Classroom Addition
Educational Specification

Arundel Middle School

June 5, 2019
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FOREWORD

The purpose of an educational specification is to document the optimum teaching and learning environment, consistent with fiscal constraints, for the education of the children of Anne Arundel County. The project shall provide a healthy and safe environment, which is constructed in accordance with all applicable laws, regulations and codes.

Educational Specification - This portion of the document consists of components from the standard middle school educational specification necessary for the construction of a classroom addition, with an Add Alternate for a possible cafeteria expansion.

- **Section 1** summarizes the impact on the individual school proposed for this fiscal year.
- **Section 2** provides a general description of the proposed site requirements and building systems.
- **Section 3** describes the activity areas of the school and data sheets for spaces.
- **Section 4** summarizes the spatial requirements.
**SECTION 1 – SCHOOL SPECIFIC INFORMATION**

**INDIVIDUAL SCHOOL IMPACT**

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<thead>
<tr>
<th>Arundel Middle School</th>
<th>Current</th>
<th>Proposed</th>
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<tbody>
<tr>
<td>Classrooms to be added</td>
<td>10</td>
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<tr>
<td>State Rated Capacity (SRC)</td>
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<td>Project Budget Estimate</td>
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*Includes 2,143 GSF for Add Alternate for cafeteria expansion

**Notes**
1. Current enrollment is based on the actual full time equivalent enrollment as of September 30, 2018.
2. Current State Rated Capacity (SRC) is based on the July 2018 Educational Facilities Master Plan.
3. Proposed Full Time Enrollment is based on the July 2018 Educational Facilities Master Plan projections for the 2021-22 school year.
4. Proposed SRC is based on anticipated classroom utilization, including return of relocatable usage to within the building. Actual SRC will be determined by actual room usage in December 2021.

**PROPOSED PROJECT SCHEDULE**

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<tr>
<td>Educational Specifications</td>
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<td>June 2019</td>
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<tr>
<td>Schematic Design Documents</td>
<td>July 2019</td>
<td>October 2019</td>
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<td>Design Development Documents</td>
<td>October 2019</td>
<td>January 2020</td>
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## SECTION 2 – PROJECT DESIGN FACTORS

### GENERAL CRITERIA

| Accessibility | The project will be accessible to all individuals with disabilities including sight, hearing and mobility impaired. The project shall be in compliance with *Americans with Disabilities Act Accessibility Guidelines (ADAAG)* and 2010 Standards for Accessible Design. |
| Acoustics     | Providing the acoustical qualities necessary for good speech communication between students and teachers is very important to the learning process. For performance criteria, design requirements, and guidelines on acoustics, refer to:  
| Building Security & Site Safety | Security will be based on Crime Prevention through Environmental Design (CPTED). These strategies include:  
- Natural Surveillance - A design concept directed primarily at keeping intruders easily observable. Promoted by features that maximize visibility of people, parking areas and building entrances: doors and windows that look out on to streets and parking areas; pedestrian-friendly sidewalks and streets; front porches; adequate nighttime lighting.  
- Territorial Reinforcement - Physical design can create or extend a sphere of influence. Users then develop a sense of territorial control while potential offenders, perceiving this control, are discouraged. Promoted by features that define property lines and distinguish private spaces from public spaces using landscape plantings, pavement designs, gateway treatments, and "CPTED" fences.  
- Natural Access Control - A design concept directed primarily at decreasing crime opportunity by denying access to crime targets and creating in offenders a perception of risk. Gained by designing streets, sidewalks, building entrances and neighborhood gateways to clearly indicate public routes and discouraging access to private areas with structural elements.  
- Target Hardening - Accomplished by features that prohibit entry or access: window locks, dead bolts for doors, and interior door hinges.  
- Additional security items are described in individual paragraphs below. |
| Life Safety/Building Codes | The design of the project will comply with all applicable statutes, codes and regulations which are or will be in place at the time the construction documents are reviewed by Anne Arundel County code officials and the Interagency Commission on School Construction. Such statutes, codes and regulations include-- but are not limited to-- the International Building Code series as implemented by Anne Arundel County, NFPA Life Safety Codes, storm water management and sediment control statutes and regulations, Americans with Disabilities Act, Maryland Accessibility Code, MSDE technical bulletins, and the design guidelines contained in the Anne Arundel County Public Schools Indoor Air Quality Management Plan. The Interagency Commission on School Construction, Maryland Emergency Management Agency, State Department of General Services, Anne Arundel County Permit Application Center, and Anne Arundel County Fire Marshal’s office shall review construction documents. |
| Operability and Maintainability | Buildings are expected to have a minimum 50-year life span. Building structure will be:  
- brick/block exterior wall (masonry bearing or steel structure)  
- steel roof and structural steel interior support  
- concrete slab on grade  
- steel and concrete floor deck at upper floor (where applicable) |
Exterior materials should require minimal or no painting.
Overhangs and canopies will have no exposed beams. All exterior areas must have ceilings or soffits.
Hanging objects (beams, light fixtures, sprinkler pipes, etc.) will be high enough to prevent students from reaching. Particular care to be taken at stairways.

Sustainability
Throughout this document, specific items are referenced that will provide a high performance, sustainable facility. The design and construction should attempt to meet the requirements to achieve a certified rating under LEED by considering the following criteria. Actual LEED application and certification is not required.
- Community context and use
- Site design
- Building design
- Water conservation and management
- Energy efficiency including— but not limited to—solar and geothermal
- Reduced and sustainable material use
- Indoor environmental quality (healthy buildings)
- Quality assurance/commissioning

BUILDING CRITERIA

Hazardous Materials
- No asbestos or lead-containing materials will be specified or used and their absence in the design will be certified to the Owner.

Adhesives and Sealants
- All adhesives and sealants installed in the building interior (defined as inside of the weatherproofing system and applied on-site) shall have low or no Volatile Organic Emissions (VOC).

Roofing
- The built up roof will have sufficient pitch and drains to assure that rainwater will not accumulate. Minimum ¼” slope per 1'-0”.
- Internal roof leaders are to be used where possible. Downspout and overflow should not pour onto lower roofs.
- Roof shall comply with the Maryland DGS roof requirements.
- All elevations of roofs must be accessible by ladder. Interior roof access is preferable.

