install lighting & sound system for Cafeteria stage	2	4	2	4	3	3	3	2	2	4	6	\$ 104,000.00	TE
Blue Bell	Upgrade storm sewer system, tie roof drains from building additions to underground system	2	2	4	4	3	4	3	1	1	5	6	\$ 79,300.00	SW
Blue Bell	Reinstall fire extinguisher cabinets to acceptable ADA height. Currently mounted at 52" AFF to key	3	2	3	4	4	3	3	1	1	4	6	\$ 9,750.00	FA
Blue Bell	Replace Gym/Large Group wood floor	2	3	3	4	3	3	3	2	1	4	6	\$ 24,570.00	FC
Blue Bell	Add receptacles as required in classrooms to limit power strip use.	2	4	2	4	3	3	3	2	1	4	6	\$ 34,125.00	ES
Blue Bell	Regrade around building to achieve positive drainage away from Guidance and Nurse Suite section of building.	2	3	3	4	3	3	3	1	1	5	6	\$ 15,210.00	L
Blue Bell	Allowance to seal cracks in asphalt paving and overlay new asphalt wearing course.	2	3	3	4	3	3	3	2	1	4	6	\$ 292,500.00	PA
Blue Bell	Allowance for concrete sidewalk repair	2	3	2	4	3	3	4	2	2	4	6	\$ 67,275.00	CONC
Blue Bell	Allowance for concrete curb repair	2	3	2	4	3	3	4	2	2	4	6	\$ 14,560.00	CONC
Blue Bell	Add insulation and finish at Classroom window system heads	2	3	2	4	3	3	3	3	2	4	6	\$ 8,125.00	WR
Blue Bell	Repair and/or modify existing domestic hot water return system to correct issue with the lack of hot water.	3	2	3	4	3	3	2	2	1	4	6	\$ 19,500.00	P
Blue Bell	Install new sprinkler system throughout building	3	2	3	4	3	3	2	2	1	4	6	\$ 237,900.00	P
Blue Bell	Replace suspended ceiling system	2	2	3	4	3	3	3	2	2	4	6	\$ 214,500.00	CLG
Blue Bell	Replace handrail on stage stair	2	3	2	4	3	3	4	2	1	4	6	\$ 6,500.00	STI
Blue Bell	Replace VCT in original building Classrooms and Corridors	2	2	3	4	3	3	3	2	2	4	6	\$ 209,040.00	FC
Blue Bell	Install lightning protection	2	2	3	4	3	3	3	3	1	4	6	\$ 62,400.00	R
Blue Bell	Provide additional exit signs and emergency lighting as required to meet code minimum values.	3	2	2	4	3	3	3	2	2	4	6	\$ 130,000.00	FA
Blue Bell	Replace chain link fence along route 73	3	2	2	4	4	3	3	1	1	4	5	\$ 32,500.00	L
Blue Bell	Replace exterior lighting, provide additional lighting for security	3	2	2	4	2	3	4	2	2	4	5	\$ 91,000.00	EL
Blue Bell	Supplement security system. provide cameras in office area and exterior north side of building	3	2	3	3	3	3	3	2	2	3	5	\$ 32,500.00	FA
Blue Bell	Provide handicapped accessible playground equipment	2	4	2	2	3	3	4	2	2	4	5	\$ 26,000.00	HC
Blue Bell	Replace corridor door hold opens	3	2	2	4	3	3	2	2	2	4	5	\$ 9,360.00	ID
Blue Bell	Replace cafeteria tables	2	3	2	4	3	3	3	2	1	4	5	\$ 52,000.00	SP

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SCHOOL	ITEM	SA	CV	EI	NP	PC	DE	CI	LEI	ESI	LE	PRIORITY	2011 Estimated Cost Including 30% Indirect Costs	Category
Blue Bell	Replace classroom exterior doors.	2	2	3	4	3	3	3	1	1	4	5	\$ 20,020.00	ED
Blue Bell	Install new window shades	2	3	2	4	2	3	3	2	1	4	5	\$ 85,800.00	WT
Blue Bell	Provide screens on operable windows	2	3	2	4	3	3	2	1	1	4	5	\$ 7,553.00	WR
Blue Bell	Replace delaminating wood panels and glass in main hall	2	2	3	3	3	3	3	2	1	4	5	\$ 2,652.00	FIN
Blue Bell	Replace all soffit panels around perimeter of building (both high & low roof areas.)	2	2	3	4	3	3	2	1	1	4	5	\$ 148,824.00	R
Blue Bell	Replace all doors	2	2	2	4	3	3	3	2	1	4	5	\$ 416,000.00	ID
Blue Bell	Replace casework	2	2	2	4	3	3	3	2	1	4	5	\$ 585,000.00	CA
Blue Bell	Consider upgrading the acoustical treatment on the roof mounter air-cooled chiller if ambient noise is an issue.	2	3	2	4	2	3	3	1	1	4	5	\$ 19,500.00	HVAC
Blue Bell	Rebuild parged half wall and set slate capstones at Kindergarten courtyard.	2	3	2	3	3	3	3	1	1	4	5	\$ 6,240.00	M
Blue Bell	Repair/Replace slate patio at kindergarten playground area.	2	3	2	3	3	3	3	1	1	4	5	\$ 18,200.00	CONC
Blue Bell	Paint all Drywall and CMU walls, fascia and soffits	2	2	2	4	3	3	3	1	1	3	5	\$ 118,950.00	FIN
Blue Bell	Repaint all interior door frames	2	2	2	4	3	3	3	1	1	3	5	\$ 59,475.00	FIN
Blue Bell	Replace roof top exhaust vents	3	2	2	2	3	3	2	2	1	4	5	\$ 19,500.00	HVAC
Blue Bell	Widen concrete sidewalk at bottom of ADA sidewalk ramp outside of room #26.	2	2	3	2	3	3	3	1	1	4	5	\$ 2,106.00	CONC
Blue Bell	Install intercom in Kitchen and boiler room office	3	2	2	2	2	3	2	2	2	4	5	\$ 9,100.00	CS
Blue Bell	Provide HVAC system testing, adjusting, & balancing services including review of heating & cooling loads	2	2	2	4	3	3	1	2	1	3	5	\$ 13,000.00	HVAC
Blue Bell	Add signage at electrical services to indicate (2) services to building for code.	3	2	2	2	3	3	2	1	1	4	5	\$ 650.00	SI
Blue Bell	Add Occupancy Sensors in classrooms, offices and other code locations to save energy.	3	2	2	2	3	3	2	1	1	4	5	\$ 52,000.00	ES
Blue Bell	Install roof access ladders from main low roof to classroom wing roof areas.	3	2	2	2	3	3	2	1	1	4	5	\$ 4,680.00	R
Blue Bell	Refinish rusted louver and window lintels.	2	2	2	3	3	3	2	1	1	4	5	\$ 8,320.00	M
Blue Bell	Review distribution and add capacitors as required to correct poor power factor.	3	2	2	2	3	3	2	1	1	3	5	\$ 39,000.00	ES
Blue Bell	Repair and paint main entrance canopy columns. Rust appearing.	2	2	2	4	2	3	2	1	1	3	5	\$ 936.00	FIN
Blue Bell	Repair damaged and cracked brick/masonry	2	2	2	3	2	3	2	1	1	4	4	\$ 16,250.00	M
Blue Bell	Replace receiving area ceiling	2	2	2	2	3	3	2	1	1	4	4	\$ 812.50	CLG
Blue Bell	Replace Gymnasium stage floor	2	2	2	2	2	3	3	1	1	4	4	\$ 4,992.00	FC



**WISSAHICKON SCHOOL DISTRICT  
RECOMMENDATIONS  
LISTED BY BUILDING**

SCHOOL	ITEM	SA	CV	EI	NP	PC	DE	CI	LEI	ESI	LE	PRIORITY	2011 Estimated Cost Including 30% Indirect Costs	Category
Blue Bell	Repair masonry pointing on chimney, including replacement of broken bricks	2	2	2	1	3	3	2	1	1	4	4	\$ 1,300.00	M
Blue Bell	Replace fence, gate, and handrails to outside entrance to Boiler Room	3	1	1	1	3	3	2	1	1	5	4	\$ 5,460.00	STE
Blue Bell	Replace Library carpet and main office carpet	2	2	2	1	2	3	3	1	1	3	4	\$ 28,762.50	FC
Blue Bell	Replace floor grate in Boiler Room	3	1	1	1	3	3	2	1	1	4	4	\$ 6,500.00	SW
Blue Bell	Install ventilation system in crawl space	3	1	1	1	3	3	1	1	1	4	4	\$ 19,500.00	HVAC
Blue Bell	Remove unused steam piping in crawl space	2	1	1	1	3	3	1	1	1	5	3	\$ 15,600.00	HVAC
													<b>\$ 7,998,978.00</b>	

**WISSAHICKON SCHOOL DISTRICT  
RECOMMENDATIONS  
LISTED BY BUILDING**

SCHOOL	ITEM	SA	CV	EI	NP	PC	DE	CI	LEI	ESI	LE	PRIORITY	2011 Estimated Cost Including 30% Indirect Costs	Category
Shady Grove	Install guard rail at exit door steps along north elevation near boiler room and along ramp wall.	3	3	4	5	5	4	5	2	1	4	7	\$ 14,625.00	L
Shady Grove	Replace existing air cooled chillers	3	3	4	4	4	4	3	3	3	4	7	\$ 279,500.00	HVAC
Shady Grove	Replace all kitchen equipment, dishwasher in poor condition, ice maker is broken, line equipment is original to building	2	3	4	4	4	4	3	4	4	4	7	\$ 650,000.00	FS
Shady Grove	Provide additional emergency lighting as required to meet code minimum values.	3	3	4	4	4	4	3	3	2	4	7	\$ 130,000.00	IL
Shady Grove	Update HVAC controls system software	3	3	4	4	3	3	3	3	3	4	7	\$ 10,400.00	ATC
Shady Grove	Expand existing Simplex 4020 Fire Alarm System visual devices into Classrooms to meet current codes. Add smoke detectors in corridors.	3	3	4	4	3	4	3	2	3	4	7	\$ 58,500.00	FA
Shady Grove	Replace existing boilers.	3	2	4	4	3	4	3	3	4	4	7	\$ 208,000.00	HVAC
Shady Grove	Replace old panel boards that were not replaced in most recent renovations.	3	2	4	4	4	3	3	4	2	4	7	\$ 238,680.00	ES
Shady Grove	Replace keying system to match District-wide system	3	3	3	4	5	3	5	1	2	3	7	\$ 68,250.00	ID
Shady Grove	Provide elevator to lower level classrooms ( converted Locker Room)	3	3	4	3	4	4	3	2	2	4	7	\$ 156,000.00	HC
Shady Grove	Provide elevator to lower level (main building & addition)	3	3	4	3	4	4	3	2	2	4	7	\$ 156,000.00	HC
Shady Grove	Repair soffit below drop-off drive canopy/open area, soffit is coming loose/pulling away.	4	2	4	4	4	4	3	1	1	4	7	\$ 87,048.00	R
Shady Grove	Allowance to replace concrete sidewalks	2	3	3	5	4	3	3	3	1	5	6	\$ 102,700.00	CONC
Shady Grove	Allowance to replace concrete curbs	2	3	3	5	4	3	3	3	1	5	6	\$ 11,440.00	CONC
Shady Grove	Repair plumbing by Library, (leaks through to floor below)	3	3	3	4	5	4	2	2	1	4	6	\$ 10,400.00	P
Shady Grove	Add carbon dioxide sensors to provide demand control ventilation on 3 air handling units	4	2	4	4	4	3	3	1	1	4	6	\$ 11,700.00	HVAC
Shady Grove	Replace ramp at main entrance, including guard/hand rails. Not ADA compliant (approx. 50 linear feet)	2	3	3	3	5	4	4	2	2	4	6	\$ 7,800.00	HC
Shady Grove	Repair canopies at stairs, two-story addition	2	3	4	4	4	4	3	1	1	4	6	\$ 3,744.00	STE
Shady Grove	Investigate & repair exterior foundation wall leak at "main entrance" stair	3	2	4	4	4	4	2	2	1	4	6	\$ 78,000.00	M
Shady Grove	Replace all existing rooftop air handling units. Install new ductwork and VAV system.	3	2	4	4	4	3	3	1	1	4	6	\$ 3,770,000.00	HVAC
Shady Grove	Replace Library furniture	2	4	3	4	3	3	3	2	1	4	6	\$ 97,500.00	SP
Shady Grove	Replace hand/guard rail at "main entrance" stair, not ADA compliant	3	2	3	4	4	3	4	2	1	4	6	\$ 3,900.00	HC
Shady Grove	Supplement chain link fence at areaway guard rail, lower section is open	4	2	2	4	5	3	3	1	1	4	6	\$ 2,912.00	L
Shady Grove	Replace exterior lighting, provide additional lighting for security	3	2	3	4	3	3	3	2	2	4	6	\$ 156,000.00	EL
Shady Grove	Replace windows, provide screens for operable windows	2	3	2	4	3	3	3	2	4	4	6	\$ 144,612.00	WR

**WISSAHICKON SCHOOL DISTRICT  
RECOMMENDATIONS  
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SCHOOL	ITEM	SA	CV	EI	NP	PC	DE	CI	LEI	ESI	LE	PRIORITY	2011 Estimated Cost Including 30% Indirect Costs	Category
Shady Grove	Add ADA parking facilities close to building.	2	3	3	3	4	3	4	2	1	4	6	\$ 14,560.00	PA
Shady Grove	Add receptacles as required in classrooms to limit power strip use.	2	4	2	4	3	3	3	2	1	4	6	\$ 52,000.00	ES
Shady Grove	Install ADA ramps at drop-off drive loop.	3	2	3	4	3	3	3	2	1	4	6	\$ 16,380.00	HC
Shady Grove	Replace concrete stairs and associated handrails from drive down to parking lots across from Boiler room.	3	2	3	4	3	3	3	2	1	4	6	\$ 13,000.00	STI
Shady Grove	Visible evidence of settlement at NE corner of building @ ramp to loading dock. Repair/rebuild masonry at corner.	3	2	3	4	3	3	3	2	1	4	6	\$ 6,240.00	M
Shady Grove	Replace ceiling in original part of building. Remove "hard" ceiling above suspended ceiling	2	2	3	4	3	3	3	3	2	4	6	\$ 678,600.00	CLG
Shady Grove	Replace roof ladders, provide ladder with cage to Gymnasium roof	4	2	3	2	5	3	2	1	1	4	6	\$ 4,056.00	R
Shady Grove	Replace roof	2	2	3	4	3	3	2	2	4	4	6	\$ 1,502,800.00	R
Shady Grove	Provide additional exit signage throughout building	3	2	3	4	3	3	3	1	1	4	6	\$ 26,000.00	SI
Shady Grove	Replace Library spray on acoustic finish with acoustic panels and new ceiling panels	2	3	3	4	3	3	3	1	1	4	6	\$ 31,200.00	CLG
Shady Grove	Replace roof drains on original building, including drain bowl, strainers and interior elbow fittings.	3	2	3	4	3	3	2	1	1	4	5	\$ 10,400.00	R
Shady Grove	Add Occupancy Sensors in classrooms, offices and other code locations to save energy.	2	2	4	3	3	3	3	2	1	4	5	\$ 71,500.00	ES
Shady Grove	Provide roof edge guards at AHU's 6, 7, and 8. Units within 10' of roof edge	4	2	3	1	5	3	2	1	1	4	5	\$ 14,040.00	R
Shady Grove	Allowance to seal cracks in asphalt drives and parking lots. Includes installation of overlay wearing course.	2	2	3	4	3	3	3	2	1	4	5	\$ 88,270.00	PA
Shady Grove	Apply sealer coating on asphalt paved playground area.	2	2	3	4	3	3	3	2	1	4	5	\$ 65,520.00	PA
Shady Grove	Replace Classroom sinks & bubblers with ADA compliant sinks	2	3	2	4	3	3	3	1	1	4	5	\$ 70,200.00	P
Shady Grove	Replace Library and Main Office carpet and vinyl base	2	3	2	4	3	3	3	1	1	4	5	\$ 130,000.00	FC
Shady Grove	Replace VCT throughout facility and resolve under slab moisture source	2	3	2	4	3	3	3	1	1	4	5	\$ 380,120.00	FC
Shady Grove	Paint all Drywall Finishes and CMU walls	2	3	2	4	3	3	3	1	1	4	5	\$ 198,900.00	FIN
Shady Grove	Replace vinyl wall covering in lower floor suite	2	3	2	4	3	3	3	1	1	4	5	\$ 26,000.00	FIN
Shady Grove	Replace sloped ceiling tiles in select corridors	2	3	2	4	3	3	3	1	1	4	5	\$ 13,650.00	CLG
Shady Grove	Repaint all door frames	2	3	2	4	3	3	3	1	1	4	5	\$ 198,900.00	FIN
Shady Grove	Provide overflow roof drains or scuppers for Gymnasium roof	2	2	3	4	3	3	2	1	1	4	5	\$ 1,300.00	R
Shady Grove	Review CCTV system and add cameras and NVR's as required to meet current occupant needs.	2	3	2	4	2	3	3	2	1	3	5	\$ 26,000.00	FA

**WISSAHICKON SCHOOL DISTRICT  
RECOMMENDATIONS  
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SCHOOL	ITEM	SA	CV	EI	NP	PC	DE	CI	LEI	ESI	LE	PRIORITY	2011 Estimated Cost Including 30% Indirect Costs	Category
Shady Grove	Replace interior stair and landing at roof access. Provide compliant guardrails	3	2	2	2	5	3	2	1	1	4	5	\$ 2,600.00	STI
Shady Grove	Remove and reinstall rising wall flashing at Gymnasium & stage to include thru-wall weep holes.	2	2	3	3	3	3	2	1	1	4	5	\$ 9,750.00	M
Shady Grove	Recaulk all exterior windows, door frames, masonry expansion joints and room unit vent grills/louvers.	2	2	3	3	3	3	2	1	1	4	5	\$ 132,600.00	M
Shady Grove	Provide additional directional site signage	3	2	2	3	2	3	3	1	1	4	5	\$ 2,600.00	L
Shady Grove	Wrap roof-top duct at AHU's to prevent roof leaks	2	3	3	2	3	3	2	1	1	3	5	\$ 71,500.00	HVAC
Shady Grove	Install corner guards at interior Corridor corners (damaged tile)	2	2	2	4	2	3	2	1	1	4	5	\$ 4,680.00	UN
Shady Grove	Raise/extend vent pipe, currently flush with roof.	2	2	3	2	3	3	2	1	1	4	5	\$ 11,440.00	R
Shady Grove	Repair approx 20% and refinish E.I.F.S.	2	2	2	3	3	3	2	2	1	3	5	\$ 101,400.00	UN
Shady Grove	Install lightning protection (roof sf)	2	2	2	3	3	3	2	1	1	4	5	\$ 70,720.00	R
Shady Grove	Replace underground oil tank	2	2	2	3	3	3	2	1	1	4	5	\$ 84,500.00	HVAC
Shady Grove	Replace acoustic wall system in Music/Band Rooms	2	2	2	3	3	3	2	1	1	3	4	\$ 65,000.00	HVAC
Shady Grove	Repair brick joints and cracks, repair caulk joints	2	2	2	2	3	3	2	1	1	4	4	\$ 48,750.00	M
Shady Grove	Refinish rusted steel lintels at curtain wall windows, doors as well as exposed columns.	2	2	2	2	3	3	2	1	1	4	4	\$ 7,150.00	FIN
Shady Grove	Refinish rusted steel lintels at recessed angled windows located at south end of building. Remove cracked mortar joint at ends of lintels and caulk joint.	2	2	2	1	3	3	2	1	1	4	4	\$ 2,730.00	FIN
Shady Grove	Repair/rebuild exterior door canopies, damaged soffits from roof leaks. Lights missing at several locations.	2	2	2	1	3	3	2	1	1	3	4	\$ 2,995.20	R
Shady Grove	Repair and paint drop-off drive canopy column bases, evidence of rust at bottom.	2	2	2	1	3	3	2	1	1	3	4	\$ 4,024.80	R
Shady Grove	Provide hot water in faculty room	2	2	2	1	2	3	2	1	1	4	4	\$ 13,000.00	P
													<b>\$ 10,732,787.00</b>	



**WISSAHICKON SCHOOL DISTRICT  
RECOMMENDATIONS  
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SCHOOL	ITEM	SA	CV	EI	NP	PC	DE	CI	LEI	ESI	LE	PRIORITY	2011 Estimated Cost Including 30% Indirect Costs	Category
Stony Creek	Consider replacement of the existing unit ventilators to eliminate excessive noise issues.	3	4	4	4	5	5	4	4	5	4	8	\$ 1,950,000.00	HVAC
Stony Creek	Replace air handling units in the Multi-Purpose Room to eliminate excessive noise issues.	3	4	4	4	4	4	3	3	4	4	7	\$ 182,000.00	HVAC
Stony Creek	Repair control joints in Cafeteria wall (Day light through joints)	2	3	4	4	5	4	4	4	4	5	7	\$ 3,120.00	M
Stony Creek	Replace/install mechanical equipment in gymnasium on top of roof, including modifying ductwork below.	3	4	4	4	4	4	3	3	2	4	7	\$ 156,000.00	HVAC
Stony Creek	Install fencing w/ gate across basketball court playground to separate driveway from children's play area.	4	4	3	4	5	3	4	1	1	4	7	\$ 8,580.00	L
Stony Creek	Replace spalled concrete door stoop to main courtyard.	3	3	3	5	4	3	3	3	1	5	7	\$ 2,470.00	CONC
Stony Creek	Rework storm inlets near and adjacent to loading dock to insure proper water flow removal and to repair damaged asphalt around inlets.	3	3	3	5	4	3	3	3	1	5	7	\$ 19,500.00	SW
Stony Creek	Replace overhead gates with doors to eliminate dead end corridors when in closed position	3	2	4	4	5	4	4	2	1	4	7	\$ 18,200.00	SP
Stony Creek	Add Occupancy Sensors in classrooms, restrooms, offices and other code locations to save energy.	3	3	3	5	3	3	2	3	4	3	7	\$ 52,000.00	ES
Stony Creek	Add/replace exterior area lighting for more uniform lighting and to cover dark areas.	3	3	3	5	3	3	2	3	4	3	7	\$ 117,000.00	EL
Stony Creek	Replace old FPE panelboards.	3	3	3	5	3	3	2	3	4	3	7	\$ 78,000.00	ES
Stony Creek	Replace lighting in gymnasium, multi-purpose room and kitchen to provide adequate light, more energy efficiency and to remove unsupported T12 lamps.	3	3	3	5	3	3	2	3	4	3	7	\$ 97,500.00	IL
Stony Creek	Replace underground fiberglass oil tank (1988)	3	2	4	4	4	3	3	3	2	4	6	\$ 65,000.00	HVAC
Stony Creek	Allowance for concrete sidewalk replacement.	2	3	3	5	4	3	3	3	1	5	6	\$ 32,500.00	CONC
Stony Creek	Allowance for concrete curb replacement.	2	3	3	5	4	3	3	3	1	5	6	\$ 8,320.00	CONC
Stony Creek	Overlay asphalt basketball court/playground along east side to prevent standing ponding water and direct to storm inlet.	2	3	3	5	4	3	3	3	1	5	6	\$ 16,848.00	AF
Stony Creek	Allowance to seal cracks in asphalt driveways and parking lots. Includes wearing course overlay.	2	3	3	5	4	3	3	3	1	5	6	\$ 637,000.00	PA
Stony Creek	Seal surface of asphalt playground areas to prolong useful life.	2	3	3	5	4	3	3	3	1	5	6	\$ 121,680.00	AF
Stony Creek	Install chairlift from rear of stage to Corridor for Handicap Access to stage	3	3	3	4	3	4	4	2	1	5	6	\$ 20,800.00	HC
Stony Creek	Provide chairlift for stage in "new" Gymnasium. Not ADA compliant	3	3	3	4	3	4	4	2	1	5	6	\$ 20,800.00	HC
Stony Creek	Replace existing 15 year old generator down the road. Add additional heating equipment during this time as directed by owner	3	3	3	4	3	3	2	3	4	4	6	\$ 143,000.00	ES
Stony Creek	Provide new roof-top guard rail at Library AHU	4	2	3	5	3	3	2	2	2	4	6	\$ 2,145.00	R
Stony Creek	Add UL924 listed relay system to control emergency lights	3	3	2	5	3	3	2	3	4	3	6	\$ 26,000.00	ES

**WISSAHICKON SCHOOL DISTRICT  
RECOMMENDATIONS  
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SCHOOL	ITEM	SA	CV	EI	NP	PC	DE	CI	LEI	ESI	LE	PRIORITY	2011 Estimated Cost Including 30% Indirect Costs	Category
Stony Creek	Add additional power circuits and receptacles as required in classrooms to limit power strip use.	2	3	3	5	3	3	2	3	4	3	6	\$ 32,500.00	ES
Stony Creek	Add carbon dioxide sensors to provide demand control ventilation on 5 air handling units	3	3	3	4	3	3	4	2	1	4	6	\$ 19,500.00	HVAC
Stony Creek	Replace classroom doors (w/ wire glass).	3	3	3	4	3	4	3	2	1	4	6	\$ 44,460.00	ID
Stony Creek	Replace sliding glass windows between classrooms and corridor with tempered glass and HM frames	3	3	3	4	3	4	3	2	1	4	6	\$ 42,250.00	WR
Stony Creek	Expand existing Simplex 4010 Fire Alarm System visual devices into Classrooms to meet current codes.	4	3	2	4	5	3	2	1	1	4	6	\$ 32,500.00	FA
Stony Creek	Replace speakers and wiring for intercom system due to occupant complaints. Head end equipment is current and functional.	3	3	3	3	3	3	2	3	4	3	6	\$ 62,400.00	CS
Stony Creek	Replace rusted safety rail adjacent to rooftop chiller.	3	2	3	5	3	3	2	2	2	4	6	\$ 2,925.00	R
Stony Creek	Review CCTV system and add cameras and NVR's as required to meet current occupant needs.	2	3	3	4	3	3	2	3	4	3	6	\$ 26,000.00	FA
Stony Creek	Provide a new sound system and dimming system, border lights and front of house lights for the main stage.	2	3	3	4	3	3	2	3	4	3	6	\$ 104,000.00	TE
Stony Creek	Reconfigure Toilet Rooms - not ADA compliant	2	2	4	4	4	4	3	1	1	4	6	\$ 323,856.00	TRG
Stony Creek	Replace Kitchen Equipment	3	2	2	4	3	3	3	3	4	4	6	\$ 650,000.00	FS
Stony Creek	Replace all existing single-pane windows in original section of building.	2	3	3	4	3	3	3	2	2	4	6	\$ 390,000.00	WR
Stony Creek	Replace Library Corridor wall (wood & glass) with HM frame and tempered glass. Include door.	2	3	3	4	3	4	3	2	1	4	6	\$ 20,280.00	UN
Stony Creek	Provide sprinkler system	3	2	2	4	3	3	3	3	4	3	6	\$ 234,000.00	FS
Stony Creek	Rework grading at time of new inlet install at loading dock to increase height of dock. Install concrete slab in recessed area around loading dock.	3	2	3	4	3	3	2	2	2	4	6	\$ 9,750.00	CONC
Stony Creek	Replace building exterior lighting at exit doors. Provide additional lighting for security	3	3	2	4	3	3	3	2	1	4	6	\$ 19,500.00	EL
Stony Creek	Replace all acoustic ceiling tiles.	2	3	3	4	3	4	3	1	1	4	6	\$ 209,300.00	CLG
Stony Creek	Replace/remove aluminum rooftop skylights (60) Raise to provide for proper flashing	2	2	3	5	3	3	2	2	2	4	6	\$ 50,700.00	R
Stony Creek	Reconfigure roof expansion joints on existing building. Build up height to create curb and install metal expansion joint cover.	2	2	3	5	3	3	2	2	2	4	6	\$ 16,835.00	R
Stony Creek	Replace roof drains on original building, including drain bowl, strainers and interior elbow fittings.	2	2	3	5	3	3	2	2	2	4	6	\$ 11,050.00	R
Stony Creek	Add overflow scupper drain to high cafeteria roof.	2	2	3	5	3	3	2	2	2	4	6	\$ 1,300.00	R

**WISSAHICKON SCHOOL DISTRICT  
RECOMMENDATIONS  
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SCHOOL	ITEM	SA	CV	EI	NP	PC	DE	CI	LEI	ESI	LE	PRIORITY	2011 Estimated Cost Including 30% Indirect Costs	Category
Stony Creek	Replace rusted fencing around Kindergarten playground.	2	3	3	3	3	4	3	2	1	4	6	\$ 29,250.00	L
Stony Creek	Replace all wood casework	2	3	3	4	3	3	3	1	1	4	6	\$ 364,000.00	CA
Stony Creek	Replace wood multi-purpose room floor	2	3	3	4	3	3	3	1	1	4	6	\$ 63,700.00	FC
Stony Creek	Refinish Multi-purpose Room Stage floor	2	3	3	4	3	3	3	1	1	4	6	\$ 12,350.00	FC
Stony Creek	Replace classroom and Kindergarten VCT	2	3	3	4	3	3	3	1	1	4	6	\$ 190,125.00	FC
Stony Creek	Repaint CMU walls	2	3	3	4	3	3	3	1	1	4	6	\$ 120,900.00	FIN
Stony Creek	Replace corridor pinboard	2	3	3	4	3	3	3	1	1	4	6	\$ 32,500.00	SP
Stony Creek	Replace Library furnishing	2	3	3	4	3	3	3	1	1	4	6	\$ 97,500.00	SP
Stony Creek	Replace window shades	2	3	3	4	3	3	3	1	1	4	6	\$ 71,500.00	WT
Stony Creek	Repaint door frames	2	3	3	4	3	3	3	1	1	4	6	\$ 58,500.00	FIN
Stony Creek	Replace roof on original building. Provide tapered insulation to provide for proper drainage	3	2	3	4	3	3	2	1	1	4	5	\$ 972,400.00	R
Stony Creek	Reconfigure storm pipe at water main to eliminate built in "trap"	2	2	3	4	3	3	3	2	1	4	5	\$ 11,050.00	SW
Stony Creek	Provide additional interior exit signage	3	2	2	4	3	3	3	1	1	4	5	\$ 19,500.00	SI
Stony Creek	Replace double doors (2) 2'-6" doors with ADA compliant doors	2	2	3	4	3	3	3	1	1	3	5	\$ 31,200.00	ID
Stony Creek	Add additional ADA curb cuts at main entrance and Student Drop-off areas.	2	2	3	3	3	3	2	1	1	4	5	\$ 1,950.00	CONC
Stony Creek	Install screens on operable windows	3	2	2	3	3	3	1	1	1	3	5	\$ 5,551.00	WR
Stony Creek	Install lightning protection	2	2	2	3	3	3	2	1	1	4	5	\$ 62,400.00	R
Stony Creek	Repair cracked/spalled brick chimney.	2	2	1	3	3	3	2	2	2	4	5	\$ 1,950.00	M
Stony Creek	Remove grass beneath windows and Unit vents and provide landscape stones	2	2	2	3	2	3	2	1	1	5	5	\$ 29,250.00	L
Stony Creek	Replace ATC system to match District wide system	2	2	2	4	2	3	2	1	1	3	5	\$ 241,800.00	ATC
Stony Creek	Recaulk all exterior window and door frames on new addition.	2	2	1	3	3	3	2	2	2	3	4	\$ 11,050.00	M
Stony Creek	Repair cracks in bricks around building.	2	2	2	2	3	3	2	1	1	4	4	\$ 39,000.00	M
Stony Creek	Replace Main Office interior windows with HM frames and tempered glass for safety. Include door.	2	2	2	1	2	3	2	1	1	4	4	\$ 16,900.00	ID
													<b>\$ 8,565,895.00</b>	



**WISSAHICKON SCHOOL DISTRICT  
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SCHOOL	ITEM	SA	CV	EI	NP	PC	DE	CI	LEI	ESI	LE	PRIORITY	2011 Estimated Cost Including 30% Indirect Costs	Category
Mattison Ave.	Replace Food Service Equipment, dishwasher is not operational	3	3	4	3	4	4	3	3	2	4	7	\$ 422,500.00	FS
Mattison Ave.	Provide new keying system - to match District-wide system	3	3	3	4	5	3	5	1	2	3	7	\$ 31,200.00	ID
Mattison Ave.	Replace ATC system for compatibility with District-wide system	2	4	3	5	3	3	3	3	2	3	6	\$ 109,200.00	ATC
Mattison Ave.	Existing toilet exhaust systems are inadequate. Consider replacement of the ducts and fans to provide air flows to meet current code requirements.	3	3	3	3	4	4	3	3	2	4	6	\$ 13,650.00	HVAC
Mattison Ave.	Add carbon dioxide sensors to provide demand control ventilation on 2 air handling units	3	3	3	5	4	3	3	1	1	3	6	\$ 7,800.00	HVAC
Mattison Ave.	Replace all electrical distribution including service entrance unit substation and old appliance panelboards.	3	2	3	3	4	4	3	3	3	4	6	\$ 104,000.00	ES
Mattison Ave.	Expand existing Simplex 4010 Fire Alarm System visual devices into Classrooms to meet current codes.	3	2	3	3	4	4	3	3	2	4	6	\$ 19,500.00	FA
Mattison Ave.	Install elevator to provide ADA access to second floor	3	3	3	3	4	4	3	1	1	4	6	\$ 130,000.00	HC
Mattison Ave.	Construct 3' high retaining wall along edge of upper basketball court (146 if long including stairs near end) Install 6' high fence on top.Upper playground area has area along edge with standing water from underground spring/source. Rework area to eliminate wet areas and divert water to storm inlets.	3	3	3	3	4	4	3	1	1	4	6	\$ 78,000.00	M
Mattison Ave.	Renovate Boys & Girls Toilet Rooms - Not ADA Compliant	3	2	3	3	4	4	3	3	1	4	6	\$ 202,410.00	TRG
Mattison Ave.	Allowance for sidewalk replacement	2	3	3	3	4	3	3	3	1	5	6	\$ 22,100.00	CONC
Mattison Ave.	Allowance for curb replacement	2	3	3	3	4	3	3	3	1	5	6	\$ 5,200.00	CONC
Mattison Ave.	Replace playground equipment. Provide ADA station	3	3	3	3	4	3	3	1	1	4	6	\$ 52,000.00	AF
Mattison Ave.	Remove battery packs in corridors and ensure all emergency lighting is on generator.	3	2	2	3	4	4	3	3	3	4	6	\$ 58,240.00	ES
Mattison Ave.	Replace building security system	3	2	3	3	4	3	3	3	1	4	6	\$ 27,300.00	FA
Mattison Ave.	Replace operable partitions	3	3	3	4	3	3	2	1	1	4	6	\$ 79,560.00	SP
Mattison Ave.	Add UL924 listed relay system to control emergency lights	3	3	2	3	3	3	2	3	4	3	6	\$ 19,500.00	ES
Mattison Ave.	Add Occupancy Sensors in classrooms, restrooms, offices and other code locations to save energy.	2	2	3	3	4	4	3	3	2	4	6	\$ 39,000.00	ES
Mattison Ave.	Install a chair lift to stage for ADA compliance	2	3	3	3	4	4	3	1	1	4	6	\$ 26,000.00	HC
Mattison Ave.	Replace Multi-Purpose Room equipment	3	3	3	3	3	3	3	1	1	4	6	\$ 78,000.00	GE
Mattison Ave.	Replace plumbing fixtures in Classrooms	3	2	3	4	3	3	3	1	1	4	6	\$ 15,600.00	P
Mattison Ave.	Provide door at Main entrance to create a secure entrance to bldg.	3	2	3	3	4	3	3	1	1	4	6	\$ 10,400.00	ID

**WISSAHICKON SCHOOL DISTRICT  
RECOMMENDATIONS  
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SCHOOL	ITEM	SA	CV	EI	NP	PC	DE	CI	LEI	ESI	LE	PRIORITY	2011 Estimated Cost Including 30% Indirect Costs	Category
Mattison Ave.	Upper playground area - pave area around perimeter of basketball court to outer fence.	3	3	2	3	4	3	3	1	1	4	6	\$ 21,125.00	PA
Mattison Ave.	Caulk cracked concrete window sills along Rosemary & Poplar Streets.	3	3	2	3	4	3	3	1	1	4	6	\$ 1,300.00	M
Mattison Ave.	Replace lawn area at playground with rubber protective play surfacing.	3	3	2	3	4	3	3	1	1	4	6	\$ 135,200.00	L
Mattison Ave.	Install lightning protection	2	2	3	4	3	3	3	3	1	4	6	\$ 19,760.00	R
Mattison Ave.	Provide CAT 6 network cabling infrastructure	2	2	3	3	4	3	3	3	1	4	5	\$ 109,200.00	CS
Mattison Ave.	Renovate (2) stair towers - Not ADA compliant	2	3	3	3	3	3	3	1	1	4	5	\$ 70,200.00	STI
Mattison Ave.	Replace all casework	2	3	3	4	3	3	2	1	1	3	5	\$ 182,000.00	CA
Mattison Ave.	Provide a new dimming system, border lights and front of house lights for the stage. The sound system should be reviewed	3	3	2	3	3	3	3	1	1	4	5	\$ 104,000.00	TE
Mattison Ave.	Replace single pane windows with insulated glass windows	3	2	2	3	3	3	2	3	2	4	5	\$ 216,372.00	WR
Mattison Ave.	Replace exterior lighting. Provide more security lighting around bldg.	3	2	2	3	3	3	2	2	2	4	5	\$ 15,600.00	EL
Mattison Ave.	Replace all acoustic ceiling tiles.	3	2	2	4	3	4	2	1	1	3	5	\$ 101,010.00	CLG
Mattison Ave.	Replace lighting in kitchen.	3	2	2	4	3	4	2	1	1	3	5	\$ 6,500.00	IL
Mattison Ave.	Install roof hatch and ladder to low roof in Kitchen Storage Room	4	2	2	1	4	3	2	1	1	4	5	\$ 4,550.00	R
Mattison Ave.	Replace roof ladder from low roof to Multi-Purpose Roof	4	2	2	1	4	3	2	1	1	4	5	\$ 2,340.00	R
Mattison Ave.	Repair exterior soffit beneath second floor - east side of building	3	2	2	3	3	3	2	1	1	4	5	\$ 18,408.00	R
Mattison Ave.	Replace skylights, raise curbs & repair flashing.	3	2	2	3	3	3	2	1	1	4	5	\$ 14,560.00	R
Mattison Ave.	Install fence or bush barrier around small detention basin adjacent to garden courtyard area.	3	2	2	3	3	3	2	1	1	4	5	\$ 6,500.00	L
Mattison Ave.	Add receptacles as required in classrooms to limit power strip use.	2	3	2	3	3	3	2	1	1	4	5	\$ 15,600.00	ES
Mattison Ave.	Repaint all CMU walls	2	2	2	4	3	3	2	1	1	3	5	\$ 54,600.00	FIN
Mattison Ave.	Refinish Terrazzo floors	2	2	2	4	3	3	2	1	1	3	5	\$ 89,700.00	FC
Mattison Ave.	Replace all VCT flooring	2	2	2	4	3	3	2	1	1	3	5	\$ 114,088.00	FC
Mattison Ave.	Replace Library and Office carpet	2	2	2	4	3	3	2	1	1	3	5	\$ 72,800.00	FC
Mattison Ave.	Review CCTV system and add cameras and NVR's as required to meet current occupant needs.	2	3	2	3	2	3	2	1	1	4	5	\$ 26,000.00	FA
Mattison Ave.	Replace electric water coolers	2	2	2	3	3	3	2	1	1	4	5	\$ 3,900.00	P

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SCHOOL	ITEM	SA	CV	EI	NP	PC	DE	CI	LEI	ESI	LE	PRIORITY	2011 Estimated Cost Including 30% Indirect Costs	Category
Mattison Ave.	Repair brick façade along south face of building - pushing out. Remove three brick c. install new thru-wall flashing, repair and paint lintel, reinstall brick	2	2	2	3	3	3	2	1	1	4	5	\$ 3,835.00	M
Mattison Ave.	Repair cracks in mortar joints and replace cracked bricks in chimney. Reinforce wall areas as necessary during repointing.	2	2	2	3	3	3	2	1	1	4	5	\$ 7,280.00	M
Mattison Ave.	Recaulk all exterior joints, including windows & door frames,	2	2	2	3	3	3	2	1	1	4	5	\$ 364,000.00	M
Mattison Ave.	Resurface fenced in kindergarten asphalt playground.	2	2	2	3	3	3	2	1	1	4	5	\$ 23,400.00	AF
Mattison Ave.	Repair skylight window wells. Patch & paint	2	2	2	3	2	3	2	1	1	3	4	\$ 13,478.40	CLG
Mattison Ave.	Replace intercom speakers and wiring. Head end in good condition.	2	2	2	3	2	3	2	1	1	3	4	\$ 29,120.00	CS
Mattison Ave.	Allowance for Landscaping around building	2	2	2	3	2	3	2	1	1	2	4	\$ 39,000.00	L
													<b>\$ 3,436,586.40</b>	

**WISSAHICKON SCHOOL DISTRICT  
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SCHOOL	ITEM	SA	CV	EI	NP	PC	DE	CI	LEI	ESI	LE	PRIORITY	2011 Estimated Cost Including 30% Indirect Costs	Category
Lower Gwynedd	Add fire pump to generator and remove breaker at main switchgear to meet current codes. This will necessitate a new larger generator. Add additional heating as directed by owner at this time.	4	2	4	4	5	4	3	3	2	4	7	\$ 162,500.00	ES
Lower Gwynedd	Provide new 10,000 gal. underground fuel oil tank and abandon existing piping between the district office and the school	3	3	4	4	4	4	3	3	2	4	7	\$ 52,000.00	HVAC
Lower Gwynedd	Replace building keying system to match District-wide system	3	3	3	4	5	3	5	1	2	3	7	\$ 72,150.00	ID
Lower Gwynedd	Install underground drainage system for large playground area. Route piping to added storm inlets adjacent to said playground. Possible regarded large swale with additional inlet(s).	3	3	4	4	4	4	3	1	1	4	7	\$ 429,000.00	SW
Lower Gwynedd	Add underground drainage system in soft playground area. Pipe drainage under asphalt towards drainage swale.	3	3	4	4	4	4	3	1	1	4	7	\$ 65,000.00	SW
Lower Gwynedd	Install fire caulk at of above ceiling fire wall penetrations. Allowance for 100 penetrations.	4	2	4	4	5	3	2	1	1	4	6	\$ 1,300.00	M
Lower Gwynedd	Install fence along end of playground area along access drive.	3	3	3	4	5	4	3	1	1	4	6	\$ 7,312.50	L
Lower Gwynedd	Allowance for sidewalk repairs	2	3	3	4	4	3	3	3	1	5	6	\$ 36,270.00	CONC
Lower Gwynedd	Allowance for concrete curb repairs	2	3	3	4	4	3	3	3	1	5	6	\$ 7,592.00	CONC
Lower Gwynedd	Add UL924 listed relay system to control emergency lights	3	3	2	4	3	3	2	3	4	3	6	\$ 170,560.00	ES
Lower Gwynedd	Replace lighting in gymnasium to provide better lighting and more energy efficiency.	2	3	3	4	3	3	3	3	2	3	6	\$ 39,000.00	IL
Lower Gwynedd	Correct grading along edges of concrete sidewalks, tripping hazard.	3	3	3	3	4	3	3	1	1	3	6	\$ 130,000.00	L
Lower Gwynedd	Expand existing Simplex 4020 Fire Alarm System visual devices into Classrooms to meet current codes.	3	2	3	4	3	3	2	3	1	4	6	\$ 39,000.00	FA
Lower Gwynedd	Provide stage lighting, front of house lighting and dimming system for elementary school performances.	2	3	3	4	3	3	3	2	1	3	6	\$ 52,000.00	TE
Lower Gwynedd	Regrade around perimeter of building at foundation, existing grade pitches back towards building.	2	3	3	3	4	3	3	1	1	3	5	\$ 78,000.00	L
Lower Gwynedd	Upgrade the HVAC control system software.	2	2	3	4	3	3	2	3	1	4	5	\$ 6,500.00	ATC
Lower Gwynedd	Add carbon dioxide sensors to provide demand control ventilation on 2 air handling units	3	3	3	4	3	1	2	1	1	3	5	\$ 15,600.00	HVAC
Lower Gwynedd	Provide additional visitor parking at main entrance	3	2	2	4	3	3	3	1	1	4	5	\$ 12,480.00	PA
Lower Gwynedd	Replace exterior parking lighting	3	2	2	4	3	3	2	2	1	4	5	\$ 32,500.00	EL
Lower Gwynedd	Install acoustic treatment in Multi-Purpose room	2	3	2	4	3	3	3	1	1	4	5	\$ 42,432.00	UN
Lower Gwynedd	Renovate gang toilet rooms to include lavatories in rooms (total of 5 locations)	2	2	3	4	3	4	2	1	1	4	5	\$ 585,000.00	TRG
Lower Gwynedd	Add ADA ramp detectors @ existing ramp locations.	3	2	2	3	4	3	3	1	1	4	5	\$ 4,550.00	CONC
Lower Gwynedd	Replace handrails adjacent to loading dock, does not meet ADA code requirements.	3	2	2	3	4	3	3	1	1	4	5	\$ 5,850.00	STE
Lower Gwynedd	Relocate vent at the existing main gas service entrance.	3	2	2	3	4	4	2	1	1	4	5	\$ 4,550.00	HVAC



**WISSAHICKON SCHOOL DISTRICT  
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SCHOOL	ITEM	SA	CV	EI	NP	PC	DE	CI	LEI	ESI	LE	PRIORITY	2011 Estimated Cost Including 30% Indirect Costs	Category
Lower Gwynedd	Add Occupancy Sensors in classrooms, offices and other code locations to save energy.	2	2	2	4	3	3	2	3	2	3	5	\$ 78,000.00	ES
Lower Gwynedd	Consider adding a leaving air temperature reset schedule to the air handling system serving the Main Office to correct over cooling issue during the summer.	2	3	2	4	2	3	2	2	1	3	5	\$ 5,200.00	HVAC
Lower Gwynedd	Consider adding supplemental heat in the Lobby area.	2	3	2	4	2	3	2	2	1	3	5	\$ 9,100.00	HVAC
Lower Gwynedd	Replace 8'-0" gate to generator with solid panel gate to eliminate ladder affect	4	1	1	4	3	3	2	1	1	4	5	\$ 3,250.00	L
Lower Gwynedd	Replace exterior speakers.	2	3	2	3	2	3	3	1	1	4	5	\$ 15,600.00	CS
Lower Gwynedd	Repaint high brick masonry retaining wall & capstone by loading dock, no evidence of thru-wall flashing or weep holes anywhere. Repair/reinforce vertical full-height crack (approx. 18" from end).	2	3	2	3	2	3	3	1	1	4	5	\$ 1,625.00	M
Lower Gwynedd	Severe alligatoring surface in back parking lot near loading dock. Could possibly overlay, but recommend complete removal and replacement.. Include access drive heading down hill towards Central Office building.	2	3	2	3	2	3	3	1	1	4	5	\$ 187,200.00	PA
Lower Gwynedd	Replace exterior lighting on building.	2	3	2	3	2	3	3	1	1	4	5	\$ 39,000.00	EL
Lower Gwynedd	Repaint brick masonry screen wall at soccer field (adjacent to loading dock area, enclosing emergency generator, electrical transformer and chiller unit) joints show signs of erosion.	2	3	2	3	2	3	3	1	1	4	5	\$ 8,222.50	M
Lower Gwynedd	Recoat asphalt paved playgrounds to extend life	2	3	2	3	2	3	3	1	1	4	5	\$ 73,125.00	AF
Lower Gwynedd	Replace corridor terrazzo tile	2	3	2	3	2	3	3	1	1	4	5	\$ 477,750.00	FC
Lower Gwynedd	Repaint CMU walls	2	3	2	3	2	3	3	1	1	4	5	\$ 159,900.00	FIN
Lower Gwynedd	Replace all acoustic ceiling tiles	2	3	2	3	2	3	3	1	1	4	5	\$ 318,500.00	CLG
Lower Gwynedd	Replace Multipurpose room floor	2	3	2	3	2	3	3	1	1	4	5	\$ 45,825.00	FC
Lower Gwynedd	Replace carpet in Music, Large Group, and Office	2	3	2	3	2	3	3	1	1	4	5	\$ 95,550.00	FC
Lower Gwynedd	Repaint door frames	2	3	2	3	2	3	3	1	1	4	5	\$ 79,950.00	FIN
Lower Gwynedd	Review CCTV system and add cameras and NVR's as required to meet current occupant needs.	2	3	2	3	2	3	3	1	1	4	5	\$ 32,500.00	FA
Lower Gwynedd	Investigate and repair roof leak at elevator due to ice build-up	3	2	2	2	3	3	3	1	1	4	5	\$ 13,000.00	CS
Lower Gwynedd	Replace carpet in classrooms with VCT	2	2	2	4	3	3	2	1	1	3	5	\$ 153,562.50	FC
Lower Gwynedd	Allowance to seal cracks in drives and parking lots. Includes wearing course overlay.	2	2	2	4	3	3	2	1	1	3	5	\$ 351,000.00	PA
Lower Gwynedd	Add additional directional signage to direct parents to proper drop-off drive.	2	2	2	4	3	3	2	1	1	3	5	\$ 2,600.00	L



**WISSAHICKON SCHOOL DISTRICT  
RECOMMENDATIONS  
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SCHOOL	ITEM	SA	CV	EI	NP	PC	DE	CI	LEI	ESI	LE	PRIORITY	2011 Estimated Cost Including 30% Indirect Costs	Category
Lower Gwynedd	Recaulk all exterior windows, doors, expansion joints, louvers, vents and flashing.	2	2	2	4	3	3	2	1	1	3	5	\$ 106,600.00	M
Lower Gwynedd	Paint steel lintels at doors & windows.	2	2	2	4	3	3	2	1	1	3	5	\$ 4,225.00	FIN
Lower Gwynedd	Replace exterior basketball backstops & pole assemblies.	2	3	2	3	2	3	2	1	1	4	5	\$ 31,200.00	AF
Lower Gwynedd	Add receptacles as required in classrooms to limit power strip use.	2	3	2	3	2	3	2	1	1	4	5	\$ 39,000.00	ES
Lower Gwynedd	Replace folding partition in Multi-Purpose room	2	2	1	4	2	3	3	1	1	4	4	\$ 5,200.00	GE
Lower Gwynedd	Consider replacing existing unit ventilators with a vertical Airedale unit and add ducted distribution system to address unit ventilator noise issue.	2	3	3	2	1	4	2	1	1	2	4	\$ 1,092,000.00	HVAC
Lower Gwynedd	Replace window screens.	2	2	2	3	3	3	1	1	1	3	4	\$ 46,020.00	WT
Lower Gwynedd	Repair exterior wall of toilet room to eliminate freezing pipe condition	3	1	1	3	2	3	2	1	1	4	4	\$ 3,900.00	M
Lower Gwynedd	Replace kitchen equipment	2	2	2	2	3	3	3	1	1	1	4	\$ 455,000.00	FS
Lower Gwynedd	Update paging system so main areas can be isolated	2	2	2	2	3	3	3	1	1	1	4	\$ 52,000.00	CS
Lower Gwynedd	Replace toilet room ceilings by main entrance.	2	1	1	3	2	3	2	1	1	3	4	\$ 1,911.00	CLG
Lower Gwynedd	Reinstall/replace ADA signage to compliant height	2	1	1	3	2	1	1	1	1	4	3	\$ 45,500.00	SI
													\$ 6,084,162.50	

**WISSAHICKON SCHOOL DISTRICT  
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SCHOOL	ITEM	SA	CV	EI	NP	PC	DE	CI	LEI	ESI	LE	PRIORITY	2011 Estimated Cost Including 30% Indirect Costs	Category
Central Office	Replace ladder to roof. provide access to mechanical loft and new roof hatch.	4	1	2	1	5	5	2	1	1	5	5	\$ 19,500.00	R
Central Office	Install handrails at interior ramps	3	1	1	1	4	4	3	1	1	5	4	\$ 5,850.00	STI
Central Office	Install sprinkler system.	3	1	1	1	4	5	1	1	1	5	4	\$ 35,100.00	P
Central Office	Replace domestic water service	3	1	1	1	4	5	1	1	1	5	4	\$ 26,000.00	P
Central Office	Replace guard and hand rails at loading dock. Not ADA compliant.	3	1	1	1	4	4	1	1	1	5	4	\$ 9,750.00	STE
Central Office	Add server room UPS's and cooling to generator. This will require a new generator. Add additional heating, etc. as directed by owner. Review possibility of backing up entire building.	3	1	1	1	4	5	1	1	1	4	4	\$ 162,500.00	ES
Central Office	Replace all exterior single pane windows & curtain wall panel infill's around entire building.	3	1	1	1	4	4	1	1	1	4	4	\$ 218,400.00	WR
Central Office	Install safety guard along roof edge where mechanical equipment is closer than 10' to roof edge.	3	1	1	1	4	3	1	1	1	5	4	\$ 2,437.50	R
Central Office	Add/replace exterior area lighting for more uniform lighting and to cover dark areas.	3	1	1	1	4	4	1	1	1	4	4	\$ 91,000.00	ES
Central Office	Renovate single use toilet rooms. Make ADA compliant if structurally feasible.	2	1	1	1	4	5	1	1	1	5	4	\$ 78,000.00	TRI
Central Office	Add ADA ramp indicators at front entrance.	3	1	1	1	4	3	1	1	1	4	4	\$ 6,240.00	STE
Central Office	Add Occupancy Sensors in offices and other code locations to save energy.	3	1	1	1	4	3	1	1	1	4	4	\$ 58,500.00	ES
Central Office	Install new roof drains on lower roof.	3	1	1	1	3	4	1	1	1	4	4	\$ 12,480.00	R
Central Office	Replace cantilevered concrete slab at double exit door "C2".	3	1	1	1	3	3	1	1	1	4	4	\$ 1,560.00	CONC
Central Office	Replace existing conventional (zoned) unsupported Simplex 4002 Fire Alarm System.	3	1	1	1	3	3	1	1	1	4	4	\$ 68,250.00	FA
Central Office	Add U1924 listed relay system to control emergency lights	3	1	1	1	3	3	1	1	1	4	4	\$ 26,000.00	ES
Central Office	Add storm inlet at bottom of back access drive heading towards E.S. and tie into nearest storm line.	2	1	1	1	3	3	1	1	1	5	3	\$ 9,100.00	SW
Central Office	Install ventilation in crawl space.	2	1	1	1	3	4	1	1	1	4	3	\$ 19,500.00	HVAC
Central Office	Replace all acoustic ceiling tiles	2	1	1	1	3	4	1	1	1	4	3	\$ 127,400.00	CLG
Central Office	Allowance to seal cracks & overlay drives and parking lot	2	1	1	1	3	3	1	1	1	4	3	\$ 351,000.00	PA
Central Office	Install concrete around flagpole.	2	1	1	1	3	3	1	1	1	4	3	\$ 5,200.00	CONC
Central Office	Low spot at corner of parking lot at "in" drive. Possible add storm inlet and pipe towards basin.	2	1	1	1	3	3	1	1	1	4	3	\$ 32,500.00	PA
Central Office	Allowance to replace concrete sidewalks	2	1	1	1	3	3	1	1	1	4	3	\$ 75,400.00	CONC
Central Office	Allowance to replace concrete curbs	2	1	1	1	3	3	1	1	1	4	3	\$ 4,368.00	CONC

**WISSAHICKON SCHOOL DISTRICT  
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SCHOOL	ITEM	SA	CV	EI	NP	PC	DE	CI	LEI	ESI	LE	PRIORITY	2011 Estimated Cost Including 30% Indirect Costs	Category
Central Office	Update CAT 6 wiring	2	1	1	1	3	3	1	1	1	4	3	\$ 117,000.00	CS
Central Office	Remediate excessive HVAC noise by installing acoustic treatment above acoustic ceilings	2	1	1	1	3	3	1	1	1	4	3	\$ 15,600.00	HVAC
Central Office	Upgrade HVAC systems control system software	2	1	1	1	3	3	1	1	1	4	3	\$ 10,400.00	ATC
Central Office	Caulk all exterior joints.	2	1	1	1	3	3	1	1	1	3	3	\$ 5,850.00	M
Central Office	Provide HVAC system testing, adjusting, & balancing services including review of heating & cooling loads	2	1	1	1	3	3	1	1	1	3	3	\$ 12,350.00	HVAC
Central Office	Remove concrete sidewalk along side of building where there are no exit doors or adjacent/intersecting sidewalks.	2	1	1	1	2	3	1	1	1	4	3	\$ 52,000.00	CONC
Central Office	Install cap on chimney.	2	1	1	1	2	3	1	1	1	4	3	\$ 1,950.00	M
Central Office	Repaint CMU walls in Receiving	2	1	1	1	2	3	1	1	1	3	3	\$ 9,750.00	FIN
Central Office	Repaint door frames	2	1	1	1	2	3	1	1	1	3	3	\$ 29,250.00	FIN
													<b>\$ 1,700,185.50</b>	