Doors and Windows
- Fenestration will be designed to maximize daylighting while addressing energy conservation; at least two operable windows will be provided in each classroom, if possible.
  - Windows in new construction shall be single-hung or inswing hopper, as appropriate to the building style and context.
  - Windows in a renovation/ addition shall match existing building style.
  - Windows shall be readily operable from within classroom, without need for stepstool.
  - Windows in teaching spaces will have 4-inch limiters.
  - Provide charcoal aluminum screens on all operable windows.

  Door Hardware
  - Follow AACPS Hardware, Wood Door and Hollow Metal Standard Specifications.
  - All room doors where students may occupy (classrooms, offices, etc.) will have a vision panel and be lockable inside and out. Classroom doors will be lockable from inside using a thumb latch.
  - High use doors, such as fire doors in corridors, to be held open with magnetic door holders wired to the fire alarm.
  - Exterior pulls to be provided at doors with proximity locks only, unless otherwise required by code.
  - Main exterior entrance doors to be full glass.

Finishes
- Ceilings
  - All student rest rooms, including group rest rooms in renovation projects, shall have 5/8” moisture resistant gypsum wallboard. Provide access panels as required.
- All other interior ceilings shall be standard grid and 2’ x 4’ tile. Acrylic finishes shall be used at all moisture-laden environments.
- Walls—see Data Sheets for specific locations of wall materials
  - Painted CMU
  - 5/8” abuse resistant gypsum wallboard.
  - In high-traffic areas that do not have CMU, provide 5/8” abuse-resistant gypsum board protected by ceramic tile or other protective material to 5 feet above finish floor.
  - In wet areas, provide moisture-resistant gypsum wall board protected by ceramic tile wainscoat
- Flooring –see Data Sheets for specific locations of floor materials.
  - Vinyl Composition Tile
  - Carpet or VCTT (Vinyl Cushion Tufted Textile)
  - Quartz Tile
  - Quarry Tile
  - Sealed Concrete
  - Terrazzo (at renovations to match existing or as an alternate for corridors; to be determined during design in conjunction with AACPS Project Manager)
  - All flooring installed in the building interior shall have low or no Volatile Organic Emissions (V.O.C.).
- Painting
  All painting and coating materials, both interior and exterior, to be free of lead and mercury. Materials shall have low or no V.O.C. in compliance with state and local regulations.

Specialties
See Division 10 SPECIALTIES of the AACPS Design Standards for additional information on the following items:
- Visual Display Boards
- Interior Signage
- Toilet Compartments
- Operable Partitions
- Toilet, Bath and Laundry Accessories
- Fire Protection Specialties
- Lockers
- Flagpole
- Marker boards
  - Mounting height: coordinate with adjacent Interactive Whiteboard at teaching walls; typical top-of-board mounting height to be in the range between 80-84”
- Tack boards
  - Mounting height: typical top-of-board mounting height to be in the range between 6'-8” and 7'-0”
- Building Identification Signage
  - Provide signage on building face, near main entrance door, identifying school name and address.
  - Verify with authorities having jurisdiction over signage for any limitations or requirements.

Equipment
- Provide appropriate wall blocking for wall mounted LED projectors (Projector will be supplied and installed by Owner). Location to be coordinated with type of unit being purchased (i.e. ultra-short throw, standard, etc.). Coordinate with all necessary electric, video and data cabling.

Furnishings
See Division 12 - FURNISHINGS of the AACPS Design Standards for additional information on the following items:
- Horizontal louver blinds
- Educational casework
- Laboratory casework
- Typical Classroom Casework
  - Laminated materials (plastic laminate, plywood, etc.) will be raised off floor to prevent water from being absorbed during floor washing.
- Provide locks on all wardrobe unit doors, on Teaching station cabinets (file cabinet, CPU cabinet, and overhead cabinet)
- Provide locks at all science casework.

**Fire Suppression**  
See Division 21 – FIRE SUPPRESSION of the AACPS Design Standards for additional information.

**Plumbing**  
See Division 22 – PLUMBING of the AACPS Design Standards for additional information.
- All plumbing fixtures used at consumable outlets shall deliver drinking water with lead levels below 5 parts per billion (ppb).
- Where floor drains are required they shall be 4” minimum.
- All traps will have trap primers. Typical trap primers shall be flush valve type. Where flush valve type impractical provide timers.
- Frost-proof hose bibs shall be provided to water plantings around outside of building and at receiving area. Signs indicating “Non-potable Water” shall be installed at such locations.
- Separate hot water heater with 125-gallon capacity. Hot water temperature at the discharge location shall be 110°F.

**Mechanical System**  
See Division 23 – HVAC of the AACPS Design Standards for additional information.
- Existing HVAC system will be evaluated for expansion capacity for new addition.
- Roof top units, chillers and boilers should have a 20-year warranty.
- Exhaust fans are to be belt driven. All exhaust air vented to outside of the building at a sufficient distance from air intakes to prevent recirculation.
  - Where hazardous gases or chemicals may be present or used (including garages, housekeeping/laundry areas, science laboratories, prep rooms, art rooms, shops of any kind, and copying/printing rooms), exhaust each space sufficiently to create negative pressure with respect to adjacent spaces with the doors to the room closed.
- Meet or exceed current IAC energy conservation guidelines

**Climate Control**  
- Heating, ventilation, and air conditioning (HVAC) systems shall comply with all codes which are in effect at the time the construction documents are reviewed for code compliance. Temperature standards are:
  - Heating: 70°F Fahrenheit in all rooms
  - Cooling: 76°F Fahrenheit
  - Humidity: in accordance with current codes
- Air intakes shall be placed to avoid any potential sources of air contaminants but no less than 25 feet. Sources include sewer vents, grease traps, exhaust air from school, loading docks, bus loading areas, garbage receptacles, boiler or generator exhausts, and mist from cooling towers.
- A direct digital control system AACPS standard energy management system is required. System will communicate with central management located at Facilities complex.

**Electrical and Interior Lighting**  
See Division 26 – ELECTRICAL of the AACPS Design Standards for additional information.
- Use only copper conductors within perimeter of building.
- 480V equipment shall have combination starters.
- Provide power correction factors and phase loss monitors on major equipment items.
- Receptacle protection:
  - No receptacles close to a water faucet or other water source.
  - GFCI to be controlled by circuit breakers in electrical closet as opposed to individual GFCI outlets.
- Receptacles dedicated to equipment:
  - Video Projector: ceiling mounted adjacent to video projector.
  - Copiers
  - Laminators
  - Goggle sanitizer cabinets
Lighting should be stimulating, enrich the educational environment while enhancing the educational program.
- Where possible, provide natural daylight in all classrooms.
- Lights shall be LED.
- Lighting levels shall be adjustable for the variety of functions that occur within room.

**Special Electrical Systems**
- Clocks shall tie in with existing system:
  - Analog electric operated stem set clocks for classrooms. Clocks should allow for wireless synchronization with master clock.
  - Corridors, gymnasium, cafeteria, and main office clocks are to be electric and shall be connected to a central clock system.

**Data Communications General Capabilities**
See Division 27 – COMMUNICATIONS of the AACPS Design Standards for additional information.
- Because of the rapid changes in technology, this section will address the current standards only. Every attempt will be made to provide the latest approved technology requirements at the time of the opening of a facility.
- This section will address the infrastructure design in support of a complete wiring and wireless distribution system throughout the addition for transmitting voice, video, and data communications in support of high capacity internet access. Telecommunications and electrical outlets will be provided in all instructional, administrative, and support spaces within the addition as defined in appendix A of the Maryland State Department of Education, Maryland Public School Standards for Telecommunications Distribution Systems.
- Every new classroom will have a wireless network hub.
- A typical teaching space, not including resource rooms or gymnasium will have:
  - **Interactive Whiteboard** - FF&E
    - 16:10 aspect ratio
    - Size: approximately 78"w x 52"h overall
    - **Location:** Integrated between teaching wall with adjacent marker boards
  - **Sound Enhancement System**
    - 4 speaker infrared system to evenly distribute music or voice through speakers placed around the classroom. Multiple sources:
      - computer
      - wireless microphone that amplifies the teacher’s voice 8-10 decibels.
      - intercom
    - Amplifier to be located in Computer cabinet at teaching station.
  - **PA system**
    - Two-way intercom communications with emergency alert system to include classroom initiated open mike between all instructional areas and the administrative office.
    - **Location:** Ceiling mounted speakers as described above. Provide call back near entrance door in every room. Telephone handset units at teacher's desk.
  - **Video Projector** – FF&E
    - Ultra-short throw device, projecting onto an interactive white board. In addition to working with the interactive whiteboard, teacher’s computer, and document camera, projector will also provide television service to classroom.
    - Location: wall mounted.
  - **Document camera** – FF&E
    - Video feed from teacher’s computer to video projector.
    - Location: teaching station
  - **Teacher Computer and Printer** – FF&E
    - 1 computer and network color printer.
    - Location: Teaching station. Speaker connection to amplifier described above. VGA connection to monitor. S-video connection to document camera.
  - Students and staff will have access to the network from any location in the addition including corridors. This may be a hard wired connection or wireless as appropriate. The network capacity should be capable of supporting a 1/1 computer/student and...
staff ratio. High capacity (i.e. full graphics, sound and video) internet access from new classrooms and other instructional and critical support areas.

**Data Communications**
- See end of this section for chart of rooms and minimum requirements.
- Additional requirements are shown in individual room descriptions.

**Voice Communications**
- Provide telephone handset units at each teacher’s desk/workstation in classroom; verify existing telephone system capacity.
- Two-way intercom communications with emergency alert system to include classroom initiated open microphone between all instructional areas and the administrative office. Provide call back near entrance door in every room.
- Public address system will have all call, zoning, and individual room capability.

**Electronic Safety and Security**
See Division 28 – FIRE ALARM AND SECURITY of the AACPS Design Standards for additional information.
- Intrusion Detection
  - Alarms and door contacts will be integrated into one control system with the ability to have central controls.
  - All mechanical/electrical and roof hatches will be alarmed and have door contacts.
  - All exterior entry doors will be monitored via sensor or contact.
  - 360-degree motion detectors will be located in center of the room.
  - Provide a flat plate sensor (proximity reader), activated by an authorized smart-card, to unlock the exterior doors which are used as entrances/exits. Locations to be determined during design in conjunction with AACPS Project Manager.
  - Provide a flat plate sensor to deactivate the intrusion detection system. Where possible, the flat plate sensors (proximity readers) should be flush mounted or behind a glass panel with in-wall wiring.
- Video Surveillance
  - Extend current camera system.
  - All cameras will be color cameras.
  - Cameras will be designed with Internet/Digital recorded technology, pan, tilt and zoom (PTZ) features and/or fixed lens that can be monitored with proper access from any computer on the network or internet.
  - Cameras will be Power Over Ethernet (POE) type and configuration.
  - For exterior cameras, provide low voltage wiring to allow operation of PTZ feature.
  - Exterior cameras will be installed on the exterior perimeter walls positioned to provide maximum coverage (generally on corners) of the exterior of building. These cameras to be PTZ or fixed as required for location and use. Exterior cameras that do not have adequate night lighting will have low light capability.
  - For outdoor pole cameras, provide 120V AC power plus fiber.
- Fire Alarm and Detection System
  - System to be designed to meet latest code requirements and AACPS standardized components.
  - Update annunciator panel building graphic floor plan and alarm points to reflect addition and existing building modifications.
  - Avoid placing fire alarm devices on teaching wall if possible. If unable to avoid this wall, place devices where there are no display boards.