**WISSAHICKON SCHOOL DISTRICT  
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SCHOOL	ITEM	SA	CV	EI	NP	PC	DE	CI	LEI	ESI	LE	PRIORITY	2011 Estimated Cost Including 30% Indirect Costs	Category
Bus Garage	Replace ATC system to match District-wide system	3	1	1	2	5	5	1	1	1	4	5	\$ 35,100.00	ATC
Bus Garage	Provide closed in area for tire storage	3	1	1	2	5	4	1	1	1	4	4	\$ 58,500.00	UN
Bus Garage	Add a Security system and card access system to meet occupant needs.	3	1	1	2	5	4	1	1	1	4	4	\$ 26,000.00	FA
Bus Garage	Replace HVAC system with new gas fired rooftop unit (eliminate boiler & piping), replace exhaust systems.	2	1	1	2	5	5	1	1	1	5	4	\$ 325,000.00	HVAC
Bus Garage	Replace old panel boards that are no longer supported.	3	1	1	2	4	4	1	1	1	5	4	\$ 21,060.00	ES
Bus Garage	Replace perimeter fence and gates with new 10' high chain link fence with slide gates and card readers for access to lot.	3	1	1	2	4	4	1	1	1	4	4	\$ 71,500.00	L
Bus Garage	Replace exterior lighting. Provide additional lighting for security	3	1	1	2	4	4	1	1	1	4	4	\$ 78,000.00	EL
Bus Garage	Replace existing rooftop heating/cooling unit and add additional areas to the system.	3	1	1	2	4	4	1	1	1	4	4	\$ 52,000.00	HVAC
Bus Garage	Replace existing gas fired domestic water heater	3	1	1	2	4	4	1	1	1	4	4	\$ 10,400.00	P
Bus Garage	Review pumping station and provide emergency shut-off equipment.	3	1	1	2	4	4	1	1	1	4	4	\$ 13,000.00	UN
Bus Garage	Provide driver entrance, renovate lounge, & provide appropriate Toilet Room Facilities for drivers and building staff. (Renovation and addition)	2	1	1	2	4	5	1	1	1	5	4	\$ 364,000.00	UN
Bus Garage	Replace existing Simplex 4001 Fire Alarm System to meet current codes.	3	1	1	2	3	4	1	1	1	4	4	\$ 32,500.00	FA
Bus Garage	Repair blistered areas on high roof area (approx 15%)	3	1	1	1	4	4	1	1	1	4	4	\$ 21,840.00	R
Bus Garage	Replace deteriorated steel storm main in parking lot.	3	1	1	1	4	4	1	1	1	4	4	\$ 97,500.00	SW
Bus Garage	Replace roof drains on both high and low roof areas. (4" deep standing water on small low roof area)	2	1	1	2	4	4	1	1	1	4	4	\$ 15,600.00	R
Bus Garage	Install lightning protection (roof sf)	2	1	1	2	4	3	1	1	1	4	4	\$ 9,360.00	R
Bus Garage	Revise bus heater distribution to provide GF protection.	3	1	1	1	3	3	1	1	1	4	4	\$ 6,500.00	HVAC
Bus Garage	Provide Sprinkler system	3	1	1	1	3	3	1	1	1	4	4	\$ 46,800.00	FA
Bus Garage	Replace electric water coolers	2	1	1	2	3	3	1	1	1	4	4	\$ 2,340.00	P
Bus Garage	Seal cracks and overlay new asphalt wearing course over entire parking lot area.	2	1	1	2	3	3	1	1	1	4	4	\$ 643,500.00	PA
Bus Garage	Remove existing stone coping and install new thru-wall flashing & metal coping along north elevation adjacent to School Lane.	2	1	1	1	3	3	1	1	1	4	3	\$ 6,864.00	M
Bus Garage	Rework pointing/caulk joint above segmented thru-wall flashing receiver on all rising walls.	2	1	1	1	3	3	1	1	1	4	3	\$ 2,600.00	M
Bus Garage	Caulk all exterior masonry wall vertical control joints.	2	1	1	1	3	3	1	1	1	4	3	\$ 3,250.00	M
Bus Garage	Repair poorly installed (loose) coping metal on small low roof area.	2	1	1	1	3	3	1	1	1	4	3	\$ 5,304.00	M

**WISSAHICKON SCHOOL DISTRICT  
RECOMMENDATIONS  
LISTED BY BUILDING**

SCHOOL	ITEM	SA	CV	EI	NP	PC	DE	CI	LEI	ESI	LE	PRIORITY	2011 Estimated Cost Including 30% Indirect Costs	Category
Bus Garage	Cut out and repoint blown out mortar joint(s) along exterior wall adjacent to School Lane, damaged from water infiltration from leaking coping stone above.	2	1	1	1	3	3	1	1	1	4	3	\$ 3,250.00	M
Bus Garage	Replace all acoustic ceiling tiles	2	1	1	1	3	3	1	1	1	4	3	\$ 9,100.00	CLG
Bus Garage	Provide CAT 6 wiring	2	1	1	1	3	3	1	1	1	4	3	\$ 35,100.00	CS
Bus Garage	Upgrade Plumbing fixtures	2	1	1	1	3	3	1	1	1	4	3	\$ 20,800.00	P
Bus Garage	Repaint CMU walls	2	1	1	1	2	3	1	1	1	3	3	\$ 17,550.00	FIN
Bus Garage	Replace VCT	2	1	1	1	2	3	1	1	1	3	3	\$ 7,800.00	FC
													<b>\$ 2,042,118.00</b>	

**Grand Total: \$ 88,379,672.94**



WISSAHICKON SCHOOL DISTRICT  
RECOMMENDATIONS  
LISTED BY PRIORITY

SCHOOL	ITEM	SA	CV	EI	NP	PC	DE	CI	LEI	ESI	LE	PRIORITY	2011 Estimated Cost Including 30% Indirect Costs	Category
Blue Bell	Remove modular classrooms, replace with permanent structures	3	5	4	5	5	5	4	5	3	5	9	\$ 1,047,540.00	UN
High School	Replace chillers (3) at the end of their useful life expectancy. Provide (2) water cooled chillers	3	5	5	5	4	4	4	5	3	4	9	\$ 1,820,000.00	HVAC
													\$ 2,867,540.00	

**WISSAHICKON SCHOOL DISTRICT  
RECOMMENDATIONS  
LISTED BY PRIORITY**

SCHOOL	ITEM	SA	CV	EI	NP	PC	DE	CI	LEI	ESI	LE	PRIORITY	2011 Estimated Cost Including 30% Indirect Costs	Category
Blue Bell	Replace kitchen equipment	3	4	4	4	4	4	4	3	4	4	8	\$ 650,000.00	FS
High School	Provide new heating boilers	3	3	5	5	5	5	3	5	4	4	8	\$ 702,000.00	P
High School	Investigate sanitary sewer system, replace damaged portions	3	3	5	5	4	5	3	3	2	5	8	\$ 102,050.00	P
High School	Modify door/stair entrance at bottom of Gymnasium Lobby, not ADA compliant. Impedes Egress	3	5	4	5	4	4	4	1	2	4	8	\$ 93,600.00	UN
High School	Renovate stairs in "1974" wing, treads, guard/hand rails not ADA compliant. Eliminate "pass-thru" feature Not to Code, Corridor wall not code compliant, sound block not code compliant.	3	3	4	5	5	4	4	4	2	4	8	\$ 268,840.00	HC
High School	Replace two grease traps	3	4	4	5	4	3	4	4	2	4	8	\$ 70,200.00	FS
Stony Creek	Consider replacement of the existing unit ventilators to eliminate excessive noise issues.	3	4	4	4	5	5	4	4	5	4	8	\$ 1,950,000.00	HVAC
													\$ 3,836,690.00	

**WISSAHICKON SCHOOL DISTRICT  
RECOMMENDATIONS  
LISTED BY PRIORITY**

SCHOOL	ITEM	SA	CV	EI	NP	PC	DE	CI	LEI	ESI	LE	PRIORITY	2011 Estimated Cost Including 30% Indirect Costs	Category
Blue Bell	Replace old panel boards that were not replaced in most recent renovations.	3	3	4	4	4	4	3	4	4	4	7	\$ 130,000.00	ES
Blue Bell	Provide new generator and increase emergency to add heating system.	3	3	4	4	3	4	3	4	3	4	7	\$ 143,000.00	ES
Blue Bell	Replace roof on original portion of building - provide tapered insulation for proper drainage. Install additional roof drains. Remove and infill skylights	3	3	4	4	4	4	3	3	2	4	7	\$ 982,800.00	R
Blue Bell	Replace Classroom (wood & glass) Corridor wall with HM frame and tempered glass	3	4	4	4	3	3	3	2	2	5	7	\$ 11,700.00	ID
Blue Bell	Renovate Cafeteria (flooring, wall finishes, acoustic treatments, etc.)	2	4	4	4	4	4	3	3	2	4	7	\$ 436,800.00	FC
Blue Bell	The majority of the domestic water piping is original. Consider replacement especially if an area of the building is renovated.	3	3	4	4	4	4	3	3	2	4	7	\$ 19,500.00	P
Blue Bell	The existing underground fuel oil tank is double wall steel, installed in 1989. Consider replacement of the tank or at a minimum have the tank tested to verify there are no leaks. Provide a new leak detection system.	3	2	4	4	4	3	4	3	4	4	7	\$ 75,400.00	HVAC
High School	Add exterior area site lighting for more uniform lighting and to cover dark areas.	3	4	3	5	3	3	4	4	5	4	7	\$ 292,500.00	EL
High School	Provide lighting protection	2	4	3	5	5	4	2	4	4	5	7	\$ 233,330.24	R
High School	Install water softener	3	4	3	5	4	3	4	4	3	4	7	\$ 97,500.00	P
High School	Test domestic water for lead and sediment, replace piping	3	4	4	5	3	5	4	2	2	4	7	\$ 102,050.00	P
High School	Modify access to main auditorium control booth. Currently accessed through catwalk system.	5	4	3	2	5	4	4	2	2	5	7	\$ 11,700.00	UN
High School	Replace single pane windows in original building with insulated glass	2	3	3	5	5	4	3	5	4	4	7	\$ 1,121,640.00	WR
High School	Install intermittent steps along aisles of bleachers. Rise at steps is greater than 7" provide handrail along center of aisle.	3	3	3	5	5	3	5	3	2	4	7	\$ 111,150.00	AF
High School	Replace flooring in "round" gymnasium (Replace Mondo floor with wood floor. Address ground water and drainage issue)	2	5	4	5	3	4	4	2	1	4	7	\$ 556,146.50	FC
High School	Replace stadium turf field, running track, and misc. equipment	2	4	4	5	3	3	4	3	2	4	7	\$ 2,600,000.00	AF
High School	Repair areas of roof where blisters have developed. Correct areas where ponding occurs due to low pitch of roof.	2	4	3	5	4	4	4	3	2	4	7	\$ 787,527.00	R
High School	Round Gym Roof - Bottom perimeter trough - fills up with water, freezes and backs up under upper membrane. Add additional roof drains and overflow scuppers. Install heat wire to prevent freezing. Add additional layer/membrane coating in entire gutter up onto dome membrane.	2	4	4	4	4	4	3	3	2	4	7	\$ 70,200.00	R
High School	Replace fitness equipment, update space	3	4	3	5	3	4	4	1	2	4	7	\$ 195,000.00	GE
High School	Provide closer panels at main entrance canopy to eliminate bird nesting ledge	2	4	4	4	4	3	3	3	1	5	7	\$ 12,168.00	UN
High School	Allowance for curb replacement	3	3	3	5	4	3	3	3	1	5	7	\$ 16,640.00	CONC



**WISSAHICKON SCHOOL DISTRICT  
RECOMMENDATIONS  
LISTED BY PRIORITY**

SCHOOL	ITEM	SA	CV	EI	NP	PC	DE	CI	LEI	ESI	LE	PRIORITY	2011 Estimated Cost Including 30% Indirect Costs	Category
High School	Allowance for sidewalk replacement	3	3	3	5	4	3	3	3	1	5	7	\$ 240,500.00	CONC
High School	Recoat tennis courts	3	4	3	4	3	4	4	3	1	4	7	\$ 31,850.00	AF
High School	Replace guard/hand rails in round Gymnasium, not ADA compliant	3	3	3	5	4	3	4	1	3	4	7	\$ 49,335.00	HC
High School	Install new exterior building lighting.	3	3	3	5	4	3	3	3	3	3	7	\$ 78,000.00	EL
High School	Upgrade the HVAC control system software.	3	4	3	5	3	3	3	3	2	3	7	\$ 13,000.00	ATC
High School	Repair coping at main entrance. Damage due to water infiltration	3	4	3	3	4	4	3	3	1	5	7	\$ 9,100.00	M
High School	Replace F&CS equipment	3	4	3	4	3	3	3	3	2	4	7	\$ 1,170,000.00	FS
High School	Replace carpeting in classrooms with VCT	2	3	4	5	3	3	3	3	2	4	7	\$ 659,318.40	FC
High School	Provide new keying system for building, to match District-wide system	3	3	3	4	5	3	5	1	2	3	7	\$ 209,820.00	ID
High School	Add Occupancy Sensors in classrooms, offices and other code locations to save energy.	3	3	3	5	3	3	2	3	4	3	7	\$ 227,500.00	IL
High School	Add carbon dioxide sensors to provide demand control ventilation for 2 units in the Gymnasium	4	3	3	5	4	3	3	1	1	3	7	\$ 7,800.00	HVAC
Lower Gwynedd	Add fire pump to generator and remove breaker at main switchgear to meet current codes. This will necessitate a new larger generator. Add additional heating as directed by owner at this time.	4	2	4	4	5	4	3	3	2	4	7	\$ 162,500.00	ES
Lower Gwynedd	Provide new 10,000 gal. underground fuel oil tank and abandon existing piping between the district office and the school	3	3	4	4	4	4	3	3	2	4	7	\$ 52,000.00	HVAC
Lower Gwynedd	Replace building keying system to match District-wide system	3	3	3	4	5	3	5	1	2	3	7	\$ 72,150.00	ID
Lower Gwynedd	Install underground drainage system for large playground area. Route piping to added storm inlets adjacent to said playground. Possible regarded large swale with additional inlet(s).	3	3	4	4	4	4	3	1	1	4	7	\$ 429,000.00	SW
Lower Gwynedd	Add underground drainage system in soft playground area. Pipe drainage under asphalt towards drainage swale.	3	3	4	4	4	4	3	1	1	4	7	\$ 65,000.00	SW
Mattison Ave.	Replace Food Service Equipment, dishwasher is not operational	3	3	4	3	4	4	3	3	2	4	7	\$ 422,500.00	FS
Mattison Ave.	provide new keying system - to match District-wide system	3	3	3	4	5	3	5	1	2	3	7	\$ 31,200.00	ID
Middle School	Replace existing 20 year old generator down the road. Add additional heating equipment during this time as directed by owner	3	4	3	4	4	4	3	3	3	4	7	\$ 195,000.00	ES
Middle School	Replace older ITE panelboards and transformers with newer, safer and more efficient equipment	3	4	3	4	4	4	3	3	3	4	7	\$ 425,880.00	ES
Middle School	Replace existing oil tank monitoring system	4	3	3	4	4	3	3	3	3	4	7	\$ 9,360.00	HVAC
Middle School	Replace existing boilers and provide a dedicated boiler for pool water heating	3	3	3	4	4	4	4	3	3	4	7	\$ 309,400.00	P

**WISSAHICKON SCHOOL DISTRICT  
RECOMMENDATIONS  
LISTED BY PRIORITY**

SCHOOL	ITEM	SA	CV	EI	NP	PC	DE	CI	LEI	ESI	LE	PRIORITY	2011 Estimated Cost Including 30% Indirect Costs	Category
Middle School	Allowance for sidewalk replacement	3	3	3	5	4	3	3	3	1	5	7	\$ 115,700.00	CONC
Middle School	Allowance for curb replacement	3	3	3	5	4	3	3	3	1	5	7	\$ 9,360.00	CONC
Middle School	Replace all kitchen equipment	3	3	3	4	4	4	3	3	3	4	7	\$ 715,000.00	FS
Middle School	Renovate locker rooms & showers for Gymnasiums and Natatorium. In poor condition and not ADA compliant	3	3	3	4	4	4	4	3	2	4	7	\$ 239,200.00	LR
Middle School	Replace natatorium equipment & piping	3	3	3	4	3	4	4	3	3	4	7	\$ 260,000.00	GE
Middle School	Renovate natatorium	3	3	3	4	3	4	4	3	3	4	7	\$ 1,820,000.00	GE
Middle School	Main entrance not ADA compliant. Infill stairs and provide ramp outside building	3	3	3	4	4	4	4	2	2	4	7	\$ 117,000.00	HC
Middle School	Reconfigure Main Office area to provide secure building entrance	3	3	3	4	4	4	4	2	2	4	7	\$ 608,400.00	UN
Middle School	Replace existing heating and ventilating units in Gymnasium Locker Rooms	3	3	3	4	4	3	3	3	3	4	7	\$ 104,000.00	HVAC
Middle School	Replace existing heating and ventilating units in Pool Locker Rooms	3	3	3	4	4	3	3	3	3	4	7	\$ 104,000.00	HVAC
Middle School	Replace existing Domestic Water Heater located in the Boiler Room	3	3	3	4	4	3	3	3	3	4	7	\$ 58,500.00	P
Shady Grove	Install guard rail at exit door steps along north elevation near boiler room and along long ramp wall.	3	3	4	5	5	4	5	2	1	4	7	\$ 14,625.00	L
Shady Grove	Replace existing air cooled chillers	3	3	4	4	4	4	3	3	3	4	7	\$ 279,500.00	HVAC
Shady Grove	Replace all kitchen equipment, dishwasher in poor condition, ice maker is broken, line equipment is original to building	2	3	4	4	4	4	3	4	4	4	7	\$ 650,000.00	FS
Shady Grove	Provide additional emergency lighting as required to meet code minimum values.	3	3	4	4	4	4	3	3	2	4	7	\$ 130,000.00	IL
Shady Grove	Update HVAC controls system software	3	3	4	4	3	3	3	3	3	4	7	\$ 10,400.00	ATC
Shady Grove	Expand existing Simplex 4020 Fire Alarm System visual devices into Classrooms to meet current codes. Add smoke detectors in corridors.	3	3	4	4	3	4	3	2	3	4	7	\$ 58,500.00	FA
Shady Grove	Replace existing boilers.	3	2	4	4	3	4	3	3	4	4	7	\$ 208,000.00	HVAC
Shady Grove	Replace old panel boards that were not replaced in most recent renovations.	3	2	4	4	4	3	3	4	2	4	7	\$ 238,680.00	ES
Shady Grove	Replace keying system to match District-wide system	3	3	3	4	5	3	5	1	2	3	7	\$ 68,250.00	ID
Shady Grove	Provide elevator to lower level classrooms ( converted Locker Room)	3	3	4	3	4	4	3	2	2	4	7	\$ 156,000.00	HC
Shady Grove	Provide elevator to lower level (main building & addition)	3	3	4	3	4	4	3	2	2	4	7	\$ 156,000.00	HC
Shady Grove	Repair soffit below drop-off drive canopy/open area, soffit is coming loose/pulling away.	4	2	4	4	4	4	3	1	1	4	7	\$ 87,048.00	R

WISSAHICKON SCHOOL DISTRICT  
RECOMMENDATIONS  
LISTED BY PRIORITY

SCHOOL	ITEM	SA	CV	EI	NP	PC	DE	CI	LEI	ESI	LE	PRIORITY	2011 Estimated Cost Including 30% Indirect Costs	Category
Stony Creek	Replace air handling units in the Multi-Purpose Room to eliminate excessive noise issues.	3	4	4	4	4	4	3	3	4	4	7	\$ 182,000.00	HVAC
Stony Creek	Repair control joints in Cafeteria wall (Day light through joints)	2	3	4	4	5	4	4	4	4	5	7	\$ 3,120.00	M
Stony Creek	Replace/install mechanical equipment in gymnasium on top of roof, including modifying ductwork below.	3	4	4	4	4	4	3	3	2	4	7	\$ 156,000.00	HVAC
Stony Creek	Install fencing w/ gate across basketball court playground to separate driveway from children's play area.	4	4	3	4	5	3	4	1	1	4	7	\$ 8,580.00	L
Stony Creek	Replace spalled concrete door stoop to main courtyard.	3	3	3	5	4	3	3	3	1	5	7	\$ 2,470.00	CONC
Stony Creek	Rework storm inlets near and adjacent to loading dock to insure proper water flow removal and to repair damaged asphalt around inlets.	3	3	3	5	4	3	3	3	1	5	7	\$ 19,500.00	SW
Stony Creek	Replace overhead gates with doors to eliminate dead end corridors when in closed position	3	2	4	4	5	4	4	2	1	4	7	\$ 18,200.00	SP
Stony Creek	Add Occupancy Sensors in classrooms, restrooms, offices and other code locations to save energy.	3	3	3	5	3	3	2	3	4	3	7	\$ 52,000.00	ES
Stony Creek	Add/replace exterior area lighting for more uniform lighting and to cover dark areas.	3	3	3	5	3	3	2	3	4	3	7	\$ 117,000.00	EL
Stony Creek	Replace old FPE panelboards.	3	3	3	5	3	3	2	3	4	3	7	\$ 78,000.00	ES
Stony Creek	Replace lighting in gymnasium, multi-purpose room and kitchen to provide adequate light, more energy efficiency and to remove unsupported T12 lamps.	3	3	3	5	3	3	2	3	4	3	7	\$ 97,500.00	IL
													\$ 19,819,498.14	

**WISSAHICKON SCHOOL DISTRICT  
RECOMMENDATIONS  
LISTED BY PRIORITY**

SCHOOL	ITEM	SA	CV	EI	NP	PC	DE	CI	LEI	ESI	LE	PRIORITY	2011 Estimated Cost Including 30% Indirect Costs	Category
Blue Bell	Test domestic water for lead & sediment - possibly replace piping	3	2	4	4	4	4	3	3	1	4	6	\$ 31,720.00	P
Blue Bell	Remodel gang toilet rooms and provide proper facilities for building population	3	3	3	4	3	4	3	3	2	4	6	\$ 234,000.00	TRG
Blue Bell	Replace Classroom doors, provide tempered glass	3	3	3	4	3	3	3	3	2	4	6	\$ 63,180.00	ID
Blue Bell	Investigate sanitary sewer system, replace damaged portions	3	2	4	4	4	4	3	1	1	4	6	\$ 31,720.00	P
Blue Bell	Provide access drive between parent drop off loop and paved play area for additional visitor parking - install gate	3	3	2	4	4	3	5	1	2	4	6	\$ 16,380.00	PA
Blue Bell	Install new keying system - match District-wide system	3	3	3	4	3	3	3	2	2	4	6	\$ 54,600.00	ID
Blue Bell	Renovate Classroom Toilets, not ADA compliant	3	3	3	3	3	4	3	3	2	4	6	\$ 134,784.00	TRI
Blue Bell	Provide hot water to classrooms and classroom toilet rooms	2	3	4	4	4	3	2	2	4	1	6	\$ 29,120.00	P
Blue Bell	Repair concrete foundation	3	2	4	4	4	3	3	1	1	4	6	\$ 6,240.00	CONC
Blue Bell	Add carbon dioxide sensors to provide demand control ventilation on 5 air handling units	3	2	4	4	4	3	3	1	1	4	6	\$ 19,500.00	HVAC
Blue Bell	Update the HVAC control system with the current version of the manufacturer's software.	3	3	2	4	4	3	3	2	2	4	6	\$ 13,000.00	ATC
Blue Bell	Replace exterior doors	2	3	3	4	3	3	3	3	2	4	6	\$ 100,100.00	ED
Blue Bell	Replace gymnasium upper single-pane windows with double-pane windows.	2	3	3	4	3	3	3	3	2	4	6	\$ 33,696.00	WR
Blue Bell	Recaulk all exterior windows.	2	3	3	4	3	3	3	3	2	4	6	\$ 7,800.00	WR
Blue Bell	Regrade soil along sidewalks behind school to correct potential tripping hazard. (Between building & bus garage)	3	3	3	4	3	3	3	1	1	4	6	\$ 58,500.00	L
Blue Bell	Replace fire alarm system	3	2	3	4	3	3	3	2	2	4	6	\$ 158,600.00	FA
Blue Bell	Install lighting & sound system for Cafeteria stage	2	4	2	4	3	3	3	2	2	4	6	\$ 104,000.00	TE
Blue Bell	Upgrade storm sewer system, tie roof drains from building additions to underground system	2	2	4	4	3	4	3	1	1	5	6	\$ 79,300.00	SW
Blue Bell	Reinstall fire extinguisher cabinets to acceptable ADA height. Currently mounted at 52" AFF to key	3	2	3	4	4	3	3	1	1	4	6	\$ 9,750.00	FA
Blue Bell	Replace Gym/Large Group wood floor	2	3	3	4	3	3	3	2	1	4	6	\$ 24,570.00	FC
Blue Bell	Add receptacles as required in classrooms to limit power strip use.	2	4	2	4	3	3	3	2	1	4	6	\$ 34,125.00	ES
Blue Bell	Regrade around building to achieve positive drainage away from Guidance and Nurse Suite section of building.	2	3	3	4	3	3	3	1	1	5	6	\$ 15,210.00	L
Blue Bell	Allowance to seal cracks in asphalt paving and overlay new asphalt wearing course.	2	3	3	4	3	3	3	2	1	4	6	\$ 292,500.00	PA



**WISSAHICKON SCHOOL DISTRICT  
RECOMMENDATIONS  
LISTED BY PRIORITY**

SCHOOL	ITEM	SA	CV	EI	NP	PC	DE	CI	LEI	ESI	LE	PRIORITY	2011 Estimated Cost Including 30% Indirect Costs	Category
Blue Bell	Allowance for concrete sidewalk repair	2	3	2	4	3	3	4	2	2	4	6	\$ 67,275.00	CONC
Blue Bell	Allowance for concrete curb repair	2	3	2	4	3	3	4	2	2	4	6	\$ 14,560.00	CONC
Blue Bell	Add insulation and finish at Classroom window system heads	2	3	2	4	3	3	3	3	2	4	6	\$ 8,125.00	WR
Blue Bell	Repair and/or modify existing domestic hot water return system to correct issue with the lack of hot water.	3	2	3	4	3	3	2	2	1	4	6	\$ 19,500.00	P
Blue Bell	Install new sprinkler system throughout building	3	2	3	4	3	3	2	2	1	4	6	\$ 237,900.00	P
Blue Bell	Replace suspended ceiling system	2	2	3	4	3	3	3	2	2	4	6	\$ 214,500.00	CLG
Blue Bell	Replace handrail on stage stair	2	3	2	4	3	3	4	2	1	4	6	\$ 6,500.00	STI
Blue Bell	Replace VCT in original building Classrooms and Corridors	2	2	3	4	3	3	3	2	2	4	6	\$ 209,040.00	FC
Blue Bell	Install lightning protection	2	2	3	4	3	3	3	3	1	4	6	\$ 62,400.00	R
Blue Bell	Provide additional exit signs and emergency lighting as required to meet code minimum values.	3	2	2	4	3	3	3	2	2	4	6	\$ 130,000.00	FA
High School	Install security fencing around high voltage transformers adjacent to tennis courts.	5	2	2	4	5	3	3	2	2	3	6	\$ 4,875.00	L
High School	Refinish bleacher structures. Remove rust and repaint.	2	3	3	5	3	3	4	3	2	4	6	\$ 81,341.00	AF
High School	Replace lighting in gymnasium to provide better lighting for television and more energy efficiency.	2	3	3	5	3	3	3	3	3	4	6	\$ 117,000.00	IL
High School	Replace acoustic operable partition in "old" gymnasium	2	4	3	4	3	4	4	2	1	4	6	\$ 194,688.00	SP
High School	Provide drop-down divider curtain in "round" gymnasium	2	4	3	4	3	4	4	2	1	4	6	\$ 65,000.00	SP
High School	Add receptacles as required in classrooms to limit power strip use.	2	4	3	4	3	3	3	4	1	4	6	\$ 97,500.00	ES
High School	Expand existing Simplex 4020 Fire Alarm System visual devices into Classrooms to meet current codes.	3	3	2	5	3	3	2	3	4	3	6	\$ 91,000.00	FA
High School	The existing domestic water heaters were installed in 1999. Replacement may be necessary in the next ten years. Consider replacement with high efficiency instantaneous type heaters.	3	3	4	5	3	3	2	1	1	3	6	\$ 325,000.00	P
High School	Renovate toilet rooms, not ADA compliant, in poor condition. original Building.	3	2	2	5	3	4	4	3	2	4	6	\$ 702,000.00	TRG
High School	Remove all skylights, patch roof to match existing adjacent surfaces	2	2	3	5	3	4	2	3	4	4	6	\$ 118,300.00	R
High School	Provide multi-media system in "Audion"	2	4	4	4	2	3	4	1	1	4	6	\$ 20,800.00	SP
High School	Add additional heating equipment to generator (will necessitate new generator)	3	3	3	5	3	4	2	1	1	4	6	\$ 240,500.00	ES
High School	Replace classroom casework	2	3	3	5	3	4	3	1	2	4	6	\$ 150,800.00	CA

**WISSAHICKON SCHOOL DISTRICT  
RECOMMENDATIONS  
LISTED BY PRIORITY**

SCHOOL	ITEM	SA	CV	EI	NP	PC	DE	CI	LEI	ESI	LE	PRIORITY	2011 Estimated Cost Including 30% Indirect Costs	Category
High School	Replace operable partitions	2	3	3	4	4	4	3	2	1	4	6	\$ 65,000.00	SP
High School	Refinish classroom doors, replace hardware	2	4	3	5	3	3	3	1	1	3	6	\$ 341,250.00	ID
High School	Install acoustic treatments in gymnasiums (two)	2	4	3	5	3	3	3	1	1	3	6	\$ 19,435.00	UN
High School	Add resilient wood floor in original Gymnasiums	2	4	3	5	3	3	2	1	1	4	6	\$ 235,942.20	FC
High School	Replace seating in "Audion" with ADA compliant seating	2	4	3	4	2	3	4	1	2	4	6	\$ 19,500.00	TE
High School	Replace guard/hand rails in main auditorium	3	3	3	4	4	3	3	1	1	3	6	\$ 14,625.00	HC
High School	Provide additional district-wide maintenance shop space	3	3	3	3	3	4	3	2	1	4	6	\$ 820,456.00	UN
High School	Add UL924 listed relay system to control emergency lights	2	3	2	5	3	3	2	3	4	3	6	\$ 45,500.00	IL
High School	Replace window treatments, original building	2	3	3	5	3	3	2	2	1	4	6	\$ 205,634.00	WT
High School	Rework trench drain & inlet along adjoining tennis courts.	2	3	3	4	3	3	3	2	2	4	6	\$ 20,995.00	SW
High School	Replace acoustic tile ceilings.	2	3	3	4	3	4	3	2	2	3	6	\$ 1,183,000.00	CLG
High School	Repair small canopy's at cardio room exterior entrance, replace light fixtures	2	3	3	3	4	3	4	2	1	4	6	\$ 2,246.40	R
High School	Replace ceiling in larger kitchen, protective coating is failing	2	3	2	4	3	4	3	3	2	4	6	\$ 5,382.00	CLG
High School	Install safety railing around stairs leading to low level mechanical room.	4	2	2	4	4	3	3	2	1	3	6	\$ 6,825.00	HC
High School	Replace kitchen hood exhaust system in lower level cafeteria	3	3	3	4	3	3	2	1	1	4	6	\$ 39,000.00	P
High School	Renovate 2-story locker rooms. Make ADA accessible	3	3	2	4	4	4	3	1	1	3	6	\$ 643,500.00	L
High School	Install new ADA compliant handrails @ exit stairs around building. Several locations have no handrails at all.	3	2	2	5	4	4	3	1	1	3	6	\$ 45,500.00	HC
High School	Replace concrete steps at exterior door C5 - spalled worn finish, cracks at bottom (Northeast corner adjacent to dome).	3	3	3	3	4	3	3	1	1	3	6	\$ 5,850.00	CONC
High School	Spalled surface parging on tennis courts high retaining wall at south east corner, reparge.	2	3	3	4	3	3	2	2	2	4	6	\$ 68,250.00	AF
High School	Replace/upgrade the existing monitoring system on both underground oil tanks.	3	2	2	4	4	3	2	2	2	4	6	\$ 19,500.00	HVAC
High School	Grade/fill with soil along building edge of main canopy sidewalk - tripping hazard.	3	3	2	4	4	3	2	1	1	3	6	\$ 15,600.00	L
High School	Install safety railing and handrail on stairs leading down to lower level of chiller area. Also at adjacent loading dock stairs.	3	2	2	4	3	3	3	2	2	4	6	\$ 1,072.50	HC
Lower Gwynedd	Install fire caulk at of above ceiling fire wall penetrations. Allowance for 100 penetrations.	4	2	4	4	5	3	2	1	1	4	6	\$ 1,300.00	M

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SCHOOL	ITEM	SA	CV	EI	NP	PC	DE	CI	LEI	ESI	LE	PRIORITY	2011 Estimated Cost Including 30% Indirect Costs	Category
Lower Gwynedd	Install fence along end of playground area along access drive.	3	3	3	4	5	4	3	1	1	4	6	\$ 7,312.50	L
Lower Gwynedd	Allowance for sidewalk repairs	2	3	3	4	4	3	3	3	1	5	6	\$ 36,270.00	CONC
Lower Gwynedd	Allowance for concrete curb repairs	2	3	3	4	4	3	3	3	1	5	6	\$ 7,592.00	CONC
Lower Gwynedd	Add UL924 listed relay system to control emergency lights	3	3	2	4	3	3	2	3	4	3	6	\$ 170,560.00	ES
Lower Gwynedd	Replace lighting in gymnasium to provide better lighting and more energy efficiency.	2	3	3	4	3	3	3	3	2	3	6	\$ 39,000.00	IL
Lower Gwynedd	Correct grading along edges of concrete sidewalks, tripping hazard.	3	3	3	3	4	3	3	1	1	3	6	\$ 130,000.00	L
Lower Gwynedd	Expand existing Simplex 4020 Fire Alarm System visual devices into Classrooms to meet current codes.	3	2	3	4	3	3	2	3	1	4	6	\$ 39,000.00	FA
Lower Gwynedd	Provide stage lighting, front of house lighting and dimming system for elementary school performances.	2	3	3	4	3	3	3	2	1	3	6	\$ 52,000.00	TE
Mattison Ave.	Replace ATC system for compatibility with District-wide system	2	4	3	5	3	3	3	3	2	3	6	\$ 109,200.00	ATC
Mattison Ave.	Existing toilet exhaust systems are inadequate. Consider replacement of the ducts and fans to provide air flows to meet current code requirements.	3	3	3	3	4	4	3	3	2	4	6	\$ 13,650.00	HVAC
Mattison Ave.	Add carbon dioxide sensors to provide demand control ventilation on 2 air handling units	3	3	3	5	4	3	3	1	1	3	6	\$ 7,800.00	HVAC
Mattison Ave.	Replace all electrical distribution including service entrance unit substation and old appliance panelboards.	3	2	3	3	4	4	3	3	3	4	6	\$ 104,000.00	ES
Mattison Ave.	Expand existing Simplex 4010 Fire Alarm System visual devices into Classrooms to meet current codes.	3	2	3	3	4	4	3	3	2	4	6	\$ 19,500.00	FA
Mattison Ave.	Install elevator to provide ADA access to second floor	3	3	3	3	4	4	3	1	1	4	6	\$ 130,000.00	HC
Mattison Ave.	Construct 3' high retaining wall along edge of upper basketball court (146 lf long including stairs near end) Install 6' high fence on top.Upper playground area has area along edge with standing water from underground spring/source. Rework area to eliminate wet areas and divert water to storm inlets.	3	3	3	3	4	4	3	1	1	4	6	\$ 78,000.00	M
Mattison Ave.	Renovate Boys & Girls Toilet Rooms - Not ADA Compliant	3	2	3	3	4	4	3	3	1	4	6	\$ 202,410.00	TRG
Mattison Ave.	Allowance for sidewalk replacement	2	3	3	3	4	3	3	3	1	5	6	\$ 22,100.00	CONC
Mattison Ave.	Allowance for curb replacement	2	3	3	3	4	3	3	3	1	5	6	\$ 5,200.00	CONC
Mattison Ave.	Replace playground equipment. Provide ADA station	3	3	3	3	4	3	3	1	1	4	6	\$ 52,000.00	AF
Mattison Ave.	Remove battery packs in corridors and ensure all emergency lighting is on generator.	3	2	2	3	4	4	3	3	3	4	6	\$ 58,240.00	ES
Mattison Ave.	Replace building security system	3	2	3	3	4	3	3	3	1	4	6	\$ 27,300.00	FA



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SCHOOL	ITEM	SA	CV	EI	NP	PC	DE	CI	LEI	ESI	LE	PRIORITY	2011 Estimated Cost Including 30% Indirect Costs	Category
Mattison Ave.	Replace operable partitions	3	3	3	4	3	3	2	1	1	4	6	\$ 79,560.00	SP
Mattison Ave.	Add UL924 listed relay system to control emergency lights	3	3	2	3	3	3	2	3	4	3	6	\$ 19,500.00	ES
Mattison Ave.	Add Occupancy Sensors in classrooms, restrooms, offices and other code locations to save energy.	2	2	3	3	4	4	3	3	2	4	6	\$ 39,000.00	ES
Mattison Ave.	Install a chair lift to stage for ADA compliance	2	3	3	3	4	4	3	1	1	4	6	\$ 26,000.00	HC
Mattison Ave.	Replace Multi-Purpose Room equipment	3	3	3	3	3	3	3	1	1	4	6	\$ 78,000.00	GE
Mattison Ave.	Replace plumbing fixtures in Classrooms	3	2	3	4	3	3	3	1	1	4	6	\$ 15,600.00	P
Mattison Ave.	Provide door at Main entrance to create a secure entrance to bldg.	3	2	3	3	4	3	3	1	1	4	6	\$ 10,400.00	ID
Mattison Ave.	Upper playground area - pave area around perimeter of basketball court to outer fence.	3	3	2	3	4	3	3	1	1	4	6	\$ 21,125.00	PA
Mattison Ave.	Caulk cracked concrete window sills along Rosemary & Poplar Streets.	3	3	2	3	4	3	3	1	1	4	6	\$ 1,300.00	M
Mattison Ave.	Replace lawn area at playground with rubber protective play surfacing.	3	3	2	3	4	3	3	1	1	4	6	\$ 135,200.00	L
Mattison Ave.	Install lightning protection	2	2	3	4	3	3	3	3	1	4	6	\$ 19,760.00	R
Middle School	Replace windows on original building	2	3	3	4	4	3	3	3	4	4	6	\$ 202,800.00	WR
Middle School	Install new ADA compliant elevator. Medical Gurney will not fit in existing elevator	3	3	3	4	3	4	3	2	2	4	6	\$ 130,000.00	HC
Middle School	Replace Gymnasium divider curtains	2	4	4	4	3	3	3	1	1	4	6	\$ 247,000.00	GE
Middle School	Stairs leading down to track & football field do not have ADA compliant handrails. (2 sets of stairs)	3	3	3	4	4	3	4	1	1	4	6	\$ 26,000.00	HC
Middle School	There is no ADA access ramp from building level down to running track & football field.	3	3	3	4	4	3	4	1	1	4	6	\$ 28,600.00	HC
Middle School	Provide steps & ADA compliant ramp leading down to cross-over bridge accessing back playing field.	3	3	3	4	4	3	4	1	1	4	6	\$ 71,500.00	HC
Middle School	Install sprinklers in original building for complete coverage	3	3	2	4	4	4	3	2	2	4	6	\$ 709,800.00	P
Middle School	Renovate Toilet Rooms, not ADA compliant	3	3	3	4	3	3	3	2	2	4	6	\$ 1,202,760.00	TRG
Middle School	Add additional power circuits as well as receptacles as required in classrooms to limit power strip use.	3	3	3	4	3	3	3	2	2	4	6	\$ 78,000.00	ES
Middle School	Replace lighting in gymnasiums and pool to provide better lighting and more energy efficiency.	2	3	3	4	3	3	3	3	3	4	6	\$ 143,000.00	IL
Middle School	Tennis Courts - seal cracks in courts and install bridging membrane. Install overlay wearing surface and resurface.	3	3	3	4	3	3	3	1	1	4	6	\$ 13,650.00	AF
Middle School	Replace pool ceilings	3	3	3	4	3	3	3	1	1	4	6	\$ 50,700.00	CLG



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SCHOOL	ITEM	SA	CV	EI	NP	PC	DE	CI	LEI	ESI	LE	PRIORITY	2011 Estimated Cost Including 30% Indirect Costs	Category
Middle School	Replace ceilings	2	3	3	4	3	4	3	2	2	3	6	\$ 591,500.00	CLG
Middle School	Revise emergency lighting system so that entire system be shut down during night. Remove batt ballasts and add emergency only lights in applicable classrooms.	3	2	2	4	3	3	3	3	3	4	6	\$ 378,560.00	ES
Middle School	Provide ADA access to Natatorium	2	3	3	3	4	3	4	1	1	4	6	\$ 32,500.00	HC
Middle School	Test domestic water for lead & sediment - possibly replace piping	3	3	2	4	3	4	2	1	1	4	6	\$ 59,150.00	P
Middle School	Investigate sanitary sewer system, replace damaged portions	3	3	2	4	3	4	2	1	1	4	6	\$ 59,150.00	P
Middle School	Replace domestic water service	3	3	2	4	3	4	2	1	1	4	6	\$ 58,500.00	P
Middle School	Back playing field was noted to have drainage issues. Recommend raising finish field playing surface elevation to help with this issue.	2	3	3	4	3	3	3	1	1	4	6	\$ 106,080.00	AF
Middle School	Refinish gymnasium floors	2	3	3	4	3	3	3	1	1	4	6	\$ 174,200.00	FC
Middle School	Review CCTV system and add cameras and NVR's as required to meet current occupant needs.	3	3	3	4	2	3	2	1	1	4	6	\$ 26,000.00	FA
Middle School	Replace canopy light fixtures, repair canopies	3	2	2	4	3	3	3	2	2	4	6	\$ 21,060.00	UN
Middle School	Replace window treatments	2	3	3	4	4	3	2	1	1	3	6	\$ 37,180.00	WT
Middle School	Upgrade the HVAC control system software.	3	2	2	4	3	3	3	2	2	4	6	\$ 13,000.00	ATC
Shady Grove	Allowance to replace concrete sidewalks	2	3	3	5	4	3	3	3	1	5	6	\$ 102,700.00	CONC
Shady Grove	Allowance to replace concrete curbs	2	3	3	5	4	3	3	3	1	5	6	\$ 11,440.00	CONC
Shady Grove	Repair plumbing by Library, (leaks through to floor below)	3	3	3	4	5	4	2	2	1	4	6	\$ 10,400.00	P
Shady Grove	Add carbon dioxide sensors to provide demand control ventilation on 3 air handling units	4	2	4	4	4	3	3	1	1	4	6	\$ 11,700.00	HVAC
Shady Grove	Replace ramp at main entrance, including guard/hand rails. Not ADA compliant (approx. 50 linear feet)	2	3	3	3	5	4	4	2	2	4	6	\$ 7,800.00	HC
Shady Grove	Repair canopies at stairs, two-story addition	2	3	4	4	4	4	3	1	1	4	6	\$ 3,744.00	STE
Shady Grove	Investigate & repair exterior foundation wall leak at "main entrance" stair	3	2	4	4	4	4	2	2	1	4	6	\$ 78,000.00	M
Shady Grove	Replace all existing rooftop air handling units. Install new ductwork and VAV system.	3	2	4	4	4	3	3	1	1	4	6	\$ 3,770,000.00	HVAC
Shady Grove	Replace Library furniture	2	4	3	4	3	3	3	2	1	4	6	\$ 97,500.00	SP
Shady Grove	Replace hand/guard rail at "main entrance" stair, not ADA compliant	3	2	3	4	4	3	4	2	1	4	6	\$ 3,900.00	HC
Shady Grove	Supplement chain link fence at areaway guard rail, lower section is open	4	2	2	4	5	3	3	1	1	4	6	\$ 2,912.00	L

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SCHOOL	ITEM	SA	CV	EI	NP	PC	DE	CI	LEI	ESI	LE	PRIORITY	2011 Estimated Cost Including 30% Indirect Costs	Category
Shady Grove	Replace exterior lighting, provide additional lighting for security	3	2	3	4	3	3	3	2	2	4	6	\$ 156,000.00	EL
Shady Grove	Replace windows, provide screens for operable windows	2	3	2	4	3	3	3	2	4	4	6	\$ 144,612.00	WR
Shady Grove	Add ADA parking facilities close to building.	2	3	3	3	4	3	4	2	1	4	6	\$ 14,560.00	PA
Shady Grove	Add receptacles as required in classrooms to limit power strip use.	2	4	2	4	3	3	3	2	1	4	6	\$ 52,000.00	ES
Shady Grove	Install ADA ramps at drop-off drive loop.	3	2	3	4	3	3	3	2	1	4	6	\$ 16,380.00	HC
Shady Grove	Replace concrete stairs and associated handrails from drive down to parking lots across from Boiler room.	3	2	3	4	3	3	3	2	1	4	6	\$ 13,000.00	STI
Shady Grove	Visible evidence of settlement at NE corner of building @ ramp to loading dock. Repair/rebuild masonry at corner.	3	2	3	4	3	3	3	2	1	4	6	\$ 6,240.00	M
Shady Grove	Replace ceiling in original part of building. Remove "hard" ceiling above suspended ceiling	2	2	3	4	3	3	3	3	2	4	6	\$ 678,600.00	CLG
Shady Grove	Replace roof ladders, provide ladder with cage to Gymnasium roof	4	2	3	2	5	3	2	1	1	4	6	\$ 4,056.00	R
Shady Grove	Replace roof	2	2	3	4	3	3	2	2	4	4	6	\$ 1,502,800.00	R
Shady Grove	Provide additional exit signage throughout building	3	2	3	4	3	3	3	1	1	4	6	\$ 26,000.00	SI
Shady Grove	Replace Library spray on acoustic finish with acoustic panels and new ceiling panels	2	3	3	4	3	3	3	1	1	4	6	\$ 31,200.00	CLG
Stony Creek	Replace underground fiberglass oil tank (1988)	3	2	4	4	4	3	3	3	2	4	6	\$ 65,000.00	HVAC
Stony Creek	Allowance for concrete sidewalk replacement.	2	3	3	5	4	3	3	3	1	5	6	\$ 32,500.00	CONC
Stony Creek	Allowance for concrete curb replacement.	2	3	3	5	4	3	3	3	1	5	6	\$ 8,320.00	CONC
Stony Creek	Overlay asphalt basketball court/playing area along east side to prevent standing ponding water and direct to storm inlet.	2	3	3	5	4	3	3	3	1	5	6	\$ 16,848.00	AF
Stony Creek	Allowance to seal cracks in asphalt driveways and parking lots. Includes wearing course overlay.	2	3	3	5	4	3	3	3	1	5	6	\$ 637,000.00	PA
Stony Creek	Seal surface of asphalt playground areas to prolong useful life .	2	3	3	5	4	3	3	3	1	5	6	\$ 121,680.00	AF
Stony Creek	Install chairlift from rear of stage to Corridor for Handicap Access to stage	3	3	3	4	3	4	4	2	1	5	6	\$ 20,800.00	HC
Stony Creek	Provide chairlift for stage in "new" Gymnasium. Not ADA compliant	3	3	3	4	3	4	4	2	1	5	6	\$ 20,800.00	HC
Stony Creek	Replace existing 15 year old generator down the road. Add additional heating equipment during this time as directed by owner	3	3	3	4	3	3	2	3	4	4	6	\$ 143,000.00	ES
Stony Creek	Provide new roof-top guard rail at Library AHU	4	2	3	5	3	3	2	2	2	4	6	\$ 2,145.00	R
Stony Creek	Add UL924 listed relay system to control emergency lights	3	3	2	5	3	3	2	3	4	3	6	\$ 26,000.00	ES

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SCHOOL	ITEM	SA	CV	EI	NP	PC	DE	CI	LEI	ESI	LE	PRIORITY	2011 Estimated Cost Including 30% Indirect Costs	Category
Stony Creek	Add additional power circuits and receptacles as required in classrooms to limit power strip use.	2	3	3	5	3	3	2	3	4	3	6	\$ 32,500.00	ES
Stony Creek	Add carbon dioxide sensors to provide demand control ventilation on 5 air handling units	3	3	3	4	3	3	4	2	1	4	6	\$ 19,500.00	HVAC
Stony Creek	Eeplace classroom doors (w/ wire glass).	3	3	3	4	3	4	3	2	1	4	6	\$ 44,460.00	ID
Stony Creek	Replace sliding glass windows between classrooms and corridor with tempered glass and HM frames	3	3	3	4	3	4	3	2	1	4	6	\$ 42,250.00	WR
Stony Creek	Expand existing Simplex 4010 Fire Alarm System visual devices into Classrooms to meet current codes.	4	3	2	4	5	3	2	1	1	4	6	\$ 32,500.00	FA
Stony Creek	Replace speakers and wiring for intercom system due to occupant complaints. Head end equipment is current and functional.	3	3	3	3	3	3	2	3	4	3	6	\$ 62,400.00	CS
Stony Creek	Replace rusted safety rail adjacent to rooftop chiller.	3	2	3	5	3	3	2	2	2	4	6	\$ 2,925.00	R
Stony Creek	Review CCTV system and add cameras and NVR's as required to meet current occupant needs.	2	3	3	4	3	3	2	3	4	3	6	\$ 26,000.00	FA
Stony Creek	Provide a new sound system and dimming system, border lights and front of house lights for the main stage.	2	3	3	4	3	3	2	3	4	3	6	\$ 104,000.00	TE
Stony Creek	Reconfigure Toilet Rooms - not ADA compliant	2	2	4	4	4	4	3	1	1	4	6	\$ 323,856.00	TRG
Stony Creek	Replace Kitchen Equipment	3	2	2	4	3	3	3	3	4	4	6	\$ 650,000.00	FS
Stony Creek	Replace all existing single-pane windows in original section of building.	2	3	3	4	3	3	3	2	2	4	6	\$ 390,000.00	WR
Stony Creek	Replace Library Corridor wall (wood & glass) with HM frame and tempered glass. Include door.	2	3	3	4	3	4	3	2	1	4	6	\$ 20,280.00	UN
Stony Creek	Provide sprinkler system	3	2	2	4	3	3	3	3	4	3	6	\$ 234,000.00	FS
Stony Creek	Rework grading at time of new inlet install at loading dock to increase height of dock. Install concrete slab in recessed area around loading dock.	3	2	3	4	3	3	2	2	2	4	6	\$ 9,750.00	CONC
Stony Creek	Replace building exterior lighting at exit doors. Provide additional lighting for security	3	3	2	4	3	3	3	2	1	4	6	\$ 19,500.00	EL
Stony Creek	Replace all acoustic ceiling tiles.	2	3	3	4	3	4	3	1	1	4	6	\$ 209,300.00	CLG
Stony Creek	Replace/remove aluminum rooftop skylights (60) Raise to provide for proper flashing	2	2	3	5	3	3	2	2	2	4	6	\$ 50,700.00	R
Stony Creek	Reconfigure roof expansion joints on existing building. Build up height to create curb and install metal expansion joint cover.	2	2	3	5	3	3	2	2	2	4	6	\$ 16,835.00	R
Stony Creek	Replace roof drains on original building, including drain bowl, strainers and interior elbow fittings.	2	2	3	5	3	3	2	2	2	4	6	\$ 11,050.00	R
Stony Creek	Add overflow scupper drain to high cafeteria roof.	2	2	3	5	3	3	2	2	2	4	6	\$ 1,300.00	R
Stony Creek	Replace rusted fencing around kindergarten playground.	2	3	3	3	3	4	3	2	1	4	6	\$ 29,250.00	L
Stony Creek	Replace all wood casework	2	3	3	4	3	3	3	1	1	4	6	\$ 364,000.00	CA

WISSAHICKON SCHOOL DISTRICT  
RECOMMENDATIONS  
LISTED BY PRIORITY

SCHOOL	ITEM	SA	CV	EI	NP	PC	DE	CI	LEI	ESI	LE	PRIORITY	2011 Estimated Cost Including 30% Indirect Costs	Category
Stony Creek	Replace wood multi-purpose room floor	2	3	3	4	3	3	3	1	1	4	6	\$ 63,700.00	FC
Stony Creek	Refinish Multi-purpose Room Stage floor	2	3	3	4	3	3	3	1	1	4	6	\$ 12,350.00	FC
Stony Creek	Replace classroom and Kindergarten VCT	2	3	3	4	3	3	3	1	1	4	6	\$ 190,125.00	FC
Stony Creek	Repaint CMU walls	2	3	3	4	3	3	3	1	1	4	6	\$ 120,900.00	FIN
Stony Creek	Replace corridor pinboard	2	3	3	4	3	3	3	1	1	4	6	\$ 32,500.00	SP
Stony Creek	Replace Library furnishing	2	3	3	4	3	3	3	1	1	4	6	\$ 97,500.00	SP
Stony Creek	Replace window shades	2	3	3	4	3	3	3	1	1	4	6	\$ 71,500.00	WT
Stony Creek	Repaint door frames	2	3	3	4	3	3	3	1	1	4	6	\$ 58,500.00	FIN
													\$ 25,956,699.60	



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SCHOOL	ITEM	SA	CV	EI	NP	PC	DE	CI	LEI	ESI	LE	PRIORITY	2011 Estimated Cost Including 30% Indirect Costs	Category
Blue Bell	Replace chain link fence along route 73	3	2	2	4	4	3	3	1	1	4	5	\$ 32,500.00	L
Blue Bell	Replace exterior lighting, provide additional lighting for security	3	2	2	4	2	3	4	2	2	4	5	\$ 91,000.00	EL
Blue Bell	Supplement security system. provide cameras in office area and exterior north side of building	3	2	3	3	3	3	3	2	2	3	5	\$ 32,500.00	FA
Blue Bell	Provide handicapped accessible playground equipment	2	4	2	2	3	3	4	2	2	4	5	\$ 26,000.00	HC
Blue Bell	Replace corridor door hold opens	3	2	2	4	3	3	2	2	2	4	5	\$ 9,360.00	ID
Blue Bell	Replace cafeteria tables	2	3	2	4	3	3	3	2	1	4	5	\$ 52,000.00	SP
Blue Bell	Replace classroom exterior doors.	2	2	3	4	3	3	3	1	1	4	5	\$ 20,020.00	ED
Blue Bell	Install new window shades	2	3	2	4	2	3	3	2	1	4	5	\$ 85,800.00	WT
Blue Bell	Provide screens on operable windows	2	3	2	4	3	3	2	1	1	4	5	\$ 7,553.00	WR
Blue Bell	Replace delaminating wood panels and glass in main hall	2	2	3	3	3	3	3	2	1	4	5	\$ 2,652.00	FIN
Blue Bell	Replace all soffit panels around perimeter of building (both high & low roof areas.)	2	2	3	4	3	3	2	1	1	4	5	\$ 148,824.00	R
Blue Bell	Replace all doors	2	2	2	4	3	3	3	2	1	4	5	\$ 416,000.00	ID
Blue Bell	Replace casework	2	2	2	4	3	3	3	2	1	4	5	\$ 585,000.00	CA
Blue Bell	Consider upgrading the acoustical treatment on the roof mounter air-cooled chiller if ambient noise is an issue.	2	3	2	4	2	3	3	1	1	4	5	\$ 19,500.00	HVAC
Blue Bell	Rebuild parged half wall and set slate capstones at Kindergarten courtyard.	2	3	2	3	3	3	3	1	1	4	5	\$ 6,240.00	M
Blue Bell	Repair/Replace slate patio at kindergarten playground area.	2	3	2	3	3	3	3	1	1	4	5	\$ 18,200.00	CONC
Blue Bell	Paint all Drywall and CMU walls, fascia and soffits	2	2	2	4	3	3	3	1	1	3	5	\$ 118,950.00	FIN
Blue Bell	Repaint all interior door frames	2	2	2	4	3	3	3	1	1	3	5	\$ 59,475.00	FIN
Blue Bell	Replace roof top exhaust vents	3	2	2	2	3	3	2	2	1	4	5	\$ 19,500.00	HVAC
Blue Bell	Widen concrete sidewalk at bottom of ADA sidewalk ramp outside of room #26.	2	2	3	2	3	3	3	1	1	4	5	\$ 2,106.00	CONC
Blue Bell	Install intercom in Kitchen and boiler room office	3	2	2	2	2	3	2	2	2	4	5	\$ 9,100.00	CS
Blue Bell	Provide HVAC system testing, adjusting, & balancing services including review of heating & cooling loads	2	2	2	4	3	3	1	2	1	3	5	\$ 13,000.00	HVAC
Blue Bell	Add signage at electrical services to indicate (2) services to building for code.	3	2	2	2	3	3	2	1	1	4	5	\$ 650.00	SI

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SCHOOL	ITEM	SA	CV	EI	NP	PC	DE	CI	LEI	ESI	LE	PRIORITY	2011 Estimated Cost Including 30% Indirect Costs	Category
Blue Bell	Add Occupancy Sensors in classrooms, offices and other code locations to save energy.	3	2	2	2	3	3	2	1	1	4	5	\$ 52,000.00	ES
Blue Bell	Install roof access ladders from main low roof to classroom wing roof areas.	3	2	2	2	3	3	2	1	1	4	5	\$ 4,680.00	R
Blue Bell	Refinish rusted louver and window lintels.	2	2	2	3	3	3	2	1	1	4	5	\$ 8,320.00	M
Blue Bell	Review distribution and add capacitors as required to correct poor power factor.	3	2	2	2	3	3	2	1	1	3	5	\$ 39,000.00	ES
Blue Bell	Repair and paint main entrance canopy columns. Rust appearing.	2	2	2	4	2	3	2	1	1	3	5	\$ 936.00	FIN
Bus Garage	Replace ATC system to match District-wide system	3	1	1	2	5	5	1	1	1	4	5	\$ 35,100.00	ATC
Central Office	Replace ladder to roof. provide access to mechanical loft and new roof hatch.	4	1	2	1	5	5	2	1	1	5	5	\$ 19,500.00	R
High School	Replace Library furniture	2	3	3	4	3	3	2	1	1	4	5	\$ 227,500.00	SP
High School	Extend existing domestic hot water return piping where required.	2	3	3	4	3	3	2	1	1	4	5	\$ 32,500.00	P
High School	Review CCTV system and add cameras and NVR's as required to meet current occupant needs.	2	3	3	4	3	3	3	1	1	3	5	\$ 32,500.00	FA
High School	Allowance for Asphalt paved drives and parking lots - Remove & replace	3	2	2	4	3	3	3	2	2	3	5	\$ 832,000.00	PA
High School	Allowance for Asphalt paved drives and parking lots - Seal cracks & overlay	3	2	2	4	3	3	3	2	2	3	5	\$ 1,300,000.00	PA
High School	Install ADA compliant railings/handrails. Also install ADA ramp access.	3	2	2	4	3	3	3	2	2	3	5	\$ 45,500.00	HC
High School	The intercom system should be updated down the road. While functional it is a little antiquated.	2	3	2	5	3	3	2	1	1	4	5	\$ 1,020,500.00	CS
High School	Replace Kitchen Equipment	3	2	2	4	3	3	3	2	2	3	5	\$ 1,300,000.00	FS
High School	Reconfigure receiving area. Access is difficult for deliveries and for District use	3	2	2	4	3	3	3	2	2	3	5	\$ 52,000.00	PA
High School	Replace electric water coolers	2	2	2	5	3	3	3	1	2	4	5	\$ 46,800.00	P
High School	Allowance to provide landscaping around building	2	3	2	4	3	3	3	1	1	4	5	\$ 260,000.00	L
High School	Update communication system, does not announce in Corridors or Cafeteria	3	2	2	4	3	3	3	2	2	2	5	\$ 117,000.00	CS
High School	Provide air balancing services to investigate issues & temperature issues in various areas	3	2	2	4	3	3	3	2	2	2	5	\$ 36,400.00	CS
High School	Provide additional roof ladders for access to various roof levels. Install cages where required.	5	1	2	1	5	3	2	1	1	5	5	\$ 11,700.00	R
High School	Upgrade TV Studio	2	3	3	2	3	3	3	2	2	3	5	\$ 195,000.00	UN
High School	Provide ramp in front corridor for ADA access from main entrance to "old" gymnasium	3	2	2	4	2	3	4	1	1	3	5	\$ 13,000.00	HC