**SITE CRITERIA**

**Exterior Lighting**
- Security: Provide building perimeter and entry door lighting in accordance with CPTED.
- Light Pollution Reduction:
  - Design exterior lighting so that all site and building mounted luminaires produce a maximum initial illuminance value no greater than 0.10 horizontal and vertical foot-candles at the site boundary and no greater than 0.01 horizontal and vertical foot-candles 10 feet beyond the site boundary.
  - Lighting fixtures should be high lateral cut off type to eliminate up lighting from the site.
- Parking lot lighting:
- One (1) foot-candle minimum
- Use LED lamps.
- Include photocell and/or timer and connect to energy management system.
- Use conduit for exterior lighting and install pole lighting on bases 24" above grade. Conduit will have trace tape.
- Where security cameras are installed on light poles, provide separate conduit for camera’s wiring.

**Site Circulation**

- Emergency Vehicles:
  - A minimum of a 20 foot wide fire lane shall be provided and constructed in accordance with current guidance from the Anne Arundel County Fire Marshal. Such guidance shall be obtained in writing from the Office of the Fire Marshal prior to initiation of site design.
  - Provide hinged gate at the end of the emergency access path where it meets vehicular drives to prevent use of path by other than emergency vehicles. Design should prevent vehicles from driving around gates (bollards, landscaping, etc.).

**Playing Fields**

- Required only if replacing existing fields due to construction location.

**Landscaping**

- Landscaping should provide exterior educational opportunities in accordance with the MSDE facility guide, Conserving and Enhancing the Natural Environment.
- Landscaping shall be in accordance with CPTED. Tree placement must not block exterior lighting, create a security problem, or brush up against building surfaces.
- Landscaping to support energy conservation and relate the building to the site with aesthetic appeal shall be included.
- Low maintenance native Maryland plant material to be specified throughout the site. Refer to MSDE document, Conserving and Enhancing the Natural Environment: A Guide for Planning, Design, Construction and Maintenance on New and Existing School Sites.
- All plants are to be number one grade stock. Improved varieties that are disease and drought resistant are desired.
- Planting is to include screen planting and that needed for erosion control.
- Existing plant stock, if on site, is to be evaluated for use and protected accordingly.
- Planting areas are to be situated to enable the physical education program to be carried on without undue disturbance to the classrooms.
- Plant types shall be specified that will not outgrow the space once the plant reaches maturity thus minimizing the potential for damage of paved areas and utilities.
- Landscape plants shall be manageable for school-based personnel to maintain. Over planting and large flowerbeds shall be avoided.
- Specifications for planting materials shall be provided to the designer by Anne Arundel County Public Schools.
- Landscaping shall be limited to the minimum required by code authorities.

**Site Related Utilities**

- Natural gas shall serve as a fuel source where available.
- Care must be taken to assure that lockable metal grates for drainage, if provided, are not a hazard for the play areas and bicycle friendly (perpendicular to curb line).
<table>
<thead>
<tr>
<th>Hard-wired Data drop Connectivity</th>
<th>Computer Labs</th>
<th>Instructional areas</th>
<th>Planning</th>
<th>Resource</th>
<th>Administrative</th>
<th>Support</th>
<th>See Indiv data sheet</th>
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<td>5.04.01 Mechanical</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>●</td>
</tr>
<tr>
<td>5.04.02 Electrical</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>●</td>
</tr>
<tr>
<td><strong>5.05.00 Telecommunication</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5.05.02 Telecommunication Closet</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>developed as part of network design</td>
</tr>
<tr>
<td><strong>5.06.00 Circulation</strong> (sf part of efficiency adjustment)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5.06.02 Classroom Corridors</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Wireless access hub</td>
</tr>
</tbody>
</table>

As a minimum this project will include:

- **Classrooms and instructional areas**: Five data drops (1 teacher, 3 student, peripheral) and one video outlet.
- **Administrative areas**: One data drop minimum for each occupant plus one for networked printer.
- **All support areas**: One data drop minimum (ex., reception/waiting areas, storage rooms, training room and school-based energy management systems, etc).

Need a data drop wherever a photocopier will be located.
SECTION 3 – ACTIVITY AREAS / DATA SHEETS

General Overview

- Activity areas are the core of the educational specifications. They include all discrete spaces in the school necessary for a classroom addition. Activity areas related by teaching objectives and learning outcomes are grouped together under a single heading. Some activity areas may serve more than one function and should be placed under the most appropriate heading.
- A description of each educational space and service function is provided on the following data sheets.
- The activity areas are in groupings as follows:
  - Administration
  - Student Support
  - Core Instructional Areas
  - Specialized Instructional Areas
  - Building Operations
  - Community Spaces/Areas
- Space or function area square footage along with lobbies, corridors and wall thickness are included in the gross square footage. The activity areas that follow are in net square feet.
- Relationships and ancillary spaces are defined on the data sheets.
- “No special requirements”, refers to no additional special needs beyond that defined in Section 2 – Project Design Factors.
<table>
<thead>
<tr>
<th>Group:</th>
<th>Classrooms</th>
<th>3.01.00</th>
</tr>
</thead>
<tbody>
<tr>
<td>Activity Area:</td>
<td>Core Instructional Areas</td>
<td>3.00.00</td>
</tr>
</tbody>
</table>

**Internal Adjacencies:** None  
**Ancillary Spaces:** None  

**Net Square Footage:** 840

**Description and Function:** Teaching station for instruction of language arts, math, social studies, AVID  
**Users:** Students and faculty  
**Hours of Use:** School hours

**Finishes**  
- Ceiling: Acoustical tile  
- Walls: Painted gypsum wallboard  
- Floor: Vinyl composition tile  
- Base: Vinyl

**Visual Display**  
- Marker board – (2) on main teaching wall, with interactive whiteboard in between. Width of each marker board to be 4’ minimum; up to 8’ width if space allows  
- Marker board – on wall opposite or adjacent to main teaching wall: 16’ wide x 6’ high marker board surface to create a “project” wall for small group teaching and student collaboration  
- Tack board - 1 at 4 linear feet  
- Tack board – 16” high x 48” long mounted over teaching station

**Mechanical:** No special requirements  
**Electrical:** No special requirements  
**Lighting:** No special requirements  

**Equipment in construction contract:**  
- General storage cabinets (84” high) –6 linear feet  
- Teaching station with integral wardrobe  
- Sound enhancement system

**FF&E:**  
- Task chair  
- Computers and printer  
- Small group teaching table (may be flexible student desks)  
- Student desks and chairs  
- Flexible computer stations  
- File cabinet/lateral file  
- Laptop cart  
- Wall Mounted Video Projector  
- Interactive Whiteboard  
- Document camera

**Remarks:**  
- Student data drops not to be placed on walls with visual display boards.
<table>
<thead>
<tr>
<th><strong>Group:</strong></th>
<th>Resource</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Activity Area:</strong></td>
<td>Core Instructional Areas 3.00.00</td>
</tr>
</tbody>
</table>

**Internal Adjacencies:** None

**Ancillary Spaces:** None

**Net Square Footage:** 360

**Description and Function:** Teaching station for students with the potential for each student to work individually

**Users:** Resource staff and students

**Hours of Use:** School hours

**Finishes**
- **Ceiling:** Acoustical tile
- **Walls:** Painted gypsum wallboard
- **Floor:** Vinyl composition tile
- **Base:** Vinyl

**Visual Display**
- Marker board - 1 at 16 linear feet or (2) at 8 linear feet
- Marker board – (2) at 4’ each, with space between for interactive whiteboard
- Tack board - 4 linear feet
- Tack board – 16” high x 48” long mounted over teaching station

**Mechanical:** No special requirements

**Electrical:** No special requirements

**Lighting:** No special requirements

**Equipment in construction contract:**
- Teaching station with integral wardrobe
- General storage cabinet (84” high)—3 linear feet

**FF&E:**
- Task chair
- File cabinet/lateral file
- Student desks and chairs – 12 to 14
- Computer and printer
- Wall Mounted Video Projector
- Interactive Whiteboard
- Document camera

**Remarks:** None
### Classroom Addition Educational Specification

#### Group: Science  
**Activity Area:** Specialized Instructional Area  
**Internal Adjacencies:** General Science Storage  
**Ancillary Spaces:** None

#### Net Square Footage

| Laboratory/classroom/teacher prep | 1260 |

#### Description and Function:
Teaching facility for middle school science curriculum

#### Users:
Students and teacher

#### Hours of Use:
School hours

#### Finishes

| Ceiling: Acoustical tile | Floor: Vinyl composition tile | 
| Walls: Painted | Base: Vinyl |

#### Visual Display

- Marker boards:
  - (2) on main teaching wall, with interactive whiteboard in between. Width of each marker board to be 4’ minimum; up to 8’ width if space allows.
  - If space allows, provide markerboard on wall opposite or adjacent to main teaching wall.
- Tack boards:
  - 4 to 8 linear feet
  - 16” high x 48” long mounted over teaching station
- Tack strips – 16 linear feet

#### Mechanical:

- Sink with tempered water at teacher prep area
- Sinks with cold water at perimeter casework of student work areas.
- Vandal resistant water faucets (washerless)
- Safety shower and eyewash (see Remarks)

#### Electrical:

- 2 duplex receptacles per lab station and teacher prep area
- 2 data drops per lab station and teacher prep area
- Pull down cord reels (4) in center of room
- Electrical for goggle cabinet

#### Lighting:

No special requirements

#### Furnishings and Equipment in Construction Contract

- Casework
  - Teacher prep (perimeter casework) with sink, electric, and automatic shutoff for all electric and water in room.
  - 7 perimeter student workstations, each with electricity and 2 computer monitors; at least 3 of the workstations to have integrated peninsulas (approximately 32” wide x 40” long);
  - Perimeter casework to have 4-6 sinks for student use (min. 16” x 16”)
  - Storage cabinets- 84” high (quantity: 1-2)
- Countertops
  - Tops and flat-topped student lab tables to be made of black epoxy resin 1” thickness.
  - Countertops 36” high, 24” deep (ADA 34” max.) Provide 4” high backsplashes and side-splashes where tops abut any vertical surface or surface that interrupts or is set into the countertop. Allow no seams in countertop within 4'-0” of sink edge or at other water source.
- Sinks
  - Black resin sink, integral or under mounted,
  - Sink height 36” (ADA 34” max.)
  - Faucets will be equipped with aerators.
  - Provide 24 serrated nozzles for replacement of aerators by school as program dictates.
- Teaching station with integral wardrobe
- Sound enhancement system
- Computer monitor wall mounts (2 per student lab station)
- Goggle cabinet
- Fire extinguisher cabinet
- Safety station with shower and eyewash
- Master shutoff for electric and water

**FF&E:**

- Computers and Printer
- Document camera
- File Cabinet
- Interactive whiteboard
- Wall mounted video projector
- Safety station w/blanket, spill kit, first aid kit and poster
- ABC Dry Chemical Fire extinguisher (5 lb. min; 16 lb. max charge weight)

- **Remarks:**
  - Science Safety Center
  - Walls of area containing the following will be painted yellow.
  - Safety Shower:
    - Within 50 ft. of all workstations or no more than 10 seconds away from the site of an emergency (ANSI Z358.1.)
    - Unobstructed shower and valve handle
    - Fixed valve pull handle – no chains unless provided with large ring.
    - Sufficient water pressure: 20 psi minimum.
    - Floor drain with trap.
    - ADA compliant
  - Eyewash:
    - Within 25 ft. of all workstations.
    - Locate near safety shower
    - Unobstructed dual eyewash that treats both eyes simultaneously. Provide instant, gentle, tempered flow of aerated water for 15 minutes at 0.75 quart/minute minimum; valve to remain in open position once activated to leave user’s hands free.
    - Bowl height – ADA compliant
    - Meet ANSI Z358.1.
  - Note: Room should provide seating at desks/tables for lecture-style learning. Additionally, furniture should be flexible enough to also serve for lab use in conjunction with pull-down electric cord reels.
## CHEMICAL STORAGE ROOM

<table>
<thead>
<tr>
<th>Group: Science</th>
<th>Activity Area: Specialized Instructional Area</th>
<th>4.05.06</th>
</tr>
</thead>
<tbody>
<tr>
<td>Internal Adjacencies</td>
<td>General Science Storage</td>
<td>4.05.07</td>
</tr>
<tr>
<td>Net Square Footage</td>
<td>120</td>
<td>Ancillary Spaces: None</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Finishes</th>
<th>Ceiling: Acoustical tile</th>
<th>Walls: Painted</th>
<th>Floor: Vinyl composition tile</th>
<th>Base: Vinyl</th>
</tr>
</thead>
</table>

### Visual Display
- Tack boards:
  - 1 at 4 linear feet

### Mechanical:
- No special requirements

### Electrical:
- No special requirements

### Lighting:
- No special requirements

### Furnishings and Equipment in Construction Contract
- Perimeter shelving: 12" wood shelving with 2" lip to prevent bottles from slipping off shelves. Height of shelves not to exceed 7'-0".
- Chemical storage cabinet
- Flammable storage cabinet

### FF&E:
- Chemical inventory list posted outside chemical storeroom in a protective mounting
- Door to display the NFPA hazard symbols.