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SCHOOL	ITEM	SA	CV	EI	NP	PC	DE	CI	LEI	ESI	LE	PRIORITY	2011 Estimated Cost Including 30% Indirect Costs	Category
High School	Expand visitors and administrators parking along front of building. Provide adequate ADA parking	2	1	1	3	5	3	5	1	2	5	5	\$ 296,400.00	PA
High School	Replace Ceramic Wall tile in 1961 Building	2	2	2	4	3	4	2	1	1	3	5	\$ 899,600.00	FIN
High School	Provide additional site directional signage	3	2	1	4	3	3	3	1	1	3	5	\$ 4,550.00	L
High School	Replace floor finishes in "Audion"	2	2	2	3	2	4	3	1	2	4	5	\$ 10,796.50	FC
High School	Refinish stage and stage front in "Audion"	2	2	2	3	2	4	3	1	2	4	5	\$ 17,615.00	TE
High School	Add/modify ADA sidewalk accessibility from parking lot to sidewalks.	3	2	2	3	3	3	2	1	1	3	5	\$ 582.40	CONC
High School	Provide wheelchair seating with companion seating in main auditorium	3	2	2	3	2	3	3	1	1	3	5	\$ 19,500.00	HC
High School	Replace flooring in main auditorium (not stage)	3	2	2	3	2	3	3	1	1	3	5	\$ 188,812.00	FC
High School	Replace vertical metal siding, paint finish worn, peeling and panels are rusting.	2	2	2	3	3	3	2	2	2	3	5	\$ 31,200.00	UN
High School	Replace Library carpet	2	2	2	4	3	3	2	1	1	3	5	\$ 183,118.00	FC
High School	Replace window shades	2	2	2	4	3	3	2	1	1	3	5	\$ 343,200.00	WT
High School	Replace fan-coil units located in classrooms	2	2	3	4	1	4	2	1	1	2	5	\$ 2,016,300.00	HVAC
High School	Repair/repaint brick/masonry, recaulk control joints.	2	2	2	3	3	3	2	2	1	3	5	\$ 771,387.50	M
High School	Replace Non Terrazzo flooring in corridors and stairs	2	2	2	3	3	3	2	1	1	4	5	\$ 648,180.00	FC
High School	Polish existing Terrazzo flooring	2	2	2	4	2	3	2	1	1	3	5	\$ 224,900.00	FC
High School	Replace VCT in Preschool and Family Consumer Science	2	2	2	4	2	3	2	1	1	3	5	\$ 24,700.00	FC
High School	Repaint all cmu walls	2	2	2	4	2	3	2	1	1	3	5	\$ 514,800.00	FIN
High School	Repaint all gypsum board walls, Fascia, & soffits	2	2	2	4	2	3	2	1	1	3	5	\$ 146,250.00	FIN
Lower Gwynedd	Regrade around perimeter of building at foundation, existing grade pitches back towards building.	2	3	3	3	4	3	3	1	1	3	5	\$ 78,000.00	L
Lower Gwynedd	Upgrade the HVAC control system software.	2	2	3	4	3	3	2	3	1	4	5	\$ 6,500.00	ATC
Lower Gwynedd	Add carbon dioxide sensors to provide demand control ventilation on 2 air handling units	3	3	3	4	3	1	2	1	1	3	5	\$ 15,600.00	HVAC
Lower Gwynedd	Provide additional visitor parking at main entrance	3	2	2	4	3	3	3	1	1	4	5	\$ 12,480.00	PA
Lower Gwynedd	Replace exterior parking lighting	3	2	2	4	3	3	2	2	1	4	5	\$ 32,500.00	EL

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SCHOOL	ITEM	SA	CV	EI	NP	PC	DE	CI	LEI	ESI	LE	PRIORITY	2011 Estimated Cost Including 30% Indirect Costs	Category
Lower Gwynedd	Install acoustic treatment in Multi-Purpose room	2	3	2	4	3	3	3	1	1	4	5	\$ 42,432.00	UN
Lower Gwynedd	Renovate gang toilet rooms to include lavatories in rooms (total of 5 locations)	2	2	3	4	3	4	2	1	1	4	5	\$ 585,000.00	TRG
Lower Gwynedd	Add ADA ramp detectors @ existing ramp locations.	3	2	2	3	4	3	3	1	1	4	5	\$ 4,550.00	CONC
Lower Gwynedd	Replace handrails adjacent to loading dock, does not meet ADA code requirements.	3	2	2	3	4	3	3	1	1	4	5	\$ 5,850.00	STE
Lower Gwynedd	Relocate vent at the existing main gas service entrance.	3	2	2	3	4	4	2	1	1	4	5	\$ 4,550.00	HVAC
Lower Gwynedd	Add Occupancy Sensors in classrooms, offices and other code locations to save energy.	2	2	2	4	3	3	2	3	2	3	5	\$ 78,000.00	ES
Lower Gwynedd	Consider adding a leaving air temperature reset schedule to the air handling system serving the Main Office to correct over cooling issue during the summer.	2	3	2	4	2	3	2	2	1	3	5	\$ 5,200.00	HVAC
Lower Gwynedd	Consider adding supplemental heat in the Lobby area.	2	3	2	4	2	3	2	2	1	3	5	\$ 9,100.00	HVAC
Lower Gwynedd	Replace 8'-0" gate to generator with solid panel gate to eliminate ladder affect	4	1	1	4	3	3	2	1	1	4	5	\$ 3,250.00	L
Lower Gwynedd	Replace exterior speakers.	2	3	2	3	2	3	3	1	1	4	5	\$ 15,600.00	CS
Lower Gwynedd	Repoint high brick masonry retaining wall & capstone by loading dock, no evidence of thru-wall flashing or weep holes anywhere. Repair/reinforce vertical full-height crack (approx. 18" from end).	2	3	2	3	2	3	3	1	1	4	5	\$ 1,625.00	M
Lower Gwynedd	Severe alligatored surface in back parking lot near loading dock. Could possibly overlay, but recommend complete removal and replacement. Include access drive heading down hill towards Central Office building.	2	3	2	3	2	3	3	1	1	4	5	\$ 187,200.00	PA
Lower Gwynedd	Replace exterior lighting on building.	2	3	2	3	2	3	3	1	1	4	5	\$ 39,000.00	EL
Lower Gwynedd	Repoint brick masonry screen wall at soccer field (adjacent to loading dock area, enclosing emergency generator, electrical transformer and chiller unit) joints show signs of erosion.	2	3	2	3	2	3	3	1	1	4	5	\$ 8,222.50	M
Lower Gwynedd	Recoat asphalt paved playgrounds to extend life	2	3	2	3	2	3	3	1	1	4	5	\$ 73,125.00	AF
Lower Gwynedd	Replace corridor terrazzo tile	2	3	2	3	2	3	3	1	1	4	5	\$ 477,750.00	FC
Lower Gwynedd	Repaint CMU walls	2	3	2	3	2	3	3	1	1	4	5	\$ 159,900.00	FIN
Lower Gwynedd	Replace all acoustic ceiling tiles	2	3	2	3	2	3	3	1	1	4	5	\$ 318,500.00	CLG
Lower Gwynedd	Replace Multipurpose room floor	2	3	2	3	2	3	3	1	1	4	5	\$ 45,825.00	FC
Lower Gwynedd	Replace carpet in Music, Large Group, and Office	2	3	2	3	2	3	3	1	1	4	5	\$ 95,550.00	FC



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SCHOOL	ITEM	SA	CV	EI	NP	PC	DE	CI	LEI	ESI	LE	PRIORITY	2011 Estimated Cost Including 30% Indirect Costs	Category
Lower Gwynedd	Repaint door frames	2	3	2	3	2	3	3	1	1	4	5	\$ 79,950.00	FIN
Lower Gwynedd	Review CCTV system and add cameras and NVR's as required to meet current occupant needs.	2	3	2	3	2	3	3	1	1	4	5	\$ 32,500.00	FA
Lower Gwynedd	Investigate and repair roof leak at elevator due to ice build-up	3	2	2	2	3	3	3	1	1	4	5	\$ 13,000.00	CS
Lower Gwynedd	Replace carpet in classrooms with VCT	2	2	2	4	3	3	2	1	1	3	5	\$ 153,562.50	FC
Lower Gwynedd	Allowance to seal cracks in drives and parking lots. Includes wearing course overlay.	2	2	2	4	3	3	2	1	1	3	5	\$ 351,000.00	PA
Lower Gwynedd	Add additional directional signage to direct parents to proper drop-off drive.	2	2	2	4	3	3	2	1	1	3	5	\$ 2,600.00	L
Lower Gwynedd	Recaulk all exterior windows, doors, expansion joints, louvers, vents and flashing.	2	2	2	4	3	3	2	1	1	3	5	\$ 106,600.00	M
Lower Gwynedd	Paint steel lintels at doors & windows.	2	2	2	4	3	3	2	1	1	3	5	\$ 4,225.00	FIN
Lower Gwynedd	Replace exterior basketball backstops & pole assemblies.	2	3	2	3	2	3	2	1	1	4	5	\$ 31,200.00	AF
Lower Gwynedd	Add receptacles as required in classrooms to limit power strip use.	2	3	2	3	2	3	2	1	1	4	5	\$ 39,000.00	ES
Mattison Ave.	Provide CAT 6 network cabling infrastructure	2	2	3	3	4	3	3	3	1	4	5	\$ 109,200.00	CS
Mattison Ave.	Renovate (2) stair towers - Not ADA compliant	2	3	3	3	3	3	3	1	1	4	5	\$ 70,200.00	STI
Mattison Ave.	Replace all casework	2	3	3	4	3	3	2	1	1	3	5	\$ 182,000.00	CA
Mattison Ave.	Provide a new dimming system, border lights and front of house lights for the stage. The sound system should be reviewed	3	3	2	3	3	3	3	1	1	4	5	\$ 104,000.00	TE
Mattison Ave.	Replace single pane windows with insulated glass windows	3	2	2	3	3	3	2	3	2	4	5	\$ 216,372.00	WR
Mattison Ave.	Replace exterior lighting. Provide more security lighting around bldg.	3	2	2	3	3	3	2	2	2	4	5	\$ 15,600.00	EL
Mattison Ave.	Replace all acoustic ceiling tiles.	3	2	2	4	3	4	2	1	1	3	5	\$ 101,010.00	CLG
Mattison Ave.	Replace lighting in kitchen.	3	2	2	4	3	4	2	1	1	3	5	\$ 6,500.00	IL
Mattison Ave.	Install roof hatch and ladder to low roof in Kitchen Storage Room	4	2	2	1	4	3	2	1	1	4	5	\$ 4,550.00	R
Mattison Ave.	Replace roof ladder from low roof to Multi-Purpose Roof	4	2	2	1	4	3	2	1	1	4	5	\$ 2,340.00	R
Mattison Ave.	Repair exterior soffit beneath second floor - east side of building	3	2	2	3	3	3	2	1	1	4	5	\$ 18,408.00	R
Mattison Ave.	Replace skylights, raise curbs & repair flashing.	3	2	2	3	3	3	2	1	1	4	5	\$ 14,560.00	R
Mattison Ave.	Install fence or bush barrier around small detention basin adjacent to garden courtyard area.	3	2	2	3	3	3	2	1	1	4	5	\$ 6,500.00	L

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Mattison Ave.	Add receptacles as required in classrooms to limit power strip use.	2	3	2	3	3	3	2	1	1	4	5	\$ 15,600.00	ES
Mattison Ave.	Repaint all CMU walls	2	2	2	4	3	3	2	1	1	3	5	\$ 54,600.00	FIN
Mattison Ave.	Refinish Terrazzo floors	2	2	2	4	3	3	2	1	1	3	5	\$ 89,700.00	FC
Mattison Ave.	Replace all VCT flooring	2	2	2	4	3	3	2	1	1	3	5	\$ 114,088.00	FC
Mattison Ave.	Replace Library and Office carpet	2	2	2	4	3	3	2	1	1	3	5	\$ 72,800.00	FC
Mattison Ave.	Review CCTV system and add cameras and NVR's as required to meet current occupant needs.	2	3	2	3	2	3	2	1	1	4	5	\$ 26,000.00	FA
Mattison Ave.	Replace electric water coolers	2	2	2	3	3	3	2	1	1	4	5	\$ 3,900.00	P
Mattison Ave.	Repair brick façade along south face of building - pushing out. Remove three brick c. Install new thru-wall flashing, repair and paint lintel, reinstall brick	2	2	2	3	3	3	2	1	1	4	5	\$ 3,835.00	M
Mattison Ave.	Repair cracks in mortar joints and replace cracked bricks in chimney. Reinforce wall areas as necessary during repointing.	2	2	2	3	3	3	2	1	1	4	5	\$ 7,280.00	M
Mattison Ave.	Recaulk all exterior joints, including windows & door frames,	2	2	2	3	3	3	2	1	1	4	5	\$ 364,000.00	M
Mattison Ave.	Resurface fenced in kindergarten asphalt playground.	2	2	2	3	3	3	2	1	1	4	5	\$ 23,400.00	AF
Middle School	Provide additional parking for faculty, staff, and visitors	2	2	2	3	5	3	4	2	2	4	5	\$ 39,000.00	PA
Middle School	Replace classroom doors and hardware, close side light louvers	3	3	2	4	3	3	2	1	1	4	5	\$ 102,960.00	ID
Middle School	Replace plastic laminated casework	2	3	3	4	3	3	2	1	1	4	5	\$ 754,000.00	CA
Middle School	Replace classroom carpet with VCT	2	3	3	4	3	3	2	1	1	4	5	\$ 415,209.60	FC
Middle School	Replace parking lot lights and light bases. Install additional lighting.	3	2	2	4	4	3	3	1	1	4	5	\$ 143,000.00	EL
Middle School	Repair demountable partitions	2	3	3	4	3	3	3	1	1	3	5	\$ 19,500.00	SP
Middle School	Provide a dimming system in the TV studio for light fixtures.	2	3	3	4	3	3	2	1	1	4	5	\$ 19,500.00	IL
Middle School	Add Occupancy Sensors in classrooms, restrooms, offices and other code locations to save energy.	3	2	2	4	3	3	2	2	2	4	5	\$ 143,000.00	ES
Middle School	Replace roof. Many blistering areas, abandoned curbs, ponding water, poor drainage, replace roof drains, noted many leaks. Provide overflow scuppers on sixth grade pod	3	3	2	3	3	3	2	1	1	5	5	\$ 2,504,361.60	R
Middle School	Replace Corridor stair treads and risers	3	2	2	4	3	3	3	1	1	4	5	\$ 3,900.00	STI
Middle School	Replace F&CS equipment	2	3	3	3	3	3	2	1	1	4	5	\$ 78,000.00	CA

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Middle School	Provide new backstop at baseball field. Install dugout roofs with chain link fence for separation	2	3	2	3	4	3	3	1	1	4	5	\$ 58,500.00	AF
Middle School	Provide new backstop at softball field. Install dugout roofs with chain link fence for separation	2	3	2	3	4	3	3	1	1	4	5	\$ 58,500.00	AF
Middle School	Install protective cages on roof access ladder by chiller.	5	2	2	1	4	3	2	1	1	4	5	\$ 3,120.00	R
Middle School	Install ADA indicators at all existing exterior ADA ramps.	3	2	2	4	3	3	2	1	1	4	5	\$ 4,225.00	HC
Middle School	Regrade along sidewalks - tripping hazard.	3	2	2	4	3	3	2	1	1	4	5	\$ 62,400.00	L
Middle School	Exit door stairs need ADA handrails at D1.	3	2	2	4	3	3	2	1	1	4	5	\$ 1,950.00	ED
Middle School	Replace exterior aluminum doors and hardware	2	2	2	4	3	3	2	2	2	4	5	\$ 239,200.00	ED
Middle School	Replace exterior hollow metal doors and hardware	2	2	2	4	3	3	2	2	2	4	5	\$ 74,620.00	ED
Middle School	Provide additional site directional signage	3	2	2	3	3	3	3	1	1	4	5	\$ 3,250.00	L
Middle School	Provide ADA access to spectators area in Natatorium	2	2	2	3	4	3	4	1	1	4	5	\$ 39,000.00	HC
Middle School	Replace flooring in Corridor ramps. Provide slip resistant finish	2	2	2	4	3	3	3	1	1	4	5	\$ 4,680.00	FC
Middle School	Install acoustic treatment in Gymnasium (two)	2	3	2	4	2	3	2	1	1	4	5	\$ 130,000.00	UN
Middle School	Install acoustic treatment in Natatorium	2	3	2	4	2	3	2	1	1	4	5	\$ 84,500.00	UN
Middle School	Replace grease trap	2	2	2	4	3	3	2	1	1	4	5	\$ 32,500.00	FS
Middle School	Allowance to seal cracks in asphalt paved drives and parking lots. Install overlay wearing course	2	2	2	4	3	3	2	1	1	4	5	\$ 433,875.00	PA
Middle School	Repair grass areas in high traffic areas around building.	2	2	2	4	3	3	2	1	1	4	5	\$ 13,000.00	L
Middle School	Repoint masonry and repair brick around building, signs of joint cracking and erosion.	2	2	2	4	3	3	2	1	1	4	5	\$ 567,515.00	M
Middle School	Replace recessed lights in main entrance canopy.	2	2	2	3	3	3	2	2	2	4	5	\$ 3,900.00	EL
Middle School	Replace carpet in Admin/Library/Large Group	2	2	2	4	3	3	2	1	1	4	5	\$ 179,770.50	FC
Middle School	Refinish terrazzo floors	2	2	2	4	3	3	2	1	1	4	5	\$ 130,000.00	FC
Middle School	Replace VCT	2	2	2	4	3	3	2	1	1	4	5	\$ 197,600.00	FC
Middle School	Replace interior stair doors with 3'-0"/2'-0" doors. Not ADA compliant	2	2	2	4	3	2	2	1	1	4	5	\$ 56,160.00	ID
Middle School	Replace interior doors in Athletic wing, provide panic hardware	2	2	2	4	3	2	2	1	1	4	5	\$ 124,800.00	ID



**WISSAHICKON SCHOOL DISTRICT  
RECOMMENDATIONS  
LISTED BY PRIORITY**

SCHOOL	ITEM	SA	CV	EI	NP	PC	DE	CI	LEI	ESI	LE	PRIORITY	2011 Estimated Cost Including 30% Indirect Costs	Category
Middle School	Reconfigure loading dock area for truck access	3	2	2	2	3	3	2	1	1	4	5	\$ 74,880.00	UN
Middle School	Replace lightning protection. Provide coverage on entire building	2	2	2	3	3	3	2	1	1	4	5	\$ 111,280.00	R
Middle School	Wing side walls at door D1 stairs need to be rebuilt.	2	2	2	3	3	3	2	1	1	4	5	\$ 5,070.00	M
Middle School	Replace Quarry Tile floor in kitchen	2	2	2	3	3	3	2	1	1	4	5	\$ 48,620.00	FC
Middle School	Repaint all cmu walls	2	2	2	4	2	3	2	1	1	3	5	\$ 348,075.00	FIN
Middle School	Repaint office and guidance	2	2	2	4	2	3	2	1	1	3	5	\$ 6,825.00	FIN
Shady Grove	Replace roof drains on original building, including drain bowl, strainers and interior elbow fittings.	3	2	3	4	3	3	2	1	1	4	5	\$ 10,400.00	R
Shady Grove	Add Occupancy Sensors in classrooms, offices and other code locations to save energy.	2	2	4	3	3	3	3	2	1	4	5	\$ 71,500.00	ES
Shady Grove	Provide roof edge guards at AHU's 6, 7, and 8. Units within 10' of roof edge	4	2	3	1	5	3	2	1	1	4	5	\$ 14,040.00	R
Shady Grove	Allowance to seal cracks in asphalt drives and parking lots. Includes installation of overlay wearing course.	2	2	3	4	3	3	3	2	1	4	5	\$ 88,270.00	PA
Shady Grove	Apply sealer coating on asphalt paved playground area.	2	2	3	4	3	3	3	2	1	4	5	\$ 65,520.00	PA
Shady Grove	Replace Classroom sinks & bubblers with ADA compliant sinks	2	3	2	4	3	3	3	1	1	4	5	\$ 70,200.00	P
Shady Grove	Replace Library and Main Office carpet and vinyl base	2	3	2	4	3	3	3	1	1	4	5	\$ 130,000.00	FC
Shady Grove	Replace VCT throughout facility and resolve under slab moisture source	2	3	2	4	3	3	3	1	1	4	5	\$ 380,120.00	FC
Shady Grove	Paint all Drywall Finishes and CMU walls	2	3	2	4	3	3	3	1	1	4	5	\$ 198,900.00	FIN
Shady Grove	Replace vinyl wall covering in lower floor suite	2	3	2	4	3	3	3	1	1	4	5	\$ 26,000.00	FIN
Shady Grove	Replace sloped ceiling tiles in select corridors	2	3	2	4	3	3	3	1	1	4	5	\$ 13,650.00	CLG
Shady Grove	Repaint all door frames	2	3	2	4	3	3	3	1	1	4	5	\$ 198,900.00	FIN
Shady Grove	Provide overflow roof drains or scuppers for Gymnasium roof	2	2	3	4	3	3	2	1	1	4	5	\$ 1,300.00	R
Shady Grove	Review CCTV system and add cameras and NVR's as required to meet current occupant needs.	2	3	2	4	2	3	3	2	1	3	5	\$ 26,000.00	FA
Shady Grove	Replace interior stair and landing at roof access. Provide compliant guardrails	3	2	2	2	5	3	2	1	1	4	5	\$ 2,600.00	STI
Shady Grove	Remove and reinstall rising wall flashing at Gymnasium & stage to include thru-wall weep holes.	2	2	3	3	3	3	2	1	1	4	5	\$ 9,750.00	M
Shady Grove	Recaulk all exterior windows, door frames, masonry expansion joints and room unit vent grills/louvers.	2	2	3	3	3	3	2	1	1	4	5	\$ 132,600.00	M

**WISSAHICKON SCHOOL DISTRICT  
RECOMMENDATIONS  
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SCHOOL	ITEM	SA	CV	EI	NP	PC	DE	CI	LEI	ESI	LE	PRIORITY	2011 Estimated Cost Including 30% Indirect Costs	Category
Shady Grove	Provide additional directional site signage	3	2	2	3	2	3	3	1	1	4	5	\$ 2,600.00	L
Shady Grove	Wrap roof-top duct at AHU's to prevent roof leaks	2	3	3	2	3	3	2	1	1	3	5	\$ 71,500.00	HVAC
Shady Grove	Install corner guards at interior Corridor corners (damaged tile)	2	2	2	4	2	3	2	1	1	4	5	\$ 4,680.00	UN
Shady Grove	Raise/extend vent pipe, currently flush with roof.	2	2	3	2	3	3	2	1	1	4	5	\$ 11,440.00	R
Shady Grove	Repair approx 20% and refinish E.I.F.S.	2	2	2	3	3	3	2	2	1	3	5	\$ 101,400.00	UN
Shady Grove	Install lightning protection (roof sf)	2	2	2	3	3	3	2	1	1	4	5	\$ 70,720.00	R
Shady Grove	Replace underground oil tank	2	2	2	3	3	3	2	1	1	4	5	\$ 84,500.00	HVAC
Stony Creek	Replace roof on original building. Provide tapered insulation to provide for proper drainage	3	2	3	4	3	3	2	1	1	4	5	\$ 972,400.00	R
Stony Creek	Reconfigure storm pipe at water main to eliminate built in "trap"	2	2	3	4	3	3	3	2	1	4	5	\$ 11,050.00	SW
Stony Creek	Provide additional interior exit signage	3	2	2	4	3	3	3	1	1	4	5	\$ 19,500.00	SI
Stony Creek	Replace double doors (2) 2'-6" doors with ADA compliant doors	2	2	3	4	3	3	3	1	1	3	5	\$ 31,200.00	ID
Stony Creek	Add additional ADA curb cuts at main entrance and Student Drop-off areas.	2	2	3	3	3	3	2	1	1	4	5	\$ 1,950.00	CONC
Stony Creek	Install screens on operable windows	3	2	2	3	3	3	1	1	1	3	5	\$ 5,551.00	WR
Stony Creek	Install lightning protection	2	2	2	3	3	3	2	1	1	4	5	\$ 62,400.00	R
Stony Creek	Repair cracked/spalled brick chimney.	2	2	1	3	3	3	2	2	2	4	5	\$ 1,950.00	M
Stony Creek	Remove grass beneath windows and Unit vents and provide landscape stones	2	2	2	3	2	3	2	1	1	5	5	\$ 29,250.00	L
Stony Creek	Replace ATC system to match District wide system	2	2	2	4	2	3	2	1	1	3	5	\$ 241,800.00	ATC
													\$ 29,029,035.10	

WISSAHICKON SCHOOL DISTRICT  
RECOMMENDATIONS  
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SCHOOL	ITEM	SA	CV	EI	NP	PC	DE	CI	LEI	ESI	LE	PRIORITY	2011 Estimated Cost Including 30% Indirect Costs	Category
Blue Bell	Repair damaged and cracked brick/masonry	2	2	2	3	2	3	2	1	1	4	4	\$ 16,250.00	M
Blue Bell	Replace receiving area ceiling	2	2	2	2	3	3	2	1	1	4	4	\$ 812.50	CLG
Blue Bell	Replace Gymnasium stage floor	2	2	2	2	2	3	3	1	1	4	4	\$ 4,992.00	FC
Blue Bell	Repair masonry pointing on chimney, including replacement of broken bricks	2	2	2	1	3	3	2	1	1	4	4	\$ 1,300.00	M
Blue Bell	Replace fence, gate, and handrails to outside entrance to Boiler Room	3	1	1	1	3	3	2	1	1	5	4	\$ 5,460.00	STE
Blue Bell	Replace Library carpet and main office carpet	2	2	2	1	2	3	3	1	1	3	4	\$ 28,762.50	FC
Blue Bell	Replace floor grate in Boiler Room	3	1	1	1	3	3	2	1	1	4	4	\$ 6,500.00	SW
Blue Bell	Install ventilation system in crawl space	3	1	1	1	3	3	1	1	1	4	4	\$ 19,500.00	HVAC
Bus Garage	Provide closed in area for tire storage	3	1	1	2	5	4	1	1	1	4	4	\$ 58,500.00	UN
Bus Garage	Add a Security system and card access system to meet occupant needs.	3	1	1	2	5	4	1	1	1	4	4	\$ 26,000.00	FA
Bus Garage	Replace HVAC system with new gas fired rooftop unit (eliminate boiler & piping), replace exhaust systems.	2	1	1	2	5	5	1	1	1	5	4	\$ 325,000.00	HVAC
Bus Garage	Replace old panel boards that are no longer supported.	3	1	1	2	4	4	1	1	1	5	4	\$ 21,060.00	ES
Bus Garage	Replace perimeter fence and gates with new 10' high chain link fence with slide gates and card readers for access to lot.	3	1	1	2	4	4	1	1	1	4	4	\$ 71,500.00	L
Bus Garage	Replace exterior lighting. Provide additional lighting for security	3	1	1	2	4	4	1	1	1	4	4	\$ 78,000.00	EL
Bus Garage	Replace existing rooftop heating/cooling unit and add additional areas to the system.	3	1	1	2	4	4	1	1	1	4	4	\$ 52,000.00	HVAC
Bus Garage	Replace existing gas fired domestic water heater	3	1	1	2	4	4	1	1	1	4	4	\$ 10,400.00	P
Bus Garage	Review pumping station and provide emergency shut-off equipment.	3	1	1	2	4	4	1	1	1	4	4	\$ 13,000.00	UN
Bus Garage	Provide driver entrance, renovate lounge, & provide appropriate Toilet Room Facilities for drivers and building staff. (Renovation and addition)	2	1	1	2	4	5	1	1	1	5	4	\$ 364,000.00	UN
Bus Garage	Replace existing Simplex 4001 Fire Alarm System to meet current codes.	3	1	1	2	3	4	1	1	1	4	4	\$ 32,500.00	FA
Bus Garage	Repair blistered areas on high roof area (approx 15%)	3	1	1	1	4	4	1	1	1	4	4	\$ 21,840.00	R
Bus Garage	Replace deteriorated steel storm main in parking lot.	3	1	1	1	4	4	1	1	1	4	4	\$ 97,500.00	SW
Bus Garage	Replace roof drains on both high and low roof areas. (4" deep standing water on small low roof area)	2	1	1	2	4	4	1	1	1	4	4	\$ 15,600.00	R
Bus Garage	Install lightning protection (roof sf)	2	1	1	2	4	3	1	1	1	4	4	\$ 9,360.00	R

**WISSAHICKON SCHOOL DISTRICT  
RECOMMENDATIONS  
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SCHOOL	ITEM	SA	CV	EI	NP	PC	DE	CI	LEI	ESI	LE	PRIORITY	2011 Estimated Cost Including 30% Indirect Costs	Category
Bus Garage	Revise bus heater distribution to provide GF protection.	3	1	1	1	3	3	1	1	1	4	4	\$ 6,500.00	HVAC
Bus Garage	Provide Sprinkler system	3	1	1	1	3	3	1	1	1	4	4	\$ 46,800.00	FA
Bus Garage	Replace electric water coolers	2	1	1	2	3	3	1	1	1	4	4	\$ 2,340.00	P
Bus Garage	Seal cracks and overlay new asphalt wearing course over entire parking lot area.	2	1	1	2	3	3	1	1	1	4	4	\$ 643,500.00	PA
Central Office	Install handrails at interior ramps	3	1	1	1	4	4	3	1	1	5	4	\$ 5,850.00	STI
Central Office	Install sprinkler system.	3	1	1	1	4	5	1	1	1	5	4	\$ 35,100.00	P
Central Office	Replace domestic water service	3	1	1	1	4	5	1	1	1	5	4	\$ 26,000.00	P
Central Office	Replace guard and hand rails at loading dock. Not ADA compliant.	3	1	1	1	4	4	1	1	1	5	4	\$ 9,750.00	STE
Central Office	Add server room UPS's and cooling to generator. This will require a new generator. Add additional heating, etc. as directed by owner. Review possibility of backing up entire building.	3	1	1	1	4	5	1	1	1	4	4	\$ 162,500.00	ES
Central Office	Replace all exterior single pane windows & curtain wall panel infill's around entire building.	3	1	1	1	4	4	1	1	1	4	4	\$ 218,400.00	WR
Central Office	Install safety guard along roof edge where mechanical equipment is closer than 10' to roof edge.	3	1	1	1	4	3	1	1	1	5	4	\$ 2,437.50	R
Central Office	Add/replace exterior area lighting for more uniform lighting and to cover dark areas.	3	1	1	1	4	4	1	1	1	4	4	\$ 91,000.00	ES
Central Office	Renovate single use toilet rooms. Make ADA compliant if structurally feasible.	2	1	1	1	4	5	1	1	1	5	4	\$ 78,000.00	TRI
Central Office	Add ADA ramp indicators at front entrance.	3	1	1	1	4	3	1	1	1	4	4	\$ 6,240.00	STE
Central Office	Add Occupancy Sensors in offices and other code locations to save energy.	3	1	1	1	4	3	1	1	1	4	4	\$ 58,500.00	ES
Central Office	Install new roof drains on lower roof.	3	1	1	1	3	4	1	1	1	4	4	\$ 12,480.00	R
Central Office	Replace cantilevered concrete slab at double exit door "C2".	3	1	1	1	3	3	1	1	1	4	4	\$ 1,560.00	CONC
Central Office	Replace existing conventional (zoned) unsupported Simplex 4002 Fire Alarm System.	3	1	1	1	3	3	1	1	1	4	4	\$ 68,250.00	FA
Central Office	Add UL924 listed relay system to control emergency lights	3	1	1	1	3	3	1	1	1	4	4	\$ 26,000.00	ES
High School	Seal exposed cold joint in concrete sill below exterior curtain wall windows.	2	2	2	3	3	3	2	1	1	3	4	\$ 8,450.00	M
High School	Replace Music and Band room doors	2	2	2	3	3	3	2	1	1	3	4	\$ 32,760.00	ID
High School	Install overflow roof drains on lecture hall roof & back stage roof	2	2	2	2	3	3	2	1	1	4	4	\$ 3,900.00	R
High School	Install overflow roof drain on lower roof at auditorium.	2	2	3	1	3	3	2	1	1	3	4	\$ 1,300.00	R



**WISSAHICKON SCHOOL DISTRICT  
RECOMMENDATIONS  
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SCHOOL	ITEM	SA	CV	EI	NP	PC	DE	CI	LEI	ESI	LE	PRIORITY	2011 Estimated Cost Including 30% Indirect Costs	Category
High School	Replace roof drains. Include vertical leader down to and including first elbow	2	2	3	1	3	3	2	1	1	3	4	\$ 31,200.00	R
High School	Repaint southwest corner upper level screen wall structural steel, surfaces are rusting.	2	2	2	3	2	3	2	1	1	3	4	\$ 4,290.00	FIN
High School	Refinish main stage floor	2	2	2	3	2	3	2	1	1	3	4	\$ 24,570.00	FC
High School	Replace Stage Curtain (square feet)	2	2	2	3	2	3	2	1	1	3	4	\$ 52,650.00	SP
High School	Repair locker tops	2	2	2	3	2	3	2	1	1	3	4	\$ 45,500.00	SL
High School	Replace dark brown fascia extension around building.	2	2	2	2	2	3	2	1	1	4	4	\$ 156,429.00	UN
High School	Repaint all exposed structural steel columns.	2	2	2	2	2	3	2	1	1	3	4	\$ 1,735.50	FIN
Lower Gwynedd	Replace folding partition in Multi-Purpose room	2	2	1	4	2	3	3	1	1	4	4	\$ 5,200.00	GE
Lower Gwynedd	Consider replacing existing unit ventilators with a vertical Airedale unit and add ducted distribution system to address unit ventilator noise issue.	2	3	3	2	1	4	2	1	1	2	4	\$ 1,092,000.00	HVAC
Lower Gwynedd	Replace window screens.	2	2	2	3	3	3	1	1	1	3	4	\$ 46,020.00	WT
Lower Gwynedd	Repair exterior wall of toilet room to eliminate freezing pipe condition	3	1	1	3	2	3	2	1	1	4	4	\$ 3,900.00	M
Lower Gwynedd	Replace kitchen equipment	2	2	2	2	3	3	3	1	1	1	4	\$ 455,000.00	FS
Lower Gwynedd	Update paging system so main areas can be isolated	2	2	2	2	3	3	3	1	1	1	4	\$ 52,000.00	CS
Lower Gwynedd	Replace toilet room ceilings by main entrance.	2	1	1	3	2	3	2	1	1	3	4	\$ 1,911.00	CLG
Mattison Ave.	Repair skylight window wells. Patch & paint	2	2	2	3	2	3	2	1	1	3	4	\$ 13,478.40	CLG
Mattison Ave.	Replace intercom speakers and wiring. Head end in good condition.	2	2	2	3	2	3	2	1	1	3	4	\$ 29,120.00	CS
Mattison Ave.	Allowance for Landscaping around building	2	2	2	3	2	3	2	1	1	2	4	\$ 39,000.00	L
Middle School	Install ADA compliant room signage	2	2	2	3	2	3	2	1	1	4	4	\$ 26,000.00	SI
Middle School	Replace electric water coolers	2	1	2	4	2	3	2	1	1	4	4	\$ 9,360.00	P
Middle School	Masonry screen wall at loading dock (adjacent to ADA parking) needs to be completely rebuilt. There is no thru-wall flashing or weeps, wall has extensive structural damage due to water infiltration.	2	2	2	2	3	3	2	1	1	4	4	\$ 39,000.00	M
Middle School	Repaint door frames	2	2	2	3	2	3	2	1	1	3	4	\$ 306,150.00	FIN
Middle School	Caulk vertical expansion joints and around window frames.	2	2	2	2	2	3	2	1	1	4	4	\$ 47,320.00	M

**WISSAHICKON SCHOOL DISTRICT  
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SCHOOL	ITEM	SA	CV	EI	NP	PC	DE	CI	LEI	ESI	LE	PRIORITY	2011 Estimated Cost Including 30% Indirect Costs	Category
Middle School	Recaulk rising metal wall flashing joints (bottom of vert. metal panels).	2	2	2	2	2	3	2	1	1	4	4	\$ 23,660.00	M
Middle School	Vertical metal siding - signs of rusting at numerous locations around building. Repaint or replace.	2	2	2	2	2	3	2	1	1	4	4	\$ 252,861.70	UN
Middle School	Install protective cages around large skylight	3	2	2	1	3	1	1	1	1	4	4	\$ 13,104.00	R
Middle School	Provide end panels for bleachers in gymnasium	2	1	1	3	2	3	2	1	1	4	4	\$ 9,360.00	GE
Shady Grove	Replace acoustic wall system in Music/Band Rooms	2	2	2	3	3	3	2	1	1	3	4	\$ 65,000.00	HVAC
Shady Grove	Repair brick joints and cracks, repair caulk joints	2	2	2	2	3	3	2	1	1	4	4	\$ 48,750.00	M
Shady Grove	Refinish rusted steel lintels at curtain wall windows, doors as well as exposed columns.	2	2	2	2	3	3	2	1	1	4	4	\$ 7,150.00	FIN
Shady Grove	Refinish rusted steel lintels at recessed angled windows located at south end of building. Remove cracked mortar joint at ends of lintels and caulk joint.	2	2	2	1	3	3	2	1	1	4	4	\$ 2,730.00	FIN
Shady Grove	Repair/rebuild exterior door canopies, damaged soffits from roof leaks. Lights missing at several locations.	2	2	2	1	3	3	2	1	1	3	4	\$ 2,995.20	R
Shady Grove	Repair and paint drop-off drive canopy column bases, evidence of rust at bottom.	2	2	2	1	3	3	2	1	1	3	4	\$ 4,024.80	R
Shady Grove	Provide hot water in faculty room	2	2	2	1	2	3	2	1	1	4	4	\$ 13,000.00	P
Stony Creek	Recaulk all exterior window and door frames on new addition.	2	2	1	3	3	3	2	2	2	3	4	\$ 11,050.00	M
Stony Creek	Repair cracks in bricks around building.	2	2	2	2	3	3	2	1	1	4	4	\$ 39,000.00	M
Stony Creek	replace Main Office interior windows with HM frames and tempered glass for safety. Include door.	2	2	2	1	2	3	2	1	1	4	4	\$ 16,900.00	ID
													\$ 5,818,874.10	

**WISSAHICKON SCHOOL DISTRICT  
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SCHOOL	ITEM	SA	CV	EI	NP	PC	DE	CI	LEI	ESI	LE	PRIORITY	2011 Estimated Cost Including 30% Indirect Costs	Category
Blue Bell	Remove unused steam piping in crawl space	2	1	1	1	3	3	1	1	1	5	3	\$ 15,600.00	HVAC
Bus Garage	Remove existing stone coping and install new thru-wall flashing & metal coping along north elevation adjacent to School Lane.	2	1	1	1	3	3	1	1	1	4	3	\$ 6,864.00	M
Bus Garage	Rework pointing/caulk joint above segmented thru-wall flashing receiver on all rising walls.	2	1	1	1	3	3	1	1	1	4	3	\$ 2,600.00	M
Bus Garage	Caulk all exterior masonry wall vertical control joints.	2	1	1	1	3	3	1	1	1	4	3	\$ 3,250.00	M
Bus Garage	Repair poorly installed (loose) coping metal on small low roof area.	2	1	1	1	3	3	1	1	1	4	3	\$ 5,304.00	M
Bus Garage	Cut out and repoint blown out mortar joint(s) along exterior wall adjacent to School Lane, damaged from water infiltration from leaking coping stone above.	2	1	1	1	3	3	1	1	1	4	3	\$ 3,250.00	M
Bus Garage	Replace all acoustic ceiling tiles	2	1	1	1	3	3	1	1	1	4	3	\$ 9,100.00	CLG
Bus Garage	Provide CAT 6 wiring	2	1	1	1	3	3	1	1	1	4	3	\$ 35,100.00	CS
Bus Garage	Upgrade Plumbing fixtures	2	1	1	1	3	3	1	1	1	4	3	\$ 20,800.00	P
Bus Garage	Repaint CMU walls	2	1	1	1	2	3	1	1	1	3	3	\$ 17,550.00	FIN
Bus Garage	Replace VCT	2	1	1	1	2	3	1	1	1	3	3	\$ 7,800.00	FC
Central Office	Add storm inlet at bottom of back access drive heading towards E.S. and tie into nearest storm line.	2	1	1	1	3	3	1	1	1	5	3	\$ 9,100.00	SW
Central Office	Install ventilation in crawl space.	2	1	1	1	3	4	1	1	1	4	3	\$ 19,500.00	HVAC
Central Office	Replace all acoustic ceiling tiles	2	1	1	1	3	4	1	1	1	4	3	\$ 127,400.00	CLG
Central Office	Allowance to seal cracks & overlay drives and parking lot	2	1	1	1	3	3	1	1	1	4	3	\$ 351,000.00	PA
Central Office	Install concrete around flagpole.	2	1	1	1	3	3	1	1	1	4	3	\$ 5,200.00	CONC
Central Office	Low spot at corner of parking lot at "In" drive. Possible add storm inlet and pipe towards basin.	2	1	1	1	3	3	1	1	1	4	3	\$ 32,500.00	PA
Central Office	Allowance to replace concrete sidewalks	2	1	1	1	3	3	1	1	1	4	3	\$ 75,400.00	CONC
Central Office	Allowance to replace concrete curbs	2	1	1	1	3	3	1	1	1	4	3	\$ 4,368.00	CONC
Central Office	Update CAT 6 wiring	2	1	1	1	3	3	1	1	1	4	3	\$ 117,000.00	CS
Central Office	Remediate excessive HVAC noise by installing acoustic treatment above acoustic ceilings	2	1	1	1	3	3	1	1	1	4	3	\$ 15,600.00	HVAC
Central Office	Upgrade HVAC systems control system software	2	1	1	1	3	3	1	1	1	4	3	\$ 10,400.00	ATC
Central Office	Caulk all exterior joints.	2	1	1	1	3	3	1	1	1	3	3	\$ 5,850.00	M

WISSAHICKON SCHOOL DISTRICT  
RECOMMENDATIONS  
LISTED BY PRIORITY

SCHOOL	ITEM	SA	CV	EI	NP	PC	DE	CI	LEI	ESI	LE	PRIORITY	2011 Estimated Cost Including 30% Indirect Costs	Category
Central Office	Provide HVAC system testing, adjusting, & balancing services including review of heating & cooling loads	2	1	1	1	3	3	1	1	1	3	3	\$ 12,350.00	HVAC
Central Office	Remove concrete sidewalk along side of building where there are no exit doors or adjacent/intersecting sidewalks.	2	1	1	1	2	3	1	1	1	4	3	\$ 52,000.00	CONC
Central Office	Install cap on chimney.	2	1	1	1	2	3	1	1	1	4	3	\$ 1,950.00	M
Central Office	Repaint CMU walls in Receiving	2	1	1	1	2	3	1	1	1	3	3	\$ 9,750.00	FIN
Central Office	Repaint door frames	2	1	1	1	2	3	1	1	1	3	3	\$ 29,250.00	FIN
Lower Gwynedd	Reinstall/replace ADA signage to compliant height	2	1	1	3	2	1	1	1	1	4	3	\$ 45,500.00	SI
													\$ 1,051,336.00	

Grand Total: \$ 88,379,672.94



**WISSAHICKON SCHOOL DISTRICT  
RECOMMENDATIONS  
LISTED BY CATEGORY**

SCHOOL	ITEM	SA	CV	EI	NP	PC	DE	CI	LEI	ESI	LE	PRIORITY	2011 Estimated Cost Including 30% Indirect Costs	Category
High School	Install intermittent steps along aisles of bleachers. Rise at steps is greater than 7" provide handrail along center of aisle.	3	3	3	5	5	3	5	3	2	4	7	\$ 111,150.00	AF
High School	Replace stadium turf field, running track, and misc. equipment	2	4	4	5	3	3	4	3	2	4	7	\$ 2,600,000.00	AF
High School	Recoat tennis courts	3	4	3	4	3	4	4	3	1	4	7	\$ 31,850.00	AF
Stony Creek	Overlay asphalt basketball court/plateground along east side to prevent standing ponding water and direct to storm inlet.	2	3	3	5	4	3	3	3	1	5	6	\$ 16,848.00	AF
Stony Creek	Seal surface of asphalt playground areas to prolong useful life .	2	3	3	5	4	3	3	3	1	5	6	\$ 121,680.00	AF
High School	Refinish bleacher structures. Remove rust and repaint.	2	3	3	5	3	3	4	3	2	4	6	\$ 81,341.00	AF
Middle School	Tennis Courts - seal cracks in courts and install bridging membrane. Install overlay wearing surface and resurface.	3	3	3	4	3	3	3	1	1	4	6	\$ 13,650.00	AF
Mattison Ave.	Replace playground equipment. Provide ADA station	3	3	3	3	4	3	3	1	1	4	6	\$ 52,000.00	AF
High School	Spalled surface parging on tennis courts high retaining wall at south east corner, reparge.	2	3	3	4	3	3	2	2	2	4	6	\$ 68,250.00	AF
Middle School	Back playing field was noted to have drainage issues. Recommend raising finish field playing surface elevation to help with this issue.	2	3	3	4	3	3	3	1	1	4	6	\$ 106,080.00	AF
Middle School	Provide new backstop at baseball field. Install dugout roofs with chain link fence for separation	2	3	2	3	4	3	3	1	1	4	5	\$ 58,500.00	AF
Middle School	Provide new backstop at softball field. Install dugout roofs with chain link fence for separation	2	3	2	3	4	3	3	1	1	4	5	\$ 58,500.00	AF
Lower Gwynedd	Recoat asphalt paved playgrounds to extend life	2	3	2	3	2	3	3	1	1	4	5	\$ 73,125.00	AF
Lower Gwynedd	Replace exterior basketball backstops & pole assemblies.	2	3	2	3	2	3	2	1	1	4	5	\$ 31,200.00	AF
Mattison Ave.	Resurface fenced in kindergarten asphalt playground.	2	2	2	3	3	3	2	1	1	4	5	\$ 23,400.00	AF
												<b>Total</b>	<b>\$ 3,447,574.00</b>	
High School	Upgrade the HVAC control system software.	3	4	3	5	3	3	3	3	2	3	7	\$ 13,000.00	ATC
Shady Grove	Update HVAC controls system software	3	3	4	4	3	3	3	3	3	4	7	\$ 10,400.00	ATC
Mattison Ave.	Replace ATC system for compatibility with District-wide system	2	4	3	5	3	3	3	3	2	3	6	\$ 109,200.00	ATC
Blue Bell	Update the HVAC control system with the current version of the manufacturer's software.	3	3	2	4	4	3	3	2	2	4	6	\$ 13,000.00	ATC
Middle School	Upgrade the HVAC control system software.	3	2	2	4	3	3	3	2	2	4	6	\$ 13,000.00	ATC
Lower Gwynedd	Upgrade the HVAC control system software.	2	2	3	4	3	3	2	3	1	4	5	\$ 6,500.00	ATC
Stony Creek	Replace ATC system to match District wide system	2	2	2	4	2	3	2	1	1	3	5	\$ 241,800.00	ATC

**WISSAHICKON SCHOOL DISTRICT  
RECOMMENDATIONS  
LISTED BY CATEGORY**

SCHOOL	ITEM	SA	CV	EI	NP	PC	DE	CI	LEI	ESI	LE	PRIORITY	2011 Estimated Cost Including 30% Indirect Costs	Category
Bus Garage	Replace ATC system to match District-wide system	3	1	1	2	5	5	1	1	1	4	5	\$ 35,100.00	ATC
Central Office	Upgrade HVAC systems control system software	2	1	1	1	3	3	1	1	1	4	3	\$ 10,400.00	ATC
												<b>Total</b>	<b>\$ 452,400.00</b>	
High School	Replace classroom casework	2	3	3	5	3	4	3	1	2	4	6	\$ 150,800.00	CA
Stony Creek	Replace all wood casework	2	3	3	4	3	3	3	1	1	4	6	\$ 364,000.00	CA
Middle School	Replace plastic laminated casework	2	3	3	4	3	3	2	1	1	4	5	\$ 754,000.00	CA
Mattison Ave.	Replace all casework	2	3	3	4	3	3	2	1	1	3	5	\$ 182,000.00	CA
Middle School	Replace F&CS equipment	2	3	3	3	3	3	2	1	1	4	5	\$ 78,000.00	CA
Blue Bell	Replace casework	2	2	2	4	3	3	3	2	1	4	5	\$ 585,000.00	CA
												<b>Total</b>	<b>\$ 2,113,800.00</b>	
Middle School	Replace pool ceilings	3	3	3	4	3	3	3	1	1	4	6	\$ 50,700.00	CLG
High School	Replace acoustic tile ceilings.	2	3	3	4	3	4	3	2	2	3	6	\$ 1,183,000.00	CLG
Middle School	Replace ceilings	2	3	3	4	3	4	3	2	2	3	6	\$ 591,500.00	CLG
High School	Replace ceiling in larger kitchen, protective coating is failing	2	3	2	4	3	4	3	3	2	4	6	\$ 5,382.00	CLG
Stony Creek	Replace all acoustic ceiling tiles.	2	3	3	4	3	4	3	1	1	4	6	\$ 209,300.00	CLG
Shady Grove	Replace ceiling in original part of building. Remove "hard" ceiling above suspended ceiling	2	2	3	4	3	3	3	3	2	4	6	\$ 678,600.00	CLG
Shady Grove	Replace Library spray on acoustic finish with acoustic panels and new ceiling panels	2	3	3	4	3	3	3	1	1	4	6	\$ 31,200.00	CLG
Blue Bell	Replace suspended ceiling system	2	2	3	4	3	3	3	2	2	4	6	\$ 214,500.00	CLG
Shady Grove	Replace sloped ceiling tiles in select corridors	2	3	2	4	3	3	3	1	1	4	5	\$ 13,650.00	CLG
Mattison Ave.	Replace all acoustic ceiling tiles.	3	2	2	4	3	4	2	1	1	3	5	\$ 101,010.00	CLG
Lower Gwynedd	Replace all acoustic ceiling tiles	2	3	2	3	2	3	3	1	1	4	5	\$ 318,500.00	CLG
Blue Bell	Replace receiving area ceiling	2	2	2	2	3	3	2	1	1	4	4	\$ 812.50	CLG
Mattison Ave.	Repair skylight window wells. Patch & paint	2	2	2	3	2	3	2	1	1	3	4	\$ 13,478.40	CLG

**WISSAHICKON SCHOOL DISTRICT  
RECOMMENDATIONS  
LISTED BY CATEGORY**

SCHOOL	ITEM	SA	CV	EI	NP	PC	DE	CI	LEI	ESI	LE	PRIORITY	2011 Estimated Cost Including 30% Indirect Costs	Category
Lower Gwynedd	Replace toilet room ceilings by main entrance.	2	1	1	3	2	3	2	1	1	3	4	\$ 1,911.00	CLG
Central Office	Replace all acoustic ceiling tiles	2	1	1	1	3	4	1	1	1	4	3	\$ 127,400.00	CLG
Bus Garage	Replace all acoustic ceiling tiles	2	1	1	1	3	3	1	1	1	4	3	\$ 9,100.00	CLG
												<b>Total</b>	<b>\$ 3,550,043.90</b>	
High School	Allowance for curb replacement	3	3	3	5	4	3	3	3	1	5	7	\$ 16,640.00	CONC
High School	Allowance for sidewalk replacement	3	3	3	5	4	3	3	3	1	5	7	\$ 240,500.00	CONC
Middle School	Allowance for sidewalk replacement	3	3	3	5	4	3	3	3	1	5	7	\$ 115,700.00	CONC
Middle School	Allowance for curb replacement	3	3	3	5	4	3	3	3	1	5	7	\$ 9,360.00	CONC
Stony Creek	Replace spalled concrete door stoop to main courtyard.	3	3	3	5	4	3	3	3	1	5	7	\$ 2,470.00	CONC
Shady Grove	Allowance to replace concrete sidewalks	2	3	3	5	4	3	3	3	1	5	6	\$ 102,700.00	CONC
Shady Grove	Allowance to replace concrete curbs	2	3	3	5	4	3	3	3	1	5	6	\$ 11,440.00	CONC
Stony Creek	Allowance for concrete sidewalk replacement.	2	3	3	5	4	3	3	3	1	5	6	\$ 32,500.00	CONC
Stony Creek	Allowance for concrete curb replacement.	2	3	3	5	4	3	3	3	1	5	6	\$ 8,320.00	CONC
Lower Gwynedd	Allowance for sidewalk repairs	2	3	3	4	4	3	3	3	1	5	6	\$ 36,270.00	CONC
Lower Gwynedd	Allowance for concrete curb repairs	2	3	3	4	4	3	3	3	1	5	6	\$ 7,592.00	CONC
Blue Bell	Repair concrete foundation	3	2	4	4	4	3	3	1	1	4	6	\$ 6,240.00	CONC
Mattison Ave.	Allowance for sidewalk replacement	2	3	3	3	4	3	3	3	1	5	6	\$ 22,100.00	CONC
Mattison Ave.	Allowance for curb replacement	2	3	3	3	4	3	3	3	1	5	6	\$ 5,200.00	CONC
High School	Replace concrete steps at exterior door C5 - spalled worn finish, cracks at bottom (Northeast corner adjacent to dome).	3	3	3	3	4	3	3	1	1	3	6	\$ 5,850.00	CONC
Stony Creek	Rework grading at time of new inlet install at loading dock to increase height of dock. Install concrete slab in recessed area around loading dock.	3	2	3	4	3	3	2	2	2	4	6	\$ 9,750.00	CONC
Blue Bell	Allowance for concrete sidewalk repair	2	3	2	4	3	3	4	2	2	4	6	\$ 67,275.00	CONC
Blue Bell	Allowance for concrete curb repair	2	3	2	4	3	3	4	2	2	4	6	\$ 14,560.00	CONC



**WISSAHICKON SCHOOL DISTRICT  
RECOMMENDATIONS  
LISTED BY CATEGORY**

SCHOOL	ITEM	SA	CV	EI	NP	PC	DE	CI	LEI	ESI	LE	PRIORITY	2011 Estimated Cost Including 30% Indirect Costs	Category
Lower Gwynedd	Add ADA ramp detectors @ existing ramp locations.	3	2	2	3	4	3	3	1	1	4	5	\$ 4,550.00	CONC
Blue Bell	Repair/Replace slate patio at kindergarten playground area.	2	3	2	3	3	3	3	1	1	4	5	\$ 18,200.00	CONC
Stony Creek	Add additional ADA curb cuts at main entrance and Student Drop-off areas.	2	2	3	3	3	3	2	1	1	4	5	\$ 1,950.00	CONC
High School	Add/modify ADA sidewalk accessibility from parking lot to sidewalks.	3	2	2	3	3	3	2	1	1	3	5	\$ 582.40	CONC
Blue Bell	Widen concrete sidewalk at bottom of ADA sidewalk ramp outside of room #26.	2	2	3	2	3	3	3	1	1	4	5	\$ 2,106.00	CONC
Central Office	Replace cantilevered concrete slab at double exit door "C2".	3	1	1	1	3	3	1	1	1	4	4	\$ 1,560.00	CONC
Central Office	Install concrete around flagpole.	2	1	1	1	3	3	1	1	1	4	3	\$ 5,200.00	CONC
Central Office	Allowance to replace concrete sidewalks	2	1	1	1	3	3	1	1	1	4	3	\$ 75,400.00	CONC
Central Office	Allowance to replace concrete curbs	2	1	1	1	3	3	1	1	1	4	3	\$ 4,368.00	CONC
Central Office	Remove concrete sidewalk along side of building where there are no exit doors or adjacent/intersecting sidewalks.	2	1	1	1	2	3	1	1	1	4	3	\$ 52,000.00	CONC
												<b>Total</b>	<b>\$ 880,383.40</b>	
High School	The intercom system should be updated down the road. While functional it is a little antiquated.	2	3	2	5	3	3	2	1	1	4	5	\$ 1,020,500.00	CS
High School	Update communication system, does not announce in Corridors or Cafeteria	3	2	2	4	3	3	3	2	2	2	5	\$ 117,000.00	CS
High School	Provide air balancing services to investigate issues & temperature issues in various areas	3	2	2	4	3	3	3	2	2	2	5	\$ 36,400.00	CS
Blue Bell	Install intercom in Kitchen and boiler room office	3	2	2	2	2	3	2	2	2	4	5	\$ 9,100.00	CS
Stony Creek	Replace speakers and wiring for intercom system due to occupant complaints. Head end equipment is current and functional.	3	3	3	3	3	3	2	3	4	3	6	\$ 62,400.00	CS
Mattison Ave.	Provide CAT 6 network cabling infrastructure	2	2	3	3	4	3	3	3	1	4	5	\$ 109,200.00	CS
Mattison Ave.	Replace intercom speakers and wiring. Head end in good condition.	2	2	2	3	2	3	2	1	1	3	4	\$ 29,120.00	CS
Lower Gwynedd	Replace exterior speakers.	2	3	2	3	2	3	3	1	1	4	5	\$ 15,600.00	CS
Lower Gwynedd	Update paging system so main areas can be isolated	2	2	2	2	3	3	3	1	1	1	4	\$ 52,000.00	CS
Lower Gwynedd	Investigate and repair roof leak at elevator due to ice build-up	3	2	2	2	3	3	3	1	1	4	5	\$ 13,000.00	CS
Central Office	Update CAT 6 wiring	2	1	1	1	3	3	1	1	1	4	3	\$ 117,000.00	CS