### Remarks:
- Chemical storage to be accessed off the General Science Storage room
<table>
<thead>
<tr>
<th>Group:</th>
<th>Science</th>
<th>4.05.00</th>
</tr>
</thead>
<tbody>
<tr>
<td>Activity Area:</td>
<td>Specialized Instructional Area</td>
<td>4.00.00</td>
</tr>
<tr>
<td>Internal Adjacencies</td>
<td>Chemical Storage</td>
<td>4.05.06</td>
</tr>
<tr>
<td>Net Square Footage</td>
<td>180</td>
<td></td>
</tr>
<tr>
<td>Ancillary Spaces:</td>
<td>None</td>
<td></td>
</tr>
<tr>
<td>Finishes</td>
<td>Ceiling: Acoustical tile</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Walls: Painted</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Floor: Vinyl composition tile</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Base: Vinyl</td>
<td></td>
</tr>
<tr>
<td>Visual Display</td>
<td>Tack boards: 1 at 4 linear feet</td>
<td></td>
</tr>
<tr>
<td>Mechanical:</td>
<td>No special requirements</td>
<td></td>
</tr>
<tr>
<td>Electrical:</td>
<td>No special requirements</td>
<td></td>
</tr>
<tr>
<td>Lighting:</td>
<td>No special requirements</td>
<td></td>
</tr>
<tr>
<td>Furnishings and Equipment in Construction Contract</td>
<td>12” 15” and 18” metal shelving</td>
<td></td>
</tr>
<tr>
<td>FF&amp;E:</td>
<td>None</td>
<td></td>
</tr>
<tr>
<td>Remarks:</td>
<td>Storage of non-hazardous supplies</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Room should be accessed off corridor.</td>
<td></td>
</tr>
</tbody>
</table>
WORLD & CLASSICAL LANGUAGE CLASSROOM

Group: World & Classical Language
Activity Area: Specialized Instructional Areas

Internal Adjacencies: None
Ancillary Spaces: None

Net Square Footage 840

Description and Function: Teaching station for instruction of World & Classical languages
Users: Students and faculty
Hours of Use: School hours

Finishes
Ceiling: Acoustical tile
Walls: Painted gypsum wallboard
Floor: Vinyl composition tile
Base: Vinyl

Visual Display
- Marker board – (2) on main teaching wall, with interactive whiteboard in between. Width of each marker board to be 4’ minimum; up to 8’ width if space allows
- Marker board – on wall opposite or adjacent to main teaching wall: 16’ wide x 6’ high marker board surface to create a “project” wall for small group teaching and student collaboration
- Tack board - 1 at 4 linear feet
- Tack board – 16” high x 48” long mounted over teaching station

Mechanical: No special requirements

Electrical: Data drop and power for each student headset/listening station

Lighting: No special requirements

Equipment in construction contract:
- General storage cabinets (84” high) –6 linear feet
- Teaching station with integral wardrobe
- Sound enhancement system

FF&E:
- Student chairs- 36
- (18) tables to hold listening equipment
- Teacher chairs – 2
- Student headset/media players (36/class)
- Task chair
- Computer and printer
- Small group teaching table (may be flexible student desks)
- Flexible computer stations
- File cabinet/lateral file
- Laptop cart
- Wall Mounted Video Projector
- Interactive Whiteboard
- Document camera

Remarks:
- Classroom cabinets to be lockable for storing equipment.
- Classroom able to be used for other subjects in addition to WCL
CAFETERIA

Group: Food Services  
Activity Area: Building Operations

Internal Adjacencies: Existing cafeteria
Ancillary Spaces: None

Net Square Footage 1500

Description and Function: Expand existing cafeteria to allow seating for additional 100 students at 15 SF/student.

Users: Students and faculty

Hours of Use: School hours

Finishes

Ceiling: Acoustical tile  
Walls: Painted
Floor: Vinyl composition tile  
Base: Vinyl

Visual Display: None

Mechanical: No special requirements

Electrical: No special requirements

Lighting: No special requirements

Furnishings and Equipment in Construction Contract: Consider use of built-in perimeter counter in addition area

FF&E: Folding Cafeteria tables

Remarks: Consider ways to reduce students' field of vision while seated at tables, while still allowing supervision of entire space for a standing faculty member who is monitoring activity. This could take the form of a section of partial-height wall where new addition meets existing cafeteria.
<table>
<thead>
<tr>
<th><strong>STAFF REST ROOM</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>5.03.02</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Group:</strong></th>
<th>Rest Rooms</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Activity Area:</strong></td>
<td>Building Operations</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Internal Adjacencies:</strong></th>
<th>Corridor of new addition; one per floor</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Ancillary Spaces:</strong></td>
<td>None</td>
</tr>
</tbody>
</table>