**WISSAHICKON SCHOOL DISTRICT  
RECOMMENDATIONS  
LISTED BY CATEGORY**

SCHOOL	ITEM	SA	CV	EI	NP	PC	DE	CI	LEI	ESI	LE	PRIORITY	2011 Estimated Cost Including 30% Indirect Costs	Category
Bus Garage	Provide CAT 6 wiring	2	1	1	1	3	3	1	1	1	4	3	\$ 35,100.00	CS
												<b>Total</b>	<b>\$ 1,616,420.00</b>	
Blue Bell	Replace exterior doors	2	3	3	4	3	3	3	3	2	4	6	\$ 100,100.00	ED
Blue Bell	Replace classroom exterior doors.	2	2	3	4	3	3	3	1	1	4	5	\$ 20,020.00	ED
Middle School	Exit door stairs need ADA handrails at D1.	3	2	2	4	3	3	2	1	1	4	5	\$ 1,950.00	ED
Middle School	Replace exterior aluminum doors and hardware	2	2	2	4	3	3	2	2	2	4	5	\$ 239,200.00	ED
Middle School	Replace exterior hollow metal doors and hardware	2	2	2	4	3	3	2	2	2	4	5	\$ 74,620.00	ED
												<b>Total</b>	<b>\$ 435,890.00</b>	
High School	Add exterior area site lighting for more uniform lighting and to cover dark areas.	3	4	3	5	3	3	4	4	5	4	7	\$ 292,500.00	EL
High School	Install new exterior building lighting.	3	3	3	5	4	3	3	3	3	3	7	\$ 78,000.00	EL
Stony Creek	Add/replace exterior area lighting for more uniform lighting and to cover dark areas.	3	3	3	5	3	3	2	3	4	3	7	\$ 117,000.00	EL
Shady Grove	Replace exterior lighting, provide additional lighting for security	3	2	3	4	3	3	3	2	2	4	6	\$ 156,000.00	EL
Stony Creek	Replace building exterior lighting at exit doors. Provide additional lighting for security	3	3	2	4	3	3	3	2	1	4	6	\$ 19,500.00	EL
Middle School	Replace parking lot lights and light bases. Install additional lighting.	3	2	2	4	4	3	3	1	1	4	5	\$ 143,000.00	EL
Blue Bell	Replace exterior lighting, provide additional lighting for security	3	2	2	4	2	3	4	2	2	4	5	\$ 91,000.00	EL
Lower Gwynedd	Replace exterior parking lighting	3	2	2	4	3	3	2	2	1	4	5	\$ 32,500.00	EL
Mattison Ave.	Replace exterior lighting. Provide more security lighting around bldg.	3	2	2	3	3	3	2	2	2	4	5	\$ 15,600.00	EL
Middle School	Replace recessed lights in main entrance canopy.	2	2	2	3	3	3	2	2	2	4	5	\$ 3,900.00	EL
Lower Gwynedd	Replace exterior lighting on building.	2	3	2	3	2	3	3	1	1	4	5	\$ 39,000.00	EL
Bus Garage	Replace exterior lighting. Provide additional lighting for security	3	1	1	2	4	4	1	1	1	4	4	\$ 78,000.00	EL
												<b>Total</b>	<b>\$ 1,066,000.00</b>	
Blue Bell	Replace old panel boards that were not replaced in most recent renovations.	3	3	4	4	4	4	3	4	4	4	7	\$ 130,000.00	ES

**WISSAHICKON SCHOOL DISTRICT  
RECOMMENDATIONS  
LISTED BY CATEGORY**

SCHOOL	ITEM	SA	CV	EI	NP	PC	DE	CI	LEI	ESI	LE	PRIORITY	2011 Estimated Cost Including 30% Indirect Costs	Category
Lower Gwynedd	Add fire pump to generator and remove breaker at main switchgear to meet current codes. This will necessitate a new larger generator. Add additional heating as directed by owner at this time.	4	2	4	4	5	4	3	3	2	4	7	\$ 162,500.00	ES
Middle School	Replace existing 20 year old generator down the road. Add additional heating equipment during this time as directed by owner	3	4	3	4	4	4	3	3	3	4	7	\$ 195,000.00	ES
Middle School	Replace older ITE panelboards and transformers with newer, safer and more efficient equipment	3	4	3	4	4	4	3	3	3	4	7	\$ 425,880.00	ES
Blue Bell	Provide new generator and increase emergency to add heating system.	3	3	4	4	3	4	3	4	3	4	7	\$ 143,000.00	ES
Shady Grove	Replace old panel boards that were not replaced in most recent renovations.	3	2	4	4	4	3	3	4	2	4	7	\$ 238,680.00	ES
Stony Creek	Add Occupancy Sensors in classrooms, restrooms, offices and other code locations to save energy.	3	3	3	5	3	3	2	3	4	3	7	\$ 52,000.00	ES
Stony Creek	Replace old FPE panelboards.	3	3	3	5	3	3	2	3	4	3	7	\$ 78,000.00	ES
Stony Creek	Replace existing 15 year old generator down the road. Add additional heating equipment during this time as directed by owner	3	3	3	4	3	3	2	3	4	4	6	\$ 143,000.00	ES
High School	Add receptacles as required in classrooms to limit power strip use.	2	4	3	4	3	3	3	4	1	4	6	\$ 97,500.00	ES
Stony Creek	Add UL924 listed relay system to control emergency lights	3	3	2	5	3	3	2	3	4	3	6	\$ 26,000.00	ES
Stony Creek	Add additional power circuits and receptacles as required in classrooms to limit power strip use.	2	3	3	5	3	3	2	3	4	3	6	\$ 32,500.00	ES
High School	Add additional heating equipment to generator (will necessitate new generator)	3	3	3	5	3	4	2	1	1	4	6	\$ 240,500.00	ES
Middle School	Add additional power circuits as well as receptacles as required in classrooms to limit power strip use.	3	3	3	4	3	3	3	2	2	4	6	\$ 78,000.00	ES
Mattison Ave.	Replace all electrical distribution including service entrance unit substation and old appliance panelboards.	3	2	3	3	4	4	3	3	3	4	6	\$ 104,000.00	ES
Lower Gwynedd	Add UL924 listed relay system to control emergency lights	3	3	2	4	3	3	2	3	4	3	6	\$ 170,560.00	ES
Mattison Ave.	Remove battery packs in corridors and ensure all emergency lighting is on generator.	3	2	2	3	4	4	3	3	3	4	6	\$ 58,240.00	ES
Middle School	Revise emergency lighting system so that entire system be shut down during night. Remove batt ballasts and add emergency only lights in applicable classrooms.	3	2	2	4	3	3	3	3	3	4	6	\$ 378,560.00	ES
Blue Bell	Add receptacles as required in classrooms to limit power strip use.	2	4	2	4	3	3	3	2	1	4	6	\$ 34,125.00	ES
Shady Grove	Add receptacles as required in classrooms to limit power strip use.	2	4	2	4	3	3	3	2	1	4	6	\$ 52,000.00	ES
Mattison Ave.	Add UL924 listed relay system to control emergency lights	3	3	2	3	3	3	2	3	4	3	6	\$ 19,500.00	ES
Mattison Ave.	Add Occupancy Sensors in classrooms, restrooms, offices and other code locations to save energy.	2	2	3	3	4	4	3	3	2	4	6	\$ 39,000.00	ES



**WISSAHICKON SCHOOL DISTRICT  
RECOMMENDATIONS  
LISTED BY CATEGORY**

SCHOOL	ITEM	SA	CV	EI	NP	PC	DE	CI	LEI	ESI	LE	PRIORITY	2011 Estimated Cost Including 30% Indirect Costs	Category
Shady Grove	Add Occupancy Sensors in classrooms, offices and other code locations to save energy.	2	2	4	3	3	3	3	2	1	4	5	\$ 71,500.00	ES
Middle School	Add Occupancy Sensors in classrooms, restrooms, offices and other code locations to save energy.	3	2	2	4	3	3	2	2	2	4	5	\$ 143,000.00	ES
Lower Gwynedd	Add Occupancy Sensors in classrooms, offices and other code locations to save energy.	2	2	2	4	3	3	2	3	2	3	5	\$ 78,000.00	ES
Mattison Ave.	Add receptacles as required in classrooms to limit power strip use.	2	3	2	3	3	3	2	1	1	4	5	\$ 15,600.00	ES
Lower Gwynedd	Add receptacles as required in classrooms to limit power strip use.	2	3	2	3	2	3	2	1	1	4	5	\$ 39,000.00	ES
Blue Bell	Add Occupancy Sensors in classrooms, offices and other code locations to save energy.	3	2	2	2	3	3	2	1	1	4	5	\$ 52,000.00	ES
Blue Bell	Review distribution and add capacitors as required to correct poor power factor.	3	2	2	2	3	3	2	1	1	3	5	\$ 39,000.00	ES
Bus Garage	Replace old panel boards that are no longer supported.	3	1	1	2	4	4	1	1	1	5	4	\$ 21,060.00	ES
Central Office	Add server room UPS's and cooling to generator. This will require a new generator. Add additional heating, etc. as directed by owner. Review possibility of backing up entire building.	3	1	1	1	4	5	1	1	1	4	4	\$ 162,500.00	ES
Central Office	Add/replace exterior area lighting for more uniform lighting and to cover dark areas.	3	1	1	1	4	4	1	1	1	4	4	\$ 91,000.00	ES
Central Office	Add Occupancy Sensors in offices and other code locations to save energy.	3	1	1	1	4	3	1	1	1	4	4	\$ 58,500.00	ES
Central Office	Add UL924 listed relay system to control emergency lights	3	1	1	1	3	3	1	1	1	4	4	\$ 26,000.00	ES
												<b>Total</b>	<b>\$ 3,695,705.00</b>	
Shady Grove	Expand existing Simplex 4020 Fire Alarm System visual devices into Classrooms to meet current codes. Add smoke detectors in corridors.	3	3	4	4	3	4	3	2	3	4	7	\$ 58,500.00	FA
High School	Expand existing Simplex 4020 Fire Alarm System visual devices into Classrooms to meet current codes.	3	3	2	5	3	3	2	3	4	3	6	\$ 91,000.00	FA
Stony Creek	Expand existing Simplex 4010 Fire Alarm System visual devices into Classrooms to meet current codes.	4	3	2	4	5	3	2	1	1	4	6	\$ 32,500.00	FA
Mattison Ave.	Expand existing Simplex 4010 Fire Alarm System visual devices into Classrooms to meet current codes.	3	2	3	3	4	4	3	3	2	4	6	\$ 19,500.00	FA
Stony Creek	Review CCTV system and add cameras and NVR's as required to meet current occupant needs.	2	3	3	4	3	3	2	3	4	3	6	\$ 26,000.00	FA
Blue Bell	Replace fire alarm system	3	2	3	4	3	3	3	2	2	4	6	\$ 158,600.00	FA
Blue Bell	Reinstall fire extinguisher cabinets to acceptable ADA height. Currently mounted at 52" AFF to key	3	2	3	4	4	3	3	1	1	4	6	\$ 9,750.00	FA
Mattison Ave.	Replace building security system	3	2	3	3	4	3	3	3	1	4	6	\$ 27,300.00	FA
Lower Gwynedd	Expand existing Simplex 4020 Fire Alarm System visual devices into Classrooms to meet current codes.	3	2	3	4	3	3	2	3	1	4	6	\$ 39,000.00	FA

**WISSAHICKON SCHOOL DISTRICT  
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SCHOOL	ITEM	SA	CV	EI	NP	PC	DE	CI	LEI	ESI	LE	PRIORITY	2011 Estimated Cost Including 30% Indirect Costs	Category
Middle School	Review CCTV system and add cameras and NVR's as required to meet current occupant needs.	3	3	3	4	2	3	2	1	1	4	6	\$ 26,000.00	FA
Blue Bell	Provide additional exit signs and emergency lighting as required to meet code minimum values.	3	2	2	4	3	3	3	2	2	4	6	\$ 130,000.00	FA
High School	Review CCTV system and add cameras and NVR's as required to meet current occupant needs.	2	3	3	4	3	3	3	1	1	3	5	\$ 32,500.00	FA
Blue Bell	Supplement security system. provide cameras in office area and exterior north side of building	3	2	3	3	3	3	3	2	2	3	5	\$ 32,500.00	FA
Shady Grove	Review CCTV system and add cameras and NVR's as required to meet current occupant needs.	2	3	2	4	2	3	3	2	1	3	5	\$ 26,000.00	FA
Lower Gwynedd	Review CCTV system and add cameras and NVR's as required to meet current occupant needs.	2	3	2	3	2	3	3	1	1	4	5	\$ 32,500.00	FA
Mattison Ave.	Review CCTV system and add cameras and NVR's as required to meet current occupant needs.	2	3	2	3	2	3	2	1	1	4	5	\$ 26,000.00	FA
Bus Garage	Add a Security system and card access system to meet occupant needs.	3	1	1	2	5	4	1	1	1	4	4	\$ 26,000.00	FA
Bus Garage	Replace existing Simplex 4001 Fire Alarm System to meet current codes.	3	1	1	2	3	4	1	1	1	4	4	\$ 32,500.00	FA
Central Office	Replace existing conventional (zoned) unsupported Simplex 4002 Fire Alarm System.	3	1	1	1	3	3	1	1	1	4	4	\$ 68,250.00	FA
Bus Garage	Provide Sprinkler system	3	1	1	1	3	3	1	1	1	4	4	\$ 46,800.00	FA
												Total	\$ 941,200.00	
High School	Replace flooring in "round" gymnasium (Replace Mondo floor with wood floor. Address ground water and drainage issue)	2	5	4	5	3	4	4	2	1	4	7	\$ 556,146.50	FC
Blue Bell	Renovate Cafeteria (flooring, wall finishes, acoustic treatments, etc.)	2	4	4	4	4	4	3	3	2	4	7	\$ 436,800.00	FC
High School	Replace carpeting in classrooms with VCT	2	3	4	5	3	3	3	3	2	4	7	\$ 659,318.40	FC
High School	Add resilient wood floor in original Gymnasiums	2	4	3	5	3	3	2	1	1	4	6	\$ 235,942.20	FC
Blue Bell	Replace Gym/Large Group wood floor	2	3	3	4	3	3	3	2	1	4	6	\$ 24,570.00	FC
Middle School	Refinish gymnasium floors	2	3	3	4	3	3	3	1	1	4	6	\$ 174,200.00	FC
Stony Creek	Replace wood multi-purpose room floor	2	3	3	4	3	3	3	1	1	4	6	\$ 63,700.00	FC
Stony Creek	Refinish Multi-purpose Room Stage floor	2	3	3	4	3	3	3	1	1	4	6	\$ 12,350.00	FC
Stony Creek	Replace classroom and Kindergarten VCT	2	3	3	4	3	3	3	1	1	4	6	\$ 190,125.00	FC
Blue Bell	Replace VCT in original building Classrooms and Corridors	2	2	3	4	3	3	3	2	2	4	6	\$ 209,040.00	FC

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SCHOOL	ITEM	SA	CV	EI	NP	PC	DE	CI	LEI	ESI	LE	PRIORITY	2011 Estimated Cost Including 30% Indirect Costs	Category
Middle School	Replace classroom carpet with VCT	2	3	3	4	3	3	2	1	1	4	5	\$ 415,209.60	FC
Shady Grove	Replace Library and Main Office carpet and vinyl base	2	3	2	4	3	3	3	1	1	4	5	\$ 130,000.00	FC
Shady Grove	Replace VCT throughout facility and resolve under slab moisture source	2	3	2	4	3	3	3	1	1	4	5	\$ 380,120.00	FC
Middle School	Replace flooring in Corridor ramps. Provide slip resistant finish	2	2	2	4	3	3	3	1	1	4	5	\$ 4,680.00	FC
Middle School	Replace carpet in Admin/Library/Large Group	2	2	2	4	3	3	2	1	1	4	5	\$ 179,770.50	FC
Middle School	Refinish terrazzo floors	2	2	2	4	3	3	2	1	1	4	5	\$ 130,000.00	FC
Middle School	Replace VCT	2	2	2	4	3	3	2	1	1	4	5	\$ 197,600.00	FC
Lower Gwynedd	Replace corridor terrazzo tile	2	3	2	3	2	3	3	1	1	4	5	\$ 477,750.00	FC
Lower Gwynedd	Replace Multipurpose room floor	2	3	2	3	2	3	3	1	1	4	5	\$ 45,825.00	FC
Lower Gwynedd	Replace carpet in Music, Large Group, and Office	2	3	2	3	2	3	3	1	1	4	5	\$ 95,550.00	FC
High School	Replace floor finishes in "Audion"	2	2	2	3	2	4	3	1	2	4	5	\$ 10,796.50	FC
High School	Replace flooring in main auditorium (not stage)	3	2	2	3	2	3	3	1	1	3	5	\$ 188,812.00	FC
High School	Replace Library carpet	2	2	2	4	3	3	2	1	1	3	5	\$ 183,118.00	FC
Mattison Ave.	Refinish Terrazzo floors	2	2	2	4	3	3	2	1	1	3	5	\$ 89,700.00	FC
Mattison Ave.	Replace all VCT flooring	2	2	2	4	3	3	2	1	1	3	5	\$ 114,088.00	FC
Mattison Ave.	Replace Library and Office carpet	2	2	2	4	3	3	2	1	1	3	5	\$ 72,800.00	FC
Lower Gwynedd	Replace carpet in classrooms with VCT	2	2	2	4	3	3	2	1	1	3	5	\$ 153,562.50	FC
High School	Replace Non Terrazzo flooring in corridors and stairs	2	2	2	3	3	3	2	1	1	4	5	\$ 648,180.00	FC
Middle School	Replace Quarry Tile floor in kitchen	2	2	2	3	3	3	2	1	1	4	5	\$ 48,620.00	FC
High School	Polish existing Terrazzo flooring	2	2	2	4	2	3	2	1	1	3	5	\$ 224,900.00	FC
High School	Replace VCT in Preschool and Family Consumer Science	2	2	2	4	2	3	2	1	1	3	5	\$ 24,700.00	FC
High School	Refinish main stage floor	2	2	2	3	2	3	2	1	1	3	4	\$ 24,570.00	FC
Blue Bell	Replace Gymnasium stage floor	2	2	2	2	2	3	3	1	1	4	4	\$ 4,992.00	FC



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SCHOOL	ITEM	SA	CV	EI	NP	PC	DE	CI	LEI	ESI	LE	PRIORITY	2011 Estimated Cost Including 30% Indirect Costs	Category
Blue Bell	Replace Library carpet and main office carpet	2	2	2	1	2	3	3	1	1	3	4	\$ 28,762.50	FC
Bus Garage	Replace VCT	2	1	1	1	2	3	1	1	1	3	3	\$ 7,800.00	FC
												Total	\$ 6,444,098.70	
Stony Creek	Repaint CMU walls	2	3	3	4	3	3	3	1	1	4	6	\$ 120,900.00	FIN
Stony Creek	Repaint door frames	2	3	3	4	3	3	3	1	1	4	6	\$ 58,500.00	FIN
Shady Grove	Paint all Drywall Finishes and CMU walls	2	3	2	4	3	3	3	1	1	4	5	\$ 198,900.00	FIN
Shady Grove	Replace vinyl wall covering in lower floor suite	2	3	2	4	3	3	3	1	1	4	5	\$ 26,000.00	FIN
Shady Grove	Repaint all door frames	2	3	2	4	3	3	3	1	1	4	5	\$ 198,900.00	FIN
Blue Bell	Replace delaminating wood panels and glass in main hall	2	2	3	3	3	3	3	2	1	4	5	\$ 2,652.00	FIN
High School	Replace Ceramic Wall tile in 1961 Building	2	2	2	4	3	4	2	1	1	3	5	\$ 899,600.00	FIN
Blue Bell	Paint all Drywall and CMU walls, fascia and soffits	2	2	2	4	3	3	3	1	1	3	5	\$ 118,950.00	FIN
Blue Bell	Repaint all interior door frames	2	2	2	4	3	3	3	1	1	3	5	\$ 59,475.00	FIN
Lower Gwynedd	Repaint CMU walls	2	3	2	3	2	3	3	1	1	4	5	\$ 159,900.00	FIN
Lower Gwynedd	Repaint door frames	2	3	2	3	2	3	3	1	1	4	5	\$ 79,950.00	FIN
Mattison Ave.	Repaint all CMU walls	2	2	2	4	3	3	2	1	1	3	5	\$ 54,600.00	FIN
Lower Gwynedd	Paint steel lintels at doors & windows.	2	2	2	4	3	3	2	1	1	3	5	\$ 4,225.00	FIN
High School	Repaint all cmu walls	2	2	2	4	2	3	2	1	1	3	5	\$ 514,800.00	FIN
High School	Repaint all gypsum board walls, Fascia, & soffits	2	2	2	4	2	3	2	1	1	3	5	\$ 146,250.00	FIN
Middle School	Repaint all cmu walls	2	2	2	4	2	3	2	1	1	3	5	\$ 348,075.00	FIN
Middle School	Repaint office and guidance	2	2	2	4	2	3	2	1	1	3	5	\$ 6,825.00	FIN
Blue Bell	Repair and paint main entrance canopy columns. Rust appearing.	2	2	2	4	2	3	2	1	1	3	5	\$ 936.00	FIN
Shady Grove	Refinish rusted steel lintels at curtain wall windows, doors as well as exposed columns.	2	2	2	2	3	3	2	1	1	4	4	\$ 7,150.00	FIN
High School	Repaint southwest corner upper level screen wall structural steel, surfaces are rusting.	2	2	2	3	2	3	2	1	1	3	4	\$ 4,290.00	FIN



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SCHOOL	ITEM	SA	CV	EI	NP	PC	DE	CI	LEI	ESI	LE	PRIORITY	2011 Estimated Cost Including 30% Indirect Costs	Category
Middle School	Repaint door frames	2	2	2	3	2	3	2	1	1	3	4	\$ 306,150.00	FIN
Shady Grove	Refinish rusted steel lintels at recessed angled windows located at south end of building. Remove cracked mortar joint at ends of lintels and caulk joint.	2	2	2	1	3	3	2	1	1	4	4	\$ 2,730.00	FIN
High School	Repaint all exposed structural steel columns.	2	2	2	2	2	3	2	1	1	3	4	\$ 1,735.50	FIN
Central Office	Repaint CMU walls in Receiving	2	1	1	1	2	3	1	1	1	3	3	\$ 9,750.00	FIN
Central Office	Repaint door frames	2	1	1	1	2	3	1	1	1	3	3	\$ 29,250.00	FIN
Bus Garage	Repaint CMU walls	2	1	1	1	2	3	1	1	1	3	3	\$ 17,550.00	FIN
												<b>Total</b>	<b>\$ 3,378,043.50</b>	
High School	Replace two grease traps	3	4	4	5	4	3	4	4	2	4	8	\$ 70,200.00	FS
Blue Bell	Replace kitchen equipment	3	4	4	4	4	4	4	3	4	4	8	\$ 650,000.00	FS
Shady Grove	Replace all kitchen equipment, dishwasher in poor condition, ice maker is broken, line equipment is original to building	2	3	4	4	4	4	3	4	4	4	7	\$ 650,000.00	FS
Middle School	Replace all kitchen equipment	3	3	3	4	4	4	3	3	3	4	7	\$ 715,000.00	FS
Mattison Ave.	Replace Food Service Equipment, dishwasher is not operational	3	3	4	3	4	4	3	3	2	4	7	\$ 422,500.00	FS
High School	Replace F&CS equipment	3	4	3	4	3	3	3	3	2	4	7	\$ 1,170,000.00	FS
Stony Creek	Replace Kitchen Equipment	3	2	2	4	3	3	3	3	4	4	6	\$ 650,000.00	FS
Stony Creek	Provide sprinkler system	3	2	2	4	3	3	3	3	4	3	6	\$ 234,000.00	FS
High School	Replace Kitchen Equipment	3	2	2	4	3	3	3	2	2	3	5	\$ 1,300,000.00	FS
Middle School	Replace grease trap	2	2	2	4	3	3	2	1	1	4	5	\$ 32,500.00	FS
Lower Gwynedd	Replace kitchen equipment	2	2	2	2	3	3	3	1	1	1	4	\$ 455,000.00	FS
												<b>Total</b>	<b>\$ 6,349,200.00</b>	
High School	Replace fitness equipment, update space	3	4	3	5	3	4	4	1	2	4	7	\$ 195,000.00	GE
Middle School	Replace natatorium equipment & piping	3	3	3	4	3	4	4	3	3	4	7	\$ 260,000.00	GE
Middle School	Renovate natatorium	3	3	3	4	3	4	4	3	3	4	7	\$ 1,820,000.00	GE

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SCHOOL	ITEM	SA	CV	EI	NP	PC	DE	CI	LEI	ESI	LE	PRIORITY	2011 Estimated Cost Including 30% Indirect Costs	Category
Middle School	Replace Gymnasium divider curtains	2	4	4	4	3	3	3	1	1	4	6	\$ 247,000.00	GE
Mattison Ave.	Replace Multi-Purpose Room equipment	3	3	3	3	3	3	3	1	1	4	6	\$ 78,000.00	GE
Lower Gwynedd	Replace folding partition in Multi-Purpose room	2	2	1	4	2	3	3	1	1	4	4	\$ 5,200.00	GE
Middle School	Provide end panels for bleachers in gymnasium	2	1	1	3	2	3	2	1	1	4	4	\$ 9,360.00	GE
												<b>Total</b>	<b>\$ 2,614,560.00</b>	
High School	Renovate stairs in "1974" wing, treads, guard/hand rails not ADA compliant. Eliminate "pass-thru" feature Not to Code, Corridor wall not code compliant, sound block not code compliant.	3	3	4	5	5	4	4	4	2	4	8	\$ 268,840.00	HC
High School	Replace guard/hand rails in round Gymnasium, not ADA compliant	3	3	3	5	4	3	4	1	3	4	7	\$ 49,335.00	HC
Middle School	Main entrance not ADA compliant. Infill stairs and provide ramp outside building	3	3	3	4	4	4	4	2	2	4	7	\$ 117,000.00	HC
Shady Grove	Provide elevator to lower level classrooms ( converted Locker Room)	3	3	4	3	4	4	3	2	2	4	7	\$ 156,000.00	HC
Shady Grove	Provide elevator to lower level (main building & addition)	3	3	4	3	4	4	3	2	2	4	7	\$ 156,000.00	HC
Stony Creek	Install chairlift from rear of stage to Corridor for Handicap Access to stage	3	3	3	4	3	4	4	2	1	5	6	\$ 20,800.00	HC
Stony Creek	Provide chairlift for stage in "new" Gymnasium. Not ADA compliant	3	3	3	4	3	4	4	2	1	5	6	\$ 20,800.00	HC
Middle School	Install new ADA compliant elevator. Medical Gurney will not fit in existing elevator	3	3	3	4	3	4	3	2	2	4	6	\$ 130,000.00	HC
Middle School	Stairs leading down to track & football field do not have ADA compliant handrails. (2 sets of stairs)	3	3	3	4	4	3	4	1	1	4	6	\$ 26,000.00	HC
Middle School	There is no ADA access ramp from building level down to running track & football field.	3	3	3	4	4	3	4	1	1	4	6	\$ 28,600.00	HC
Middle School	Provide steps & ADA compliant ramp leading down to cross-over bridge accessing back playing field.	3	3	3	4	4	3	4	1	1	4	6	\$ 71,500.00	HC
Shady Grove	Replace ramp at main entrance, including guard/hand rails. Not ADA compliant (approx. 50 linear feet)	2	3	3	3	5	4	4	2	2	4	6	\$ 7,800.00	HC
Shady Grove	Replace hand/guard rail at "main entrance" stair, not ADA compliant	3	2	3	4	4	3	4	2	1	4	6	\$ 3,900.00	HC
High School	Replace guard/hand rails in main auditorium	3	3	3	4	4	3	3	1	1	3	6	\$ 14,625.00	HC
Mattison Ave.	Install elevator to provide ADA access to second floor	3	3	3	3	4	4	3	1	1	4	6	\$ 130,000.00	HC
High School	Install safety railing around stairs leading to low level mechanical room.	4	2	2	4	4	3	3	2	1	3	6	\$ 6,825.00	HC
High School	Install new ADA compliant handrails @ exit stairs around building. Several locations have no handrails at all.	3	2	2	5	4	4	3	1	1	3	6	\$ 45,500.00	HC

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SCHOOL	ITEM	SA	CV	EI	NP	PC	DE	CI	LEI	ESI	LE	PRIORITY	2011 Estimated Cost Including 30% Indirect Costs	Category
Shady Grove	Install ADA ramps at drop-off drive loop.	3	2	3	4	3	3	3	2	1	4	6	\$ 16,380.00	HC
Middle School	Provide ADA access to Natatorium	2	3	3	3	4	3	4	1	1	4	6	\$ 32,500.00	HC
Mattison Ave.	Install a chair lift to stage for ADA compliance	2	3	3	3	4	4	3	1	1	4	6	\$ 26,000.00	HC
High School	Install safety railing and handrail on stairs leading down to lower level of chiller area. Also at adjacent loading dock stairs.	3	2	2	4	3	3	3	2	2	4	6	\$ 1,072.50	HC
Blue Bell	Provide handicapped accessible playground equipment	2	4	2	2	3	3	4	2	2	4	5	\$ 26,000.00	HC
High School	Install ADA compliant railings/handrails. Also install ADA ramp access.	3	2	2	4	3	3	3	2	2	3	5	\$ 45,500.00	HC
Middle School	Install ADA indicators at all existing exterior ADA ramps.	3	2	2	4	3	3	2	1	1	4	5	\$ 4,225.00	HC
High School	Provide ramp in front corridor for ADA access from main entrance to "old" gymnasium	3	2	2	4	2	3	4	1	1	3	5	\$ 13,000.00	HC
Middle School	Provide ADA access to spectators area in Natatorium	2	2	2	3	4	3	4	1	1	4	5	\$ 39,000.00	HC
High School	Provide wheelchair seating with companion seating in main auditorium	3	2	2	3	2	3	3	1	1	3	5	\$ 19,500.00	HC
												<b>Total</b>	<b>\$ 1,476,702.50</b>	
High School	Replace chillers (3) at the end of their useful life expectancy. Provide (2) water cooled chillers	3	5	5	5	4	4	4	5	3	4	9	\$ 1,820,000.00	HVAC
Stony Creek	Consider replacement of the existing unit ventilators to eliminate excessive noise issues.	3	4	4	4	5	5	4	4	5	4	8	\$ 1,950,000.00	HVAC
Stony Creek	Replace air handling units in the Multi-Purpose Room to eliminate excessive noise issues.	3	4	4	4	4	4	3	3	4	4	7	\$ 182,000.00	HVAC
Stony Creek	Replace/install mechanical equipment in gymnasium on top of roof, including modifying ductwork below.	3	4	4	4	4	4	3	3	2	4	7	\$ 156,000.00	HVAC
Shady Grove	Replace existing air cooled chillers	3	3	4	4	4	4	3	3	3	4	7	\$ 279,500.00	HVAC
Middle School	Replace existing oil tank monitoring system	4	3	3	4	4	3	3	3	3	4	7	\$ 9,360.00	HVAC
Lower Gwynedd	Provide new 10,000 gal. underground fuel oil tank and abandon existing piping between the district office and the school	3	3	4	4	4	4	3	3	2	4	7	\$ 52,000.00	HVAC
Blue Bell	The existing underground fuel oil tank is double wall steel, installed in 1989. Consider replacement of the tank or at a minimum have the tank tested to verify there are no leaks. Provide a new leak detection system.	3	2	4	4	4	3	4	3	4	4	7	\$ 75,400.00	HVAC
Shady Grove	Replace existing boilers.	3	2	4	4	3	4	3	3	4	4	7	\$ 208,000.00	HVAC
Middle School	Replace existing heating and ventilating units in Gymnasium Locker Rooms	3	3	3	4	4	3	3	3	3	4	7	\$ 104,000.00	HVAC
Middle School	Replace existing heating and ventilating units in Pool Locker Rooms	3	3	3	4	4	3	3	3	3	4	7	\$ 104,000.00	HVAC



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SCHOOL	ITEM	SA	CV	EI	NP	PC	DE	CJ	LEI	ESI	LE	PRIORITY	2011 Estimated Cost Including 30% Indirect Costs	Category
High School	Add carbon dioxide sensors to provide demand control ventilation for 2 units in the Gymnasium	4	3	3	5	4	3	3	1	1	3	7	\$ 7,800.00	HVAC
Stony Creek	Replace underground fiberglass oil tank (1988)	3	2	4	4	4	3	3	3	2	4	6	\$ 65,000.00	HVAC
Shady Grove	Add carbon dioxide sensors to provide demand control ventilation on 3 air handling units	4	2	4	4	4	3	3	1	1	4	6	\$ 11,700.00	HVAC
Mattison Ave.	Existing toilet exhaust systems are inadequate. Consider replacement of the ducts and fans to provide air flows to meet current code requirements.	3	3	3	3	4	4	3	3	2	4	6	\$ 13,650.00	HVAC
Mattison Ave.	Add carbon dioxide sensors to provide demand control ventilation on 2 air handling units	3	3	3	5	4	3	3	1	1	3	6	\$ 7,800.00	HVAC
Stony Creek	Add carbon dioxide sensors to provide demand control ventilation on 5 air handling units	3	3	3	4	3	3	4	2	1	4	6	\$ 19,500.00	HVAC
Blue Bell	Add carbon dioxide sensors to provide demand control ventilation on 5 air handling units	3	2	4	4	4	3	3	1	1	4	6	\$ 19,500.00	HVAC
Shady Grove	Replace all existing rooftop air handling units. Install new ductwork and VAV system.	3	2	4	4	4	3	3	1	1	4	6	\$ 3,770,000.00	HVAC
High School	Replace/upgrade the existing monitoring system on both underground oil tanks.	3	2	2	4	4	3	2	2	2	4	6	\$ 19,500.00	HVAC
Lower Gwynedd	Add carbon dioxide sensors to provide demand control ventilation on 2 air handling units	3	3	3	4	3	1	2	1	1	3	5	\$ 15,600.00	HVAC
Lower Gwynedd	Relocate vent at the existing main gas service entrance.	3	2	2	3	4	4	2	1	1	4	5	\$ 4,550.00	HVAC
Blue Bell	Consider upgrading the acoustical treatment on the roof mounter air-cooled chiller if ambient noise is an issue.	2	3	2	4	2	3	3	1	1	4	5	\$ 19,500.00	HVAC
Lower Gwynedd	Consider adding a leaving air temperature reset schedule to the air handling system serving the Main Office to correct over cooling issue during the summer.	2	3	2	4	2	3	2	2	1	3	5	\$ 5,200.00	HVAC
Lower Gwynedd	Consider adding supplimnetal heat in the Lobby area.	2	3	2	4	2	3	2	2	1	3	5	\$ 9,100.00	HVAC
Shady Grove	Wrap roof-top duct at AHU's to prevent roof leaks	2	3	3	2	3	3	2	1	1	3	5	\$ 71,500.00	HVAC
Blue Bell	Replace roof top exhaust vents	3	2	2	2	3	3	2	2	1	4	5	\$ 19,500.00	HVAC
Blue Bell	Provide HVAC system testing, adjusting, & balancing services including review of heating & cooling loads	2	2	2	4	3	3	1	2	1	3	5	\$ 13,000.00	HVAC
High School	Replace fan-coil units located in classrooms	2	2	3	4	1	4	2	1	1	2	5	\$ 2,016,300.00	HVAC
Shady Grove	Replace underground oil tank	2	2	2	3	3	3	2	1	1	4	5	\$ 84,500.00	HVAC
Shady Grove	Replace acoustic wall system in Music/Band Rooms	2	2	2	3	3	3	2	1	1	3	4	\$ 65,000.00	HVAC
Lower Gwynedd	Consider replacing existing unit ventilators with a vertical Airedale unit and add ducted distribution system to address unit ventilator noise issue.	2	3	3	2	1	4	2	1	1	2	4	\$ 1,092,000.00	HVAC

**WISSAHICKON SCHOOL DISTRICT  
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SCHOOL	ITEM	SA	CV	EI	NP	PC	DE	CI	LEI	ESI	LE	PRIORITY	2011 Estimated Cost Including 30% Indirect Costs	Category
Bus Garage	Replace HVAC system with new gas fired rooftop unit (eliminate boiler & piping), replace exhaust systems.	2	1	1	2	5	5	1	1	1	5	4	\$ 325,000.00	HVAC
Bus Garage	Replace existing rooftop heating/cooling unit and add additional areas to the system.	3	1	1	2	4	4	1	1	1	4	4	\$ 52,000.00	HVAC
Blue Bell	Install ventilation system in crawl space	3	1	1	1	3	3	1	1	1	4	4	\$ 19,500.00	HVAC
Bus Garage	Revise bus heater distribution to provide GF protection.	3	1	1	1	3	3	1	1	1	4	4	\$ 6,500.00	HVAC
Blue Bell	Remove unused steam piping in crawl space	2	1	1	1	3	3	1	1	1	5	3	\$ 15,600.00	HVAC
Central Office	Install ventilation in crawl space.	2	1	1	1	3	4	1	1	1	4	3	\$ 19,500.00	HVAC
Central Office	Remediate excessive HVAC noise by installing acoustic treatment above acoustic ceilings	2	1	1	1	3	3	1	1	1	4	3	\$ 15,600.00	HVAC
Central Office	Provide HVAC system testing, adjusting, & balancing services including review of heating & cooling loads	2	1	1	1	3	3	1	1	1	3	3	\$ 12,350.00	HVAC
												Total	\$ 12,756,510.00	
Blue Bell	Replace Classroom (wood & glass) Corridor wall with HM frame and tempered glass	3	4	4	4	3	3	3	2	2	5	7	\$ 11,700.00	ID
High School	Provide new keying system for building, to match District-wide system	3	3	3	4	5	3	5	1	2	3	7	\$ 209,820.00	ID
Shady Grove	Replace keying system to match District-wide system	3	3	3	4	5	3	5	1	2	3	7	\$ 68,250.00	ID
Mattison Ave.	Provide new keying system - to match District-wide system	3	3	3	4	5	3	5	1	2	3	7	\$ 31,200.00	ID
Lower Gwynedd	Replace building keying system to match District-wide system	3	3	3	4	5	3	5	1	2	3	7	\$ 72,150.00	ID
Blue Bell	Replace Classroom doors, provide tempered glass	3	3	3	4	3	3	3	3	2	4	6	\$ 63,180.00	ID
Blue Bell	Install new keying system - match District-wide system	3	3	3	4	3	3	3	2	2	4	6	\$ 54,600.00	ID
Stony Creek	Replace classroom doors (w/ wire glass).	3	3	3	4	3	4	3	2	1	4	6	\$ 44,460.00	ID
High School	Refinish classroom doors, replace hardware	2	4	3	5	3	3	3	1	1	3	6	\$ 341,250.00	ID
Mattison Ave.	Provide door at Main entrance to create a secure entrance to bldg.	3	2	3	3	4	3	3	1	1	4	6	\$ 10,400.00	ID
Middle School	Replace classroom doors and hardware, close side light louvers	3	3	2	4	3	3	2	1	1	4	5	\$ 102,960.00	ID
Blue Bell	Replace corridor door hold opens	3	2	2	4	3	3	2	2	2	4	5	\$ 9,360.00	ID
Stony Creek	Replace double doors (2) 2'-6" doors with ADA compliant doors	2	2	3	4	3	3	3	1	1	3	5	\$ 31,200.00	ID
Blue Bell	Replace all doors	2	2	2	4	3	3	3	2	1	4	5	\$ 416,000.00	ID

**WISSAHICKON SCHOOL DISTRICT  
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SCHOOL	ITEM	SA	CV	EI	NP	PC	DE	CI	LEI	ESI	LE	PRIORITY	2011 Estimated Cost Including 30% Indirect Costs	Category
Middle School	Replace interior stair doors with 3'-0"/2'-0" doors. Not ADA compliant	2	2	2	4	3	2	2	1	1	4	5	\$ 56,160.00	ID
Middle School	Replace interior doors in Athletic wing, provide panic hardware	2	2	2	4	3	2	2	1	1	4	5	\$ 124,800.00	ID
High School	Replace Music and Band room doors	2	2	2	3	3	3	2	1	1	3	4	\$ 32,760.00	ID
Stony Creek	Replace Main Office interior windows with HM frames and tempered glass for safety. Include door.	2	2	2	1	2	3	2	1	1	4	4	\$ 16,900.00	ID
												<b>Total</b>	<b>\$ 1,697,150.00</b>	
Shady Grove	Provide additional emergency lighting as required to meet code minimum values.	3	3	4	4	4	4	3	3	2	4	7	\$ 130,000.00	IL
High School	Add Occupancy Sensors in classrooms, offices and other code locations to save energy.	3	3	3	5	3	3	2	3	4	3	7	\$ 227,500.00	IL
Stony Creek	Replace lighting in gymnasium, multi-purpose room and kitchen to provide adequate light, more energy efficiency and to remove unsupported T12 lamps.	3	3	3	5	3	3	2	3	4	3	7	\$ 97,500.00	IL
High School	Replace lighting in gymnasium to provide better lighting for television and more energy efficiency.	2	3	3	5	3	3	3	3	3	4	6	\$ 117,000.00	IL
Middle School	Replace lighting in gymnasiums and pool to provide better lighting and more energy efficiency.	2	3	3	4	3	3	3	3	3	4	6	\$ 143,000.00	IL
High School	Add UL924 listed relay system to control emergency lights	2	3	2	5	3	3	2	3	4	3	6	\$ 45,500.00	IL
Lower Gwynedd	Replace lighting in gymnasium to provide better lighting and more energy efficiency.	2	3	3	4	3	3	3	3	2	3	6	\$ 39,000.00	IL
Middle School	Provide a dimming system in the TV studio for light fixtures.	2	3	3	4	3	3	2	1	1	4	5	\$ 19,500.00	IL
Mattison Ave.	Replace lighting in kitchen.	3	2	2	4	3	4	2	1	1	3	5	\$ 6,500.00	IL
												<b>Total</b>	<b>\$ 825,500.00</b>	
Shady Grove	Install guard rail at exit door steps along north elevation near boiler room and along long ramp wall.	3	3	4	5	5	4	5	2	1	4	7	\$ 14,625.00	L
Stony Creek	Install fencing w/ gate across basketball court playground to separate driveway from children's play area.	4	4	3	4	5	3	4	1	1	4	7	\$ 8,580.00	L
High School	Install security fencing around high voltage transformers adjacent to tennis courts.	5	2	2	4	5	3	3	2	2	3	6	\$ 4,875.00	L
Lower Gwynedd	Install fence along end of playground area along access drive.	3	3	3	4	5	4	3	1	1	4	6	\$ 7,312.50	L
Shady Grove	Supplement chain link fence at areaway guard rail, lower section is open	4	2	2	4	5	3	3	1	1	4	6	\$ 2,912.00	L
Blue Bell	Regrade soil along sidewalks behind school to correct potential tripping hazard. (Between building & bus garage)	3	3	3	4	3	3	3	1	1	4	6	\$ 58,500.00	L
High School	Renovate 2-story locker rooms. Make ADA accessible	3	3	2	4	4	4	3	1	1	3	6	\$ 643,500.00	L



**WISSAHICKON SCHOOL DISTRICT  
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SCHOOL	ITEM	SA	CV	EI	NP	PC	DE	CI	LEI	ESI	LE	PRIORITY	2011 Estimated Cost Including 30% Indirect Costs	Category
Blue Bell	Regrade around building to achieve positive drainage away from Guidance and Nurse Suite section of building.	2	3	3	4	3	3	3	1	1	5	6	\$ 15,210.00	L
Lower Gwynedd	Correct grading along edges of concrete sidewalks, tripping hazard.	3	3	3	3	4	3	3	1	1	3	6	\$ 130,000.00	L
Stony Creek	Replace rusted fencing around kindergarten playground.	2	3	3	3	3	4	3	2	1	4	6	\$ 29,250.00	L
High School	Grade/fill with soil along building edge of main canopy sidewalk - tripping hazard.	3	3	2	4	4	3	2	1	1	3	6	\$ 15,600.00	L
Mattison Ave.	Replace lawn area at playground with rubber protective play surfacing.	3	3	2	3	4	3	3	1	1	4	6	\$ 135,200.00	L
Blue Bell	Replace chain link fence along route 73	3	2	2	4	4	3	3	1	1	4	5	\$ 32,500.00	L
Lower Gwynedd	Regrade around perimeter of building at foundation, existing grade pitches back towards building.	2	3	3	3	4	3	3	1	1	3	5	\$ 78,000.00	L
High School	Allowance to provide landscaping around building	2	3	2	4	3	3	3	1	1	4	5	\$ 260,000.00	L
Middle School	Regrade along sidewalks - tripping hazard.	3	2	2	4	3	3	2	1	1	4	5	\$ 62,400.00	L
Middle School	Provide additional site directional signage	3	2	2	3	3	3	3	1	1	4	5	\$ 3,250.00	L
Mattison Ave.	Install fence or bush barrier around small detention basin adjacent to garden courtyard area.	3	2	2	3	3	3	2	1	1	4	5	\$ 6,500.00	L
High School	Provide additional site directional signage	3	2	1	4	3	3	3	1	1	3	5	\$ 4,550.00	L
Middle School	Repair grass areas in high traffic areas around building.	2	2	2	4	3	3	2	1	1	4	5	\$ 13,000.00	L
Shady Grove	Provide additional directional site signage	3	2	2	3	2	3	3	1	1	4	5	\$ 2,600.00	L
Lower Gwynedd	Replace 8'-0" gate to generator with solid panel gate to eliminate ladder affect	4	1	1	4	3	3	2	1	1	4	5	\$ 3,250.00	L
Lower Gwynedd	Add additional directional signage to direct parents to proper drop-off drive.	2	2	2	4	3	3	2	1	1	3	5	\$ 2,600.00	L
Stony Creek	Remove grass beneath windows and Unit vents and provide landscape stones	2	2	2	3	2	3	2	1	1	5	5	\$ 29,250.00	L
Bus Garage	Replace perimeter fence and gates with new 10' high chain link fence with slide gates and card readers for access to lot.	3	1	1	2	4	4	1	1	1	4	4	\$ 71,500.00	L
Mattison Ave.	Allowance for Landscaping around building	2	2	2	3	2	3	2	1	1	2	4	\$ 39,000.00	L
												Total	\$ 1,673,964.50	
Middle School	Renovate locker rooms & showers for Gymnasiums and Natatorium. In poor condition and not ADA compliant	3	3	3	4	4	4	4	3	2	4	7	\$ 239,200.00	LR
												Total	\$ 239,200.00	

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SCHOOL	ITEM	SA	CV	EI	NP	PC	DE	CI	LEI	ESI	LE	PRIORITY	2011 Estimated Cost Including 30% Indirect Costs	Category
Stony Creek	Repair control joints in Cafeteria wall (Day light through joints)	2	3	4	4	5	4	4	4	4	5	7	\$ 3,120.00	M
High School	Repair coping at main entrance. Damage due to water infiltration	3	4	3	3	4	4	3	3	1	5	7	\$ 9,100.00	M
Lower Gwynedd	Install fire caulk at of above ceiling fire wall penetrations. Allowance for 100 penetrations.	4	2	4	4	5	3	2	1	1	4	6	\$ 1,300.00	M
Shady Grove	Investigate & repair exterior foundation wall leak at "main entrance" stair	3	2	4	4	4	4	2	2	1	4	6	\$ 78,000.00	M
Mattison Ave.	Construct 3' high retaining wall along edge of upper basketball court (146 lf long including stairs near end) Install 6' high fence on top Upper playground area has area along edge with standing water from underground spring/source. Rework area to eliminate wet areas and divert water to storm inlets.	3	3	3	3	4	4	3	1	1	4	6	\$ 78,000.00	M
Shady Grove	Visible evidence of settlement at NE corner of building @ ramp to loading dock. Repair/rebuild masonry at corner.	3	2	3	4	3	3	3	2	1	4	6	\$ 6,240.00	M
Mattison Ave.	Caulk cracked concrete window sills along Rosemary & Poplar Streets.	3	3	2	3	4	3	3	1	1	4	6	\$ 1,300.00	M
Blue Bell	Rebuild parged half wall and set slate capstones at Kindergarten courtyard.	2	3	2	3	3	3	3	1	1	4	5	\$ 6,240.00	M
Shady Grove	Remove and reinstall rising wall flashing at Gymnasium & stage to include thru-wall weep holes.	2	2	3	3	3	3	2	1	1	4	5	\$ 9,750.00	M
Shady Grove	Recaulk all exterior windows, door frames, masonry expansion joints and room unit vent grills/louvers.	2	2	3	3	3	3	2	1	1	4	5	\$ 132,600.00	M
Middle School	Repoint masonry and repair brick around building, signs of joint cracking and erosion.	2	2	2	4	3	3	2	1	1	4	5	\$ 567,515.00	M
Lower Gwynedd	Repoint high brick masonry retaining wall & capstone by loading dock, no evidence of thru-wall flashing or weep holes anywhere. Repair/reinforce vertical full-height crack (approx. 18" from end).	2	3	2	3	2	3	3	1	1	4	5	\$ 1,625.00	M
Lower Gwynedd	Repoint brick masonry screen wall at soccer field (adjacent to loading dock area, enclosing emergency generator, electrical transformer and chiller unit) joints show signs of erosion.	2	3	2	3	2	3	3	1	1	4	5	\$ 8,222.50	M
Lower Gwynedd	Recaulk all exterior windows, doors, expansion joints, louvers, vents and flashing.	2	2	2	4	3	3	2	1	1	3	5	\$ 106,600.00	M
High School	Repair/repoint brick/masonry, recaulk control joints.	2	2	2	3	3	3	2	2	1	3	5	\$ 771,387.50	M
Middle School	Wing side walls at door D1 stairs need to be rebuilt.	2	2	2	3	3	3	2	1	1	4	5	\$ 5,070.00	M
Blue Bell	Refinish rusted louver and window lintels.	2	2	2	3	3	3	2	1	1	4	5	\$ 8,320.00	M
Mattison Ave.	Repair brick façade along south face of building - pushing out. Remove three brick c. install new thru-wall flashing, repair and paint lintel, reinstall brick	2	2	2	3	3	3	2	1	1	4	5	\$ 3,835.00	M
Mattison Ave.	Repair cracks in mortar joints and replace cracked bricks in chimney. Reinforce wall areas as necessary during repointing.	2	2	2	3	3	3	2	1	1	4	5	\$ 7,280.00	M

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SCHOOL	ITEM	SA	CV	EI	NP	PC	DE	CI	LEI	ESI	LE	PRIORITY	2011 Estimated Cost Including 30% Indirect Costs	Category
Mattison Ave.	Recaulk all exterior joints, including windows & door frames,	2	2	2	3	3	3	2	1	1	4	5	\$ 364,000.00	M
Stony Creek	Repair cracked/spalled brick chimney.	2	2	1	3	3	3	2	2	2	4	5	\$ 1,950.00	M
High School	Seal exposed cold joint in concrete sill below exterior curtain wall windows.	2	2	2	3	3	3	2	1	1	3	4	\$ 8,450.00	M
Blue Bell	Repair damaged and cracked brick/masonry	2	2	2	3	2	3	2	1	1	4	4	\$ 16,250.00	M
Stony Creek	Recaulk all exterior window and door frames on new addition.	2	2	1	3	3	3	2	2	2	3	4	\$ 11,050.00	M
Middle School	Masonry screen wall at loading dock (adjacent to ADA parking) needs to be completely rebuilt. There is no thru-wall flashing or weeps, wall has extensive structural damage due to water infiltration.	2	2	2	2	3	3	2	1	1	4	4	\$ 39,000.00	M
Shady Grove	Repair brick joints and cracks, repair caulk joints	2	2	2	2	3	3	2	1	1	4	4	\$ 48,750.00	M
Stony Creek	Repair cracks in bricks around building.	2	2	2	2	3	3	2	1	1	4	4	\$ 39,000.00	M
Middle School	Caulk vertical expansion joints and around window frames.	2	2	2	2	2	3	2	1	1	4	4	\$ 47,320.00	M
Middle School	Recaulk rising metal wall flashing joints (bottom of vert. metal panels).	2	2	2	2	2	3	2	1	1	4	4	\$ 23,660.00	M
Blue Bell	Repair masonry pointing on chimney, including replacement of broken bricks	2	2	2	1	3	3	2	1	1	4	4	\$ 1,300.00	M
Lower Gwynedd	Repair exterior wall of toilet room to eliminate freezing pipe condition	3	1	1	3	2	3	2	1	1	4	4	\$ 3,900.00	M
Bus Garage	Remove existing stone coping and install new thru-wall flashing & metal coping along north elevation adjacent to School Lane.	2	1	1	1	3	3	1	1	1	4	3	\$ 6,864.00	M
Bus Garage	Rework pointing/caulk joint above segmented thru-wall flashing receiver on all rising walls.	2	1	1	1	3	3	1	1	1	4	3	\$ 2,600.00	M
Bus Garage	Caulk all exterior masonry wall vertical control joints.	2	1	1	1	3	3	1	1	1	4	3	\$ 3,250.00	M
Bus Garage	Repair poorly installed (loose) coping metal on small low roof area.	2	1	1	1	3	3	1	1	1	4	3	\$ 5,304.00	M
Bus Garage	Cut out and repoint blown out mortar joint(s) along exterior wall adjacent to School Lane, damaged from water infiltration from leaking coping stone above.	2	1	1	1	3	3	1	1	1	4	3	\$ 3,250.00	M
Central Office	Caulk all exterior joints.	2	1	1	1	3	3	1	1	1	3	3	\$ 5,850.00	M
Central Office	Install cap on chimney.	2	1	1	1	2	3	1	1	1	4	3	\$ 1,950.00	M
												<b>Total</b>	<b>\$ 2,439,203.00</b>	
High School	Provide new heating boilers	3	3	5	5	5	5	3	5	4	4	8	\$ 702,000.00	P
High School	Investigate sanitary sewer system, replace damaged portions	3	3	5	5	4	5	3	3	2	5	8	\$ 102,050.00	P



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SCHOOL	ITEM	SA	CV	EI	NP	PC	DE	CI	LEI	ESI	LE	PRIORITY	2011 Estimated Cost Including 30% Indirect Costs	Category
High School	Install water softener	3	4	3	5	4	3	4	4	3	4	7	\$ 97,500.00	P
High School	Test domestic water for lead and sediment, replace piping	3	4	4	5	3	5	4	2	2	4	7	\$ 102,050.00	P
Blue Bell	The majority of the domestic water piping is original. Consider replacement especially if an area of the building is renovated.	3	3	4	4	4	4	3	3	2	4	7	\$ 19,500.00	P
Middle School	Replace existing boilers and provide a dedicated boiler for pool water heating	3	3	3	4	4	4	4	3	3	4	7	\$ 309,400.00	P
Middle School	Replace existing Domestic Water Heater located in the Boiler Room	3	3	3	4	4	3	3	3	3	4	7	\$ 58,500.00	P
Blue Bell	Test domestic water for lead & sediment - possibly replace piping	3	2	4	4	4	4	3	3	1	4	6	\$ 31,720.00	P
Shady Grove	Repair plumbing by Library. (leaks through to floor below)	3	3	3	4	5	4	2	2	1	4	6	\$ 10,400.00	P
High School	The existing domestic water heaters were installed in 1999. Replacement may be necessary in the next ten years. Consider replacement with high efficiency instantaneous type heaters.	3	3	4	5	3	3	2	1	1	3	6	\$ 325,000.00	P
Blue Bell	Investigate sanitary sewer system, replace damaged portions	3	2	4	4	4	4	3	1	1	4	6	\$ 31,720.00	P
Middle School	Install sprinklers in original building for complete coverage	3	3	2	4	4	4	3	2	2	4	6	\$ 709,800.00	P
Blue Bell	Provide hot water to classrooms and classroom toilet rooms	2	3	4	4	4	3	2	2	4	1	6	\$ 29,120.00	P
High School	Replace kitchen hood exhaust system in lower level cafeteria	3	3	3	4	3	3	2	1	1	4	6	\$ 39,000.00	P
Middle School	Test domestic water for lead & sediment - possibly replace piping	3	3	2	4	3	4	2	1	1	4	6	\$ 59,150.00	P
Middle School	Investigate sanitary sewer system, replace damaged portions	3	3	2	4	3	4	2	1	1	4	6	\$ 59,150.00	P
Middle School	Replace domestic water service	3	3	2	4	3	4	2	1	1	4	6	\$ 58,500.00	P
Blue Bell	Repair and/or modify existing domestic hot water return system to correct issue with the lack of hot water.	3	2	3	4	3	3	2	2	1	4	6	\$ 19,500.00	P
Blue Bell	Install new sprinkler system throughout building	3	2	3	4	3	3	2	2	1	4	6	\$ 237,900.00	P
Mattison Ave.	Replace plumbing fixtures in Classrooms	3	2	3	4	3	3	3	1	1	4	6	\$ 15,600.00	P
High School	Extend existing domestic hot water return piping where required.	2	3	3	4	3	3	2	1	1	4	5	\$ 32,500.00	P
High School	Replace electric water coolers	2	2	2	5	3	3	3	1	2	4	5	\$ 46,800.00	P
Shady Grove	Replace Classroom sinks & bubblers with ADA compliant sinks	2	3	2	4	3	3	3	1	1	4	5	\$ 70,200.00	P

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SCHOOL	ITEM	SA	CV	EI	NP	PC	DE	CI	LEI	ESI	LE	PRIORITY	2011 Estimated Cost Including 30% Indirect Costs	Category
Mattison Ave.	Replace electric water coolers	2	2	2	3	3	3	2	1	1	4	5	\$ 3,900.00	P
Middle School	Replace electric water coolers	2	1	2	4	2	3	2	1	1	4	4	\$ 9,360.00	P
Bus Garage	Replace existing gas fired domestic water heater	3	1	1	2	4	4	1	1	1	4	4	\$ 10,400.00	P
Central Office	Install sprinkler system.	3	1	1	1	4	5	1	1	1	5	4	\$ 35,100.00	P
Central Office	Replace domestic water service	3	1	1	1	4	5	1	1	1	5	4	\$ 26,000.00	P
Shady Grove	Provide hot water in faculty room	2	2	2	1	2	3	2	1	1	4	4	\$ 13,000.00	P
Bus Garage	Replace electric water coolers	2	1	1	2	3	3	1	1	1	4	4	\$ 2,340.00	P
Bus Garage	Upgrade Plumbing fixtures	2	1	1	1	3	3	1	1	1	4	3	\$ 20,800.00	P
												<b>Total</b>	<b>\$ 3,287,960.00</b>	
Stony Creek	Allowance to seal cracks in asphalt driveways and parking lots. Includes wearing course overlay.	2	3	3	5	4	3	3	3	1	5	6	\$ 637,000.00	PA
Blue Bell	Provide access drive between parent drop off loop and paved play area for additional visitor parking - install gate	3	3	2	4	4	3	5	1	2	4	6	\$ 16,380.00	PA
Shady Grove	Add ADA parking facilities close to building.	2	3	3	3	4	3	4	2	1	4	6	\$ 14,560.00	PA
Blue Bell	Allowance to seal cracks in asphalt paving and overlay new asphalt wearing course.	2	3	3	4	3	3	3	2	1	4	6	\$ 292,500.00	PA
Mattison Ave.	Upper playground area - pave area around perimeter of basketball court to outer fence.	3	3	2	3	4	3	3	1	1	4	6	\$ 21,125.00	PA
Middle School	Provide additional parking for faculty, staff, and visitors	2	2	2	3	5	3	4	2	2	4	5	\$ 39,000.00	PA
High School	Allowance for Asphalt paved drives and parking lots - Remove & replace	3	2	2	4	3	3	3	2	2	3	5	\$ 832,000.00	PA
High School	Allowance for Asphalt paved drives and parking lots - Seal cracks & overlay	3	2	2	4	3	3	3	2	2	3	5	\$ 1,300,000.00	PA
High School	Reconfigure receiving area. Access is difficult for deliveries and for District use	3	2	2	4	3	3	3	2	2	3	5	\$ 52,000.00	PA
Shady Grove	Allowance to seal cracks in asphalt drives and parking lots. Includes installation of overlay wearing course.	2	2	3	4	3	3	3	2	1	4	5	\$ 88,270.00	PA
Shady Grove	Apply sealer coating on asphalt paved playground area.	2	2	3	4	3	3	3	2	1	4	5	\$ 65,520.00	PA
Lower Gwynedd	Provide additional visitor parking at main entrance	3	2	2	4	3	3	3	1	1	4	5	\$ 12,480.00	PA
High School	Expand visitors and administrators parking along front of building. Provide adequate ADA parking	2	1	1	3	5	3	5	1	2	5	5	\$ 296,400.00	PA
Middle School	Allowance to seal cracks in asphalt paved drives and parking lots. Install overlay wearing course	2	2	2	4	3	3	2	1	1	4	5	\$ 433,875.00	PA

**WISSAHICKON SCHOOL DISTRICT  
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SCHOOL	ITEM	SA	CV	EI	NP	PC	DE	CI	LEI	ESI	LE	PRIORITY	2011 Estimated Cost Including 30% Indirect Costs	Category
Lower Gwynedd	Severe alligatored surface in back parking lot near loading dock. Could possibly overlay, but recommend complete removal and replacement.. Include access drive heading down hill towards Central Office building.	2	3	2	3	2	3	3	1	1	4	5	\$ 187,200.00	PA
Lower Gwynedd	Allowance to seal cracks in drives and parking lots. Includes wearing course overlay.	2	2	2	4	3	3	2	1	1	3	5	\$ 351,000.00	PA
Bus Garage	Seal cracks and overlay new asphalt wearing course over entire parking lot area.	2	1	1	2	3	3	1	1	1	4	4	\$ 643,500.00	PA
Central Office	Allowance to seal cracks & overlay drives and parking lot	2	1	1	1	3	3	1	1	1	4	3	\$ 351,000.00	PA
Central Office	Low spot at corner of parking lot at "in" drive. Possible add storm inlet and pipe towards basin.	2	1	1	1	3	3	1	1	1	4	3	\$ 32,500.00	PA
												<b>Total</b>	<b>\$ 5,666,310.00</b>	
High School	Provide lighting protection	2	4	3	5	5	4	2	4	4	5	7	\$ 233,330.24	R
High School	Repair areas of roof where blisters have developed. Correct areas where ponding occurs due to low pitch of roof.	2	4	3	5	4	4	4	3	2	4	7	\$ 787,527.00	R
High School	Round Gym Roof - Bottom perimeter trough - fills up with water, freezes and backs up under upper membrane. Add additional roof drains and overflow scuppers. Install heat wire to prevent freezing. Add additional layer/membrane coating in entire gutter up onto dome membrane.	2	4	4	4	4	4	3	3	2	4	7	\$ 70,200.00	R
Blue Bell	Replace roof on original portion of building - provide tapered insulation for proper drainage. Install additional roof drains. Remove and infill skylights	3	3	4	4	4	4	3	3	2	4	7	\$ 982,800.00	R
Shady Grove	Repair soffit below drop-off drive canopy/open area, soffit is coming loose/pulling away.	4	2	4	4	4	4	3	1	1	4	7	\$ 87,048.00	R
Stony Creek	Provide new roof-top guard rail at Library AHU	4	2	3	5	3	3	2	2	2	4	6	\$ 2,145.00	R
High School	Remove all skylights, patch roof to match existing adjacent surfaces	2	2	3	5	3	4	2	3	4	4	6	\$ 118,300.00	R
Stony Creek	Replace rusted safety rail adjacent to rooftop chiller.	3	2	3	5	3	3	2	2	2	4	6	\$ 2,925.00	R
High School	Repair small canopy's at cardio room exterior entrance, replace light fixtures	2	3	3	3	4	3	4	2	1	4	6	\$ 2,246.40	R
Shady Grove	Replace roof ladders, provide ladder with cage to Gymnasium roof	4	2	3	2	5	3	2	1	1	4	6	\$ 4,056.00	R
Shady Grove	Replace roof	2	2	3	4	3	3	2	2	4	4	6	\$ 1,502,800.00	R
Stony Creek	Replace/remove aluminum rooftop skylights (60) Raise to provide for proper flashing	2	2	3	5	3	3	2	2	2	4	6	\$ 50,700.00	R
Stony Creek	Reconfigure roof expansion joints on existing building. Build up height to create curb and install metal expansion joint cover.	2	2	3	5	3	3	2	2	2	4	6	\$ 16,835.00	R
Stony Creek	Replace roof drains on original building, including drain bowl, strainers and interior elbow fittings.	2	2	3	5	3	3	2	2	2	4	6	\$ 11,050.00	R



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SCHOOL	ITEM	SA	CV	EI	NP	PC	DE	CI	LEI	ESI	LE	PRIORITY	2011 Estimated Cost Including 30% Indirect Costs	Category
Stony Creek	Add overflow scupper drain to high cafeteria roof.	2	2	3	5	3	3	2	2	2	4	6	\$ 1,300.00	R
Blue Bell	Install lightning protection	2	2	3	4	3	3	3	3	1	4	6	\$ 62,400.00	R
Mattison Ave.	Install lightning protection	2	2	3	4	3	3	3	3	1	4	6	\$ 19,760.00	R
Shady Grove	Replace roof drains on original building, including drain bowl, strainers and interior elbow fittings.	3	2	3	4	3	3	2	1	1	4	5	\$ 10,400.00	R
Stony Creek	Replace roof on original building. Provide tapered insulation to provide for proper drainage	3	2	3	4	3	3	2	1	1	4	5	\$ 972,400.00	R
Shady Grove	Provide roof edge guards at AHU's 6, 7, and 8. Units within 10' of roof edge	4	2	3	1	5	3	2	1	1	4	5	\$ 14,040.00	R
Middle School	Replace roof. Many blistering areas, abandoned curbs, ponding water, poor drainage, replace roof drains, noted many leaks. Provide overflow scuppers on sixth grade pod	3	3	2	3	3	3	2	1	1	5	5	\$ 2,504,361.60	R
High School	Provide additional roof ladders for access to various roof levels. Install cages where required.	5	1	2	1	5	3	2	1	1	5	5	\$ 11,700.00	R
Middle School	Install protective cages on roof access ladder by chiller.	5	2	2	1	4	3	2	1	1	4	5	\$ 3,120.00	R
Blue Bell	Replace all soffit panels around perimeter of building (both high & low roof areas.)	2	2	3	4	3	3	2	1	1	4	5	\$ 148,824.00	R
Shady Grove	Provide overflow roof drains or scuppers for Gymnasium roof	2	2	3	4	3	3	2	1	1	4	5	\$ 1,300.00	R
Central Office	Replace ladder to roof. provide access to mechanical loft and new roof hatch.	4	1	2	1	5	5	2	1	1	5	5	\$ 19,500.00	R
Mattison Ave.	Install roof hatch and ladder to low roof in Kitchen Storage Room	4	2	2	1	4	3	2	1	1	4	5	\$ 4,550.00	R
Mattison Ave.	Replace roof ladder from low roof to Multi-Purpose Roof	4	2	2	1	4	3	2	1	1	4	5	\$ 2,340.00	R
Mattison Ave.	Repair exterior soffit beneath second floor - east side of building	3	2	2	3	3	3	2	1	1	4	5	\$ 18,408.00	R
Mattison Ave.	Replace skylights, raise curbs & repair flashing.	3	2	2	3	3	3	2	1	1	4	5	\$ 14,560.00	R

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SCHOOL	ITEM	SA	CV	EI	NP	PC	DE	CI	LEI	ESI	LE	PRIORITY	2011 Estimated Cost Including 30% Indirect Costs	Category
Blue Bell	Install roof access ladders from main low roof to classroom wing roof areas.	3	2	2	2	3	3	2	1	1	4	5	\$ 4,680.00	R
Shady Grove	Raise/extend vent pipe, currently flush with roof.	2	2	3	2	3	3	2	1	1	4	5	\$ 11,440.00	R
Middle School	Replace lightning protection. Provide coverage on entire building	2	2	2	3	3	3	2	1	1	4	5	\$ 111,280.00	R
Shady Grove	Install lightning protection (roof sf)	2	2	2	3	3	3	2	1	1	4	5	\$ 70,720.00	R
Stony Creek	Install lightning protection	2	2	2	3	3	3	2	1	1	4	5	\$ 62,400.00	R
High School	Install overflow roof drains on lecture hall roof & back stage roof	2	2	2	2	3	3	2	1	1	4	4	\$ 3,900.00	R
High School	Install overflow roof drain on lower roof at auditorium.	2	2	3	1	3	3	2	1	1	3	4	\$ 1,300.00	R
High School	Replace roof drains. Include vertical leader down to and including first elbow	2	2	3	1	3	3	2	1	1	3	4	\$ 31,200.00	R
Middle School	Install protective cages around large skylight	3	2	2	1	3	1	1	1	1	4	4	\$ 13,104.00	R
Shady Grove	Repair/rebuild exterior door canopies, damaged soffits from roof leaks. Lights missing at several locations.	2	2	2	1	3	3	2	1	1	3	4	\$ 2,995.20	R
Shady Grove	Repair and paint drop-off drive canopy column bases, evidence of rust at bottom.	2	2	2	1	3	3	2	1	1	3	4	\$ 4,024.80	R
Central Office	Install safety guard along roof edge where mechanical equipment is closer than 10' to roof edge.	3	1	1	1	4	3	1	1	1	5	4	\$ 2,437.50	R
Bus Garage	Repair blistered areas on high roof area (approx 15%)	3	1	1	1	4	4	1	1	1	4	4	\$ 21,840.00	R
Bus Garage	Replace roof drains on both high and low roof areas. (4" deep standing water on small low roof area)	2	1	1	2	4	4	1	1	1	4	4	\$ 15,600.00	R
Central Office	Install new roof drains on lower roof.	3	1	1	1	3	4	1	1	1	4	4	\$ 12,480.00	R
Bus Garage	Install lightning protection (roof sf)	2	1	1	2	4	3	1	1	1	4	4	\$ 9,360.00	R
												<b>Total</b>	<b>\$ 8,059,687.74</b>	
Shady Grove	Provide additional exit signage throughout building	3	2	3	4	3	3	3	1	1	4	6	\$ 26,000.00	SI
Stony Creek	Provide additional interior exit signage	3	2	2	4	3	3	3	1	1	4	5	\$ 19,500.00	SI
Blue Bell	Add signage at electrical services to indicate (2) services to building for code.	3	2	2	2	3	3	2	1	1	4	5	\$ 650.00	SI
Middle School	Install ADA compliant room signage	2	2	2	3	2	3	2	1	1	4	4	\$ 26,000.00	SI
Lower Gwynedd	Reinstall/replace ADA signage to compliant height	2	1	1	3	2	1	1	1	1	4	3	\$ 45,500.00	SI
												<b>Total</b>	<b>\$ 117,650.00</b>	

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SCHOOL	ITEM	SA	CV	EI	NP	PC	DE	CI	LEI	ESI	LE	PRIORITY	2011 Estimated Cost Including 30% Indirect Costs	Category
High School	Repair locker tops	2	2	2	3	2	3	2	1	1	3	4	\$ 45,500.00	SL
												<b>Total</b>	<b>\$ 45,500.00</b>	
Stony Creek	Replace overhead gates with doors to eliminate dead end corridors when in closed position	3	2	4	4	5	4	4	2	1	4	7	\$ 18,200.00	SP
High School	Replace acoustic operable partition in "old" gymnasium	2	4	3	4	3	4	4	2	1	4	6	\$ 194,688.00	SP
High School	Provide drop-down divider curtain in "round" gymnasium	2	4	3	4	3	4	4	2	1	4	6	\$ 65,000.00	SP
High School	Provide multi-media system in "Audion"	2	4	4	4	2	3	4	1	1	4	6	\$ 20,800.00	SP
High School	Replace operable partitions	2	3	3	4	4	4	4	3	2	4	6	\$ 65,000.00	SP
Shady Grove	Replace Library furniture	2	4	3	4	3	3	3	2	1	4	6	\$ 97,500.00	SP
Mattison Ave.	Replace operable partitions	3	3	3	4	3	3	2	1	1	4	6	\$ 79,560.00	SP
Stony Creek	Replace corridor pinboard	2	3	3	4	3	3	3	1	1	4	6	\$ 32,500.00	SP
Stony Creek	Replace Library furnishing	2	3	3	4	3	3	3	1	1	4	6	\$ 97,500.00	SP
High School	Replace Library furniture	2	3	3	4	3	3	2	1	1	4	5	\$ 227,500.00	SP
Middle School	Repair demountable partitions	2	3	3	4	3	3	3	1	1	3	5	\$ 19,500.00	SP
Blue Bell	Replace cafeteria tables	2	3	2	4	3	3	3	2	1	4	5	\$ 52,000.00	SP
High School	Replace Stage Curtain (square feet)	2	2	2	3	2	3	2	1	1	3	4	\$ 52,650.00	SP
												<b>Total</b>	<b>\$ 1,022,398.00</b>	
Shady Grove	Repair canopies at stairs, two-story addition	2	3	4	4	4	4	3	1	1	4	6	\$ 3,744.00	STE
Lower Gwynedd	Replace handrails adjacent to loading dock, does not meet ADA code requirements.	3	2	2	3	4	3	3	1	1	4	5	\$ 5,850.00	STE
Central Office	Replace guard and hand rails at loading dock. Not ADA compliant.	3	1	1	1	4	4	1	1	1	5	4	\$ 9,750.00	STE
Blue Bell	Replace fence, gate, and handrails to outside entrance to Boiler Room	3	1	1	1	3	3	2	1	1	5	4	\$ 5,460.00	STE
Central Office	Add ADA ramp indicators at front entrance.	3	1	1	1	4	3	1	1	1	4	4	\$ 6,240.00	STE
												<b>Total</b>	<b>\$ 31,044.00</b>	
Shady Grove	Replace concrete stairs and associated handrails from drive down to parking lots across from Boiler room.	3	2	3	4	3	3	3	2	1	4	6	\$ 13,000.00	STI

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Blue Bell	Replace handrail on stage stair	2	3	2	4	3	3	4	2	1	4	6	\$ 6,500.00	STI
Mattison Ave.	Renovate (2) stair towers - Not ADA compliant	2	3	3	3	3	3	3	1	1	4	5	\$ 70,200.00	STI
Middle School	Replace Corridor stair treads and risers	3	2	2	4	3	3	3	1	1	4	5	\$ 3,900.00	STI
Shady Grove	Replace interior stair and landing at roof access. Provide compliant guardrails	3	2	2	2	5	3	2	1	1	4	5	\$ 2,600.00	STI
Central Office	Install handrails at interior ramps	3	1	1	1	4	4	3	1	1	5	4	\$ 5,850.00	STI
												<b>Total</b>	<b>\$ 102,050.00</b>	
Stony Creek	Rework storm inlets near and adjacent to loading dock to insure proper water flow removal and to repair damaged asphalt around inlets.	3	3	3	5	4	3	3	3	1	5	7	\$ 19,500.00	SW
Lower Gwynedd	Install underground drainage system for large playground area. Route piping to added storm inlets adjacent to said playground. Possible regarded large swale with additional inlet(s).	3	3	4	4	4	4	3	1	1	4	7	\$ 429,000.00	SW
Lower Gwynedd	Add underground drainage system in soft playground area. Pipe drainage under asphalt towards drainage swale.	3	3	4	4	4	4	3	1	1	4	7	\$ 65,000.00	SW
High School	Rework trench drain & inlet along adjoining tennis courts.	2	3	3	4	3	3	3	2	2	4	6	\$ 20,995.00	SW
Blue Bell	Upgrade storm sewer system, tie roof drains from building additions to underground system	2	2	4	4	3	4	3	1	1	5	6	\$ 79,300.00	SW
Stony Creek	Reconfigure storm pipe at water main to eliminate built in "trap"	2	2	3	4	3	3	3	2	1	4	5	\$ 11,050.00	SW
Bus Garage	Replace deteriorated steel storm main in parking lot.	3	1	1	1	4	4	1	1	1	4	4	\$ 97,500.00	SW
Blue Bell	Replace floor grate in Boiler Room	3	1	1	1	3	3	2	1	1	4	4	\$ 6,500.00	SW
Central Office	Add storm inlet at bottom of back access drive heading towards E.S. and tie into nearest storm line.	2	1	1	1	3	3	1	1	1	5	3	\$ 9,100.00	SW
												<b>Total</b>	<b>\$ 737,945.00</b>	
High School	Replace seating in "Audion" with ADA compliant seating	2	4	3	4	2	3	4	1	2	4	6	\$ 19,500.00	TE
Stony Creek	Provide a new sound system and dimming system, border lights and front of house lights for the main stage.	2	3	3	4	3	3	2	3	4	3	6	\$ 104,000.00	TE
Blue Bell	Install lighting & sound system for Cafeteria stage	2	4	2	4	3	3	3	2	2	4	6	\$ 104,000.00	TE
Lower Gwynedd	Provide stage lighting, front of house lighting and dimming system for elementary school performances.	2	3	3	4	3	3	3	2	1	3	6	\$ 52,000.00	TE



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Mattison Ave.	Provide a new dimming system, border lights and front of house lights for the stage. The sound system should be reviewed	3	3	2	3	3	3	3	1	1	4	5	\$ 104,000.00	TE
High School	Refinish stage and stage front in "Audion"	2	2	2	3	2	4	3	1	2	4	5	\$ 17,615.00	TE
												Total	\$ 401,115.00	
Blue Bell	Remodel gang toilet rooms and provide proper facilities for building population	3	3	3	4	3	4	3	3	2	4	6	\$ 234,000.00	TRG
High School	Renovate toilet rooms, not ADA compliant, in poor condition. original Building.	3	2	2	5	3	4	4	3	2	4	6	\$ 702,000.00	TRG
Middle School	Renovate Toilet Rooms, not ADA compliant	3	3	3	4	3	3	3	2	2	4	6	\$ 1,202,760.00	TRG
Stony Creek	Reconfigure Toilet Rooms - not ADA compliant	2	2	4	4	4	4	3	1	1	4	6	\$ 323,856.00	TRG
Mattison Ave.	Renovate Boys & Girls Toilet Rooms - Not ADA Compliant	3	2	3	3	4	4	3	3	1	4	6	\$ 202,410.00	TRG
Lower Gwynedd	Renovate gang toilet rooms to include lavatories in rooms (total of 5 locations)	2	2	3	4	3	4	2	1	1	4	5	\$ 585,000.00	TRG
												Total	\$ 3,250,026.00	
Blue Bell	Renovate Classroom Toilets, not ADA compliant	3	3	3	3	3	4	3	3	2	4	6	\$ 134,784.00	TRI
Central Office	Renovate single use toilet rooms. Make ADA compliant if structurally feasible.	2	1	1	1	4	5	1	1	1	5	4	\$ 78,000.00	TRI
												Total	\$ 212,784.00	
Blue Bell	Remove modular classrooms, replace with permanent structures	3	5	4	5	5	5	4	5	3	5	9	\$ 1,047,540.00	UN
High School	Modify door/stair entrance at bottom of Gymnasium Lobby, not ADA compliant. Impedes Egress	3	5	4	5	4	4	4	1	2	4	8	\$ 93,600.00	UN
High School	Modify access to main auditorium control booth. Currently accessed through catwalk system.	5	4	3	2	5	4	4	2	2	5	7	\$ 11,700.00	UN
High School	Provide closer panels at main entrance canopy to eliminate bird nesting ledge	2	4	4	4	4	3	3	3	1	5	7	\$ 12,168.00	UN
Middle School	Reconfigure Main Office area to provide secure building entrance	3	3	3	4	4	4	4	2	2	4	7	\$ 608,400.00	UN
High School	Install acoustic treatments in gymnasiums (two)	2	4	3	5	3	3	3	1	1	3	6	\$ 19,435.00	UN
High School	Provide additional district-wide maintenance shop space	3	3	3	3	3	4	3	2	1	4	6	\$ 820,456.00	UN
Stony Creek	Replace Library Corridor wall (wood & glass) with HM frame and tempered glass. Include door.	2	3	3	4	3	4	3	2	1	4	6	\$ 20,280.00	UN
Middle School	Replace canopy light fixtures, repair canopies	3	2	2	4	3	3	3	2	2	4	6	\$ 21,060.00	UN
Lower Gwynedd	Install acoustic treatment in Multi-Purpose room	2	3	2	4	3	3	3	1	1	4	5	\$ 42,432.00	UN



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SCHOOL	ITEM	SA	CV	EI	NP	PC	DE	CI	LEI	ESI	LE	PRIORITY	2011 Estimated Cost Including 30% Indirect Costs	Category
High School	Upgrade TV Studio	2	3	3	2	3	3	3	2	2	3	5	\$ 195,000.00	UN
Middle School	Install acoustic treatment in Gymnasium (two)	2	3	2	4	2	3	2	1	1	4	5	\$ 130,000.00	UN
Middle School	Install acoustic treatment in Natatorium	2	3	2	4	2	3	2	1	1	4	5	\$ 84,500.00	UN
High School	Replace vertical metal siding, paint finish worn, peeling and panels are rusting.	2	2	2	3	3	3	2	2	2	3	5	\$ 31,200.00	UN
Middle School	Reconfigure loading dock area for truck access	3	2	2	2	3	3	2	1	1	4	5	\$ 74,880.00	UN
Shady Grove	Install corner guards at interior Corridor corners (damaged tile)	2	2	2	4	2	3	2	1	1	4	5	\$ 4,680.00	UN
Shady Grove	Repair approx 20% and refinish E.I.F.S.	2	2	2	3	3	3	2	2	1	3	5	\$ 101,400.00	UN
Bus Garage	Provide closed in area for tire storage	3	1	1	2	5	4	1	1	1	4	4	\$ 58,500.00	UN
Bus Garage	Review pumping station and provide emergency shut-off equipment.	3	1	1	2	4	4	1	1	1	4	4	\$ 13,000.00	UN
High School	Replace dark brown fascia extension around building.	2	2	2	2	2	3	2	1	1	4	4	\$ 156,429.00	UN
Middle School	Vertical metal siding - signs of rusting at numerous locations around building. Repaint or replace.	2	2	2	2	2	3	2	1	1	4	4	\$ 252,861.70	UN
Bus Garage	Provide driver entrance, renovate lounge, & provide appropriate Toilet Room Facilities for drivers and building staff. (Renovation and addition)	2	1	1	2	4	5	1	1	1	5	4	\$ 364,000.00	UN
												<b>Total</b>	<b>\$ 4,163,521.70</b>	
High School	Replace single pane windows in original building with insulated glass	2	3	3	5	5	4	3	5	4	4	7	\$ 1,121,640.00	WR
Middle School	Replace windows on original building	2	3	3	4	4	3	3	3	4	4	6	\$ 202,800.00	WR
Stony Creek	Replace sliding glass windows between classrooms and corridor with tempered glass and HM frames	3	3	3	4	3	4	3	2	1	4	6	\$ 42,250.00	WR

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SCHOOL	ITEM	SA	CV	EI	NP	PC	DE	CI	LEI	ESI	LE	PRIORITY	2011 Estimated Cost Including 30% Indirect Costs	Category
Blue Bell	Replace gymnasium upper single-pane windows with double-pane windows.	2	3	3	4	3	3	3	3	2	4	6	\$ 33,696.00	WR
Blue Bell	Recaulk all exterior windows.	2	3	3	4	3	3	3	3	2	4	6	\$ 7,800.00	WR
Stony Creek	Replace all existing single-pane windows in original section of building.	2	3	3	4	3	3	3	2	2	4	6	\$ 390,000.00	WR
Shady Grove	Replace windows, provide screens for operable windows	2	3	2	4	3	3	3	2	4	4	6	\$ 144,612.00	WR
Blue Bell	Add insulation and finish at Classroom window system heads	2	3	2	4	3	3	3	3	2	4	6	\$ 8,125.00	WR
Mattison Ave.	Replace single pane windows with insulated glass windows	3	2	2	3	3	3	2	3	2	4	5	\$ 216,372.00	WR
Blue Bell	Provide screens on operable windows	2	3	2	4	3	3	2	1	1	4	5	\$ 7,553.00	WR
Stony Creek	Install screens on operable windows	3	2	2	3	3	3	1	1	1	3	5	\$ 5,551.00	WR
Central Office	Replace all exterior single pane windows & curtain wall panel infill's around entire building.	3	1	1	1	4	4	1	1	1	4	4	\$ 218,400.00	WR
												<b>Total</b>	<b>\$ 2,398,799.00</b>	
High School	Replace window treatments, original building	2	3	3	5	3	3	2	2	1	4	6	\$ 205,634.00	WT
Stony Creek	Replace window shades	2	3	3	4	3	3	3	1	1	4	6	\$ 71,500.00	WT
Middle School	Replace window treatments	2	3	3	4	4	3	2	1	1	3	6	\$ 37,180.00	WT
Blue Bell	Install new window shades	2	3	2	4	2	3	3	2	1	4	5	\$ 85,800.00	WT
High School	Replace window shades	2	2	2	4	3	3	2	1	1	3	5	\$ 343,200.00	WT
Lower Gwynedd	Replace window screens.	2	2	2	3	3	3	1	1	1	3	4	\$ 46,020.00	WT
												<b>Total</b>	<b>\$ 789,334.00</b>	
<b>Grand Total:</b>													<b>\$ 88,379,672.94</b>	

# ENERGY STAR® SUMMARY

## **Background:**

ENERGY STAR is a joint program of the U.S. Environmental Protection Agency and the U.S. Department of Energy helping us all save money and protect the environment through energy efficient products and practices. Americans, with the help of ENERGY STAR, saved enough energy in 2009 alone to avoid greenhouse gas emissions equivalent to those from 30 million cars — all while saving nearly \$17 billion on their utility bills.

Because a strategic approach to energy management can produce twice the savings — for the bottom line and the environment — as typical approaches, EPA's ENERGY STAR partnership offers a proven energy management strategy that helps in measuring current energy performance, setting goals, tracking savings, and rewarding improvements. EPA provides an innovative energy performance rating system which school districts have already used for thousands of buildings across the country. EPA also recognizes top performing buildings with the ENERGY STAR.

ENERGY STAR works with public school districts to improve the energy and financial performance of their facilities to meet ENERGY STAR specifications for more environmentally friendly actions and to save on their energy bills every year and offer better comfort and health, increased quality, and a return on investment.

## **New PDE Energy Star Requirements:**

On November 30, 2010 and January 20, 2011 the Pennsylvania Department of Education (PDE) sent out bulletins regarding revised PlanCon requirements for new projects submitted after January 1, 2011. The document notes a new policy between the PDE and Department of Environmental Protection and changes to the PlanCon requirements, in response to the new policy PDE requires the district wide facility study include energy analysis and benchmarking using the Department of Energy's Portfolio Manager. As part of your facility study this work has been completed and any future PlanCon Projects will need only to utilize the current information. Or develop a "Target Finder" result for projects being considered. Once a project is part of the PlanCon process a more comprehensive energy model of the building is now also required.

A Statement of Energy Performance for each of the district's facilities being tracked on the Portfolio Manager system is included and the schools Energy Star ratings are shown on the graph below. The Wissahickon High School and Stony Creek Elementary School are eligible for the 2011 ENERGY STAR label, as long as they meet the criteria for comfort and air quality which should be reviewed.

## **Portfolio Manager Overview:**

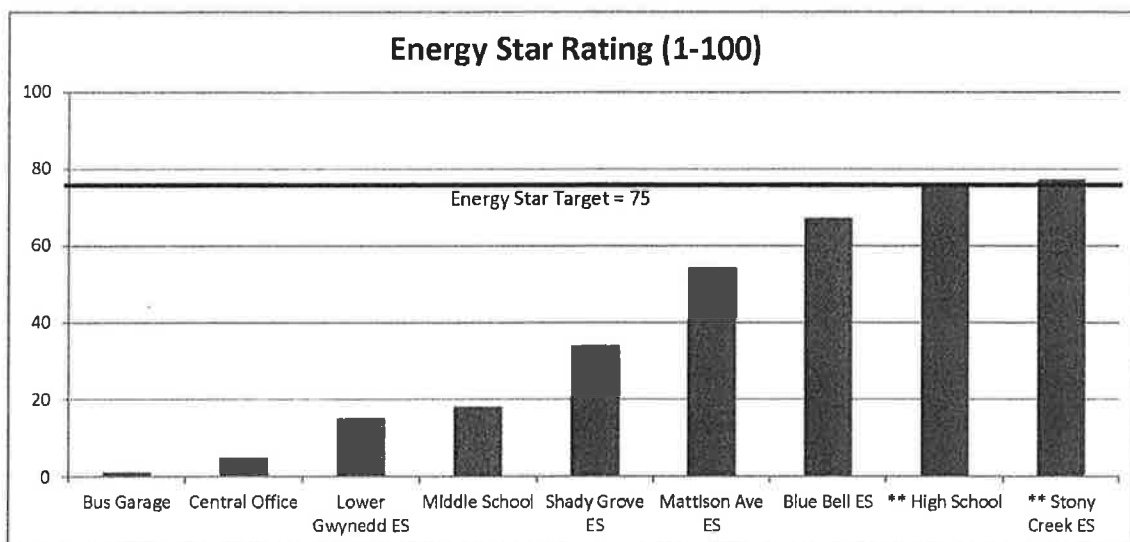
Portfolio Manager is an interactive energy management tool that allows the district to track and assess energy and water consumption across your entire portfolio of buildings in a secure online environment. Portfolio Manager can help you set investment priorities,

identify under-performing buildings, verify efficiency improvements, and receive EPA recognition for superior energy performance

DEI has entered energy consumption and cost data into the district's Portfolio Manager Account to benchmark building energy performance, assess energy management goals over time, and identify strategic opportunities for savings and recognition opportunities. The tool further allows the district to streamline your portfolio's energy and water data, and track key consumption, performance, and cost information portfolio-wide; some examples follow:

- Track multiple energy and water meters for each facility
- Customize meter names and key information
- Benchmark your facilities relative to their past performance
- View percent improvement in weather-normalized source energy
- Monitor energy and water costs
- Share your building data with others inside or outside of your organization
- Enter operating characteristics, tailored to each space use category within your building.

Portfolio Manager rates energy performance on a scale of 1–100 relative to similar buildings nationwide. District buildings are not compared to its other buildings entered into Portfolio Manager to determine your ENERGY STAR rating. Instead, statistically representative models are used to compare district buildings against similar buildings from a national survey conducted by the Department of Energy's Energy Information Administration. This national survey, known as the Commercial Building Energy Consumption Survey (CBECS), is conducted every four years, and gathers data on building characteristics and energy use from thousands of buildings across the United States. The district buildings peer groups of comparison are those buildings in the CBECS survey that have similar building and operating characteristics. A rating of 50 indicates that the building, from an energy consumption standpoint, performs better than 50% of all similar buildings nationwide, while a rating of 75 indicates that the building performs better than 75% of all similar buildings nationwide.



EPA's energy performance rating system, based on source energy, accounts for the impact of weather variations as well as changes in key physical and operating characteristics of each building. Buildings rating 75 or greater may qualify for the ENERGY STAR Label. All targets are expressed in "Energy Use Intensity" and are derived from the Commercial Buildings Energy Consumption Survey.

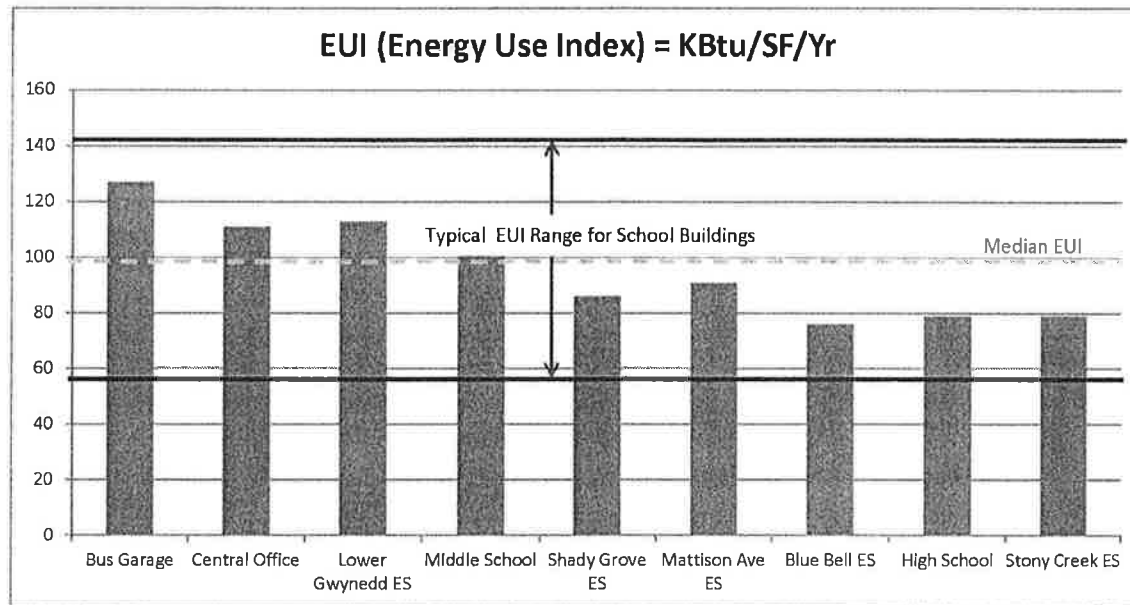
Portfolio Manager calculates your building's greenhouse gas emissions (including carbon dioxide, methane, and nitrous oxide) from on-site fuel combustion, purchased electricity and district heating and cooling. Portfolio Manager also enables tracking of avoided emissions from any renewable energy sources. While the emissions calculations are based on the amount of energy your building consumes, they have no bearing on its energy performance rating. The methodology for calculating greenhouse gas emissions in Portfolio Manager was designed to be consistent with the Greenhouse Gas Protocol developed by the World Resources Institute and World Business Council for Sustainable Development, and is compatible with the accounting, inventory and reporting requirements of EPA's Climate Leaders program, as well as other state and National Government Organization (NGO) registry and reporting programs.

Portfolio Manager provides a platform to track energy and water use trends as compared with the costs of these resources. This is a valuable tool for understanding the relative costs associated with a given level of performance, helping the district evaluate investment opportunities for a given building and identify the best opportunities across Wissahickon School District's portfolio. They also provide a tool called "Target Finder" which assists in setting energy targets to meet industry goals for Architecture 2030, AIA Sustainability Practice, and ENERGY STAR®. Target Finder provides easy to understand energy use targets based on existing buildings' energy consumption data for about 60 percent of the commercial square footage across the United States. Target Finder can be used throughout the design process to rate estimated energy use for design alternatives and trade-offs. The EPA rating provides an "apples-to-apples" comparison of intended (estimated) energy use. It also provides a rating for projects using Building Information Modeling through a Web-based energy analysis service which performs whole building analyses. (A target finder worksheet has been included for review purposes)

The built-in financial tool within Portfolio Manager allows the district to compare cost savings across buildings in the portfolio while also allowing the district to calculate cost savings for a specific project. Being able to quickly and clearly obtain figures showing cumulative investments in facility upgrades or annual energy costs eases decision making for best practice management of your buildings district-wide.

Using just a few of the figures available in Portfolio Manager, we have been able to derive some basic information relative to the districts savings associated with setting goals for the districts energy savings. The graph below shows the Energy Use Index of each district facility. This is a measure of the KBtu/SF/Yr consumed (All energy units were converted to KBtu's for comparison purposes)





Several characteristics should be noted when looking at this graph:

- 1) The columns are an inverse to the energy star ratings shown in the first graph and although this relationship is not directly proportional, the rule of thumb is that as energy consumption decreases, the Energy Star rating increases.
- 2) All of the schools are tending toward the median EUI rating and several are above the median. This becomes an issue as Energy Star ratings tend to be awarded to facilities which are toward the lower end of the typical range.

Some simple calculations were done using the EUI and building sizes to determine the overall energy savings the district would need in order to establish to certain goals.

- The first calculation assumes getting each facility at or below the median EUI. In order to reach this goal, the district would have to save 2,427,000 KBtu's in the worst performing buildings. This is a little over 3% of the overall consumption and would result in a savings of approximately \$32,500. This savings could probably be achieved with a minimal energy savings effort.
- The next calculation assumes that you would lower the EUI in all building to achieve the Energy Star Label (We assumed an EUI of 70 for this calculation) In order to get the district in this arena, over 16,800,000 kBTu or about 21% of the districts energy would need to be eliminated. The District's current annual energy cost is \$1,039,025.95. While this goal would require a more comprehensive and holistic approach to energy conservation, the savings realized would be in excess of \$225,000.

The aforementioned figures were based on average figures and order of magnitude energy savings. In reality, each building needs to stand alone in it's comparison group as the EUI goal for each building will differ. To demonstrate this, we have used Portfolio Manager to generate a Statement of Energy Performance (SEP) for each building. These reports summarize important energy information and building characteristics such as site

and source energy intensity, CO2 emissions, gross floor area, and number of personal computers. The Statement of Energy Performance also helps to:

- Apply for the ENERGY STAR label
- Satisfy LEED for Existing Buildings (LEED-EB) requirements
- Document performance in energy service contracts
- Communicate energy performance
- Gain EPA Recognition

Portfolio Manager also shares the district's data with EPA to earn recognition for energy performance for a particular building or across the district's portfolio. Share best practices, become a Leader for energy improvement, or top energy performance, or simply gain exposure through development of success stories or showcasing achievements. Recognition opportunities include:

- ENERGY STAR Label — Recognition for superior energy performance in a single building
- ENERGY STAR Leaders — Recognition for organization-wide improvement or top energy performance
- ENERGY STAR Partner of the Year — Recognition for outstanding contributions to reducing greenhouse gas emissions through energy efficiency

# WISSAHICKON SCHOOL DISTRICT

Building & Address	Energy Profiles								Comment
	Gross Floor Area (Square Feet)	Year Built	Total Energy Use (kBtu)	Building Energy Intensity - Site (kBtu/ft2/yr)	National Average Energy Intensity - Site (kBtu/ft2/yr)	Energy performance Rating	Annual Energy Cost	Total Energy Cost Per Square Foot	
High School 521 Houston Road Ambler, PA 19002-3599	314,000	1961, 1974, 2000	24,739,313	79	102	75	\$409,008.75	\$1.30	<sup>1</sup>
Middle School 500 Houston Road Ambler, PA 19002-3597	182,000	1974, 1991, 2005	18,410,860	101	76	18	\$353,012.62	\$1.94	Below energy performance rating minimum of 75 <sup>1</sup>
Lower Gwynedd Elementary 571 Houston Road Ambler, PA 19002-3553	82,000	1996	9,242,119	113	80	15	\$176,731.59	\$2.16	Below energy performance rating minimum of 75 <sup>1</sup>
Shady Grove Elementary 351 West Skippack Pike Ambler, PA 19002-5198	102,000	1956, 1975, 1989, 1990	8,816,110	86	75	34	\$200,502.00	\$1.97	Below energy performance rating minimum of 75
Stony Creek Elementary 1721 Yost Road Blue Bell, PA 19422	60,000	1963, 1988, 1986, 2001	4,711,697	79	103	77	\$87,630.30	\$1.46	
Blue Bell 801 Symphony Lane Blue Bell, PA 19422	61,000	1955, 1957, 1988, 2000	4,655,211	76	90	67	\$115,826.42	\$1.90	Below energy performance rating minimum of 75
Mattison Avenue Elementary 131 Rosemary Avenue Ambler, PA 19002-4798	28,000	1966, 2002	2,534,174	91	95	54	\$57,309.64	\$2.05	Below energy performance rating minimum of 75
Administration Building 601 Knight Road Ambler, PA 19002-3496	30,000	1966, 2005	3,315,817	111	90	31	\$79,647.55	\$2.65	Below energy performance rating minimum of 75 <sup>2</sup>
Bus Garage 800 School Road Blue Bell, PA 19422	9,000	1956, 1975	1,114,027	127	45	N/A	\$24,751.86	\$2.75	Below energy performance rating minimum of 75

1. EUI adjustment is required because the gas meter and electric meter is shared and the costs are pro-rated by square foot, this may not represent energy use. Separate metering should be put in place.

2. EUI adjustment is required because gas meter is shared with High School, Middle School and Lower Gwynedd.



# STATEMENT OF ENERGY PERFORMANCE

## Wissahickon High School

Building ID: 2803601  
 For 12-month Period Ending: April 30, 2011<sup>1</sup>  
 Date SEP becomes ineligible: N/A

Date SEP Generated: August 23, 2011

### Facility

Wissahickon High School  
 521 Houston Road  
 Ambler, PA 19002-3599

### Facility Owner

Wissahickon School District  
 601 Knight Road  
 Ambler, PA 19002

### Primary Contact for this Facility

Ronald Saurman  
 601 Knight Road  
 Ambler, PA 19002

Year Built: 1961  
 Gross Floor Area (ft<sup>2</sup>): 314,000

Energy Performance Rating<sup>2</sup> (1-100) 75

### Site Energy Use Summary<sup>3</sup>

Electricity - Grid Purchase(kBtu)	7,531,137
Fuel Oil (No. 2) (kBtu)	0
Natural Gas (kBtu) <sup>4</sup>	17,208,176
Total Energy (kBtu)	24,739,313

### Energy Intensity<sup>5</sup>

Site (kBtu/ft <sup>2</sup> /yr)	79
Source (kBtu/ft <sup>2</sup> /yr)	137

### Emissions (based on site energy use)

Greenhouse Gas Emissions (MtCO <sub>2</sub> e/year)	1,982
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### Electric Distribution Utility

PECO Energy Co [Exelon Corp]

### National Average Comparison

National Average Site EUI	102
National Average Source EUI	178
% Difference from National Average Source EUI	-23%
Building Type	K-12 School

Stamp of Certifying Professional
Based on the conditions observed at the time of my visit to this building, I certify that the information contained within this statement is accurate.

### Meets Industry Standards<sup>6</sup> for Indoor Environmental Conditions:

Ventilation for Acceptable Indoor Air Quality	N/A
Acceptable Thermal Environmental Conditions	N/A
Adequate Illumination	N/A

### Certifying Professional

Arif Fazil  
 One East Broad Street Suite 310  
 Bethlehem, PA 18018

#### Notes:

1. Application for the ENERGY STAR must be submitted to EPA within 4 months of the Period Ending date. Award of the ENERGY STAR is not final until approval is received from EPA.
2. The EPA Energy Performance Rating is based on total source energy. A rating of 75 is the minimum to be eligible for the ENERGY STAR.
3. Values represent energy consumption, annualized to a 12-month period.
4. Values represent energy intensity, annualized to a 12-month period.
5. Based on Meeting ASHRAE Standard 62 for ventilation for acceptable indoor air quality, ASHRAE Standard 55 for thermal comfort, and IESNA Lighting Handbook for lighting quality.



# STATEMENT OF ENERGY PERFORMANCE

## Wissahickon Middle School

Building ID: 2803603  
 For 12-month Period Ending: April 30, 2011<sup>1</sup>  
 Date SEP becomes ineligible: N/A

Date SEP Generated: August 23, 2011

### Facility

Wissahickon Middle School  
 500 Houston Road  
 Ambler, PA 19002-3597

### Facility Owner

Wissahickon School District  
 601 Knight Road  
 Ambler, PA 19002

### Primary Contact for this Facility

Ronald Saurman  
 601 Knight Road  
 Ambler, PA 19002

Year Built: 1974  
 Gross Floor Area (ft<sup>2</sup>): 182,000

Energy Performance Rating<sup>2</sup> (1-100) 18

### Site Energy Use Summary<sup>3</sup>

Electricity - Grid Purchase(kBtu)	7,978,614
Fuel Oil (No. 2) (kBtu)	0
Natural Gas (kBtu) <sup>4</sup>	10,432,246
Total Energy (kBtu)	18,410,860

### Energy Intensity<sup>5</sup>

Site (kBtu/ft <sup>2</sup> /yr)	101
Source (kBtu/ft <sup>2</sup> /yr)	206

### Emissions (based on site energy use)

Greenhouse Gas Emissions (MtCO <sub>2</sub> e/year)	1,685
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### Electric Distribution Utility

PECO Energy Co [Exelon Corp]

### National Average Comparison

National Average Site EUI	76
National Average Source EUI	155
% Difference from National Average Source EUI	33%
Building Type	K-12 School

**Stamp of Certifying Professional**  
 Based on the conditions observed at the time of my visit to this building, I certify that the information contained within this statement is accurate.

### Meets Industry Standards<sup>6</sup> for Indoor Environmental Conditions:

Ventilation for Acceptable Indoor Air Quality	N/A
Acceptable Thermal Environmental Conditions	N/A
Adequate Illumination	N/A

### Certifying Professional

Arif Fazil  
 One East Broad Street Suite 310  
 Bethlehem, PA 18018

#### Notes:

1. Application for the ENERGY STAR must be submitted to EPA within 4 months of the Period Ending date. Award of the ENERGY STAR is not final until approval is received from EPA.
2. The EPA Energy Performance Rating is based on total source energy. A rating of 75 is the minimum to be eligible for the ENERGY STAR.
3. Values represent energy consumption, annualized to a 12-month period.
4. Values represent energy intensity, annualized to a 12-month period.
5. Based on Meeting ASHRAE Standard 62 for ventilation for acceptable indoor air quality, ASHRAE Standard 55 for thermal comfort, and IESNA Lighting Handbook for lighting quality.





# STATEMENT OF ENERGY PERFORMANCE

## Blue Bell Elementary School

Building ID: 2803583  
 For 12-month Period Ending: May 31, 2011<sup>1</sup>  
 Date SEP becomes ineligible: N/A

Date SEP Generated: August 23, 2011

### Facility

Blue Bell Elementary School  
 801 Symphony Lane  
 Blue Bell, PA 19422

### Facility Owner

Wissahickon School District  
 601 Knight Road  
 Ambler, PA 19002

### Primary Contact for this Facility

Ronald Saurman  
 601 Knight Road  
 Ambler, PA 19002

Year Built: 1955  
 Gross Floor Area (ft<sup>2</sup>): 61,000

Energy Performance Rating<sup>2</sup> (1-100) 67

### Site Energy Use Summary<sup>3</sup>

Electricity - Grid Purchase(kBtu)	1,778,990
Fuel Oil (No. 2) (kBtu)	0
Natural Gas (kBtu) <sup>4</sup>	2,876,221
Total Energy (kBtu)	4,655,211

### Energy Intensity<sup>5</sup>

Site (kBtu/ft <sup>2</sup> /yr)	76
Source (kBtu/ft <sup>2</sup> /yr)	147

### Emissions (based on site energy use)

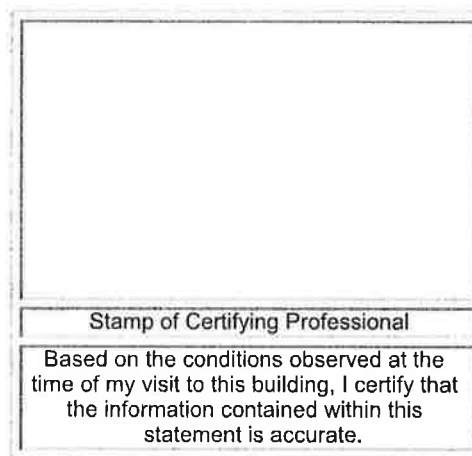
Greenhouse Gas Emissions (MtCO <sub>2</sub> e/year)	405
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### Electric Distribution Utility

PECO Energy Co [Exelon Corp]

### National Average Comparison

National Average Site EUI	90
National Average Source EUI	173
% Difference from National Average Source EUI	-15%
Building Type	K-12 School



### Meets Industry Standards<sup>6</sup> for Indoor Environmental Conditions:

Ventilation for Acceptable Indoor Air Quality	N/A
Acceptable Thermal Environmental Conditions	N/A
Adequate Illumination	N/A

### Certifying Professional

Arif Fazil  
 One East Broad Street Suite 310  
 Bethlehem, PA 18018

#### Notes:

1. Application for the ENERGY STAR must be submitted to EPA within 4 months of the Period Ending date. Award of the ENERGY STAR is not final until approval is received from EPA.
2. The EPA Energy Performance Rating is based on total source energy. A rating of 75 is the minimum to be eligible for the ENERGY STAR.
3. Values represent energy consumption, annualized to a 12-month period.
4. Values represent energy intensity, annualized to a 12-month period.
5. Based on Meeting ASHRAE Standard 62 for ventilation for acceptable indoor air quality, ASHRAE Standard 55 for thermal comfort, and IESNA Lighting Handbook for lighting quality.



# STATEMENT OF ENERGY PERFORMANCE

## Lower Gwynedd Elementary School

Building ID: 2803591  
 For 12-month Period Ending: April 30, 2011<sup>1</sup>  
 Date SEP becomes ineligible: N/A

Date SEP Generated: August 23, 2011

**Facility**  
 Lower Gwynedd Elementary School  
 571 Houston Road  
 Ambler, PA 19002

**Facility Owner**  
 Wissahickon School District  
 601 Knight Road  
 Ambler, PA 19002

**Primary Contact for this Facility**  
 Ronald Saurman  
 601 Knight Road  
 Ambler, PA 19002

**Year Built:** 1996  
**Gross Floor Area (ft<sup>2</sup>):** 82,000

**Energy Performance Rating<sup>2</sup> (1-100)** 15

### Site Energy Use Summary<sup>3</sup>

Electricity - Grid Purchase(kBtu)	4,025,636
Fuel Oil (No. 2) (kBtu)	0
Natural Gas (kBtu) <sup>4</sup>	5,216,483
Total Energy (kBtu)	9,242,119

### Energy Intensity<sup>5</sup>

Site (kBtu/ft <sup>2</sup> /yr)	113
Source (kBtu/ft <sup>2</sup> /yr)	231

**Emissions** (based on site energy use)  
 Greenhouse Gas Emissions (MtCO<sub>2</sub>e/year)

848

**Electric Distribution Utility**  
 PECO Energy Co [Exelon Corp]

### National Average Comparison

National Average Site EUI	80
National Average Source EUI	163
% Difference from National Average Source EUI	42%
Building Type	K-12 School

Stamp of Certifying Professional

Based on the conditions observed at the time of my visit to this building, I certify that the information contained within this statement is accurate.

### Meets Industry Standards<sup>6</sup> for Indoor Environmental Conditions:

Ventilation for Acceptable Indoor Air Quality	N/A
Acceptable Thermal Environmental Conditions	N/A
Adequate Illumination	N/A

### Certifying Professional

Arif Fazil  
 One East Broad Street Suite 310  
 Bethlehem, PA 18018

#### Notes:

1. Application for the ENERGY STAR must be submitted to EPA within 4 months of the Period Ending date. Award of the ENERGY STAR is not final until approval is received from EPA.
2. The EPA Energy Performance Rating is based on total source energy. A rating of 75 is the minimum to be eligible for the ENERGY STAR.
3. Values represent energy consumption, annualized to a 12-month period.
4. Values represent energy intensity, annualized to a 12-month period.
5. Based on Meeting ASHRAE Standard 62 for ventilation for acceptable indoor air quality, ASHRAE Standard 55 for thermal comfort, and IESNA Lighting Handbook for lighting quality.



# STATEMENT OF ENERGY PERFORMANCE

## Mattison Avenue Elementary School

Building ID: 2803595  
 For 12-month Period Ending: April 30, 2011<sup>1</sup>  
 Date SEP becomes ineligible: N/A

Date SEP Generated: August 23, 2011

**Facility**  
 Mattison Avenue Elementary School  
 131 Rosemary Avenue  
 Ambler, PA 19002-4798

**Facility Owner**  
 Wissahickon School District  
 601 Knight Road  
 Ambler, PA 19002

**Primary Contact for this Facility**  
 Ronald Saurman  
 601 Knight Road  
 Ambler, PA 19002

**Year Built:** 1966  
**Gross Floor Area (ft<sup>2</sup>):** 28,000

**Energy Performance Rating<sup>2</sup> (1-100)** 54

### Site Energy Use Summary<sup>3</sup>

Electricity - Grid Purchase(kBtu)	933,064
Natural Gas (kBtu) <sup>4</sup>	1,601,110
Total Energy (kBtu)	2,534,174

### Energy Intensity<sup>5</sup>

Site (kBtu/ft <sup>2</sup> /yr)	91
Source (kBtu/ft <sup>2</sup> /yr)	171

**Emissions (based on site energy use)**  
 Greenhouse Gas Emissions (MtCO<sub>2</sub>e/year)

217

**Electric Distribution Utility**  
 PECO Energy Co [Exelon Corp]

### National Average Comparison

National Average Site EUI	95
National Average Source EUI	179
% Difference from National Average Source EUI	-4%
Building Type	K-12 School

Stamp of Certifying Professional
Based on the conditions observed at the time of my visit to this building, I certify that the information contained within this statement is accurate.

### Meets Industry Standards<sup>6</sup> for Indoor Environmental Conditions:

Ventilation for Acceptable Indoor Air Quality	N/A
Acceptable Thermal Environmental Conditions	N/A
Adequate Illumination	N/A

### Certifying Professional

Arif Fazil  
 One East Broad Street Suite 310  
 Bethlehem, PA 18018

#### Notes:

1. Application for the ENERGY STAR must be submitted to EPA within 4 months of the Period Ending date. Award of the ENERGY STAR is not final until approval is received from EPA.
2. The EPA Energy Performance Rating is based on total source energy. A rating of 75 is the minimum to be eligible for the ENERGY STAR.
3. Values represent energy consumption, annualized to a 12-month period.
4. Values represent energy intensity, annualized to a 12-month period.
5. Based on Meeting ASHRAE Standard 62 for ventilation for acceptable indoor air quality, ASHRAE Standard 55 for thermal comfort, and IESNA Lighting Handbook for lighting quality.



# STATEMENT OF ENERGY PERFORMANCE

## Stony Creek Elementary School

Building ID: 2803599  
 For 12-month Period Ending: May 31, 2011<sup>1</sup>  
 Date SEP becomes ineligible: N/A

Date SEP Generated: August 23, 2011

### Facility

Stony Creek Elementary School  
 1721 Yost Road  
 Blue Bell, PA 19422-3637

### Facility Owner

Wissahickon School District  
 601 Knight Road  
 Ambler, PA 19002

### Primary Contact for this Facility

Ronald Saurman  
 601 Knight Road  
 Ambler, PA 19002

Year Built: 1963

Gross Floor Area (ft<sup>2</sup>): 60,000

Energy Performance Rating<sup>2</sup> (1-100) 77

### Site Energy Use Summary<sup>3</sup>

Electricity - Grid Purchase(kBtu)	1,387,947
Fuel Oil (No. 2) (kBtu)	0
Natural Gas (kBtu) <sup>4</sup>	3,323,750
Total Energy (kBtu)	4,711,697

### Energy Intensity<sup>5</sup>

Site (kBtu/ft <sup>2</sup> /yr)	79
Source (kBtu/ft <sup>2</sup> /yr)	135

### Emissions (based on site energy use)

Greenhouse Gas Emissions (MtCO <sub>2</sub> e/year)	373
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### Electric Distribution Utility

PECO Energy Co [Exelon Corp]

### National Average Comparison

National Average Site EUI	103
National Average Source EUI	178
% Difference from National Average Source EUI	-24%
Building Type	K-12
	School

### Meets Industry Standards<sup>6</sup> for Indoor Environmental Conditions:

Ventilation for Acceptable Indoor Air Quality	N/A
Acceptable Thermal Environmental Conditions	N/A
Adequate Illumination	N/A

Stamp of Certifying Professional
Based on the conditions observed at the time of my visit to this building, I certify that the information contained within this statement is accurate.