| **Net Square Footage** | 50 |

<table>
<thead>
<tr>
<th><strong>Description and Function:</strong></th>
<th>Toilet rooms for staff</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Users:</strong></td>
<td>Staff</td>
</tr>
<tr>
<td><strong>Hours of Use:</strong></td>
<td>All day</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Finishes</strong></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Ceiling:</td>
<td>Painted gypsum wallboard</td>
</tr>
<tr>
<td>Walls:</td>
<td>Painted concrete block; ceramic tile on wet wall</td>
</tr>
<tr>
<td>Floor:</td>
<td>Ceramic tile</td>
</tr>
<tr>
<td>Base:</td>
<td>Ceramic tile</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Visual Display:</strong></th>
<th>None</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th><strong>Mechanical:</strong></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Floor drain with trap primer</td>
<td></td>
</tr>
<tr>
<td>Dedicated exhaust</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Electrical:</strong></th>
<th>No special requirements</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th><strong>Lighting:</strong></th>
<th>No special requirements</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th><strong>Equipment in construction contract:</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>- Mirror</td>
</tr>
<tr>
<td>- Paper towel dispenser</td>
</tr>
<tr>
<td>- Soap dispenser</td>
</tr>
<tr>
<td>- Toilet paper dispenser</td>
</tr>
<tr>
<td>- Sanitary napkin disposal</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>FF&amp;E:</strong></th>
<th>Trash can</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th><strong>Remarks:</strong></th>
<th>Separate single, accessible toilets</th>
</tr>
</thead>
<tbody>
<tr>
<td>Group:</td>
<td>Rest Rooms</td>
</tr>
<tr>
<td>---------------</td>
<td>---------------------</td>
</tr>
<tr>
<td>Activity Area:</td>
<td>Building Operations</td>
</tr>
<tr>
<td>Internal Adjacencies:</td>
<td>Corridor of new addition</td>
</tr>
<tr>
<td>Ancillary Spaces:</td>
<td>None</td>
</tr>
<tr>
<td>Net Square Footage</td>
<td>180</td>
</tr>
<tr>
<td>Description and Function:</td>
<td>Toilet rooms for students</td>
</tr>
<tr>
<td>Users:</td>
<td>Students</td>
</tr>
<tr>
<td>Hours of Use:</td>
<td>All day, year round</td>
</tr>
<tr>
<td>Finishes</td>
<td></td>
</tr>
<tr>
<td>Ceiling:</td>
<td>Painted gypsum wallboard</td>
</tr>
<tr>
<td>Walls:</td>
<td>Painted concrete block; ceramic tile on wet wall</td>
</tr>
<tr>
<td>Floor:</td>
<td>Ceramic tile</td>
</tr>
<tr>
<td>Base:</td>
<td>Ceramic tile</td>
</tr>
<tr>
<td>Visual Display</td>
<td>None</td>
</tr>
<tr>
<td>Mechanical:</td>
<td></td>
</tr>
<tr>
<td>• Floor Drain with trap primer</td>
<td></td>
</tr>
<tr>
<td>• Dedicated exhaust</td>
<td></td>
</tr>
<tr>
<td>Electrical:</td>
<td>Electric hand dryers</td>
</tr>
<tr>
<td>Lighting:</td>
<td>No special requirements</td>
</tr>
<tr>
<td>Equipment in construction contract:</td>
<td></td>
</tr>
<tr>
<td>• Mirrors</td>
<td></td>
</tr>
<tr>
<td>• Electric Hand dryers</td>
<td></td>
</tr>
<tr>
<td>• Soap dispensers</td>
<td></td>
</tr>
<tr>
<td>• Toilet Paper dispenser</td>
<td></td>
</tr>
<tr>
<td>• Toilet partitions and vanity screens</td>
<td></td>
</tr>
<tr>
<td>• Sanitary napkin disposal (girl’s room only)</td>
<td></td>
</tr>
<tr>
<td>FF&amp;E:</td>
<td>Trash can</td>
</tr>
<tr>
<td>Remarks:</td>
<td>Actual size and quantity will be code and building layout dependent.</td>
</tr>
</tbody>
</table>
### MECHANICAL ROOM

<table>
<thead>
<tr>
<th>Group:</th>
<th>Mechanical/Electrical</th>
<th>5.04.00</th>
</tr>
</thead>
<tbody>
<tr>
<td>Activity Area:</td>
<td>Building Operations</td>
<td>5.00.00</td>
</tr>
</tbody>
</table>

**Internal Adjacencies:**  
As required within new addition

**Ancillary Spaces:**  
None

**Net Square Footage**  
180

**Description and Function:**  
Area for supplementary mechanical equipment as needed for new addition

**Users:**  
Custodial staff

**Hours of Use:**  
Before, after and during school hours

**Finishes**
- Ceiling: No ceiling
- Walls: Concrete block or gypsum wallboard
- Floor: Sealed concrete, caulk joints with walls
- Base: No base (Vinyl base if walls are gypsum wallboard)

**Visual Display**  
None

**Mechanical:**  
No special requirements

**Electrical:**
- Telephone outlets – 2 standard and 1 dedicated
- Data drop at ATC/EMCS terminal area – 2

**Lighting:**  
No special requirements

**Equipment in construction contract:**  
None

**FF&E:**  
None

**Remarks:**
- Minimize area and meet code.
- All equipment to be pad mounted.
### ELECTRICAL CLOSET

<table>
<thead>
<tr>
<th>Group:</th>
<th>Mechanical/Electrical</th>
</tr>
</thead>
<tbody>
<tr>
<td>Activity Area:</td>
<td>Building Operations</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Internal Adjacencies:</th>
<th>Telecommunication closet</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ancillary Spaces:</td>
<td>None</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Net Square Footage</th>
<th>180</th>
</tr>
</thead>
</table>

**Description and Function:** Area distribution of electrical system

**Users:** Custodial staff

**Hours of Use:** Before, during and after school. Year round.

#### Finishes

- **Ceiling:** No Ceiling
- **Walls:** Painted
- **Floor:** Painted concrete
- **Base:** Vinyl

#### Visual Display

None

#### Mechanical:

No special requirements

#### Electrical:

No special requirements

#### Lighting:

No special requirements

#### Equipment in construction contract:

None

#### FF&E:

None

#### Remarks:

Room will be lockable and secure
**TELECOMMUNICATION CLOSET**

<table>
<thead>
<tr>
<th>Group:</th>
<th>Telecommunication</th>
<th>5.05.00</th>
</tr>
</thead>
<tbody>
<tr>
<td>Activity Area:</td>
<td>Building Operations</td>
<td>5.00.00</td>
</tr>
<tr>
<td>Internal Adjacencies:</td>
<td>Electric Closet</td>
<td>5.04.03</td>
</tr>
<tr>
<td>Ancillary Spaces:</td>
<td>None</td>
<td></td>
</tr>
<tr>
<td>Net Square Footage</td>
<td>180</td>
<td></td>
</tr>
</tbody>
</table>

**Description and Function:** Area distribution of data and telephone system and storage of mobile carts

**Users:** Faculty

**Hours of Use:** Before, during and after school hours, year round

**Finishes**

- Ceiling: No Ceiling
- Walls: Painted gypsum wallboard w/plywood for equipment mounting
- Floor: Sealed concrete
- Base: Vinyl, gypsum wallboard, caulk at floor and walk

**Visual Display:** None

**Mechanical:**

- Air conditioned
- No plumbing over this room.