### Certifying Professional

Arif Fazil  
 One East Broad Street Suite 310  
 Bethlehem, PA 18018

#### Notes:

1. Application for the ENERGY STAR must be submitted to EPA within 4 months of the Period Ending date. Award of the ENERGY STAR is not final until approval is received from EPA.
2. The EPA Energy Performance Rating is based on total source energy. A rating of 75 is the minimum to be eligible for the ENERGY STAR.
3. Values represent energy consumption, annualized to a 12-month period.
4. Values represent energy intensity, annualized to a 12-month period.
5. Based on Meeting ASHRAE Standard 62 for ventilation for acceptable indoor air quality, ASHRAE Standard 55 for thermal comfort, and IESNA Lighting Handbook for lighting quality.



# STATEMENT OF ENERGY PERFORMANCE

## Shady Grove Elementary School

Building ID: 2803597  
 For 12-month Period Ending: May 31, 2011<sup>1</sup>  
 Date SEP becomes ineligible: N/A

Date SEP Generated: August 23, 2011

**Facility**  
 Shady Grove Elementary School  
 351 West Skippack Pike  
 Ambler, PA 19002-5198

**Facility Owner**  
 Wissahickon School District  
 601 Knight Road  
 Ambler, PA 19002

**Primary Contact for this Facility**  
 Ronald Saurman  
 601 Knight Road  
 Ambler, PA 19002

**Year Built:** 1956  
**Gross Floor Area (ft<sup>2</sup>):** 102,000

**Energy Performance Rating<sup>2</sup> (1-100)** 34

### Site Energy Use Summary<sup>3</sup>

Electricity - Grid Purchase(kBtu)	3,839,637
Fuel Oil (No. 2) (kBtu)	0
Natural Gas (kBtu) <sup>4</sup>	4,976,473
Total Energy (kBtu)	8,816,110

### Energy Intensity<sup>5</sup>

Site (kBtu/ft <sup>2</sup> /yr)	86
Source (kBtu/ft <sup>2</sup> /yr)	177

### Emissions (based on site energy use)

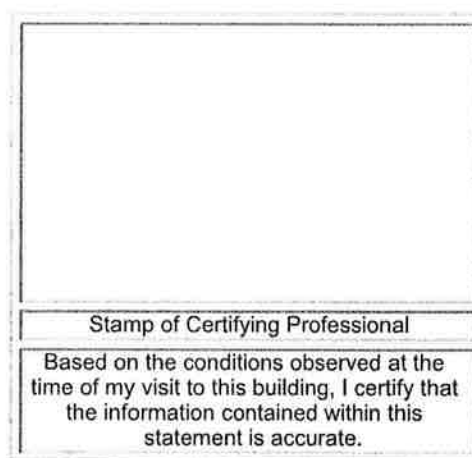
Greenhouse Gas Emissions (MtCO <sub>2</sub> e/year)	808
---	-----

### Electric Distribution Utility

PECO Energy Co [Exelon Corp]

### National Average Comparison

National Average Site EUI	75
National Average Source EUI	154
% Difference from National Average Source EUI	15%
Building Type	K-12 School



### Meets Industry Standards<sup>6</sup> for Indoor Environmental Conditions:

Ventilation for Acceptable Indoor Air Quality	N/A
Acceptable Thermal Environmental Conditions	N/A
Adequate Illumination	N/A

### Certifying Professional

Arif Fazil  
 One East Broad Street Suite 310  
 Bethlehem, PA 18018

#### Notes:

1. Application for the ENERGY STAR must be submitted to EPA within 4 months of the Period Ending date. Award of the ENERGY STAR is not final until approval is received from EPA.
2. The EPA Energy Performance Rating is based on total source energy. A rating of 75 is the minimum to be eligible for the ENERGY STAR.
3. Values represent energy consumption, annualized to a 12-month period.
4. Values represent energy intensity, annualized to a 12-month period.
5. Based on Meeting ASHRAE Standard 62 for ventilation for acceptable indoor air quality, ASHRAE Standard 55 for thermal comfort, and IESNA Lighting Handbook for lighting quality.





# STATEMENT OF ENERGY PERFORMANCE

## Central Office

**Building ID:** 2803589  
**For 12-month Period Ending:** May 31, 2011<sup>1</sup>  
**Date SEP becomes ineligible:** N/A

**Date SEP Generated:** November 28, 2011

**Facility**  
 Central Office  
 601 Knight Road  
 Ambler, PA 19002

**Facility Owner**  
 Wissahickon School District  
 601 Knight Road  
 Ambler, PA 19002

**Primary Contact for this Facility**  
 Ronald Saurman  
 601 Knight Road  
 Ambler, PA 19002

**Year Built:** 1966  
**Gross Floor Area (ft²):** 30,000

**Energy Performance Rating<sup>2</sup> (1-100)** 31

### Site Energy Use Summary<sup>3</sup>

Electricity - Grid Purchase(kBtu)	1,569,707
Fuel Oil (No. 2) (kBtu)	0
Natural Gas (kBtu) <sup>4</sup>	1,746,110
Total Energy (kBtu)	3,315,817

### Energy Intensity<sup>5</sup>

Site (kBtu/ft²/yr)	111
Source (kBtu/ft²/yr)	236

**Emissions (based on site energy use)**  
 Greenhouse Gas Emissions (MtCO<sub>2</sub>e/year) 315

**Electric Distribution Utility**  
 PECO Energy Co [Exelon Corp]

### National Median Comparison

National Median Site EUI	90
National Median Source EUI	192
% Difference from National Median Source EUI	23%
Building Type	Office

Stamp of Certifying Professional

Based on the conditions observed at the time of my visit to this building, I certify that the information contained within this statement is accurate.

### Meets Industry Standards<sup>6</sup> for Indoor Environmental Conditions:

Ventilation for Acceptable Indoor Air Quality	N/A
Acceptable Thermal Environmental Conditions	N/A
Adequate Illumination	N/A

### Certifying Professional

Arif Fazil  
 One East Broad Street Suite 310  
 Bethlehem, PA 18018

#### Notes:

1. Application for the ENERGY STAR must be submitted to EPA within 4 months of the Period Ending date. Award of the ENERGY STAR is not final until approval is received from EPA.
2. The EPA Energy Performance Rating is based on total source energy. A rating of 75 is the minimum to be eligible for the ENERGY STAR.
3. Values represent energy consumption, annualized to a 12-month period.
4. Values represent energy intensity, annualized to a 12-month period.
5. Based on Meeting ASHRAE Standard 62 for ventilation for acceptable indoor air quality, ASHRAE Standard 55 for thermal comfort, and IESNA Lighting Handbook for lighting quality.



# STATEMENT OF ENERGY PERFORMANCE

## Bus Garage

Building ID: 2803587  
 For 12-month Period Ending: May 31, 2011<sup>1</sup>  
 Date SEP becomes ineligible: N/A

Date SEP Generated: November 28, 2011

**Facility**  
 Bus Garage  
 800 School Road  
 Blue Bell, PA 19422

**Facility Owner**  
 Wissahickon School District  
 601 Knight Road  
 Ambler, PA 19002

**Primary Contact for this Facility**  
 Ronald Saurman  
 601 Knight Road  
 Ambler, PA 19002

**Year Built:** 1956  
**Gross Floor Area (ft<sup>2</sup>):** 9,000

**Energy Performance Rating<sup>2</sup> (1-100)** N/A

### Site Energy Use Summary<sup>3</sup>

Electricity - Grid Purchase(kBtu)	451,112
Natural Gas (kBtu) <sup>4</sup>	692,915
Total Energy (kBtu)	1,144,027

### Energy Intensity<sup>5</sup>

Site (kBtu/ft <sup>2</sup> /yr)	127
Source (kBtu/ft <sup>2</sup> /yr)	248

**Emissions** (based on site energy use)  
 Greenhouse Gas Emissions (MtCO<sub>2</sub>e/year) 101

**Electric Distribution Utility**  
 PECO Energy Co [Exelon Corp]

### National Median Comparison

National Median Site EUI	45
National Median Source EUI	96
% Difference from National Median Source EUI	158%
Building Type	Service (Vehicle Repair/Service, Postal Service)

Stamp of Certifying Professional

Based on the conditions observed at the time of my visit to this building, I certify that the information contained within this statement is accurate.

### Meets Industry Standards<sup>6</sup> for Indoor Environmental Conditions:

Ventilation for Acceptable Indoor Air Quality	N/A
Acceptable Thermal Environmental Conditions	N/A
Adequate Illumination	N/A

### Certifying Professional

Arif Fazil  
 One East Broad Street Suite 310  
 Bethlehem, PA 18018

#### Notes:

1. Application for the ENERGY STAR must be submitted to EPA within 4 months of the Period Ending date. Award of the ENERGY STAR is not final until approval is received from EPA.
2. The EPA Energy Performance Rating is based on total source energy. A rating of 75 is the minimum to be eligible for the ENERGY STAR.
3. Values represent energy consumption, annualized to a 12-month period.
4. Values represent energy intensity, annualized to a 12-month period.
5. Based on Meeting ASHRAE Standard 62 for ventilation for acceptable indoor air quality, ASHRAE Standard 55 for thermal comfort, and IESNA Lighting Handbook for lighting quality.

**WISSAHICKON SCHOOL DISTRICT - CAPITAL IMPROVEMENTS PLAN**  
**SUMMARY OF EDUCATIONAL FACILITIES PROJECT COST COMPARISONS**

Building (1)	Size (S.F.) (2)	Building History (3)	(2)			(3)		(1)		ENERGY USE INDEX (EUI) = Total Kbtu/SF/YR (4)
			Renovation @ \$140/s.f. +30% Fees & Cont (4)	Replacement @ \$200/s.f +30% Fees & Cont (5)	Capital Improvements (6)	Asbestos Abatement (7)	Total Cap Improve Including Asbestos (8)	Total Cap Improve Including Asbestos as % of Renovations (9)		
High School	314,000	Built 1961 Add/Renov 1974, 2000	\$57,148,000	\$81,640,000	\$30,220,408	N/A		53%	79 <sup>5</sup>	
Middle School	182,000	Built 1974 Add/Renov 1991, 2005	\$33,124,000	\$47,320,000	\$17,598,552	N/A		53%	101 <sup>5</sup>	
Blue Bell	61,000	Built 1955 Add/Renov 1957, 1988, 2000	\$11,102,000	\$15,860,000	\$7,998,978	N/A		72%	76	
Lower Gwynedd	82,000	Built 1996	\$14,924,000	\$21,320,000	\$6,084,163	N/A		41%	113 <sup>5</sup>	
Mattison Avenue	28,000	Built 1966 Add/Renov 2002	\$5,096,000	\$7,280,000	\$3,436,586	N/A		67%	91	
Shady Grove	102,000	Built 1956 Add.Renov 1975, 1989, 1990	\$18,564,000	\$26,520,000	\$10,732,787	N/A		58%	86	
Stony Creek	60,000	Built 1963 Add/Renov 1988, 2001	\$10,920,000	\$15,600,000	\$8,565,895	\$60,000		79%	79	
Central Office	30,000	Built 1966 Add/Renov 2005	\$5,460,000	\$7,800,000	\$1,700,186	\$35,000		32%	111 <sup>6</sup>	
Bus Garage	9,000	Built 1956 add/Renov 1975	\$1,638,000	\$2,340,000	\$2,042,118	N/A		125%	127	
	868,000		\$157,976,000	\$225,680,000	\$88,379,673	\$95,000				

**IMPORTANT NOTE:**

This table is for discussion purposes only. It provides a general comparison between various project cost factors used to evaluate decisions regarding individual improvements, renovations and replacement.

- (1) - If percentage is approximately 60% consider total renovation; if 70% evaluate renovation vs. replacement based on other factors such as space needs.
- (2) The building replacement and renovation cost is an estimated average construction cost with cost estimates projected to the end of 2011. The construction costs shown for each school building excludes all costs associated with land allocation & acquisition, environmental studies, asbestos abatement, site development, permits, zoning approvals, etc. which account for potential additional costs.
- (3) The costs associated with the asbestos abatement at Stony Creek Elementary School and the Central Administration Building are allowance estimates based on quantities of asbestos remaining at these buildings as provided by the School District. The full AHERA report can be viewed at the District's Central Administration Office.
- (4) A measure of schools energy use based on a standard unit to use as a comparison against other facilities throughout the nation. The median is 68.7. Numbers lower than this indicate the facility's energy consumption is better than average. Numbers higher than this indicate the energy consumption for the facility is below average. Numbers higher than 98.7 indicate that the building is in the lower 25 percentile. Numbers lower than 48.7 indicate that the building is in the upper 25 percentile. See Tab 9, for full explanation of this indicator.
- (5) EUI adjustment is required because the gas meter and electric meter is shared and the costs are pro-rated by square foot.
- (6) EUI adjustment is required because the gas meter is shared with the High School, Middle School and Lower Gwynedd.

## ELEMENTARY SCHOOLS

Jun 30, 2011

Building Capacity Comparison		Present		Potential*	
• PDE PlanCon FTE (PDE)		PDE		PDE	
• District class size guidelines (District)			District		District
averaged as follows:					
Grades K-1 = 20 students					
2-3 = 23 students					
4-5 = 25 students					
<b>Blue Bell Elementary • Grades K-5</b>		<b>** 500</b>	<b>425</b>	<b>525</b>	<b>471</b>
Current enrollment: approx. 425	<i>Surplus =</i>	75	0	100	46
<b>Lower Gwynedd Elementary • K-5</b>		<b>625</b>	<b>562</b>	<b>650</b>	<b>585</b>
500		125	62	150	85
<b>Mattison Avenue • K-3</b>		<b>225</b>	<b>195</b>	<b>250</b>	<b>218</b>
157		68	38	93	61
<b>Shady Grove Elementary • K-5</b>		<b>575</b>	<b>524</b>	<b>750</b>	<b>662</b>
503		72	21	247	159
<b>Stony Creek • K-5</b>		<b>475</b>	<b>425</b>	<b>550</b>	<b>471</b>
386		89	39	164	85

\* The Potential capacity reflects the increase gained by recapturing currently underutilized classrooms. These include spaces 660 square feet and larger presently assigned to the IU, used by guidance, enrichment, health, head start, and additional art or music rooms. The Potential District capacity assumes an average of 23 students per recaptured classroom.

\*\* The Present capacity of Blue Bell reflects a reduction of one classroom to account for the fact that Music is housed in the temporary building. This necessitates displacing a room within the main building.

**SECONDARY SCHOOLS***Jun 30, 2011*

<b>Building Capacity Comparison</b>		<b>Present</b>	
• PDE PlanCon FTE (PDE)		PDE	District *
<b>Middle School • Grades 6-8</b>		<b>1543</b>	<b>1286</b>
Current enrollment: approx. 1,085	Surplus =	458	201
<b>High School • 9-12</b>		<b>1865</b>	<b>1658</b>
Current enrollment: approx. 1,490		375	168

\* The Pennsylvania Department of Education (PDE) reduces the capacity of secondary schools by a 10% factor because students are not in every classroom for the entire day. The District Capacity uses a 25% reduction factor for the Middle School and a 20% reduction factor for the High School that represents the actual functional capacity for each specific school.

Enrollment Projections  
Prepared by the Pennsylvania Department of Education  
(717) 787-2644

Wissahickon SD 1-23-46-930-3

YEAR	K	1	2	3	4	5	6	7	8	9	10	11	12	Total
2005-2006	317	323	348	345	364	355	361	362	383	424	345	370	354	4651
2006-2007	300	328	316	346	343	343	357	359	364	390	396	347	359	4548
2007-2008	298	311	331	334	356	349	348	368	369	364	380	392	340	4540
2008-2009	298	307	314	333	335	359	354	350	383	374	359	358	383	4507
2009-2010	301	313	313	320	346	328	351	366	363	384	373	359	364	4481
P R O J E C T I O N S														
2010-2011	275	327	319	319	325	341	329	357	376	366	383	367	354	4438
2011-2012	258	288	333	325	324	321	342	334	367	379	365	377	362	4375
2012-2013	250	270	294	339	330	320	322	348	343	370	378	359	372	4295
2013-2014	249	262	275	300	345	326	321	327	358	346	369	372	354	4204
2014-2015	243	260	267	280	305	340	327	326	336	361	345	363	367	4120
2015-2016	238	254	265	272	285	301	341	332	335	339	360	340	358	4020
2016-2017	233	249	259	270	276	281	302	347	341	338	338	354	335	3923
2017-2018	228	244	254	264	274	272	282	307	357	344	337	333	349	3845
2018-2019	224	239	249	259	268	270	273	287	316	360	343	332	328	3748
2019-2020	219	234	244	254	263	264	271	277	295	319	359	338	327	3664

Various Grade Groupings of the Enrollment Projections

YEAR	K-4	K-5	K-6	K-7	K-8	K-9	K-12	5-8	6-8	7-8	6-9	7-9	7-12	8-12	9-12	10-12
2009-2010	1593	1921	2272	2638	3001	3385	4481	1408	1080	729	1464	1113	2209	1843	1480	1096
2014-2015	1355	1695	2022	2348	2684	3045	4120	1329	989	662	1350	1023	2098	1772	1436	1075
2019-2020	1214	1478	1749	2026	2321	2640	3664	1107	843	572	1162	891	1915	1638	1343	1024
2009-2010 to 2019-2020	-379	-443	-523	-612	-680	-745	-817	-301	-237	-157	-302	-222	-294	-205	-137	-72
Change	-23.8	-23.1	-23.0	-23.2	-22.7	-22.0	-18.2	-21.4	-21.9	-21.5	-20.6	-19.9	-13.3	-11.1	-9.3	-6.6

## Notes:

1. Excludes students in full-time out-of-district special education, comprehensive AVTs, charter schools, state-owned schools, consortium-operated alternative high schools, and juvenile correctional institutions.
2. Enrollment projections beyond five years are subject to errors in the lower grades resulting from inconsistencies between actual and projected live births and should be reviewed closely.
3. Four year old kindergarten students, if any, added to K enrollments.
4. Elementary and secondary ungraded students were distributed among the grades. Therefore, enrollments by grade may differ from those reported by the local education agencies.

## Sources:

1. Public School Enrollment Report (ESPE) and Pennsylvania Information Management System (PIMS)
2. Resident Live Birth file, 2008, supplied by the Division of Health Statistics, Pennsylvania Department of Health. The Department of Health specifically disclaims responsibility for any analyses, interpretations or conclusions.



## Wissahickon SD 1-23-46-930-3

## Retention Rates by Grade by Year

	Birth		1	2	3	4	5	6	7	8	9	10	11
	to	K											
2005-2006 to 2006-2007	0.78947	0.82620	0.97833	0.99425	0.99420	0.94231	1.00563	0.99446	1.00552	1.01828	0.93396	1.00580	0.97027
2006-2007 to 2007-2008	0.76410	0.81842	1.00915	1.05696	1.02890	1.01749	1.01458	1.03081	1.02786	1.00000	0.97436	0.98990	0.97983
2007-2008 to 2008-2009	0.88166	0.78718	1.00965	1.00604	1.00299	1.00843	1.01433	1.00575	1.04076	1.01355	0.98626	0.94211	0.97704
2008-2009 to 2009-2010	0.77179	0.92604	1.01954	1.01911	1.03904	0.97910	0.97772	1.03390	1.03714	1.00261	0.99733	1.00000	1.01676

## Rates Used in Projection Enrollments

0.80175	0.83946	1.01954	1.01908	1.01628	0.98683	1.00306	1.01623	1.02782	1.00861	0.99733	0.98445	0.98597
---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------

## Average Retention Rates for All Years

0.80175	0.83946	1.00416	1.01908	1.01628	0.98683	1.00306	1.01623	1.02782	1.00861	0.97297	0.98445	0.98597
---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------

Year	Births	Year	Births	Year	Births	Year	Births
2000	397	2001	380	2002	390	2003	338
2005	343	2006	322	2007	312	2008	310
2010	297	2011	291	2012	285	2013	279
						2014	273
							390
							303
							273

# WISSAHICKON SCHOOL DISTRICT FACILITIES STUDY

## ENROLLMENT AND CAPACITY

The following information are excerpts from the "Analysis of Demographics and Community Growth Patterns and Projections of Public School Enrollments in the Wissahickon School District" for the School year 2010-2011 prepared by the Pennsylvania Economy League.

To review the complete text of this study, you may contact the Superintendents Office located at the Wissahickon School District's Central Administration Building at (215) 619-8000.

# CHAPTER 1

## GENERAL CHARACTERISTICS

The Wissahickon School District is located in the central/eastern portion of Montgomery County, it encompasses approximately 23.0 square miles, and it is comprised of Ambler Borough and the townships of Lower Gwynedd and Whitpain. (See Map 1-1.)

Between 1980 and 2000 the district experienced an increase in population from 25,302 to 35,410—a gain of 10,108 or 39.9 percent. The population of the district rose in both of these decades with slightly more than two-thirds of the overall growth occurring in the 1980s. During this 20-year period, Lower Gwynedd Township increased by 3,520 (51.0 percent) and Whitpain Township grew by 6,790 (57.7 percent). Ambler Borough recorded a population loss of 202 (3.0 percent).

As a point of reference Montgomery County's population rose from 643,621 in 1980 to 750,097 in 2000, or by 106,476 or 16.5 percent. Wissahickon's rate of growth during this period was a little more than twice that of the county. Unlike the district, the population of the county as a whole rose faster in the 1990s than in the 1980s. (See Table 1-1 and Graph 1-2.)

Table 1-1

### WISSAHICKON SCHOOL DISTRICT

#### Population Trend 1980 to 2000

	1980	1990	2000	Change 1980 to 2000		Change 1980 to 1990		Change 1990 to 2000	
				#	%	#	%	#	%
Ambler Borough	6,628	6,609	6,426	-202	-3.0	-19	-0.3	-183	-2.8
Lower Gwynedd Township	6,902	9,958	10,422	3,520	51.0	3,056	44.3	464	4.7
Whitpain Township	<u>11,772</u>	<u>15,673</u>	<u>18,562</u>	<u>6,790</u>	<u>57.7</u>	<u>3,901</u>	<u>33.1</u>	<u>2,889</u>	<u>18.4</u>
District Total	25,302	32,240	35,410	10,108	39.9	6,938	27.4	3,170	9.8
Montgomery County	643,621	678,111	750,097	106,476	16.5	34,490	5.4	71,986	10.6

SOURCE: U.S. Bureau of the Census (Revised).

During the 1980s Wissahickon recorded a gain in population of 6,938 or 27.4 percent. Lower Gwynedd grew by 3,056 (44.3 percent) and Whitpain Township rose by 3,901 (33.1

percent); Ambler Borough lost 19 residents (0.3 percent). The population of the county was up by 34,490 or 5.4 percent in the 1980s. The rate of increase in the Wissahickon School District was a little more than five times that of the county during this period.

Between 1990 and 2000, the district's population rose by 3,170 or 9.8 percent. Lower Gwynedd increased by 464 (4.7 percent) and Whitpain Township grew by 2,889 (18.4 percent). Once again, Ambler Borough recorded a decrease in population (183 or 2.8 percent). During the decade of the 1990s Montgomery County's population grew by 71,986 or 10.6 percent—a slightly faster pace of growth than in the district.

The Wissahickon School District's population in the under 18 age group increased by 1,408 or 19.7 percent between 1990 and 2000; the number of residents age 18 to 64 grew by 1,069 or 5.5 percent; and those 65 and over rose by 693 or 12.5 percent. In 2000, 24.2 percent of the population in the district was under 18 years of age; 58.2 percent was between the ages of 18 and 64; and 17.6 percent was age 65 and over. The proportion of Wissahickon's population in the under 18 age group and those 65 and over increased between 1990 and 2000; conversely, the proportion of those between the ages 18 and 64 fell.

In 2000, the proportion of the district's population under the age of 18 (24.2 percent) was just slightly above the county figure (24.1 percent) and the district's population age 65 and over (17.6 percent) was more noticeably higher than that of the county (14.9 percent). The proportion of Wissahickon's 2000 population between the ages of 18 and 64 (58.2 percent) was below the county figure (60.9 percent). In 2000, the median age in the district was 41.4 (up from 38.1 in 1990); countywide, the median was 38.2 (up from 35.8 in 1990). Statewide, the median age in 2000 was 38.0 (up from 35.0 in 1990). (See Table 1-2.)

U.S. Census Bureau estimates as of July 2009, suggest that the population of the Wissahickon School District had grown by 1,164 persons or 3.3 percent since 2000. Increases were estimated to have occurred Lower Gwynedd Township (1,041 or 10.0 percent) and Whitpain Township (332 or 1.8 percent). Ambler Borough was estimated to have experienced a decrease of 209 residents (3.3 percent).

Table 1-2

WISSAHICKON SCHOOL DISTRICT

Population by Age Group  
1990 to 2000

	1990			2000			Change in WSD Population 1990 to 2000	
	Wissahickon SD	County	% of Total	Wissahickon SD	County	% of Total	#	%
	#	% of Total		#	% of Total			
Under 18	7,151	22.2	22.5	8,559	24.2	24.1	1,408	19.7
18-64	19,545	60.6	62.4	20,614	58.2	60.9	1,069	5.5
65 & Over	5,544	17.2	15.0	6,237	17.6	14.9	693	12.5
<b>Total</b>	<b>32,240</b>	<b>100.0</b>	<b>99.9</b>	<b>35,410</b>	<b>100.0</b>	<b>99.9</b>	<b>3,170</b>	<b>9.8</b>

Note: Not all numbers may add due to rounding.

SOURCE: U. S. Bureau of the Census (Revised).

Montgomery County's population was estimated to have risen by 32,242 or 4.3 percent between 2000 and July of 2009. The district's rate of growth during this period—based on these estimates—was slightly less than that of the county. (See Table 1-3 and Graph 1-1.)

Table 1-3

WISSAHICKON SCHOOL DISTRICT

Actual and Estimated Population  
2000 to 2009.

	Actual 2000	Estimate 2009	Change 2000 to 2009	
			#	%
Ambler Borough	6,426	6,217	-209	-3.3
Lower Gwynedd Township	10,422	11,463	1,041	10.0
Whitpain Township	18,562	18,894	332	1.8
<b>District Total</b>	<b>35,410</b>	<b>36,574</b>	<b>1,164</b>	<b>3.3</b>
<b>Montgomery County</b>	<b>750,097</b>	<b>782,339</b>	<b>32,242</b>	<b>4.3</b>

SOURCE: U.S. Bureau of the Census (Revised).

According to projections prepared by the Delaware Valley Regional Planning Commission (2007), the district's population is expected to rise from 35,410 in 2000 to 38,733 in 2020 (or by 3,233 or 9.4 percent). All of the district's municipalities are projected to record increases during this period. Ambler Borough is projected to grow by 690 (10.7 percent); Lower Gwynedd Township, by 1,146 (11.0 percent); and Whitpain Township, by 1,487 (8.0 percent). Based on the 2009 Census estimate for the district (an increase of 1,164 or 3.3 percent since 2000), it would appear that the district is well behind the straight line pace necessary to reach the projected level for 2020.

The population of the county is projected to rise from 750,097 in 2000 to 842,452 in 2020, a gain of 92,355 or 12.3 percent. The district's projected rate of increase during this period is somewhat lower than that of the county. (See Table 1-4 and Graph 1-1.)

Table 1-4

WISSAHICKON SCHOOL DISTRICT

Actual and Projected Population  
2000 to 2020

	Actual 2000	Projected 2020	Change 2000 to 2020	
			#	%
Ambler Borough	6,426	7,116	690	10.7
Lower Gwynedd Township	10,422	11,568	1,146	11.0
Whitpain Township	<u>18,562</u>	<u>20,049</u>	<u>1,487</u>	8.0
<b>District Total</b>	<b>35,410</b>	<b>38,733</b>	<b>3,323</b>	<b>9.4</b>
<b>Montgomery County</b>	<b>750,097</b>	<b>842,452</b>	<b>92,355</b>	<b>12.3</b>

SOURCE: Actual: U.S. Bureau of the Census (Revised)  
Projected: Delaware Valley Regional Planning Commission (2007).





Public school enrollments over the next 10 years will be dependent more on recent and future births, migration patterns, the age composition of the child population, and the role of nonpublic education than on the overall population pattern. If recent experience serves as a valid guide, the trends in future public school enrollments will not necessarily directly mirror the pace of population growth.

## CHAPTER 5

### ENROLLMENT TRENDS AND PROJECTIONS

#### Past Enrollment Trends

Enrollments in the Wissahickon School District total 4,441 in 2010-11 and are 76 pupils (1.7 percent) lower than in 2000-01. (Note: Enrollment figures provided by the district include just resident pupils educated in district classrooms on a full-time or part-time basis.) Decreases in pupil population were recorded in six of the past 10 years including each of the past five; increases were experienced in four years during this period. The largest annual decline (61 pupils or 1.3 percent) occurred in 2003-04; the smallest yearly loss (14 pupils or 0.3 percent) was in the current school year. The increases in enrollment ranged from three (0.1 percent) in 2001-02 to 76 (1.7 percent) in 2002-03. The district's pupil count rose by a net of 66 or 1.5 percent during the period 2000-01 to 2005-06 (a net gain of 13 pupils or 0.3 percent yearly, on average); in the five most recent years enrollments fell by 142 or 3.1 percent (an average annual decrease of 28 pupils or 0.6 percent). (See Tables 5-1 and 5-2 and Graph 5-1.)

Table 5-1

#### WISSAHICKON SCHOOL DISTRICT

##### Total Enrollment (Grades K-12)<sup>1/</sup> 2000-01 to 2010-11

<u>School Year</u>	<u>Enrollment K-12</u>	<u>Change From Previous Year</u>	
		<u>#</u>	<u>%</u>
2000-01	4,517	—	—
2001-02	4,520	3	0.1
2002-03	4,596	76	1.7
2003-04	4,535	-61	-1.3
2004-05	4,546	11	0.2
2005-06	4,583	37	0.8
2006-07	4,554	-29	-0.6
2007-08	4,531	-23	-0.5
2008-09	4,483	-48	-1.1
2009-10	4,455	-28	-0.6
2010-11	4,441	-14	-0.3
Change 2000-01 to 2010-11		-76	-1.7

<sup>1/</sup> Based on October 1 figures as provided by the district.

Table 5-2

## WISSAHICKON SCHOOL DISTRICT

Total Enrollments by Grade <sup>1/</sup>  
2000-01 to 2010-11

Year	K	1	2	3	4	5	Total K-5	6	7	8	Total 6-8	9	10	11	12	Total 9-12	Total K-12
2000-01	288	300	338	370	399	362	2,057	390	393	365	1,148	342	353	366	311	1,312	4,517
2001-02	322	324	328	337	374	389	2,074	363	390	386	1,139	350	335	332	290	1,307	4,520
2002-03	308	346	342	341	355	376	2,068	401	364	390	1,155	404	330	327	312	1,373	4,596
2003-04	310	329	349	342	351	344	2,025	377	397	364	1,138	386	359	318	309	1,372	4,535
2004-05	291	343	331	355	344	352	2,016	338	380	402	1,120	352	388	359	311	1,410	4,546
2005-06	310	318	346	337	355	350	2,016	358	358	378	1,094	411	343	370	349	1,473	4,583
2006-07	300	328	316	346	343	343	1,976	357	359	364	1,080	390	396	351	361	1,498	4,554
2007-08	297	313	325	332	359	343	1,969	348	372	367	1,087	361	383	388	343	1,475	4,531
2008-09	297	305	313	329	330	355	1,929	355	350	378	1,083	374	357	360	380	1,471	4,483
2009-10	301	311	309	318	337	322	1,898	351	367	362	1,080	384	372	357	364	1,477	4,455
2010-11	323	327	312	326	324	332	1,944	326	367	357	1,050	358	359	370	360	1,447	4,441

## Pupil Change

2000-01 to	35	27	-26	-44	-75	-30	-113	-64	-26	-8	-98	16	6	64	49	135	-76
2010-11																	

## Percent Change

2000-01 to	12.2	9.0	-7.7	-11.9	-18.8	-8.3	-5.5	-16.4	-6.6	-2.2	-8.5	4.7	1.7	20.9	15.8	10.3	-1.7
2010-11																	

<sup>1/</sup> Based on October 1 figures as provided by the district. Enrollments include just resident pupils educated in district classrooms on a full-time or part-time basis.

Wissahickon's elementary enrollments (grades K-5) in 2010-11 are 113 pupils or 5.5 percent below the 2000-01 level. During this period the pupil count decreased in seven years, increased in two years, and remained unchanged in one year (2005-06). The largest decline in enrollments (43 or 2.1 percent) was experienced in 2003-04; the smallest drop (six pupils or 0.3 percent) was in 2002-03. In the current school year enrollments in grades K-5 rose 46 or 2.4 percent; the other increase was recorded in 2001-02 (17 or 0.8 percent). Elementary enrollments were down by a net of 41 or 2.0 percent during the period 2000-01 to 2005-06 (a net drop of eight pupils or 0.4 percent yearly, on average); in the five most recent years enrollments in these grades fell by a net of 72 or 3.6 percent (or an average annual net loss of 14 pupils or 0.7 percent). (See Tables 5-2 and 5-3 and Graph 5-2.)

Table 5-3

## WISSAHICKON SCHOOL DISTRICT

Elementary Enrollment (Grades K-5)<sup>1/</sup>  
2000-01 to 2010-11

<u>School Year</u>	<u>Enrollment K-5</u>	<u>Change From Previous Year</u>	
		<u>#</u>	<u>%</u>
2000-01	2,057	—	—
2001-02	2,074	17	0.8
2002-03	2,068	-6	-0.3
2003-04	2,025	-43	-2.1
2004-05	2,016	-9	-0.4
2005-06	2,016	NC	NC
2006-07	1,976	-40	-2.0
2007-08	1,969	-7	-0.4
2008-09	1,929	-40	-2.0
2009-10	1,898	-31	-1.6
2010-11	1,944	46	2.4
Change, 2000-01 to 2010-11		-113	-5.5

<sup>1/</sup> Based on October 1 figures as provided by the district.

Enrollments in the district's middle school grades (6-8) were down by 98 pupils 8.5 percent between the 2000-01 and 2010-11 school years. Decreases were experienced in all years during this period except 2002-03 (when enrollments increased by 16 or 1.4 percent) and 2007-08 (when they rose by seven or 0.6 percent). The largest annual absolute decline was experienced in the current school year (30 or 2.8 percent); the smallest drop (three pupils or 0.3 percent) was in 2009-10. During the period 2000-01 to 2005-06, middle school enrollments fell by a net of 54 or 4.7 percent (a net loss of 11 pupils or 0.9 percent yearly, on average); in the five most recent years enrollments in these grades dropped by a net of 44 or 4.0 percent (an annual average net decrease of nine pupils or 0.8 percent). (See Tables 5-2 and 5-4 and Graph 5-3.)

Table 5-4

## WISSAHICKON SCHOOL DISTRICT

Middle School Enrollment (Grades 6-8)<sup>1/</sup>  
2000-01 to 2010-11

<u>School Year</u>	<u>Enrollment 6-8</u>	<u>Change From Previous Year</u>	
		<u>#</u>	<u>%</u>
2000-01	1,148	—	—
2001-02	1,139	-9	-0.8
2002-03	1,155	16	1.4
2003-04	1,138	-17	-1.5
2004-05	1,120	-18	-1.6
2005-06	1,094	-26	-2.3
2006-07	1,080	-14	-1.3
2007-08	1,087	7	0.6
2008-09	1,083	-4	-0.4
2009-10	1,080	-3	-0.3
2010-11	1,050	-30	-2.8
Change 2000-01 to 2010-11		-98	-8.5

<sup>1/</sup> Based on October 1 figures as provided by the district.

High school enrollments (grades 9-12) in the Wissahickon School District are 135 pupils (10.3 percent) higher in 2010-11 than in 2000-01. Increases were recorded in five years during this period, and decreases occurred in five years. The largest rise (66 pupils or 5.0 percent) was in 2002-03; the smallest (six pupils or 0.4 percent) was in 2009-10. The largest decrease (30 pupils or 2.0 percent) was experienced in the current school year, and the smallest (one pupil or 0.1 percent) was in 2003-04. High school enrollments rose by a net of 161 or 12.3 percent between 2000-01 and 2005-06 (a net growth of 32 pupils or 2.5 percent yearly, on average); enrollments in these grades, however, were down by a net of 26 or 1.8 percent in the five most recent years (an annual average net decrease of five pupils or 0.4 percent). (See Tables 5-2 and 5-5 and Graph 5-4.)

Table 5-5

## WISSAHICKON SCHOOL DISTRICT

High School Enrollment (Grades 9-12)<sup>1/</sup>  
2000-01 to 2010-11

<u>School Year</u>	<u>Enrollment</u> <u>9-12</u>	<u>Change From</u> <u>Previous Year</u>	
		<u>#</u>	<u>%</u>
2000-01	1,312	-	-
2001-02	1,307	-5	-0.4
2002-03	1,373	66	5.0
2003-04	1,372	-1	-0.1
2004-05	1,410	38	2.8
2005-06	1,473	63	4.5
2006-07	1,498	25	1.7
2007-08	1,475	-23	-1.5
2008-09	1,471	-4	-0.3
2009-10	1,477	6	0.4
2010-11	1,447	-30	-2.0
Change 2000-01 to 2010-11		135	10.3

<sup>1/</sup> Based on October 1 figures as provided by the district.



Based on figures provided by the Wissahickon School District, the reported number of district children attending nonpublic schools (children enrolled in home schools, charter schools, and cyber schools plus just those in private/parochial schools who are transported by the district—that is, exclusive of those who walk or who are transported by their parents or others) fell from 1,713 in 2000-01 to 1,556 in 2010-11, or by 157 or 9.2 percent. Public school enrollments were down by 76 or 1.7 percent during the same period.

The reported number of district residents transported by the district to private/parochial schools totaled 1,532 in 2010-11—162 or 9.6 percent lower than in 2001-02 (the highest point during the period reviewed); the low point of 1,492 occurred in 2007-08). Declines in private/parochial enrollments were recorded six years during this period; increases were recorded in four. The number of district children in charter schools, home schools, and cyber schools rose from 19 in 2001-02 (its lowest point during the review period) to 24 in 2010-11—up by five pupils or 26.3 percent. In the intervening years six increases and four decreases were recorded. Enrollments in these types of schools reached their highest point (46) in 2009-10 and then dropped by 22 (47.8 percent) in the current school year.

On a proportionate basis, in 2001-02 total nonpublic pupils (as defined above) represented 27.5 percent of all district children reported to be in public and nonpublic schools (their highest market share); in 2010-11 the figure was down to 25.9 percent. Nonpublic enrollments recorded their lowest market share during the review period (25.2 percent) in 2002-03. The relationship of nonpublic children to total children in public and nonpublic schools averaged 26.2 percent during the review period.

Conversely, the proportion of children attending public school totaled 72.5 percent in 2000-01 (the lowest level during the period reviewed) and was up to 74.1 percent in the 2010-11 school year. The highest point during this period was 74.8 percent in 2002-03. The relationship of public school children to the total number of children reported to be in public and nonpublic schools averaged 73.8 percent during the period reviewed.

The overall relationship between total public and reported nonpublic enrollments may be affected by any changes over time in the way the number of nonpublic pupils is recorded as well as by any changes over time in the relative number of nonpublic children who are transported by the district to private/parochial schools. However, the figures presented are believed to represent a valid measure of the general relationship between these two groupings of pupils during the

period reviewed—recognizing that the private/parochial figures are limited to those children transported by the district and other nonpublic pupils include just those involved in home schools, charter schools, and cyber schools. If figures on all nonpublic enrollments were available and factored in, the “market share” of the public school system would likely be slightly lower.

The methodology employed to generate the projections of Wissahickon’s enrollments recognizes the impact of district residents attending nonpublic schools and factors in the patterns and events of the past several years and expectations for the next several years. (See Table 5-6.)

Table 5-6

WISSAHICKON SCHOOL DISTRICT

Proportion of District Children Attending Public and Nonpublic Schools  
2000-01 to 2010-11

	WSD Enroll- ments	Nonpublic Enrollments			Grand Total Enroll- ments <sup>2</sup>	WSD as a % of Grand Total <sup>3</sup>	Nonpublic Enrollments as a % of Grand Total <sup>1</sup>
		Private/ Parochial	Charter/Home/ Cyber Schools	Total <sup>1</sup>			
2000-01	4,517	1,694	19	1,713	6,230	↓72.5	↑27.5
2001-02	4,520	1,671	20	1,691	6,211	72.8	27.2
2002-03	4,596	1,520	32	1,552	6,148	↑74.8	↓25.2
2003-04	4,535	1,530	45	1,575	6,110	74.2	25.8
2004-05	4,546	1,517	41	1,558	6,104	74.5	25.5
2005-06	4,583	1,606	37	1,643	6,226	73.6	26.4
2006-07	4,554	1,587	44	1,631	6,185	73.6	26.4
2007-08	4,531	1,492	41	1,533	6,064	74.7	25.3
2008-09	4,483	1,628	42	1,670	6,153	72.9	27.1
2009-10	4,455	1,524	46	1,570	6,025	73.9	26.1
2010-11	4,441	1,532	24	1,556	5,997	74.1	25.9
Change 2000-01 to 2010-11	# -76 % -1.7	-162 -9.6	5 26.3	-157 -9.2	-233 -3.7	—	—

1/ Includes district children enrolled in home schools, charter schools, and cyber schools, plus just those private/parochial school pupils who are transported by the district.

2/ Includes district children enrolled in public schools, home schools, charter schools, and cyber schools, plus just those private/parochial school pupils who are transported by the district.

3/ It should be noted that the overall relationship between cumulative births and total reported enrollments may be influenced not only by migration patterns but also by any changes over time in the way the number of children in nonpublic schools is recorded as well as any changes over time in the relative number of private/parochial pupils who are transported by the district.

Note: Highest point marked by ↑; lowest point marked by ↓.

SOURCE: Wissahickon School District.

Table 5-11

## WISSAHICKON SCHOOL DISTRICT

Total Projected Enrollments by Grade  
2010-11 to 2015-16

Year	K	1	2	3	4	5	Total K-5	6	7	8	Total 6-8	9	10	11	12	Total 9-12	Total K-12
2010-11(actual)	323	327	312	326	324	332	1,944	326	367	357	1,050	358	359	370	360	1,447	4,441
2011-12	276	345	330	323	333	318	1,925	332	339	368	1,039	358	345	358	374	1,435	4,399
2012-13	269	294	348	342	330	327	1,910	318	345	340	1,003	369	345	344	362	1,420	4,333
2013-14	259	287	296	360	349	324	1,875	327	331	346	1,004	341	356	344	347	1,388	4,267
2014-15	269	276	289	307	368	342	1,851	334	340	332	996	347	329	355	347	1,378	4,225
2015-16	264	287	278	299	314	361	1,803	342	337	341	1,020	333	335	328	358	1,354	4,177

## Pupil Change

2010-11 to  
2015-16

	-59	-40	-34	-27	-10	29	-141	16	-30	-16	-30	-25	-24	-42	-2	-93	-264
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## Percent Change

2010-11 to  
2015-16

	-18.3	-12.2	-10.9	-8.3	-3.1	8.7	-7.3	4.9	-8.2	-4.5	-2.9	-7.0	-6.7	-11.4	-0.6	-6.4	-5.9
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Table 5-20

## WISSAHICKON SCHOOL DISTRICT

Alternative Extended Total Enrollment Projections by Grade Based on Births Fixed at 327  
2015-16 to 2020-21

Year	K	1	2	3	4	5	Total K-5	6	7	8	Total 6-8	9	10	11	12	Total 9-12	Total K-12
2015-16	276	287	278	299	314	361	1,815	342	337	341	1,020	333	335	328	358	1,354	4,189
2016-17	276	294	289	288	305	308	1,760	361	356	338	1,055	342	321	334	331	1,328	4,143
2017-18	276	294	296	299	294	299	1,758	308	375	357	1,040	339	330	320	337	1,326	4,124
2018-19	276	294	296	307	305	288	1,766	299	320	376	995	358	327	329	323	1,337	4,098
2019-20	276	294	296	307	314	299	1,786	288	311	321	920	377	345	326	332	1,380	4,086
2020-21	276	294	296	307	314	308	1,795	299	299	312	910	322	364	344	329	1,359	4,064

## Pupil Change

2015-16 to

2020-21

-	7	18	8	0	-53	-20	-43	-38	-29	-110	-11	29	16	-29	5	-125
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## Percent Change

2015-16 to

2020-21

-	2.4	6.5	2.7	0.0	-14.7	-1.1	-12.6	-11.3	-8.5	-10.8	-3.3	8.7	4.9	-8.1	0.4	-3.0
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## Pupil Change

2010-11 to

2020-21

-47	-33	-16	-19	-10	-24	-149	-27	-68	-45	-140	-36	5	-26	-31	-88	-377
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## Percent Change

2010-11 to

2020-21

-14.6	-10.1	-5.1	-5.8	-3.1	-7.2	-7.7	-8.3	-18.5	-12.6	-13.3	-10.1	1.4	-7.0	-8.6	-6.1	-8.5
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# ELEMENTARY SCHOOL OPTIONS

December 6, 2011

OPTION	MATTISON AVENUE	SHADY GROVE	BLUE BELL	STONY CREEK	LOWER GWYNEDD	TOTAL	EXCESS CAPACITY	PROS	CONS
1 Maintain existing configuration. Improve schools as required.	Grades: K-3	Grades: K-5	Grades: K-5	Grades: K-5	Grades: K-5			• No redistricting	<ul style="list-style-type: none"> <li>• 21st Century Schools not achieved</li> <li>• Excess capacity of &gt;10%</li> <li>• No major renovations to any elementary school</li> <li>• No Green improvement</li> </ul>
	Capacity: 218	Capacity: 662	Capacity: 471	Capacity: 471	Capacity: 585	2407	592		
	Enrollment: 157	Enrollment: 503	Enrollment: 425	Enrollment: 386	Enrollment: 500	1815*			
	Estimated Cost: \$3.4 m	Estimated Cost: \$10.7 m	Estimated Cost: \$8.0 m	Estimated Cost: \$8.6 m	Estimated Cost: \$6.1 m	\$36.8 m			
1A Maintain existing configuration. Renovate all schools except Lower Gwynedd. Improve Lower Gwynedd as required.	Grades: K-3	Grades: K-5	Grades: K-5	Grades: K-5	Grades: K-5			<ul style="list-style-type: none"> <li>• No redistricting</li> <li>• Some Green improvement</li> </ul>	<ul style="list-style-type: none"> <li>• 21st Century Schools not achieved</li> <li>• Excess capacity of &gt;10%</li> <li>• Renovations disruptive without swing space</li> </ul>
	Capacity: 218	Capacity: 662	Capacity: 471	Capacity: 471	Capacity: 585	2407	592		
	Estimated Cost: \$7.1 m	Estimated Cost: \$18.0 m	Estimated Cost: \$13.5 m	Estimated Cost: \$13.3 m	Estimated Cost: \$6.1 m	\$58.0 m			
2 Close Mattison Avenue & integrate into Shady Grove and Lower Gwynedd. Improve schools as required. (Transfer 157 students)	Vacate/Sell	Grades: K-5	Grades: K-5	Grades: K-5	Grades: K-5			<ul style="list-style-type: none"> <li>• More efficient bus run</li> <li>• School transition from grades 3-4 eliminated</li> <li>• Better use of excess capacity at SG</li> <li>• Minimal cost with improved efficiency</li> </ul>	<ul style="list-style-type: none"> <li>• Excess capacity of &gt;10%</li> <li>• 21st Century Schools not achieved</li> <li>• Loss of neighborhood school</li> <li>• No major renovation to any elementary school</li> <li>• Potential redistricting</li> <li>• No Green improvement</li> </ul>
		Capacity: 662	Capacity: 471	Capacity: 471	Capacity: 585	2189	374		
		Estimated Cost: \$10.7 m	Estimated Cost: \$8.0 m	Estimated Cost: \$8.6 m	Estimated Cost: \$6.1 m	\$33.4 m			
2A Close Mattison Avenue & integrate into Shady Grove. Renovate Shady Grove (adding capacity). Renovate Blue Bell and Stony Creek. Improve Lower Gwynedd as required. (Transfer 157 students)	Vacate/Sell	Grades: K-5	Grades: K-5	Grades: K-5	Grades: K-5			<ul style="list-style-type: none"> <li>• More efficient bus run</li> <li>• School transition from grades 3-4 eliminated</li> <li>• Better use of excess capacity at SG</li> <li>• Minimal cost with improved efficiency</li> <li>• Improvement toward 21st Century Schools</li> <li>• Some Green improvement</li> </ul>	<ul style="list-style-type: none"> <li>• Excess capacity of &gt;10%</li> <li>• Loss of neighborhood school</li> <li>• Potential redistricting</li> </ul>
		Capacity: 754	Capacity: 471	Capacity: 471	Capacity: 585	2281	466		
		Estimated Cost: \$18.0 m	Estimated Cost: \$13.5 m	Estimated Cost: \$13.4 m	Estimated Cost: \$6.1 m	\$51.0 m			
3 Close Mattison Avenue and Blue Bell; renovate Shady Grove (adding capacity); renovate & add 5 classrooms to Stony Creek; improve Lower Gwynedd. (Transfer 582 students)	Vacate/Sell	Grades: K-5	Vacate/Sell	Grades: K-5	Grades: K-5			<ul style="list-style-type: none"> <li>• Excess capacity of &lt;10%</li> <li>• More efficient bus run</li> <li>• School transition from grades 3-4 eliminated</li> <li>• Better use of excess capacity at SG</li> <li>• More efficient schools</li> <li>• Improvement toward 21st Century Schools</li> <li>• Some Green improvement</li> </ul>	<ul style="list-style-type: none"> <li>• Loss of neighborhood school</li> <li>• Requires redistricting</li> </ul>
		Capacity: 754		Capacity: 586	Capacity: 585	1925	110		
		Estimated Cost: \$18.0 m		Estimated Cost: \$17.7 m	Estimated Cost: \$6.1 m	\$41.8 m			

## ELEMENTARY SCHOOL OPTIONS

July 7, 2011

OPTION	MATTISON AVENUE	SHADY GROVE	BLUE BELL	STONY CREEK	LOWER GWYNEDD	TOTAL	EXCESS CAPACITY	PROS	CONS
3A  Close Mattison Avenue and Blue Bell; renovate Shady Grove (adding capacity); renovate Stony Creek; improve Lower Gwynedd. (Transfer 582 students)	Vacate/Sell	Grades: K-5	Vacate/Sell	Grades: K-5	Grades: K-5			<ul style="list-style-type: none"> <li>Excess capacity of &lt;10%</li> <li>More efficient bus run</li> <li>School transition from grades 3-4 eliminated</li> <li>Better use of excess capacity at SG</li> <li>More efficient schools</li> <li>Improvement toward 21st Century Schools</li> <li>Some Green improvement</li> </ul>	<ul style="list-style-type: none"> <li>Loss of neighborhood school</li> <li>Less swing space for renovation of SC</li> <li>Requires redistricting</li> <li>May not be enough capacity if enrollment does not decline</li> </ul>
		Capacity: 754		Capacity: 471	Capacity: 585	1810	-5		
		Estimated Cost: \$18.0 m		Estimated Cost: \$13.3 m	Estimated Cost: \$6.1 m	\$37.4 m			
4  Close Mattison Avenue and Blue Bell; improve Lower Gwynedd; renovate and add 8 classrooms to Stony Creek; Build new Shady Grove. Demolish existing Shady Grove. (Transfer 582 students)	Vacate/Sell	Grades: K-5	Vacate/Sell	Grades: K-5	Grades: K-5			<ul style="list-style-type: none"> <li>Excess capacity of &lt;10%</li> <li>Better 21st Century facilities</li> <li>More equal school sizes</li> <li>School transition from grades 3-4 eliminated</li> <li>SG inefficiencies addressed</li> <li>More efficient schools</li> <li>Provides good phasing options</li> <li>Better Green improvement</li> </ul>	<ul style="list-style-type: none"> <li>Loss of neighborhood school</li> <li>Requires redistricting</li> <li>May not be enough capacity if enrollment does not decline</li> </ul>
		Capacity: 632		Capacity: 635	Capacity: 585	1852	37		
		Estimated Cost: \$27.8 m		Estimated Cost: \$19.2 m	Estimated Cost: \$6.1 m	\$53.1 m			
5  Same as Option 3A. Build two new Shady Grove Schools housing Grades K-2 and Grades 3-5. Demolish existing Shady Grove. Renovate Stony Creek. (Transfer 582 students)	Vacate/Sell	Grades: K-2	Vacate/Sell					<ul style="list-style-type: none"> <li>Excess capacity of &lt;10%</li> <li>Better 21st Century facilities</li> <li>School transition from grades 3-4 eliminated</li> <li>SG inefficiencies addressed</li> <li>More efficient schools</li> <li>Provides good phasing options</li> <li>Most Green improvement</li> </ul>	<ul style="list-style-type: none"> <li>Loss of neighborhood school</li> <li>Requires redistricting</li> <li>Most expensive</li> </ul>
		Capacity: 450							
		Estimated Cost: \$22.1 m		Grades: K-5	Grades: K-5				
		Grades: 3-5		Capacity: 471	Capacity: 585	1956	141		
		Capacity: 450		Estimated Cost: \$13.3 m	Estimated Cost: \$6.1 m	\$63.6 m			
		Estimated Cost: \$22.1 m							

\*Enrollment quantities are based on the District's PEL study projections for the 2015-16 school year of 1815 students in grades K-5. Current Elementary enrollment for grades K-5 = 1971 students. Elementary enrollment is projected to decrease over the next 10 years.

## SECONDARY SCHOOL OPTIONS

December 6, 2011

OPTION	MIDDLE SCHOOL	HIGH SCHOOL	TOTAL	PROS	CONS
1 Maintain existing configuration. Improve schools as required.	Grades: 6-8	Grades: 9-12		• Least cost	<ul style="list-style-type: none"> <li>• No major renovations to either school</li> <li>• No 21st Century School improvement</li> </ul>
	Capacity: 1286	Capacity: 1658	2944		
	Enrollment: 1055	Enrollment: 1328	2383*		
	Estimated Cost: \$17.6 m	Estimated Cost: \$30.2 m	\$47.8 m		
2 Renovate Middle School and High School	Grades: 6-8	Grades: 9-12		<ul style="list-style-type: none"> <li>• Better 21st Century School improvement</li> <li>• Some Green improvement</li> </ul>	<ul style="list-style-type: none"> <li>• Most inefficiencies and adjacencies remain in place</li> <li>• Many windowless CR in MS</li> <li>• Phasing is disruptive</li> </ul>
	Capacity: 1286	Capacity: 1658	2944		
	Enrollment: 1055	Enrollment: 1328	2383*		
	Estimated Cost: \$33.3 m	Estimated Cost: \$55.8 m	\$89.1 m		
2A Renovate Middle School and High School. Convert MS pool into Auditorium and add a new pool at HS.	Grades: 6-8	Grades: 9-12		<ul style="list-style-type: none"> <li>• Better 21st Century School improvement</li> <li>• Some Green improvement</li> </ul>	<ul style="list-style-type: none"> <li>• Most inefficiencies and adjacencies remain in place</li> <li>• Many windowless CR in MS</li> <li>• Phasing is disruptive</li> </ul>
	Capacity: 1286	Capacity: 1658	2944		
	Enrollment: 1055	Enrollment: 1328	2383*		
	Estimated Cost: \$39.9 m	Estimated Cost: \$64.0 m	\$103.9 m		
3 Build New Middle School adjacent to old. Rebuild High School mostly on footprint of old High School. Improve stadium.	Grades: 6-8	Grades: 9-12		<ul style="list-style-type: none"> <li>• Best 21st Century Schools</li> <li>• Better Green improvement</li> </ul>	<ul style="list-style-type: none"> <li>• Cost</li> <li>• Phased construction of HS</li> </ul>
	Capacity: 1100	Capacity: 1500	2600		
	Enrollment: 1055	Enrollment: 1328	2383*		
	Estimated Cost: \$53.9 m	Estimated Cost: \$96.6 m	\$150.6 m		
3A Renovate Middle School. Convert MS pool into Auditorium. Rebuild High School mostly on footprint of old High School and add a new pool. Improve stadium.	Grades: 6-8	Grades: 9-12		<ul style="list-style-type: none"> <li>• Better 21st Century Schools</li> <li>• Better Green improvement</li> </ul>	<ul style="list-style-type: none"> <li>• Cost</li> <li>• Phasing is disruptive</li> </ul>
	Capacity: 1286	Capacity: 1500	2786		
	Enrollment: 1055	Enrollment: 1328	2383*		
	Estimated Cost: \$39.9 m	Estimated Cost: \$96.6 m	\$136.6 m		

SECONDARY SCHOOL OPTIONS

December 6, 2011

OPTION	MIDDLE SCHOOL	HIGH SCHOOL	TOTAL	PROS	CONS
4	Build New Middle School adjacent to old. Build a new High School adjacent to old High School on the Stadium & parking area. Rebuild stadium.	Grades: 6-8	Grades: 9-12		<ul style="list-style-type: none"><li>Better 21st Century Schools</li><li>Best Green improvement</li><li>Safest campus circulation</li></ul> <ul style="list-style-type: none"><li>Cost</li><li>New stadium resistance</li></ul>
		Capacity: 1100	Capacity: 1500	2600	
		Enrollment: 1055	Enrollment: 1328	2383*	
		Estimated Cost: \$53.9 m	Estimated Cost: \$96.6 m	\$150.5 m	
4A	Build New Middle School adjacent to old. Build a new High School mostly on the existing High School site without saving or renovating the existing facility. Improve the stadium.	Grades: 6-8	Grades: 9-12		<ul style="list-style-type: none"><li>Better 21st Century Schools</li><li>Best Green improvement</li><li>Improved campus circulation</li></ul> <ul style="list-style-type: none"><li>Cost</li><li>Phased construction of HS</li></ul>
		Capacity: 1100	Capacity: 1500	2600	
		Enrollment: 1055	Enrollment: 1328	2383*	
		Estimated Cost: \$53.9 m	Estimated Cost: \$93.3 m	\$147.3 m	

\* Enrollment quantities are based on the District's PEL study projections for the 2016-17 school year of 2383 students in grades 6-12; 6-8=1055; 9-12=1328. Current enrollment for grades 6-8 = 1085; 9-12 = 1490; 6-12 = 2575. Secondary enrollment is projected to decrease over the next 10 years.

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**SECTION II**

**PART I   ELEMENTARY SCHOOL OPTIONS**

# **OPTION 1**

## **Detailed Construction Options and Cost Estimates**

### **Elementary School Options Summary**

#### **OPTION 1**

**Description:**

Maintain the existing school configuration of grade structure and number of schools. Improve each facility as required with capital project improvements over a 10 year time frame.

**Estimated Cost:**

Mattison Avenue Elementary School Improvements *	\$	3,436,586
Shady Grove Elementary School Improvements *	\$	10,732,787
Blue Bell Elementary School Improvements *	\$	7,998,978
Stony Creek Elementary School Improvements *	\$	8,565,895
Lower Gwynedd Elementary School Improvements *	\$	6,084,163

**Total Estimated Cost:** \$ 36,818,409

\* See Capital Improvements Summary for detailed costs.

**Pros:**

- No redistricting is required.

**Cons:**

- 21<sup>st</sup> Century Schools are not achieved.
- There is an excess capacity of greater than 10% of the projected enrollment.
- No major renovations are planned for any elementary school.
- There are no Green building, sustainable and energy efficient improvements.



# **OPTION 1A**

## **Detailed Construction Options and Cost Estimates**

### **Elementary School Options Summary**

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#### **OPTION 1A**

##### **Description:**

Maintain existing configuration of grade structure and number of schools. Renovate each elementary school except the newest, Lower Gwynedd Elementary School. Improve Lower Gwynedd with capital improvements over a 10 year time frame.

##### **Estimated Cost:**

Mattison Avenue Elementary School Renovation	\$ 7,080,000
Shady Grove Elementary School Renovation	\$ 17,975,640
Blue Bell Elementary School Renovation	\$ 13,489,200
Stony Creek Elementary School Renovation	\$ 13,345,200
Lower Gwynedd Elementary School Improvements *	\$ 6,084,163

**Total Estimated Cost:** \$ 57,974,203

**Net Difference from Elementary Option 1** \$ + 21,155,794

\* See Capital Improvements Summary for detailed costs.

##### **Pros:**

- No redistricting is required.
- Some Green building, sustainable, energy efficient improvements are achieved.

##### **Cons:**

- 21<sup>st</sup> Century Schools are not achieved.
- There is an excess capacity of greater than 10% of the projected enrollment.
- No major renovations are planned for any elementary school.

# WISSAHICKON SCHOOL DISTRICT

## MATTISON AVENUE ELEMENTARY RENOVATION

June 30, 2011

### Description

Renovate existing facility.

### Summary of Construction Costs

#### New Construction

Building	\$0
Sitework	\$800,000

#### Renovation

Renovate Existing Building (28,000 sf x \$150)	\$4,200,000
Architectural and Engineering Fees	\$300,000
Land Development Engineering Fees	\$200,000
Movable Equipment Cost	\$150,000
<b>Sub-Total</b>	<b>\$5,650,000</b>

### Additional Construction Related Costs

Additional Construction Related Costs (includes geo-technical and environmental reports, site surveys, agency approval fees, printing, project management fees including construction supervision, miscellaneous expenses and contingency)	\$1,130,000
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Financing Costs (including bond discount, legal fees, financial advisor, and printing)	\$300,000
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\$1,430,000

### Estimated Project Cost

**\$7,080,000**

Cost estimates are exclusive of the following:

Sanitary system upgrades, hazardous material removal, and off-site upgrades.

# WISSAHICKON SCHOOL DISTRICT

## SHADY GROVE ELEMENTARY RENOVATION

June 30, 2011

### Description

Renovate existing facility adding capacity for underutilized areas. Expand the Kitchen onto the cafeteria and expand the cafeteria into the stage.

### Summary of Construction Costs

#### New Construction

Building	\$0
Sitework	\$1,500,000

#### Renovation

Renovate Existing Building (91,000 sf x \$130)	\$11,830,000
Architectural and Engineering Fees	\$799,800
Land Development Engineering Fees	\$200,000
Movable Equipment Cost	\$399,900
<b>Sub-Total</b>	<b>\$14,729,700</b>

### Additional Construction Related Costs

Additional Construction Related Costs (includes geo-technical and environmental reports, site surveys, agency approval fees, printing, project management fees including construction supervision, miscellaneous expenses and contingency)	\$2,945,940
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Financing Costs (including bond discount, legal fees, financial advisor, and printing)	\$300,000
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\$3,245,940

### Estimated Project Cost

**\$17,975,640**

#### Cost estimates are exclusive of the following:

Sanitary system upgrades, hazardous material removal, and off-site upgrades.

# WISSAHICKON SCHOOL DISTRICT

## BLUE BELL ELEMENTARY RENOVATION

June 30, 2011

### Description

Renovate existing facility.

### Summary of Construction Costs

#### New Construction

Building	\$0
Sitework	\$1,500,000

#### Renovation

Renovate Existing Building (60,000 sf x \$140)	\$8,400,000
Architectural and Engineering Fees	\$594,000
Land Development Engineering Fees	\$200,000
Movable Equipment Cost	\$297,000
<b>Sub-Total</b>	<b>\$10,991,000</b>

### Additional Construction Related Costs

Additional Construction Related Costs (includes geo-technical and environmental reports, site surveys, agency approval fees, printing, project management fees including construction supervision, miscellaneous expenses and contingency)	\$2,198,200
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Financing Costs (including bond discount, legal fees, financial advisor, and printing)	\$300,000
--	-----------

\$2,498,200

### Estimated Project Cost

**\$13,489,200**

### Cost estimates are exclusive of the following:

Sanitary system upgrades, hazardous material removal, and off-site upgrades.

# WISSAHICKON SCHOOL DISTRICT

## STONY CREEK ELEMENTARY RENOVATION

June 30, 2011

### Description

Renovate the existing facility and add parking.

### Summary of Construction Costs

#### New Construction

Building	\$0
Sitework	\$1,500,000

#### Renovation

Renovate Existing Building (60,000 sf x \$140)	\$8,400,000
Architectural and Engineering Fees	\$594,000
Land Development Engineering Fees	\$80,000
Movable Equipment Cost	\$297,000
<b>Sub-Total</b>	<b>\$10,871,000</b>

### Additional Construction Related Costs

Additional Construction Related Costs (includes geo-technical and environmental reports, site surveys, agency approval fees, printing, project management fees including construction supervision, miscellaneous expenses and contingency)	\$2,174,200
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Financing Costs (including bond discount, legal fees, financial advisor, and printing)	\$300,000
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\$2,474,200

### Estimated Project Cost

**\$13,345,200**

Cost estimates are exclusive of the following:

Sanitary system upgrades, hazardous material removal, and off-site upgrades.

## **OPTION 2**

### **Detailed Construction Options and Cost Estimates**

#### **Elementary School Options Summary**

##### **OPTION 2**

###### **Description:**

Close Mattison Avenue Elementary School and integrate the students into the other elementary schools, mostly at Shady Grove and at Lower Gwynedd Elementary Schools. Maintain all other elementary schools with capital projects improvements over a 10 year time period.

###### **Estimated Cost:**

Mattison Avenue Elementary School	\$	0
Shady Grove Elementary School Improvements *	\$	10,732,787
Blue Bell Elementary School Improvements *	\$	7,998,978
Stony Creek Elementary School Improvements *	\$	8,565,895
Lower Gwynedd Elementary School Improvements *	\$	6,084,163
<b>Total Estimated Cost:</b>	<b>\$</b>	<b>33,381,823</b>
<b>Net Difference from Elementary Option 1</b>	<b>\$</b>	<b>- 3,436,586</b>

\* See Capital Improvements Summary for detailed costs.

###### **Pros:**

- Provides a more efficient bus run.
- The school transition from Grades 3-4 is eliminated between Mattison Avenue and Shady Grove schools.
- There is a better use of excess capacity at the Shady Grove Elementary School.
- Minimal cost with improved efficiency.

###### **Cons:**

- 21<sup>st</sup> Century Schools are not achieved.
- There is an excess capacity of greater than 10% of the projected enrollment.
- There is a loss of a neighborhood school.
- There is no major renovation to any elementary school.
- Potential redistricting.
- No Green building, sustainable energy efficient improvements are achieved.



## **OPTION 2A**

### **Detailed Construction Options and Cost Estimates**

#### **Elementary School Options Summary**

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##### **OPTION 2A**

**Description:**

Same as Option 2 with renovations to Shady Grove adding capacity, Blue Bell, and Stony Creek. Maintain Lower Gwynedd with capital projects improvements over a 10 year time frame.

**Estimated Cost:**

Mattison Avenue Elementary School	\$	0
Shady Grove Elementary School Renovations	\$	17,975,640
Blue Bell Elementary School Renovations	\$	13,489,200
Stony Creek Elementary School Renovations	\$	13,345,200
Lower Gwynedd Elementary School Improvement *	\$	<u>6,084,163</u>

**Total Estimated Cost:** \$ 50,894,203

**Net Difference from Elementary Option 1** \$ + 14,075,794

\* See Capital Improvements Summary for detailed costs.

**Pros:**

- Improvement toward 21<sup>st</sup> Century Schools.
- Provides a more efficient bus run.
- The school transition from Grades 3-4 is eliminated between Mattison Avenue and Shady Grove schools.
- There is better use of excess capacity at the Shady Grove Elementary School.
- Minimal cost with improved efficiency.
- Some Green building, sustainable energy efficient improvements are achieved.

**Cons:**

- There is an excess capacity of greater than 10% of the projected enrollment.
- There is a loss of a neighborhood school.
- Potential redistricting.

## WISSAHICKON SCHOOL DISTRICT

### SHADY GROVE ELEMENTARY RENOVATION

June 30, 2011

#### Description

Renovate existing facility adding capacity for underutilized areas. Expand the Kitchen onto the cafeteria and expand the cafeteria into the stage.

#### Summary of Construction Costs

##### New Construction

Building	\$0
Sitework	\$1,500,000

##### Renovation

Renovate Existing Building (91,000 sf x \$130)	\$11,830,000
Architectural and Engineering Fees	\$799,800
Land Development Engineering Fees	\$200,000
Movable Equipment Cost	\$399,900
<b>Sub-Total</b>	<b>\$14,729,700</b>

#### Additional Construction Related Costs

Additional Construction Related Costs (includes geo-technical and environmental reports, site surveys, agency approval fees, printing, project management fees including construction supervision, miscellaneous expenses and contingency)	\$2,945,940
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Financing Costs (including bond discount, legal fees, financial advisor, and printing)	\$300,000
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\$3,245,940

#### Estimated Project Cost

**\$17,975,640**

#### Cost estimates are exclusive of the following:

Sanitary system upgrades, hazardous material removal, and off-site upgrades.

# WISSAHICKON SCHOOL DISTRICT

## BLUE BELL ELEMENTARY RENOVATION

June 30, 2011

### Description

Renovate existing facility.

### Summary of Construction Costs

#### New Construction

Building	\$0
Sitework	\$1,500,000

#### Renovation

Renovate Existing Building (60,000 sf x \$140)	\$8,400,000
Architectural and Engineering Fees	\$594,000
Land Development Engineering Fees	\$200,000
Movable Equipment Cost	\$297,000

<b>Sub-Total</b>	<b>\$10,991,000</b>
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### Additional Construction Related Costs

Additional Construction Related Costs (includes geo-technical and environmental reports, site surveys, agency approval fees, printing, project management fees including construction supervision, miscellaneous expenses and contingency)	\$2,198,200
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Financing Costs (including bond discount, legal fees, financial advisor, and printing)	\$300,000
--	-----------

\$2,498,200

### Estimated Project Cost

**\$13,489,200**

### Cost estimates are exclusive of the following:

Sanitary system upgrades, hazardous material removal, and off-site upgrades.

## WISSAHICKON SCHOOL DISTRICT

### STONY CREEK ELEMENTARY RENOVATION

June 30, 2011

#### Description

Renovate the existing facility and add parking.

#### Summary of Construction Costs

##### New Construction

Building	\$0
Sitework	\$1,500,000

##### Renovation

Renovate Existing Building (60,000 sf x \$140)	\$8,400,000
Architectural and Engineering Fees	\$594,000
Land Development Engineering Fees	\$80,000
Movable Equipment Cost	\$297,000

**Sub-Total** \$10,871,000

#### Additional Construction Related Costs

Additional Construction Related Costs (includes geo-technical and environmental reports, site surveys, agency approval fees, printing, project management fees including construction supervision, miscellaneous expenses and contingency)	\$2,174,200
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Financing Costs (including bond discount, legal fees, financial advisor, and printing)	\$300,000
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\$2,474,200

**Estimated Project Cost** \$13,345,200

Cost estimates are exclusive of the following:

Sanitary system upgrades, hazardous material removal, and off-site upgrades.

## **OPTION 3**

### **Detailed Construction Options and Cost Estimates**

#### **Elementary School Options Summary**

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##### **OPTION 3**

###### **Description:**

Close Mattison Avenue and Blue Bell Elementary Schools. Renovate Shady Grove Elementary School. Expand Stony Creek kitchen and add 5 classrooms. Improve Lower Gwynedd with capital projects improvements over a 10 year time frame.

###### **Estimated Cost:**

Mattison Avenue Elementary School	\$	0
Shady Grove Elementary School Renovation	\$	17,975,640
Blue Bell Elementary School	\$	0
Stony Creek Elementary School Addition and Renovation	\$	17,735,491
Lower Gwynedd Elementary School Improvement *	\$	6,084,163

**Total Estimated Cost:** \$ 41,795,294

**Net Difference from Elementary Option 1** \$ + 4,976,885

\* See Capital Improvements Summary for detailed costs.

###### **Pros:**

- Improvement toward 21<sup>st</sup> Century Schools.
- There is an excess capacity of less than 10% of the projected enrollment.
- Provides a more efficient bus run.
- The school transition from Grades 3-4 is eliminated between Mattison Avenue and Shady Grove schools.
- There is better use of excess capacity at the Shady Grove Elementary School.
- More efficient schools.
- Some Green building, sustainable energy efficient improvements are achieved.

###### **Cons:**

- There is a loss of a neighborhood school.
- Requires redistricting.

# WISSAHICKON SCHOOL DISTRICT

## SHADY GROVE ELEMENTARY RENOVATION

June 30, 2011

### Description

Renovate existing facility adding capacity for underutilized areas. Expand the Kitchen onto the cafeteria and expand the cafeteria into the stage.

### Summary of Construction Costs

#### New Construction

Building	\$0
Sitework	\$1,500,000

#### Renovation

Renovate Existing Building (91,000 sf x \$130)	\$11,830,000
Architectural and Engineering Fees	\$799,800
Land Development Engineering Fees	\$200,000
Movable Equipment Cost	\$399,900

<b>Sub-Total</b>	<b>\$14,729,700</b>
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### Additional Construction Related Costs

Additional Construction Related Costs (includes geo-technical and environmental reports, site surveys, agency approval fees, printing, project management fees including construction supervision, miscellaneous expenses and contingency)	\$2,945,940
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Financing Costs (including bond discount, legal fees, financial advisor, and printing)	\$300,000
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\$3,245,940

### Estimated Project Cost

**\$17,975,640**

### Cost estimates are exclusive of the following:

Sanitary system upgrades, hazardous material removal, and off-site upgrades.



## WISSAHICKON SCHOOL DISTRICT

### STONY CREEK ELEMENTARY EXPANSION - 5 CLASSROOMS

June 30, 2011

#### Description

Add a 5 classroom addition near the kitchen entrance, expand kitchen and renovate the existing facility.

#### Summary of Construction Costs

##### New Construction

Building (9360 sf x \$240)	\$2,246,400
Sitework	\$2,500,000

##### Renovation

Renovate Existing Building (60,000 sf x \$140)	\$8,400,000
Architectural and Engineering Fees	\$788,784
Land Development Engineering Fees	\$200,000
Movable Equipment Cost	\$394,392

<b>Sub-Total</b>	<b>\$14,529,576</b>
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#### Additional Construction Related Costs

Additional Construction Related Costs (includes geo-technical and environmental reports, site surveys, agency approval fees, printing, project management fees including construction supervision, miscellaneous expenses and contingency)	\$2,905,915
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Financing Costs (including bond discount, legal fees, financial advisor, and printing)	\$300,000
--	-----------

\$3,205,915

<b>Estimated Project Cost</b>	<b>\$17,735,491</b>
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Cost estimates are exclusive of the following:

Sanitary system upgrades, hazardous material removal, and off-site upgrades.

# **OPTION 3A**

## **Detailed Construction Options and Cost Estimates**

### **Elementary School Options Summary**

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#### **OPTION 3A**

##### **Description:**

Close Mattison Avenue and Blue Bell Elementary Schools. Renovate Shady Grove adding capacity, renovate Stony Creek, improve Lower Gwynedd with capital projects improvements over a 10 year time frame.

##### **Estimated Cost:**

Mattison Avenue Elementary School	\$	0
Shady Grove Elementary School Renovation	\$	17,975,640
Blue Bell Elementary School	\$	0
Stony Creek Elementary School Renovation	\$	13,345,200
Lower Gwynedd Elementary School Improvement *	\$	<u>6,084,163</u>
<b>Total Estimated Cost:</b>	<b>\$</b>	<b>37,405,003</b>
<b>Net Difference from Elementary Option 1</b>	<b>\$</b>	<b>+ 586,594</b>

\* See Capital Improvements Summary for detailed costs.

##### **Pros:**

- Improvement toward 21<sup>st</sup> Century Schools.
- There is an excess capacity of less than 10% of the projected enrollment.
- Provides a more efficient bus run.
- The school transition from Grades 3-4 is eliminated between Mattison Avenue and Shady Grove schools.
- There is better use of excess capacity at the Shady Grove Elementary School.
- More efficient schools.
- Some Green building, sustainable energy efficient improvements are achieved.

##### **Cons:**

- There is a loss of a neighborhood school.
- Less swing space for renovation of Stony Creek Elementary School.
- Requires redistricting.
- May not be enough capacity if enrollment does not decline as projected.

# WISSAHICKON SCHOOL DISTRICT

## SHADY GROVE ELEMENTARY RENOVATION

June 30, 2011

### Description

Renovate existing facility adding capacity for underutilized areas. Expand the Kitchen onto the cafeteria and expand the cafeteria into the stage.

### Summary of Construction Costs

#### New Construction

Building	\$0
Sitework	\$1,500,000

#### Renovation

Renovate Existing Building (91,000 sf x \$130)	\$11,830,000
Architectural and Engineering Fees	\$799,800
Land Development Engineering Fees	\$200,000
Movable Equipment Cost	\$399,900
<b>Sub-Total</b>	<b>\$14,729,700</b>

### Additional Construction Related Costs

Additional Construction Related Costs (includes geo-technical and environmental reports, site surveys, agency approval fees, printing, project management fees including construction supervision, miscellaneous expenses and contingency)	\$2,945,940
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Financing Costs (including bond discount, legal fees, financial advisor, and printing)	\$300,000
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\$3,245,940

### Estimated Project Cost

**\$17,975,640**

Cost estimates are exclusive of the following:

Sanitary system upgrades, hazardous material removal, and off-site upgrades.

# WISSAHICKON SCHOOL DISTRICT

## STONY CREEK ELEMENTARY RENOVATION

June 30, 2011

### Description

Renovate the existing facility and add parking.

### Summary of Construction Costs

#### New Construction

Building	\$0
Sitework	\$1,500,000

#### Renovation

Renovate Existing Building (60,000 sf x \$140)	\$8,400,000
Architectural and Engineering Fees	\$594,000
Land Development Engineering Fees	\$80,000
Movable Equipment Cost	\$297,000

<b>Sub-Total</b>	<b>\$10,871,000</b>
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### Additional Construction Related Costs

Additional Construction Related Costs (includes geo-technical and environmental reports, site surveys, agency approval fees, printing, project management fees including construction supervision, miscellaneous expenses and contingency)	\$2,174,200
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Financing Costs (including bond discount, legal fees, financial advisor, and printing)	\$300,000
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\$2,474,200

### Estimated Project Cost

**\$13,345,200**

Cost estimates are exclusive of the following:

Sanitary system upgrades, hazardous material removal, and off-site upgrades.

# **OPTION 4**

## **Detailed Construction Options and Cost Estimates**

### **Elementary School Options Summary**

---

#### **OPTION 4**

##### **Description:**

Close Mattison Avenue and Blue Bell Elementary Schools, build a new 632 student Shady Grove Elementary School adjacent to the current Shady Grove Elementary School. Use the existing Shady Grove Elementary School as a temporary school to house other school populations as they are renovated or expanded and then demolish the structure. Expand Stony Creek's kitchen and add 8 classrooms and renovate the entire building. Improve Lower Gwynedd with capital projects improvements over a 10 year time frame.

##### **Estimated Cost:**

Mattison Avenue Elementary School	\$	0
New Shady Grove Elementary School	\$	27,856,926
Blue Bell Elementary School	\$	0
Stony Creek Elementary School Addition and Renovation	\$	19,234,538
Lower Gwynedd Elementary School Improvement *	\$	<u>6,084,163</u>
<b>Total Estimated Cost:</b>	<b>\$</b>	<b>53,175,627</b>
<b>Net Difference from Elementary Option 1</b>	<b>\$</b>	<b>+ 16,357,218</b>

\* See Capital Improvements Summary for detailed costs.

##### **Pros:**

- Better 21<sup>st</sup> Century Schools.
- There is an excess capacity of less than 10% of the projected enrollment.
- More equal school sizes.
- The school transition from Grades 3-4 is eliminated between Mattison Avenue and Shady Grove schools.
- Shady Grove inefficiencies are addressed.
- More efficient schools.
- Provides good phasing options.
- Better Green building, sustainable energy efficient improvements are achieved.

##### **Cons:**

- There is a loss of a neighborhood school.
- Requires redistricting.
- May not be enough capacity if enrollment does not decline as projected.

# WISSAHICKON SCHOOL DISTRICT

## NEW SHADY GROVE ELEMENTARY SCHOOL

June 30, 2011

### Description

Build a new K-5 Shady Grove Elementary School for 632 students and demolish the existing facility.

### Summary of Construction Costs

New Construction (79,475 sf x \$220 sf)	\$17,484,500
Sitework & Building Demolition	\$3,400,000
Architectural and Engineering Fees	\$1,253,070
Land Development Engineering Fees	\$200,000
Movable Equipment Cost	\$626,535
<b>Sub-Total</b>	<b>\$22,964,105</b>

### Additional Construction Related Costs

Additional Construction Related Costs (includes geo-technical and environmental reports, site surveys, agency approval fees, printing, project management fees including construction supervision, miscellaneous expenses and contingency)	\$4,592,821
Financing Costs (including bond discount, legal fees, financial advisor, and printing)	\$300,000
	<b>\$4,892,821</b>

**Estimated Project Cost** **\$27,856,926**

Cost estimates are exclusive of the following:

Sanitary system upgrades, hazardous material removal, and off-site upgrades.

## WISSAHICKON SCHOOL DISTRICT

### STONY CREEK ELEMENTARY EXPANSION - 8 CLASSROOMS

June 30, 2011

#### Description

Add an 8 classroom addition near the kitchen entrance, expand kitchen and renovate the existing facility.

#### Summary of Construction Costs

##### New Construction

Building (14,436 sf x \$235)	\$3,392,460
Sitework	\$2,500,000

##### Renovation

Renovate Existing Building (60,000 sf x \$140)	\$8,400,000
Architectural and Engineering Fees	\$857,548
Land Development Engineering Fees	\$200,000
Movable Equipment Cost	\$428,774

<b>Sub-Total</b>	<b>\$15,778,781</b>
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#### Additional Construction Related Costs

Additional Construction Related Costs (includes geo-technical and environmental reports, site surveys, agency approval fees, printing, project management fees including construction supervision, miscellaneous expenses and contingency)	\$3,155,756
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Financing Costs (including bond discount, legal fees, financial advisor, and printing)	\$300,000
--	-----------

\$3,455,756

<b>Estimated Project Cost</b>	<b>\$19,234,538</b>
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Cost estimates are exclusive of the following:

Sanitary system upgrades, hazardous material removal, and off-site upgrades.



# **OPTION 5**

## **Detailed Construction Options and Cost Estimates**

### **Elementary School Options Summary**

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#### **OPTION 5**

##### **Description:**

Close Mattison Avenue and Blue Bell Elementary Schools. Renovate Stony Creek. Expand Lower Gwynedd by adding 12 classrooms. Build a new 450 student K-2 grade school and a new 450 student 3-5 grade school at the Shady Grove site. Use the existing 5-6 school as a temporary school to house other school populations when those schools are renovated or expanded.

##### **Estimated Cost:**

Mattison Avenue Elementary School	\$	0
New Shady Grove K-2 Elementary School	\$	22,064,448
New Shady Grove 3-5 Grade Elementary School	\$	22,064,448
Blue Bell Elementary School	\$	0
Stony Creek Elementary School Renovation	\$	13,345,200
Lower Gwynedd Elementary School Improvement *	\$	6,084,163
<b>Total Estimated Cost:</b>	<b>\$</b>	<b>63,558,259</b>
<b>Net Difference from Elementary Option 1</b>	<b>\$</b>	<b>+ 26,739,850</b>

\* See Capital Improvements Summary for detailed costs.

##### **Pros:**

- There is an excess capacity of less than 10% of the projected enrollment.
- Better 21<sup>st</sup> Century facilities.
- The school transition from Grades 3-4 is eliminated between Mattison Avenue and Shady Grove schools.
- Shady Grove inefficiencies addressed.
- More efficient schools.
- Provides good phasing options.
- Most Green building, sustainable energy efficient improvements are achieved.

##### **Cons:**

- There is a loss of a neighborhood school.
- Requires redistricting.
- Most expensive option.

## WISSAHICKON SCHOOL DISTRICT

### NEW SHADY GROVE ELEMENTARY SCHOOLS

June 30, 2011

#### Description

Build new K-2 and 3-5 Shady Grove Elementary Schools for 450 students each and demolish the existing facility. Computations below are for one School; two schools will double the cost unless they are built simultaneously.

#### Summary of Construction Costs-Per School

New Construction (63,360 sf x \$225 sf)	\$14,256,000
Sitework & Building Demolition	\$2,200,000
Architectural and Engineering Fees	\$987,360
Land Development Engineering Fees	\$200,000
Movable Equipment Cost	\$493,680
<b>Sub-Total</b>	<b>\$18,137,040</b>

#### Additional Construction Related Costs-Per School

Additional Construction Related Costs (includes geo-technical and environmental reports, site surveys, agency approval fees, printing, project management fees including construction supervision, miscellaneous expenses and contingency)	\$3,627,408
Financing Costs (including bond discount, legal fees, financial advisor, and printing)	\$300,000
	\$3,927,408

**Estimated Project Cost x 2** **\$44,128,896**

Cost estimates are exclusive of the following:

Sanitary system upgrades, hazardous material removal, and off-site upgrades.

# WISSAHICKON SCHOOL DISTRICT

## STONY CREEK ELEMENTARY RENOVATION

June 30, 2011

### Description

Renovate the existing facility and add parking.

### Summary of Construction Costs

#### New Construction

Building	\$0
Sitework	\$1,500,000

#### Renovation

Renovate Existing Building (60,000 sf x \$140)	\$8,400,000
Architectural and Engineering Fees	\$594,000
Land Development Engineering Fees	\$80,000
Movable Equipment Cost	\$297,000

<b>Sub-Total</b>	<b>\$10,871,000</b>
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### Additional Construction Related Costs

Additional Construction Related Costs (includes geo-technical and environmental reports, site surveys, agency approval fees, printing, project management fees including construction supervision, miscellaneous expenses and contingency)	\$2,174,200
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Financing Costs (including bond discount, legal fees, financial advisor, and printing)	\$300,000
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\$2,474,200

### Estimated Project Cost

**\$13,345,200**

Cost estimates are exclusive of the following:

Sanitary system upgrades, hazardous material removal, and off-site upgrades.

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## **SECTION II**

### **PART II    SECONDARY SCHOOL OPTIONS**

# OPTION 1

## Detailed Construction Options and Cost Estimates

### Secondary School Options Summary

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#### OPTION 1

**Description:**

Maintain existing configuration. Improve schools as required with capital project improvements over a 10 year time frame.

**Estimated Cost:**

Middle School Improvement *	\$ 17,598,552
High School Improvement *	<u>\$ 30,220,408</u>
<b>Total Estimated Cost:</b>	<b>\$ 47,818,960</b>

\* See Capital Improvements Summary for detailed costs.

**Pros:**

- Least cost.

**Cons:**

- No major renovations to either school.
- No 21<sup>st</sup> Century School improvements.

## OPTION 2

### Detailed Construction Options and Cost Estimates

#### Secondary School Options Summary

---

##### OPTION 2

**Description:**

Renovate the Middle School and the High School.

**Estimated Cost:**

Middle School Renovation	\$ 33,305,280
High School Renovation	<u>\$ 55,750,560</u>
<b>Total Estimated Cost:</b>	<b>\$ 89,055,840</b>
<b>Net Difference from Secondary Option 1</b>	<b>\$ + 41,236,880</b>

**Pros:**

- Better 21<sup>st</sup> Century School improvement.
- Some Green building, sustainable energy efficient improvements are achieved.

**Cons:**

- Most inefficiencies and adjacencies remain in place.
- Many windowless classrooms remain in the Middle School.
- Phasing is disruptive.

# WISSAHICKON SCHOOL DISTRICT

## MIDDLE SCHOOL RENOVATION

June 21, 2011

### Description

Renovate the existing facility and add parking.

### Summary of Construction Costs

#### New Construction

Building	\$0
Sitework	\$1,500,000

#### Renovation

Renovate Existing Building (182,000 sf x \$130)	\$23,660,000
Architectural and Engineering Fees	\$1,509,600
Land Development Engineering Fees	\$80,000
Movable Equipment Cost	\$754,800

<b>Sub-Total</b>	<b>\$27,504,400</b>
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### Additional Construction Related Costs

Additional Construction Related Costs (includes geo-technical and environmental reports, site surveys, agency approval fees, printing, project management fees including construction supervision, miscellaneous expenses and contingency)	\$5,500,880
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Financing Costs (including bond discount, legal fees, financial advisor, and printing)	\$300,000
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\$5,800,880

### Estimated Project Cost

**\$33,305,280**

### Cost estimates are exclusive of the following:

Sanitary system upgrades, hazardous material removal, and off-site upgrades.



# WISSAHICKON SCHOOL DISTRICT

## HIGH SCHOOL RENOVATION

June 21, 2011

### Description

Renovate the existing facility.

### Summary of Construction Costs

#### New Construction

Building	\$0
Sitework	\$1,500,000

#### Renovation

Renovate Existing Building (314,000 sf x \$130)	\$40,820,000
Architectural and Engineering Fees	\$2,539,200
Land Development Engineering Fees	\$80,000
Movable Equipment Cost	\$1,269,600
<b>Sub-Total</b>	<b>\$46,208,800</b>

### Additional Construction Related Costs

Additional Construction Related Costs (includes geo-technical and environmental reports, site surveys, agency approval fees, printing, project management fees including construction supervision, miscellaneous expenses and contingency)	\$9,241,760
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Financing Costs (including bond discount, legal fees, financial advisor, and printing)	\$300,000
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\$9,541,760

### Estimated Project Cost

**\$55,750,560**

Cost estimates are exclusive of the following:

Sanitary system upgrades, hazardous material removal, and off-site upgrades.

## **OPTION 2A**

### **Detailed Construction Options and Cost Estimates**

#### **Secondary School Options Summary**

---

##### **OPTION 2A**

**Description:**

Renovate the Middle School and the High School. Rebuild the Middle School pool converting it into an Auditorium and add a new pool at the High School.

**Estimated Cost:**

Middle School Renovation	\$ 39,976,080
High School Renovation	<u>\$ 63,990,960</u>
<b>Total Estimated Cost:</b>	<b>\$ 103,967,040</b>
<b>Net Difference from Secondary Option 1</b>	<b>\$ + 56,148,080</b>

**Pros:**

- Better 21<sup>st</sup> Century School improvement.
- Some Green building, sustainable energy efficient improvements are achieved.

**Cons:**

- Most inefficiencies and adjacencies remain in place.
- Many windowless classrooms remain in the Middle School.
- Phasing is disruptive.

## WISSAHICKON SCHOOL DISTRICT

### MIDDLE SCHOOL RENOVATION - NEW AUDITORIUM

June 21, 2011

#### Description

Renovate the existing facility and add parking. Improve site circulation. Demolish the Natatorium and rebuild new Auditorium.

#### Summary of Construction Costs

##### New Construction

Building (30,000 sf x \$230)	\$6,900,000
Sitework & Selective Demolition	\$3,600,000

##### Renovation

Renovate Existing Building (152,000 sf x \$130)	\$19,760,000
Architectural and Engineering Fees	\$1,815,600
Land Development Engineering Fees	\$80,000
Movable Equipment Cost	\$907,800

<b>Sub-Total</b>	<b>\$33,063,400</b>
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#### Additional Construction Related Costs

Additional Construction Related Costs (includes geo-technical and environmental reports, site surveys, agency approval fees, printing, project management fees including construction supervision, miscellaneous expenses and contingency)	\$6,612,680
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Financing Costs (including bond discount, legal fees, financial advisor, and printing)	\$300,000
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\$6,912,680

#### Estimated Project Cost

**\$39,976,080**

#### Cost estimates are exclusive of the following:

Sanitary system upgrades, hazardous material removal, and off-site upgrades.

# WISSAHICKON SCHOOL DISTRICT

## HIGH SCHOOL RENOVATION - NEW POOL

June 21, 2011

### Description

Renovate the existing facility and add a new Natatorium addition. Improve the stadium.

### Summary of Construction Costs

#### New Construction

Building (25,000 sf x 220)	\$5,500,000
Sitework	\$2,300,000

#### Renovation

Renovate Existing Building (314,000 sf x \$130)	\$40,820,000
Architectural and Engineering Fees	\$2,917,200
Land Development Engineering Fees	\$80,000
Movable Equipment Cost	\$1,458,600
<b>Sub-Total</b>	<b>\$53,075,800</b>

### Additional Construction Related Costs

Additional Construction Related Costs (includes geo-technical and environmental reports, site surveys, agency approval fees, printing, project management fees including construction supervision, miscellaneous expenses and contingency)	\$10,615,160
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Financing Costs (including bond discount, legal fees, financial advisor, and printing)	\$300,000
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\$10,915,160

### Estimated Project Cost

**\$63,990,960**

### Cost estimates are exclusive of the following:

Sanitary system upgrades, hazardous material removal, and off-site upgrades.

## **OPTION 3**

### **Detailed Construction Options and Cost Estimates**

#### **Secondary School Options Summary**

---

##### **OPTION 3**

**Description:**

Build a new Middle School adjacent to old Middle School. Rebuild the High School mostly on the footprint of the old High School adding a new Natatorium. Improve the Stadium.

**Estimated Cost:**

New Middle School	\$ 53,951,159
High School Reconstruction	<u>\$ 96,637,637</u>
<b>Total Estimated Cost:</b>	<b>\$ 150,588,796</b>
<b>Net Difference from Secondary Option 1</b>	<b>\$ + 102,769,836</b>

**Pros:**

- Best 21<sup>st</sup> Century Schools.
- Better Green building, sustainable energy efficient improvements are achieved.

**Cons:**

- Cost.
- Phased construction of High School.

# WISSAHICKON SCHOOL DISTRICT

## NEW MIDDLE SCHOOL

July 5, 2011

### Description

Build a new 1,100 student Middle School adjacent to the existing Middle School. Use the existing Middle School to temporarily house some of the High School students during renovations or construction of the High School. Demolish the existing Middle School and construct new parking, bus loading zone and play fields.

### Summary of Construction Costs

#### New Construction

Building (178,000 sf x \$210)	\$37,380,000
Sitework	\$4,000,000
Architectural and Engineering Fees	\$2,482,800
Land Development Engineering Fees	\$280,000
Movable Equipment Cost	\$1,324,284
<b>Sub-Total</b>	<b>\$45,467,084</b>

### Additional Construction Related Costs

Additional Construction Related Costs (includes geo-technical and environmental reports, site surveys, agency approval fees, printing, project management fees including construction supervision, miscellaneous expenses and contingency)

\$8,184,075

Financing Costs (including bond discount, legal fees, financial advisor, and printing)

\$300,000

\$8,484,075

### Estimated Project Cost

**\$53,951,159**

Cost estimates are exclusive of the following:

Sanitary system upgrades, hazardous material removal, and off-site upgrades.

## WISSAHICKON SCHOOL DISTRICT

### HIGH SCHOOL RECONSTRUCTION

July 5, 2011

#### Description

Rebuild the High School in phases while systematically removing portions of the old High School. Renovate the Round Gym, possibly the Science Wing and Old Gym. Construct a new Natatorium addition.

#### Summary of Construction Costs

##### New Construction

Building (279,000 sf x \$195)	\$54,405,000
Sitework	\$6,000,000
Stadium Improvements	\$2,000,000
Construction Phasing Premium	\$2,000,000

##### Renovation

Renovate Existing Building (60,000 sf x \$130)	\$7,800,000
Architectural and Engineering Fees	\$4,332,300
Land Development Engineering Fees	\$3,500,000
Movable Equipment Cost	\$2,046,150

**Sub-Total** \$82,083,450

#### Additional Construction Related Costs

Additional Construction Related Costs (includes geo-technical and environmental reports, site surveys, agency approval fees, printing, project management fees including construction supervision, miscellaneous expenses and contingency)	\$13,954,187
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Financing Costs (including bond discount, legal fees, financial advisor, and printing)	\$600,000
	<u>\$14,554,187</u>

**Estimated Project Cost** \$96,637,637

#### Cost estimates are exclusive of the following:

Sanitary system upgrades, hazardous material removal, and off-site upgrades.



## **OPTION 3A**

### **Detailed Construction Options and Cost Estimates**

#### **Secondary School Options Summary**

---

##### **OPTION 3A**

**Description:**

Renovate the Middle School. Rebuild the Middle School pool converting it to an Auditorium. Rebuild the High School mostly on footprint of the old High School adding a new Natatorium. Improve the Stadium.

**Estimated Cost:**

Middle School Renovation	\$ 39,976,080
High School Reconstruction	<u>\$ 96,637,637</u>
<b>Total Estimated Cost:</b>	<b>\$ 136,613,717</b>
<b>Net Difference from Secondary Option 1</b>	<b>\$ + 88,794,757</b>

**Pros:**

- Better 21<sup>st</sup> Century Schools.
- Better Green building, sustainable energy efficient improvements are achieved.

**Cons:**

- Cost.
- Phased construction of High School.

## WISSAHICKON SCHOOL DISTRICT

### MIDDLE SCHOOL RENOVATION - NEW AUDITORIUM

June 21, 2011

#### Description

Renovate the existing facility and add parking. Improve site circulation. Demolish the Natatorium and rebuild new Auditorium.

#### Summary of Construction Costs

##### New Construction

Building (30,000 sf x \$230)	\$6,900,000
Sitework & Selective Demolition	\$3,600,000

##### Renovation

Renovate Existing Building (152,000 sf x \$130)	\$19,760,000
Architectural and Engineering Fees	\$1,815,600
Land Development Engineering Fees	\$80,000
Movable Equipment Cost	\$907,800

<b>Sub-Total</b>	<b>\$33,063,400</b>
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#### Additional Construction Related Costs

Additional Construction Related Costs (includes geo-technical and environmental reports, site surveys, agency approval fees, printing, project management fees including construction supervision, miscellaneous expenses and contingency)	\$6,612,680
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Financing Costs (including bond discount, legal fees, financial advisor, and printing)	\$300,000
--	-----------

\$6,912,680

#### Estimated Project Cost

**\$39,976,080**

#### Cost estimates are exclusive of the following:

Sanitary system upgrades, hazardous material removal, and off-site upgrades.

# WISSAHICKON SCHOOL DISTRICT

## HIGH SCHOOL RECONSTRUCTION

July 5, 2011

### Description

Rebuild the High School in phases while systematically removing portions of the old High School. Renovate the Round Gym, possibly the Science Wing and Old Gym. Construct a new Natatorium addition.

### Summary of Construction Costs

#### New Construction

Building (279,000 sf x \$195)	\$54,405,000
Sitework	\$6,000,000
Stadium Improvements	\$2,000,000
Construction Phasing Premium	\$2,000,000

#### Renovation

Renovate Existing Building (60,000 sf x \$130)	\$7,800,000
Architectural and Engineering Fees	\$4,332,300
Land Development Engineering Fees	\$3,500,000
Movable Equipment Cost	\$2,046,150

**Sub-Total** \$82,083,450

### Additional Construction Related Costs

Additional Construction Related Costs (includes geo-technical and environmental reports, site surveys; agency approval fees, printing, project management fees including construction supervision, miscellaneous expenses and contingency)	\$13,954,187
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Financing Costs (including bond discount, legal fees, financial advisor, and printing)	\$600,000
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\$14,554,187

### Estimated Project Cost

**\$96,637,637**

### Cost estimates are exclusive of the following:

Sanitary system upgrades, hazardous material removal, and off-site upgrades.

## **OPTION 4**

### **Detailed Construction Options and Cost Estimates**

#### **Secondary School Options Summary**

---

##### **OPTION 4**

##### **Description:**

Build a new 1,100 student Middle School adjacent to old the Middle School. Use the existing Middle School to temporarily house some of the High School students during the High School construction. Build a new High School adjacent to the old High School on the Stadium and parking area location. Demolish the old Middle School and High School. Rebuild the stadium in a new location on the High School site.

##### **Estimated Cost:**

New Middle School	\$ 53,951,159
New High School and Stadium	\$ 96,593,118
<b>Total Estimated Cost:</b>	<b>\$ 150,544,277</b>
<b>Net Difference from Secondary Option 1</b>	<b>\$ + 102,725,317</b>

##### **Pros:**

- Better 21<sup>st</sup> Century Schools.
- Best Green building, sustainable energy efficient improvements are achieved.
- Safest campus circulation.

##### **Cons:**

- Cost.
- Possible new Stadium location resistance.

# WISSAHICKON SCHOOL DISTRICT

## NEW MIDDLE SCHOOL

July 5, 2011

### Description

Build a new 1,100 student Middle School adjacent to the existing Middle School. Use the existing Middle School to temporarily house some of the High School students during renovations or construction of the High School. Demolish the existing Middle School and construct new parking, bus loading zone and play fields.

### Summary of Construction Costs

#### New Construction

Building (178,000 sf x \$210)	\$37,380,000
Sitework	\$4,000,000
Architectural and Engineering Fees	\$2,482,800
Land Development Engineering Fees	\$280,000
Movable Equipment Cost	\$1,324,284
<b>Sub-Total</b>	<b>\$45,467,084</b>

### Additional Construction Related Costs

Additional Construction Related Costs (includes geo-technical and environmental reports, site surveys, agency approval fees, printing, project management fees including construction supervision, miscellaneous expenses and contingency)	\$8,184,075
Financing Costs (including bond discount, legal fees, financial advisor, and printing)	\$300,000
	<b>\$8,484,075</b>

### Estimated Project Cost

**\$53,951,159**

Cost estimates are exclusive of the following:

Sanitary system upgrades, hazardous material removal, and off-site upgrades.

## WISSAHICKON SCHOOL DISTRICT

### NEW HIGH SCHOOL - NEW STADIUM

July 5, 2011

#### Description

Build a new 1500 student High School on the stadium and main parking area adjacent to the existing High School. Demolish the old High School and rebuild the stadium and parking facilities.

#### Summary of Construction Costs

##### New Construction

Building (308,000 sf x \$195)	\$60,060,000
Sitework & Demolition	\$6,000,000
New Stadium	\$6,000,000
Construction Phasing Premium	\$0
Architectural and Engineering Fees	\$4,323,600
Land Development Engineering Fees	\$3,500,000
Movable Equipment Cost	\$2,161,800
<b>Sub-Total</b>	<b>\$82,045,400</b>

#### Additional Construction Related Costs

Additional Construction Related Costs (includes geo-technical and environmental reports, site surveys, agency approval fees, printing, project management fees including construction supervision, miscellaneous expenses and contingency)	\$13,947,718
Financing Costs (including bond discount, legal fees, financial advisor, and printing)	\$600,000
	<b>\$14,547,718</b>

**Estimated Project Cost** **\$96,593,118**

#### Cost estimates are exclusive of the following:

Sanitary system upgrades, hazardous material removal, and off-site upgrades.

## OPTION 4A

### Detailed Construction Options and Cost Estimates

#### Secondary School Options Summary

---

##### OPTION 4A

**Description:**

Build new Middle School adjacent to old. Build a new High School mostly on the existing High School without saving or renovating any of the existing facility. Improve the Stadium.

**Estimated Cost:**

New Middle School	\$ 53,951,159
New High School and improved Stadium	<u>\$ 93,352,218</u>
<b>Total Estimated Cost:</b>	<b>\$ 147,303,377</b>
<b>Net Difference from Secondary Option 1</b>	<b>\$ + 99,484,417</b>

**Pros:**

- Better 21<sup>st</sup> Century Schools.
- Best Green building, sustainable energy efficient improvements are achieved.
- Improved campus circulation.

**Cons:**

- Cost.
- Phased construction of High School.



# WISSAHICKON SCHOOL DISTRICT

## NEW MIDDLE SCHOOL

July 5, 2011

### Description

Build a new 1,100 student Middle School adjacent to the existing Middle School. Use the existing Middle School to temporarily house some of the High School students during renovations or construction of the High School. Demolish the existing Middle School and construct new parking, bus loading zone and play fields.

### Summary of Construction Costs

#### New Construction

Building (178,000 sf x \$210)	\$37,380,000
Sitework	\$4,000,000
Architectural and Engineering Fees	\$2,482,800
Land Development Engineering Fees	\$280,000
Movable Equipment Cost	\$1,324,284
<b>Sub-Total</b>	<b>\$45,467,084</b>

### Additional Construction Related Costs

Additional Construction Related Costs (includes geo-technical and environmental reports, site surveys, agency approval fees, printing, project management fees including construction supervision, miscellaneous expenses and contingency)	\$8,184,075
Financing Costs (including bond discount, legal fees, financial advisor, and printing)	\$300,000
	<b>\$8,484,075</b>

**Estimated Project Cost** **\$53,951,159**

Cost estimates are exclusive of the following:

Sanitary system upgrades, hazardous material removal, and off-site upgrades.

## WISSAHICKON SCHOOL DISTRICT

### NEW HIGH SCHOOL - IMPROVE STADIUM

July 5, 2011

#### Description

Build a new High School mostly on the existing High School footprint without saving or renovating the existing school. Demolish the old High School and improve the stadium and parking facilities.

#### Summary of Construction Costs

##### New Construction

Building (308,000 sf x \$195)	\$60,060,000
Sitework & Demolition	\$6,000,000
Stadium Improvements	\$2,000,000
Construction Phasing Premium	\$1,500,000
Architectural and Engineering Fees	\$4,173,600
Land Development Engineering Fees	\$3,500,000
Movable Equipment Cost	\$2,041,800

**Sub-Total** \$79,275,400

#### Additional Construction Related Costs

Additional Construction Related Costs (includes geo-technical and environmental reports, site surveys, agency approval fees, printing, project management fees including construction supervision, miscellaneous expenses and contingency)	\$13,476,818
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Financing Costs (including bond discount, legal fees, financial advisor, and printing)	\$600,000
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\$14,076,818

**Estimated Project Cost** **\$93,352,218**

Cost estimates are exclusive of the following:

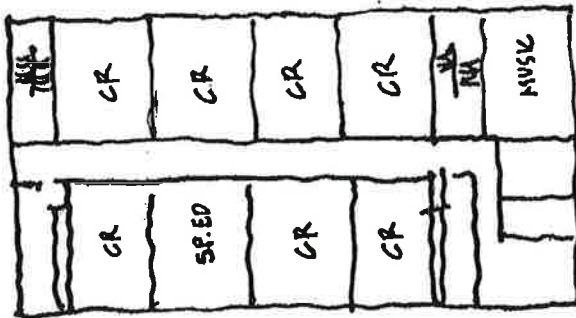
Sanitary system upgrades, hazardous material removal, and off-site upgrades.

Sketches

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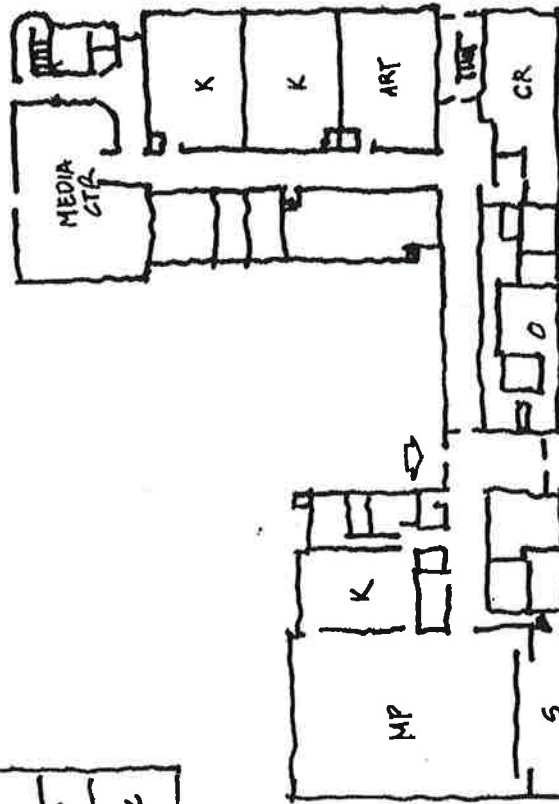
**SECTION III**  
**SKETCHES**

7 CLASSROOMS  
1 SPECIAL ED



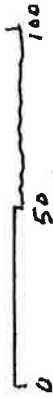
UPPER FLOOR

2 KINDERGARTEN  
1 CLASSROOM

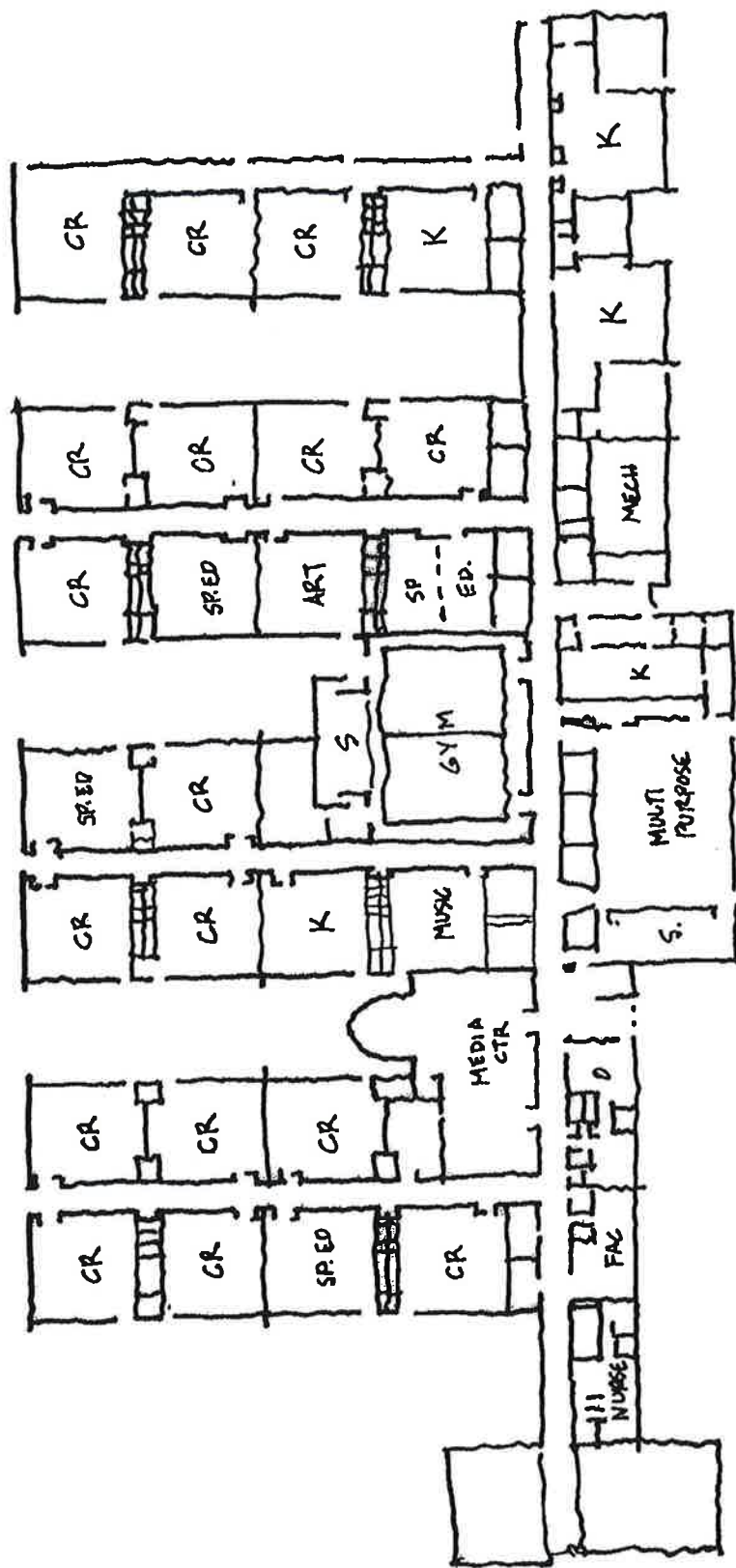


LOWER FLOOR

MATTISON AVE ELEM



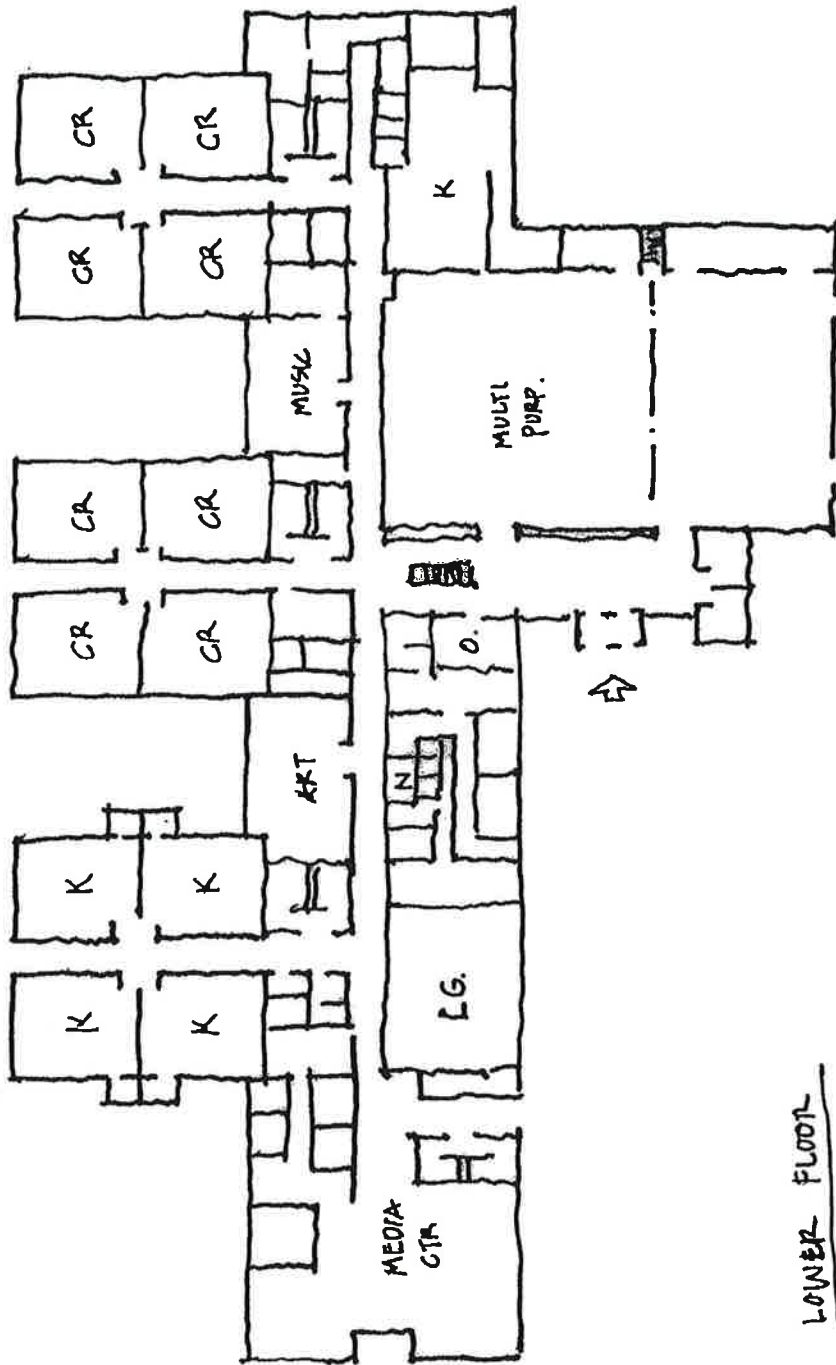
4 KINDERGARTEN  
17 CLASSROOMS  
3 SPECIAL ED