**Electrical:**

- Data racks/patch panels

**Lighting:** No special requirements

**Equipment in construction contract:** None

**FF&E:** Computer distribution equipment

**Remarks:** Entrance door to be 40 inches wide to allow for equipment.
# CLASSROOM CORRIDORS

<table>
<thead>
<tr>
<th>Group:</th>
<th>Circulation</th>
<th>5.06.00</th>
</tr>
</thead>
<tbody>
<tr>
<td>Activity Area:</td>
<td>Building Operations</td>
<td>5.00.00</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Internal Adjacencies:</th>
<th>Core Instructional Areas</th>
<th>3.00.00</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Specialized Instructional Areas</td>
<td>4.00.00</td>
</tr>
</tbody>
</table>

| Ancillary Spaces: | None |

| Net Square Footage | Included in building efficiency |

## Description and Function:
Student circulation

## Users:
Parent, visitors, and students

## Hours of Use:
School hours

### Finishes

- **Ceiling:** Acoustical tile
- **Walls:** Painted gypsum wallboard
- **Floor:** Vinyl composition tile*
- **Base:** Vinyl

### Visual Display
Tack strips-8’ long, 4’ apart

### Mechanical:
No special requirements

### Electrical:
See Remarks

### Lighting:
No special requirements

### Equipment in construction contract:
Lockers

### FF&E:
None

### Remarks:
- Area to be secured from general public after school hours
- Lockers to line corridors; no locker banks; locker quantities to be reviewed with AACPS

*Flooring material may be modified to match existing conditions. Review with AACPS Project Manager during design.
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# SECTION 4 – SPATIAL REQUIREMENTS

## BASE BID BUILDING ADDITION

<table>
<thead>
<tr>
<th>3.00.00</th>
<th>CORE INSTRUCTIONAL PROGRAMS</th>
<th># of rooms</th>
<th>square footage</th>
<th>component subtotal</th>
</tr>
</thead>
<tbody>
<tr>
<td>3.01.00</td>
<td>Classrooms</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3.01.01</td>
<td>Classroom</td>
<td>4</td>
<td>840</td>
<td>3,360</td>
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<tr>
<td>3.02.00</td>
<td>Resource</td>
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</tr>
<tr>
<td>3.02.01</td>
<td>General Resource</td>
<td>2</td>
<td>360</td>
<td>720</td>
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<td>4.00.00</td>
<td>SPECIALIZED INSTRUCTIONAL PROGRAMS</td>
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<tr>
<td>4.05.01</td>
<td>Science Laboratory/Classroom</td>
<td>4</td>
<td>1,260</td>
<td>5,040</td>
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<tr>
<td>4.05.06</td>
<td>Chemical Storage Room</td>
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<td>120</td>
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<tr>
<td>4.05.05</td>
<td>General Science Storage Room</td>
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<td>180</td>
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<tr>
<td>4.07.01</td>
<td>World &amp; Classical Language</td>
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<td>4.07.02</td>
<td>Classroom</td>
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<td>840</td>
<td>1,680</td>
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<table>
<thead>
<tr>
<th>5.00.00</th>
<th>BUILDING OPERATIONS</th>
<th># of rooms</th>
<th>square footage</th>
<th>component subtotal</th>
</tr>
</thead>
<tbody>
<tr>
<td>5.01.00</td>
<td>Custodial</td>
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<tr>
<td>5.01.01</td>
<td>Custodial Closet</td>
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<td>80</td>
<td>80</td>
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<tr>
<td>5.03.00</td>
<td>Toilet Rooms</td>
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<td></td>
<td></td>
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<tr>
<td>5.03.02</td>
<td>Staff Toilet Room</td>
<td>2</td>
<td>50</td>
<td>100</td>
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<tr>
<td>5.03.03</td>
<td>Student Rest Room</td>
<td>2</td>
<td>180</td>
<td>360</td>
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<tr>
<td>5.04.00</td>
<td>Mechanical/Electrical</td>
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<td>180</td>
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<td>5.04.02</td>
<td>Electrical</td>
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<td>180</td>
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<tr>
<td>5.05.00</td>
<td>Telecommunication</td>
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<tr>
<td>5.05.02</td>
<td>Telecommunication Closet</td>
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<td>180</td>
<td>180</td>
</tr>
</tbody>
</table>

**Net square footage subtotal all programs**: 12,180

**Efficiency adjustment (70%)**: 5,220

**BASE BID ADDITION GROSS SQUARE FOOTAGE**: 17,400

## ALTERNATE FOR CAFETERIA EXPANSION

<table>
<thead>
<tr>
<th>5.00.00</th>
<th>BUILDING OPERATIONS</th>
<th># of rooms</th>
<th>square footage</th>
<th>component subtotal</th>
</tr>
</thead>
<tbody>
<tr>
<td>5.02.00</td>
<td>Food Services</td>
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<td></td>
<td></td>
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<tr>
<td>5.02.01</td>
<td>Cafeteria</td>
<td>100</td>
<td>15</td>
<td>1,500</td>
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</tbody>
</table>

**Subtotal (Base Bid Addition NSF + 1500 NSF Alternate)**: 13,680

**Efficiency adjustment (70%)**: 5,863

**BASE BID BUILDING WITH ALTERNATE GROSS SQUARE FOOTAGE**: 19,543

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