BLUE BELL ELEM

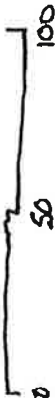
0 50 100

4 KINDERGARTEN  
8 CLASSROOMS



LOWER FLOOR

**LOWER GYMNASIUM BLEM**



14 CLASSROOMS  
2 SPECIAL ED

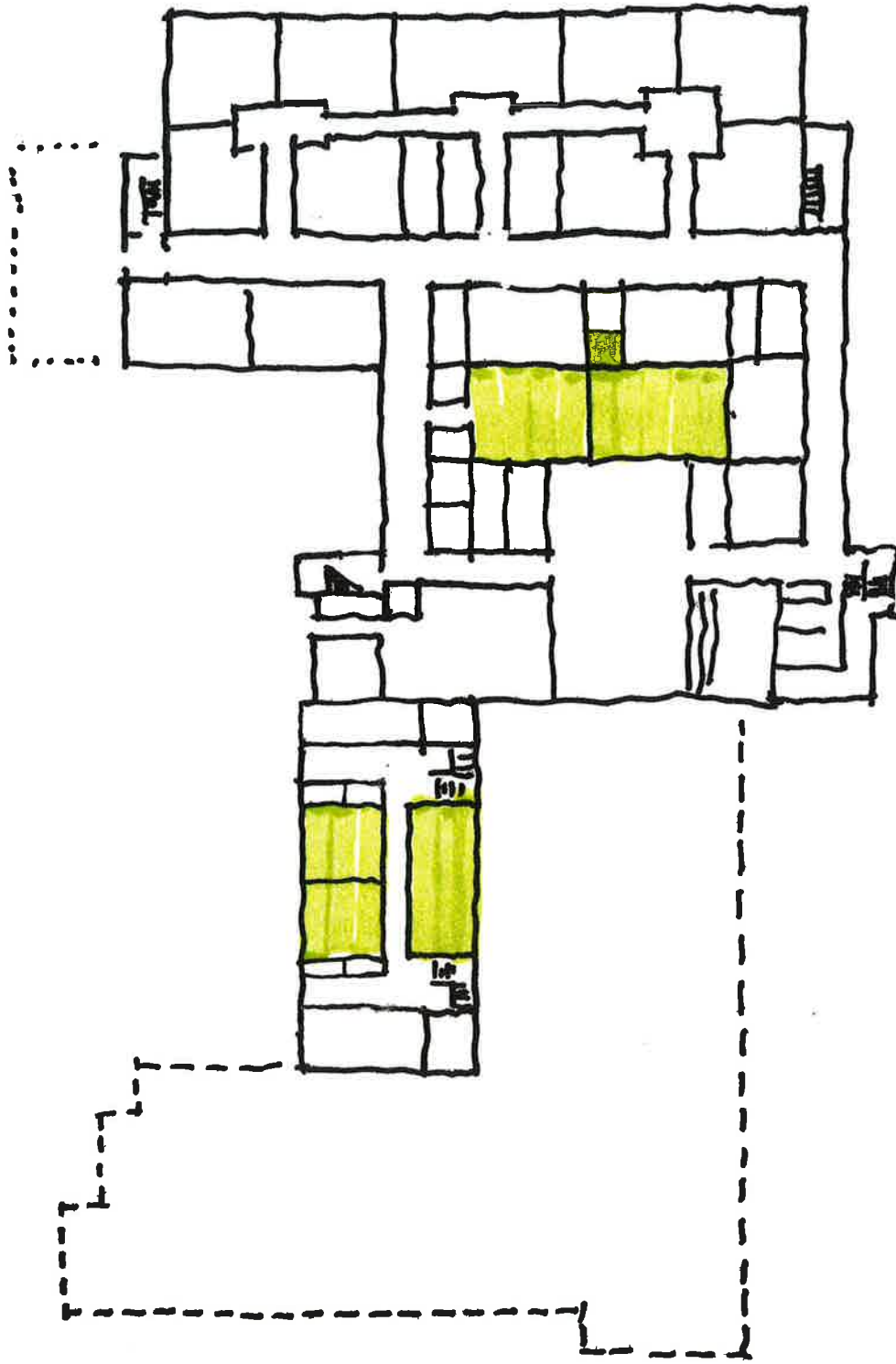


UPPER FLOOR

LOWER GWYNEDD ELEM

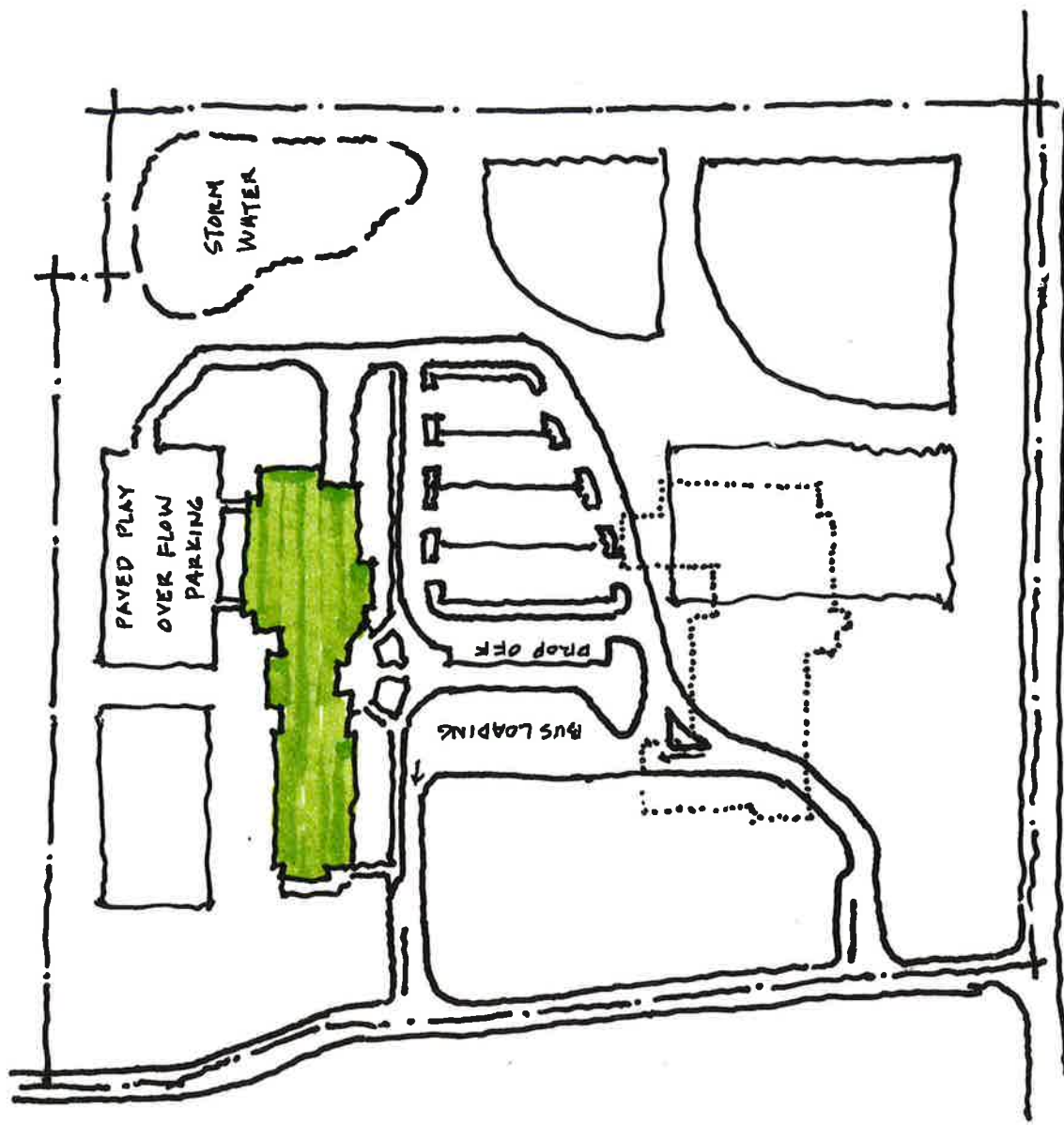
0 50 100





# SHADY GROVE

LOWER FLOOR CLASSROOM RENOVATIONS  
ADDITIONAL CAPACITY



NORTH

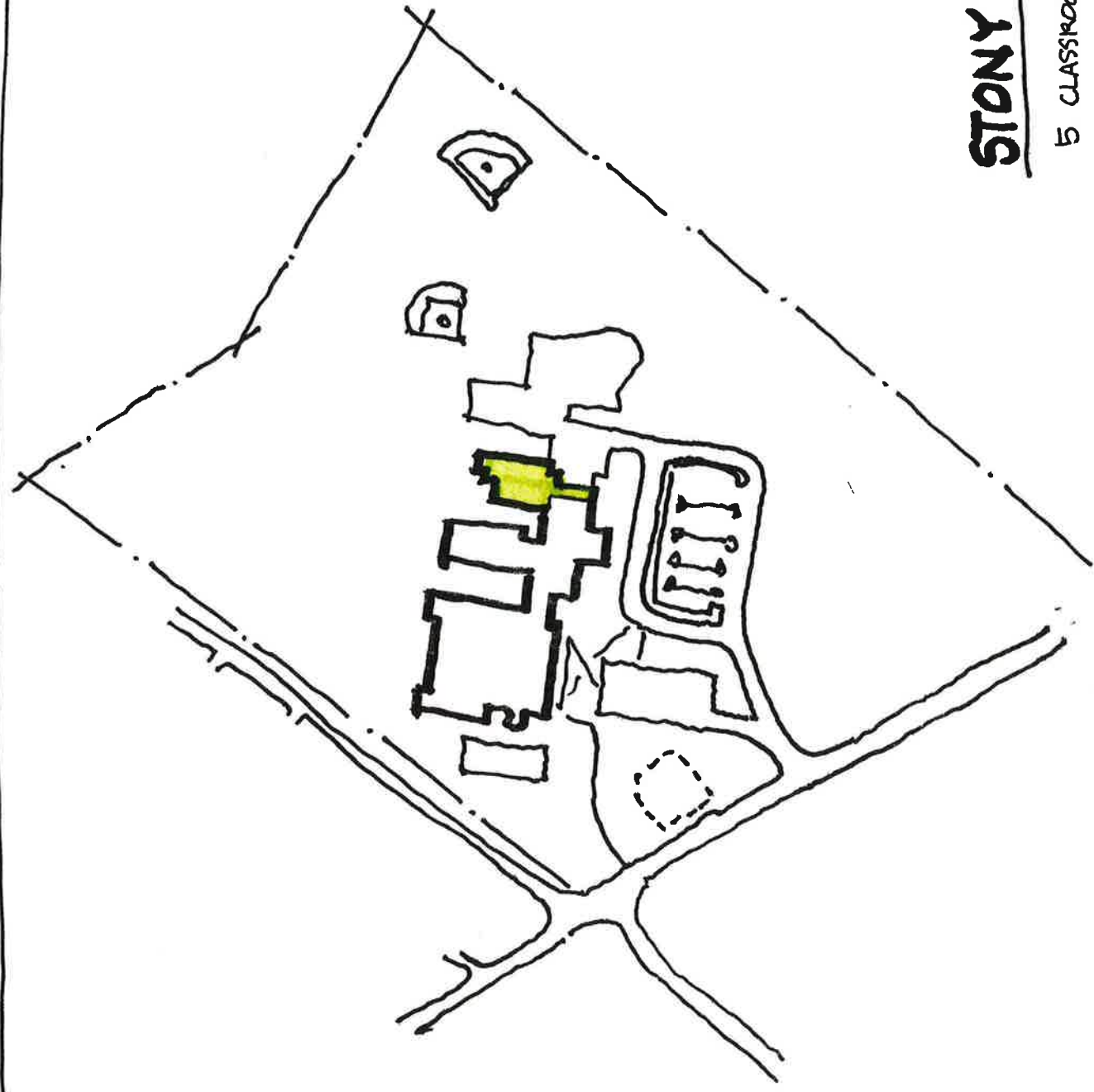
# SHADY GROVE

0 200 400

NEW ELEM SCHOOL  
EXISTING FOR TEMP USE

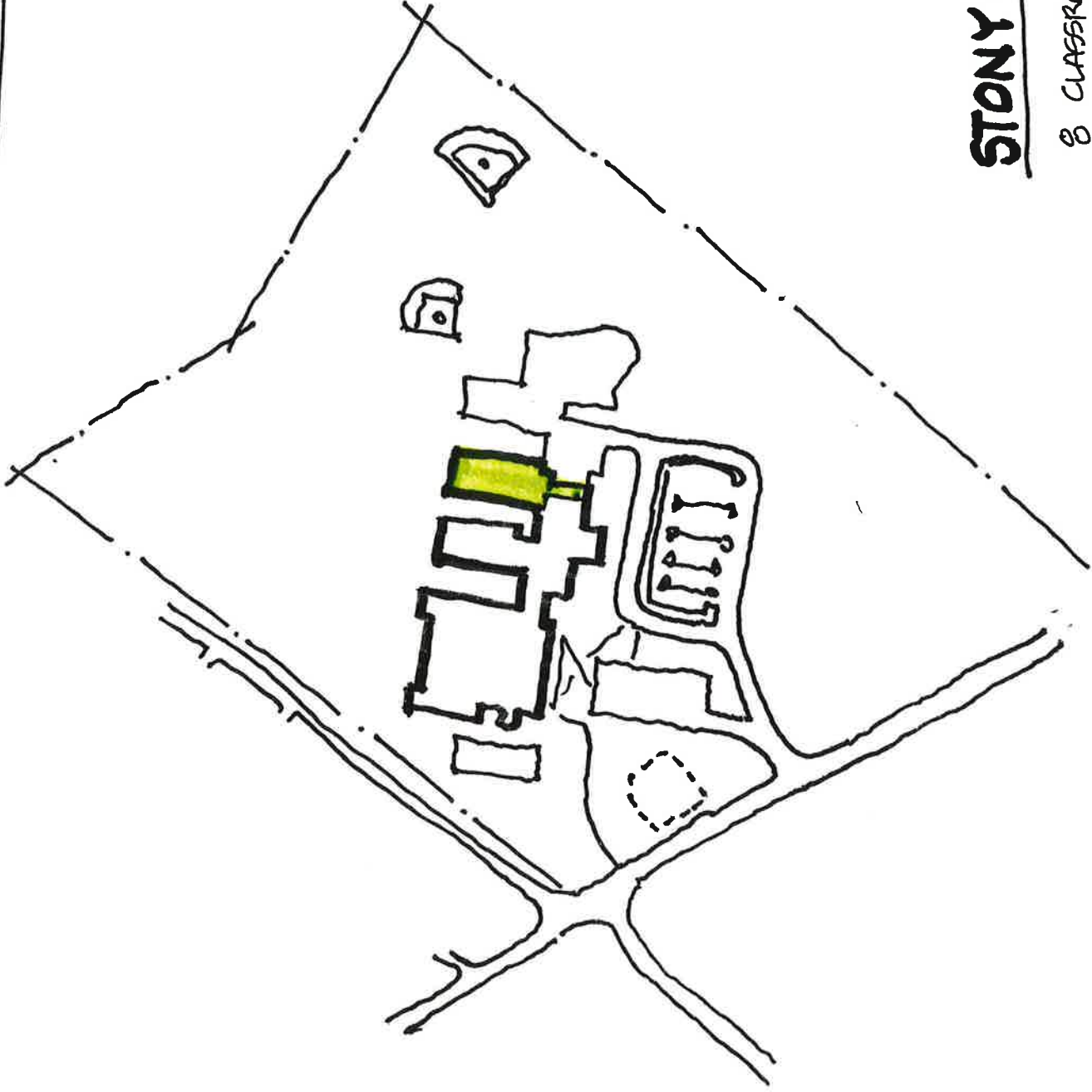
# STONY CREEK

5 CLASSROOMS ADDITION

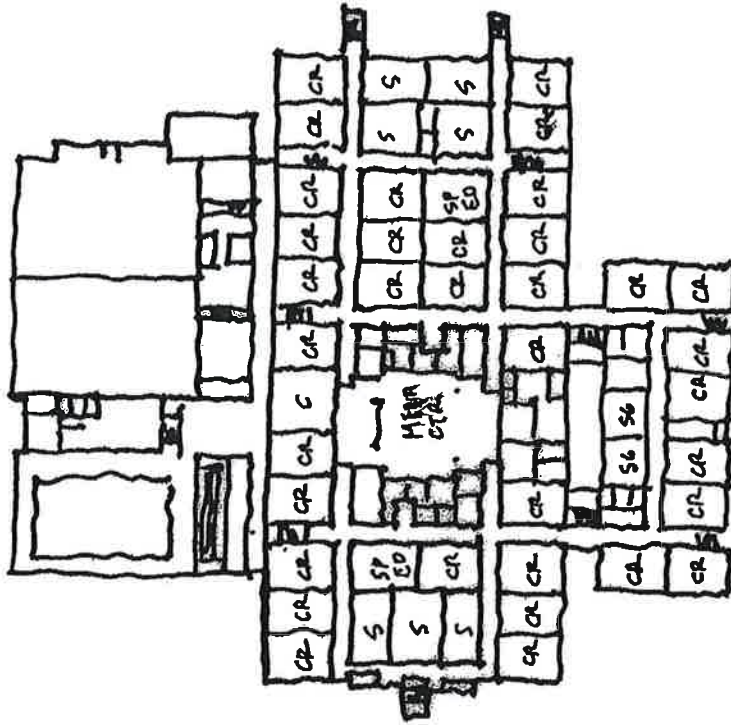


# STONY CREEK

8 CLASSROOM ADDITION



- 25 CLASSROOMS
- 2 SPECIAL ED
- 1 COMPUTER
- 7 SCIENCE CLASSRM



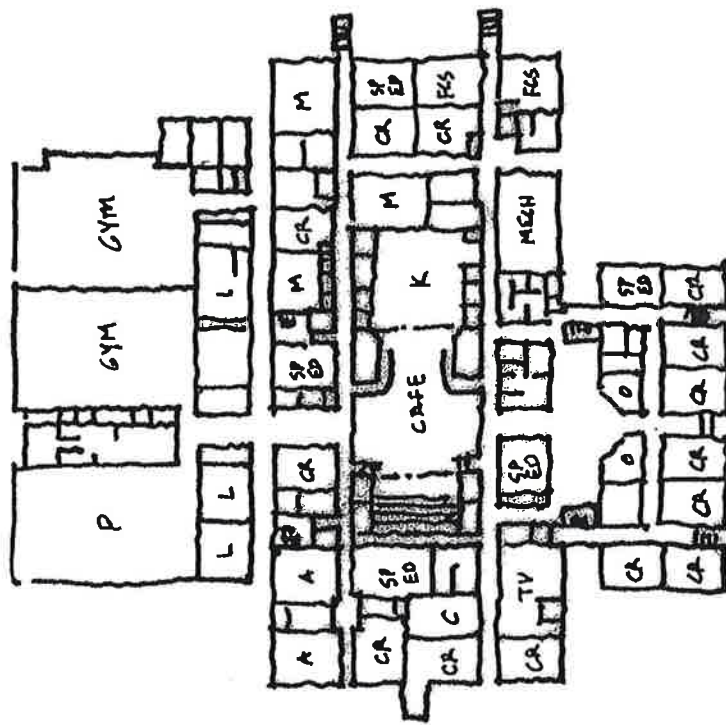
UPPER FLOOR

## MIDDLE SCHOOL



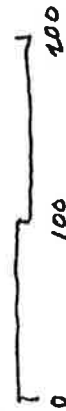


- 14 CLASSROOMS
- 5 SPECIAL ED
- 1 COMPUTER

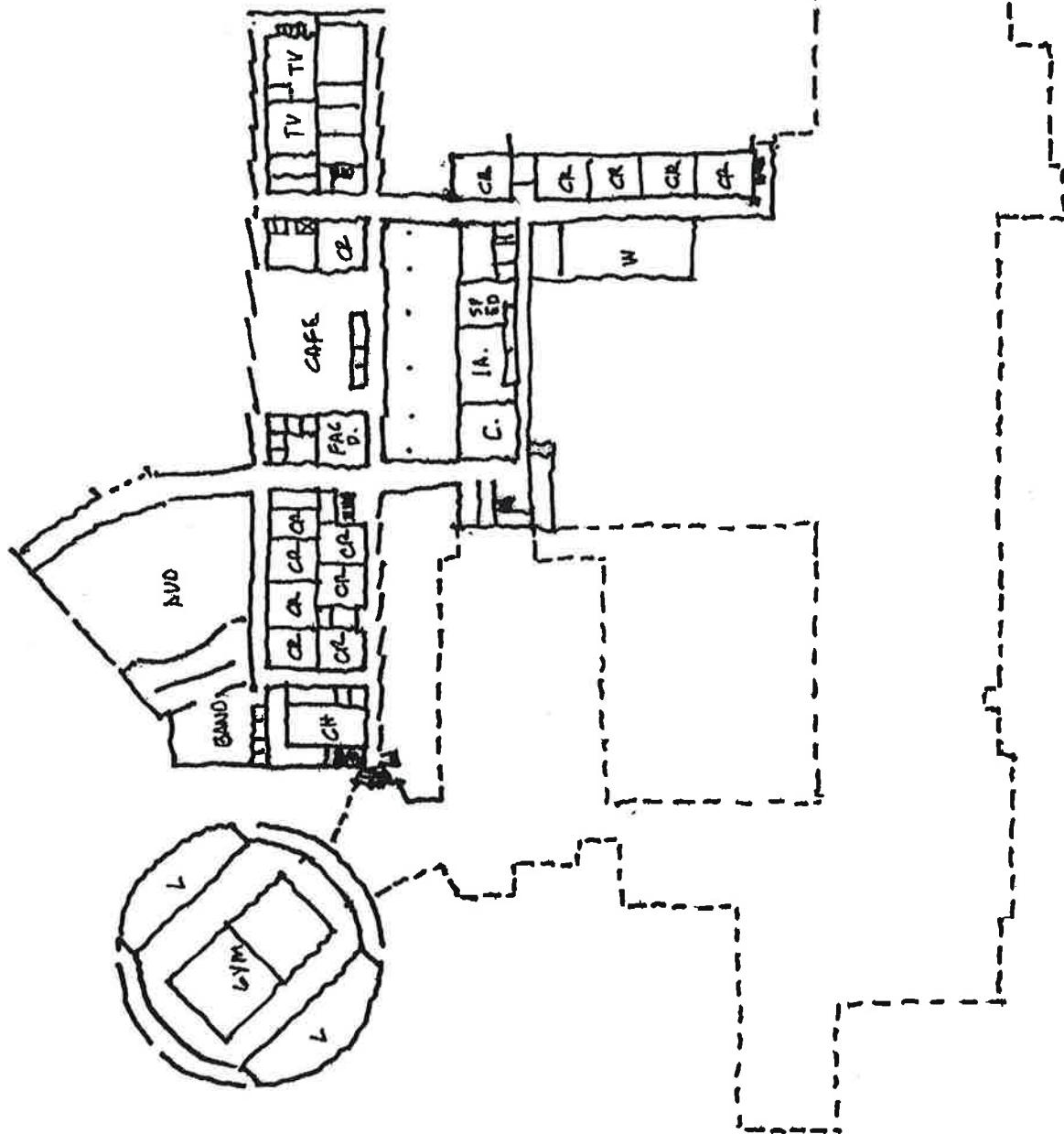


LOWER FLOOR

MIDDLE SCHOOL



12 CLASSROOMS  
1 SPECIAL ED  
1 COMPUTER



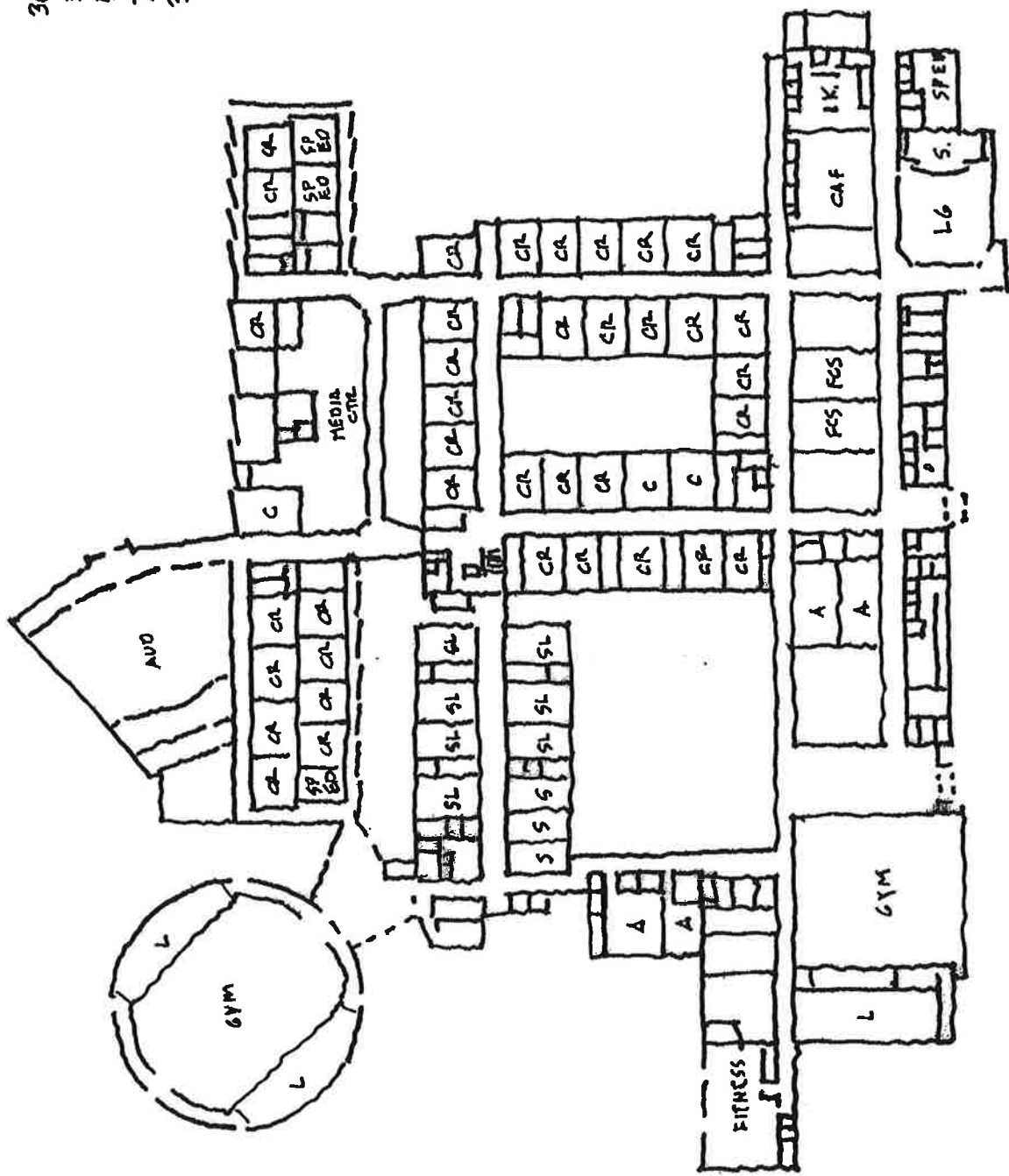
LOWER FLOOR

**HIGH SCHOOL**

0 100 200



- 36 CLASSROOMS
- 3 COMPUTER
- 5 SPECIAL ED
- 7 SCI. LABS
- 3 SCI CLASSROOMS



MAIN FLOOR

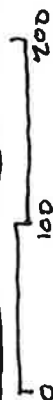
HIGH SCHOOL

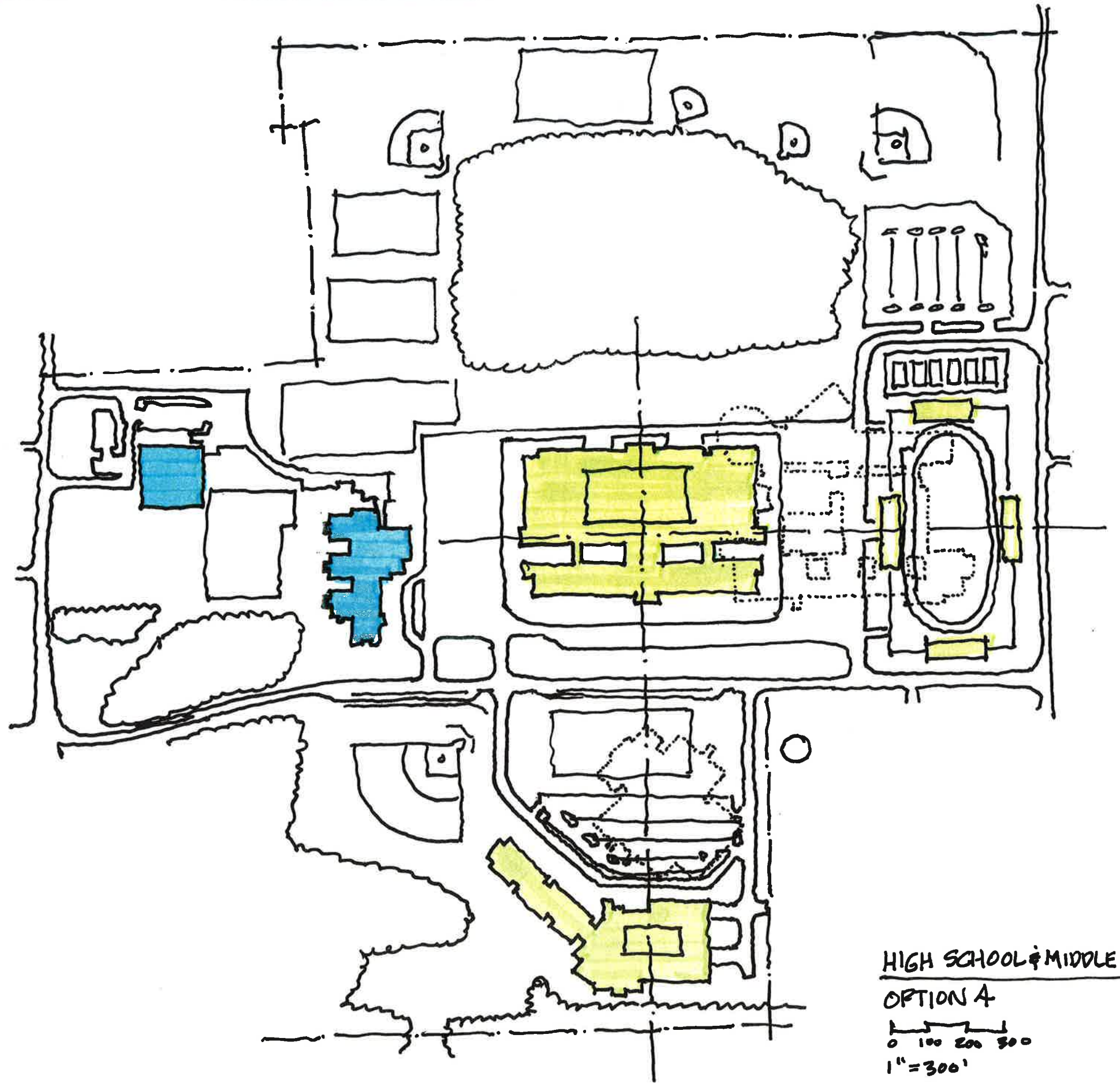


8 SCI. LABS  
4 SCI. CR  
0 CLASSROOMS

**TOOTH HILL**

## SECOND FLOOR

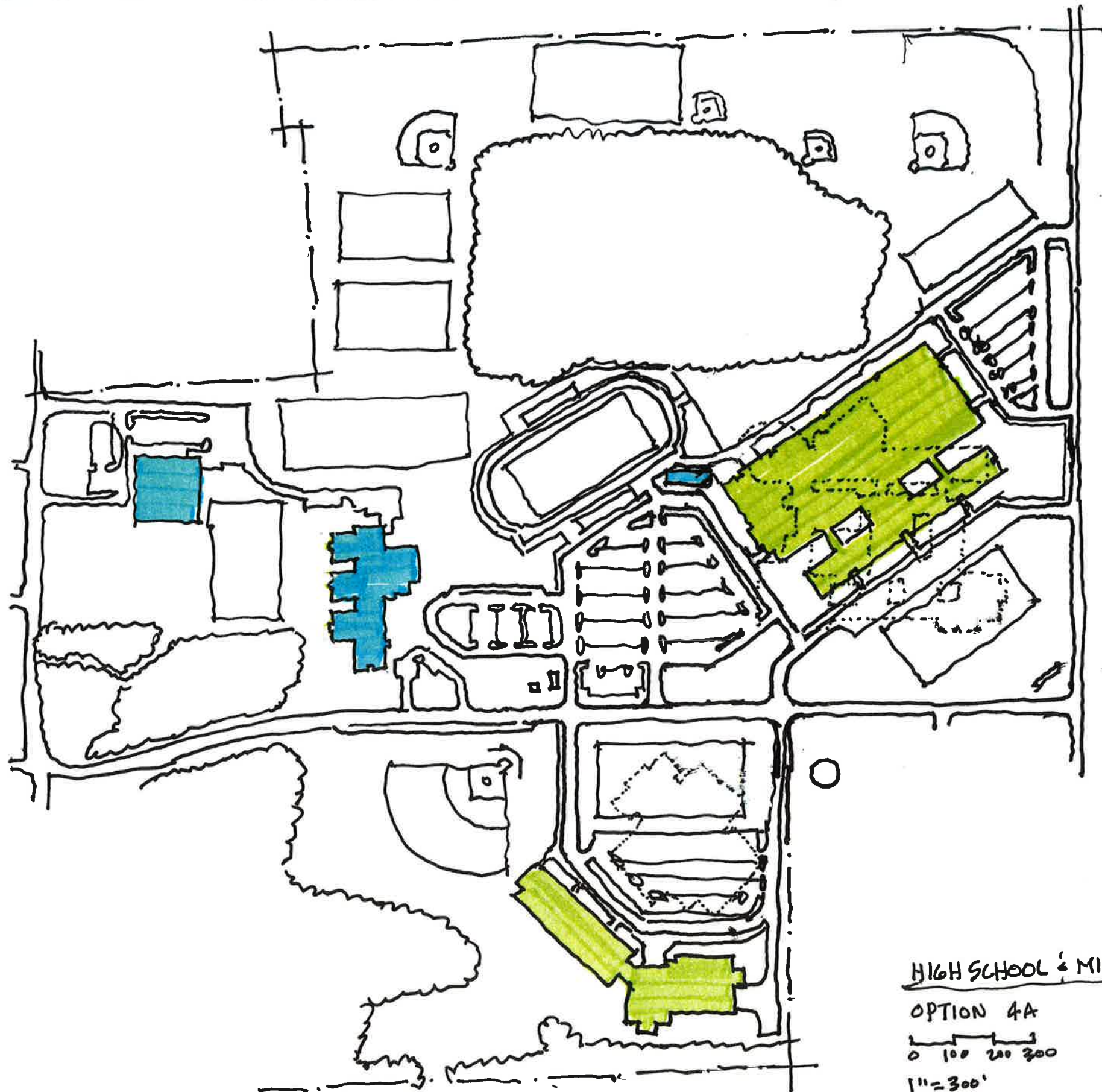




HIGH SCHOOL & MIDDLE SCHOOL  
OPTION 4

0 100 200 300  
1" = 300'





HIGH SCHOOL & MIDDLE SCHOOL

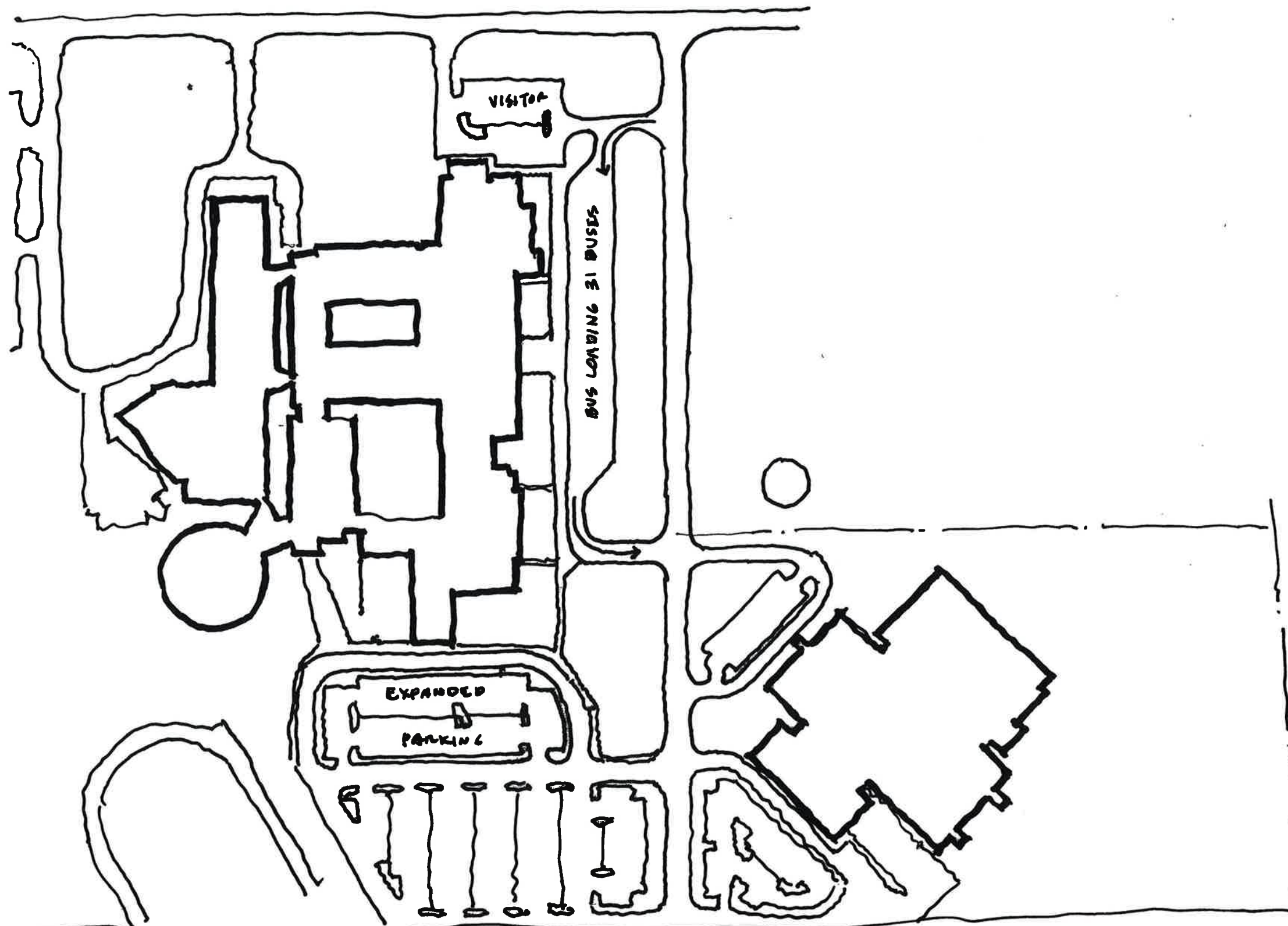
OPTION 4A

0 100 200 300

1"=300'

# HIGH SCHOOL

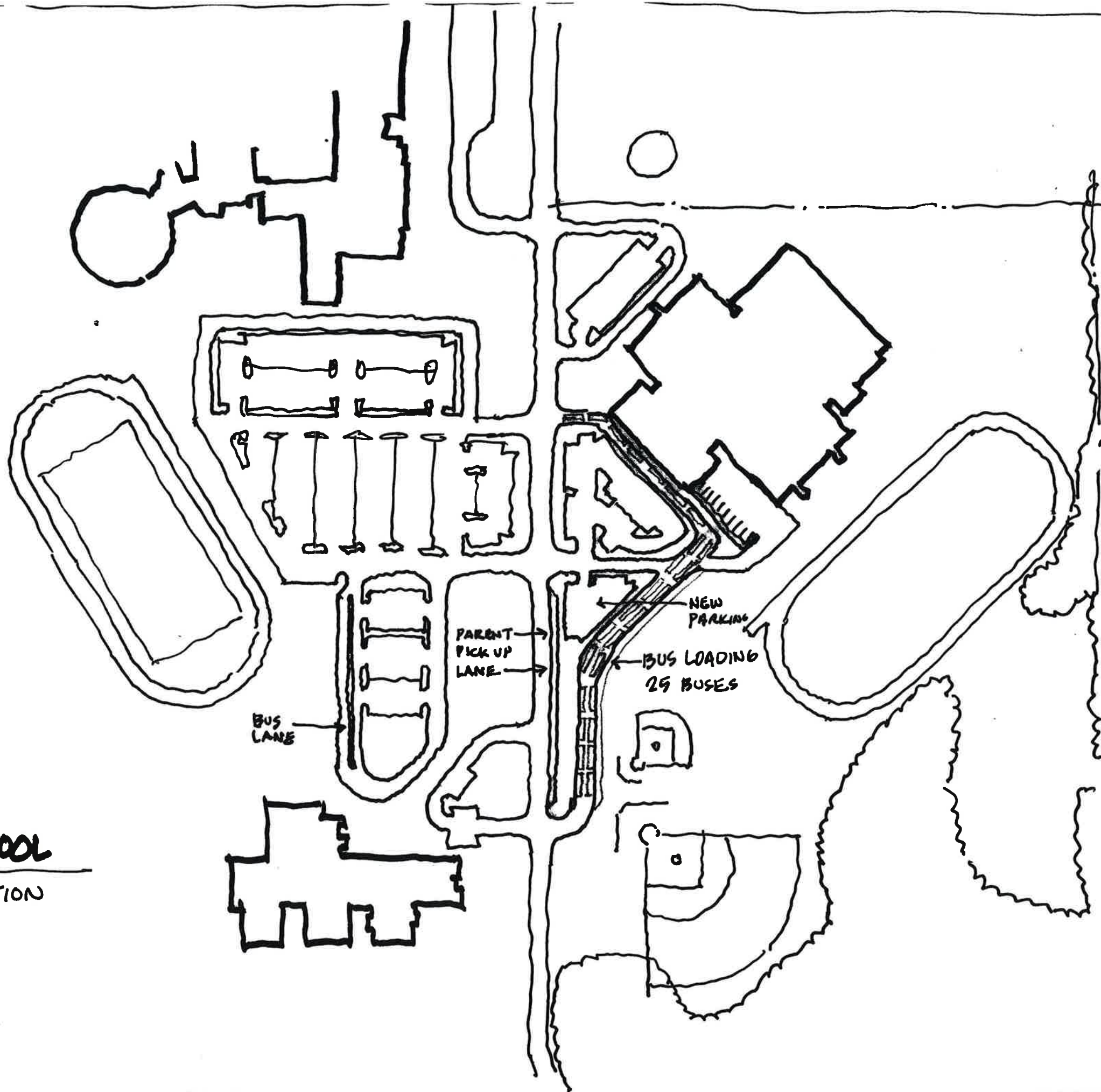
BUS LOADING OPTION





# MIDDLE SCHOOL

BUS LOADING OPTION



## WISSAHICKON SCHOOL DISTRICT FACILITIES STUDY

### Authors Credentials

**M. Arif Fazil** is the President of D'Huy Engineering, Inc. He holds a Bachelor of Science degree and a Masters of Science from Lehigh University. Mr. Fazil is a licensed professional Engineer, a Certified Construction Specifier, and LEED AP. He has worked on Capital Planning and Facilities Engineering projects involving large scale school design, construction, repair, and maintenance projects for over 20-years. He has extensive experience with state and local agencies including PlanCon and project budgeting.

**Robin Breslin** is the President of Breslin Ridyard Fadero Architects. He holds a Masters of Architecture degree from the University of Pennsylvania as well as a Bachelors of Architecture and a Bachelors of Art degree from Penn State.. Mr. Breslin has been responsible for the conceptual design and design development of major educational projects for Breslin Ridyard Fadero. Robin has completed 14 district wide feasibility studies and master plans.

**Charles W. Rightmyer, Jr.** is a Principal/Vice-President of Consolidated Engineers. Mr. Rightmyer has extensive management experience in the planning, design and construction of mechanical and electrical for a variety of educational projects ranging from smaller capital improvement project to the construction of multiple large school projects.





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***M. ARIF FAZIL, P.E., CCS, CCCA, LEED AP, CEM***

**Education**

Lehigh University, 1994  
Master of Science in Civil Engineering

Lehigh University, 1987  
Bachelor of Science in Civil Engineering

**Registration & Certifications**

Pennsylvania PE-044272-E  
Certified Construction Specialist  
Certified Construction Contract Administrator  
LEED Accredited Professional  
Certified Energy Manager

**Employment**

2000 to Present	President, D'Huy Engineering, Inc.
1999 to 2000	Vice President, D'Huy Engineering, Inc.
1995 to 1998	Senior Associate, D'Huy Engineering, Inc.
1993 to 1995	Senior Engineer, D'Huy Engineering, Inc.
1989 to 1993	Design Engineer, D'Huy Engineering, Inc.
1987 to 1989	Design Engineer, D'Huy Engineering

**Professional Affiliations**

American Society of Civil Engineers  
International Code Council  
Construction Specifications Institute, CDT, CCS, CCCA  
Lehigh Valley Industrial Park, Board of Directors, Building Committee  
Chi Epsilon (Civil Engineering Honor Society)  
Tau Beta Pi (National Engineering Honor Society)  
Association of Energy Engineers

**Experience**

Over 20 years of project management and facilities engineering involving large scale school design and construction; school repair and maintenance projects; extensive experience with state and local agency approvals. Development of design concepts; project specifications; field inspections, analysis and report preparation; structural analyses involving design, retrofit and forensic work; extensive experience and expertise in preparing capital plans, implementation of plans, budgeting and value engineering. Representative projects include:

- Tannery Bridge, Carbon and Luzerne Counties, PA
- Concrete Arch Bridge Falsework Collapse, Minneapolis, MN
- Comfort Suites Hotel, Allentown, PA
- Capital Improvements Plan, Bethlehem Area School District, Bethlehem, PA
- Freemansburg and Spring Garden Elementary School Additions, Bethlehem, PA
- Lehigh Valley Industrial Park (LVIP), Lots 20 and 21, Bethlehem, PA
- Merck Sharp & Dohme, West Point, PA
- Washington State Convention and Trade Center, Seattle, WA





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***M. ARIF FAZIL, P.E., CCS, CCCA, LEED AP, CEM***

**Experience (continued)**

- Old Farm Lake, Chappaqua, NY
- Health Club Pool, Equitable Real Estate Management Corp., New York, NY
- Pre-Heater Structure, Ciboning, Indonesia
- Broughal and Nitschmann Middle Schools Masonry Repairs and Restoration, Bethlehem, PA
- Clearview Elementary School Sinkhole Repair, Bethlehem, PA
- Library for the Blind & Handicapped Floor Slab Analysis, Trenton, NJ
- Ames Department Store Roof Collapse, Prince Frederick, MD
- Floor Investigation, 39 West 54th Street, New York, NY
- Sears Automotive Center, Whitehall, PA
- AT&T Cooling Tower, Allentown, PA
- Service Tire Warehouse and Building Addition, Allentown, PA
- East Hills Middle School and Nitschmann Middle School Additions, Bethlehem, PA
- Fountain Hill Elementary School Addition and Site Work, Bethlehem, PA
- Transportation Facility, Bethlehem, PA
- City of Allentown Parking Deck Repairs, Allentown, PA
- Calypso Elementary School New Building, Bethlehem, PA
- Farmersville Elementary School Renovations and Additions, Bethlehem, PA
- Freedom High School Laboratory Additions, Bethlehem, PA
- Liberty High School Laboratory Renovations and Additions, Bethlehem, PA
- Hanover Elementary School, Bethlehem, PA
- Miller Heights Elementary School, Bethlehem, PA
- Saucon Valley School District Campus, Hellertown, PA
- Governor Wolf Elementary School Renovations and Additions, Bethlehem, PA
- Buchanan Elementary School Renovations and Additions, Bethlehem, PA
- Saucon Valley School District Stadium Renovations and Additions, Hellertown, PA
- Lincoln Elementary School New Building, Bethlehem, PA
- Clearview Elementary School Renovations and Additions, Bethlehem, PA
- Capital Improvement Projects for Bethlehem Area School District and Saucon Valley Area School District
- Donegan Elementary School New Building
- Marvine Elementary School New Building
- Bethlehem Area Vocational Technical School Capital Improvements
- Springfield School District Capital Improvement Plan
- Lehigh Valley International Airport Roof Replacements
- Brandywine Heights Area School District Capital Improvements Plan
- Brandywine Heights Area School District New High School
- Northampton Area School District High School Additions and Renovations, Northampton, PA
- Perkiomen Valley School District New Elementary School, Collegeville, PA
- Quakertown Community School District New Middle School, Quakertown, PA
- Perkiomen Valley School District New Middle School, Collegeville, PA
- New Northeast Middle School, Bethlehem, PA
- Perkiomen Valley School District High School Additions and Renovations, Collegeville, PA
- Salisbury Township School District Middle School Renovations, Allentown, PA
- Salisbury Township School District Capital Improvements, Allentown, PA



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***M. ARIF FAZIL, P.E., CCS, CCCA, LEED AP, CEM***

**Experience (continued)**

- Washington Elementary School Additions and Renovations, Bangor PA
- Souderton Area School District New High School, Souderton, PA
- Freedom High School Additions, Bethlehem, PA
- Liberty High School Additions and Renovations, Bethlehem, PA
- Northampton Community College Student Activity Center, Bethlehem, PA
- Northampton Community College South Side Facility Renovations, Bethlehem, PA
- Upper Dublin School District, New High School, For Washington, PA
- New Broughal Middle School, Bethlehem, PA
- Northampton Area School District Stadium Renovations
- Bethlehem Area School District Stadium Renovations
- Easton Area School District Athletic Field Construction Projects
- Nazareth Area School District Stadium Renovations
- Nazareth Area School District Athletic Field Construction Projects
- Pennridge School District Athletic Field Construction Projects
- Salisbury Township School District Stadium Renovations



**ROBIN W. BRESLIN, A.I.A., President**  
Architect

Offering over 30 years of professional experience, Mr. Breslin has been responsible for the conceptual design and design development of major educational projects for Breslin Ridyard Fadero. Robin has completed several district wide feasibility studies and master plans as indicated below.

**Feasibility Studies**

- Wissahickon School District
- Whitehall-Coplay School District
- Octorara Area School District
- Chester County Intermediate Unit
- Kennett Consolidated School District
- Great Valley School District
- Northampton Area School District
- Nazareth Area School District
- Allentown School District

**Institutional Master Planning Experience**

- Mount Saint Mary's University, Emmitsburg, Maryland
- Alvernia University, Reading, Pennsylvania
- DeSales University, Center Valley, Pennsylvania
- Immaculata College, Immaculata, Pennsylvania
- Kent Polytechnical Campus, Dover Delaware

**General Educational Design Experience**

- Chester County Technical College High School – Brandywine  
Chester County Intermediate Unit, Downingtown, Pennsylvania
- Zephyr Elementary School  
Whitehall-Coplay School District, Whitehall, Pennsylvania
- Octorara High School Alterations and Additions  
Octorara Area School District, Atglen, Pennsylvania
- Chester County Technical College High School – Downingtown  
Chester County Intermediate Unit, Downingtown, Pennsylvania
- Whitehall High School Alterations and Additions  
Whitehall-Coplay School District, Whitehall, Pennsylvania
- New Transportation Facility  
Whitehall-Coplay School District, Whitehall, Pennsylvania
- New Elementary School  
Octorara Area School District, Atglen, Pennsylvania
- New Maintenance Building  
Octorara Area School District, Atglen, Pennsylvania
- Lehigh Career and Technical Institute Additions and Renovations  
Schnecksville, Pennsylvania
- Kennett High School Addition and Renovation  
Kennett Consolidated School District, Kennett Square, Pennsylvania



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**ROBIN W. BRESLIN, A.I.A., Principal (continued)**  
**Architect**

- Eagleville Elementary School  
Methacton School District, Norristown, Pennsylvania
- New Middle School  
Kennett Consolidated School District, Kennett Square, Pennsylvania
- New Middle School  
Great Valley School District, Malvern, Pennsylvania
- Holicong Middle School Addition and Renovation  
Central Bucks School District, Doylestown, Pennsylvania
- New Middle School  
Northampton Area School District, Northampton, Pennsylvania
- New Middle School  
Palisades School District, Kintnersville, Pennsylvania
- Virginia Gore Giovale Library  
Westminster College, Salt Lake City, Utah
- General Wayne Elementary School  
Great Valley School District, Malvern, Pennsylvania
- Charlestown Elementary School  
Great Valley School District, Malvern, Pennsylvania
- Central Dauphin East High School  
Central Dauphin School District, Harrisburg, Pennsylvania
- Polytech High School of Kent County  
Kent County Vocational Technical School District  
Woodside, Delaware
- Wallenpaupack North Elementary School  
Wallenpaupack Area School District, Hawley, Pennsylvania
- Wallenpaupack North Primary School  
Wallenpaupack Area School District, Hawley, Pennsylvania
- Wallenpaupack High School Field House Addition  
Wallenpaupack Area School District, Hawley, Pennsylvania
- State College Area High School Gymnasium/Natatorium Addition  
State College Area School District, State College, Pennsylvania
- Central Elementary School  
School District of the City of Allentown, Allentown, Pennsylvania
- Sheridan School  
School District of the City of Allentown, Allentown, Pennsylvania
- KidsPeace Educational Center  
Bethlehem, Pennsylvania
- Trexler Library  
DeSales University  
Center Valley, Pennsylvania
- McShea Student Center  
DeSales University, Center Valley, Pennsylvania
- Student Recreation and Fitness Center  
DeSales University, Center Valley, Pennsylvania
- Alvernia College Library  
Reading, Pennsylvania
- Alvernia College Physical Education Center  
Reading, Pennsylvania



**ROBIN W. BRESLIN, A.I.A., Principal (continued)**  
**Architect**

- Alvernia College Cultural Center  
Reading, Pennsylvania
- Immaculata College Library  
Suburban Philadelphia, Pennsylvania
- Upper Dublin High School  
Upper Dublin School District, Fort Washington, Pennsylvania
- Lebanon Valley College Library  
Annville, Pennsylvania
- Central Bucks West High School Addition and Renovation  
Central Bucks School District, Doylestown, Pennsylvania

**Registration**

Registered Architect: Pennsylvania, New Jersey, Maryland, Virginia and Delaware

**Professional Affiliations**

Pennsylvania Society of Architects  
American Institute of Architects  
NCARB Certified

**Civic Affiliations**

Former director, Board of Directors of the Pennsylvania Shakespeare Festival at  
DeSales University  
Former director, Board of Directors of the Northwest SC

**Academic Positions**

Pennsylvania State University, Visiting Critic, Architecture  
Lehigh University, Visiting Critic, Architecture  
Northampton Area Community College, Visiting Critic, Architecture

**Honors**

Recipient of the James Smyth Warner Memorial Prize as the outstanding student in  
architecture at the University of Pennsylvania 1984  
Recipient of the Skidmore, Owens and Merrill Scholarship 1984  
Recipient of University of Pennsylvania Student Scholarship 1983

**Education**

University of Pennsylvania, Master of Architecture 1984  
Penn State University, Bachelor of Architecture 1983  
Penn State University, Bachelor of Arts 1982

**Foreign Study**

Ahmenadabad University, Ahmenadabad, India 1984  
Technische Hochschule, Darmstadt, West Germany 1981



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## **CHARLES W. RIGHTMYER, JR., Principal/Vice President**

Mr. Rightmyer has over 40 years of experience in project management, supervision and design of HVAC, plumbing and fire protection systems for a variety of education design projects. Mr. Rightmyer has been the Principal-in-Charge and Project Manager of numerous Consolidated Engineers projects. He is responsible for all phases of project management and design, including conceptual design through project completion, in addition to client interface, manpower scheduling, and establishment of construction cost estimates and field observation. Mr. Rightmyer works directly with the Owner and/or Architect to establish scope of work, develop project costs, coordinate designs of engineering disciplines and completes projects on schedule and within budget. He also manages the bidding process, including construction observation.

### **Educational Feasibility Study Experience**

- Great Valley High School Feasibility Study  
Great Valley School District, Malvern, Pennsylvania
- Sugartown Elementary School Feasibility Study  
Great Valley School District, Malvern, Pennsylvania
- Kennett Consolidated High School Feasibility Study  
Kennett Consolidated School District, Kennett Square, Pennsylvania
- Whitfield Elementary School Feasibility Study  
Wilson School District, West Lawn, Pennsylvania
- Air Conditioning Feasibility Study  
University of Delaware, Newark Delaware
- Reading Muhlenberg Area Vo-Tech School Feasibility Study  
Reading, Pennsylvania
- Conrad Weiser Middle School Feasibility Study  
Conrad Weiser School District, Robesonia, Pennsylvania
- Lower Southampton Elementary School Feasibility Study  
Neshaminy School District, Langhorne, Pennsylvania
- Poquessing Middle School Feasibility Study  
Neshaminy School District, Langhorne, Pennsylvania
- C.E. Cole Elementary Center Feasibility Study  
Muhlenberg School District, Reading, Pennsylvania

### **College and University Design Experience**

- New Chester County Technical College  
Chester County Intermediate Unit, Chester County, Pennsylvania
- Silver Residence Hall HVAC Renovations  
Lebanon Valley College  
Annville, Pennsylvania
- Lynch Memorial Hall Renovations  
Lebanon Valley College  
Annville, Pennsylvania
- Miller Chapel Air Conditioning Study  
Lebanon Valley College  
Annville, Pennsylvania
- New Residence Building  
Albright College, Reading, Pennsylvania

## **Consolidated Engineers**





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**CHARLES W. RIGHTMYER, JR.,** Principal/ Vice President  
(continued)

**General Educational Design Experience**

- Upper Perkiomen Middle School  
Upper Perkiomen School District, Pennsburg, Pennsylvania
- Octorara High School Additions and Renovations  
Octorara Area School District, Atglen, Pennsylvania
- Octorara Intermediate School  
Octorara Area School District, Atglen, Pennsylvania
- Whitehall Elementary School  
Whitehall-Coplay School District, Whitehall, Pennsylvania
- New Souderton Area High School  
Souderton Area School District, Souderton, Pennsylvania
- New Vernfield Elementary School  
Souderton Area School District, Souderton, Pennsylvania
- Sugartown Elementary School  
Great Valley School District, Malvern, Pennsylvania
- Great Valley High School  
Great valley School District, Malvern, Pennsylvania
- New Middle School  
Great Valley School District, Malvern, Pennsylvania
- General Wayne Elementary School  
Great Valley School District, Malvern, Pennsylvania
- Charlestown Elementary School  
Great Valley School District, Malvern, Pennsylvania
- Conrad Weiser Middle School Renovations  
Conrad Weiser School District, Robeson, Pennsylvania

**Professional Affiliations**

American Society of Heating, Refrigerating and Air-Conditioning Engineers

**Education**

Various ASHRAE courses relative to HVAC engineering and design



# **WISSAHICKON SCHOOL DISTRICT**

## **FACILITIES STUDY**

**September, 2011**

**Prepared by:**

**Wissahickon School District**



**&**



**D'HUY Engineering, Inc.**