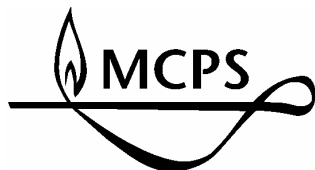


Bells Mill Elementary School

Educational Specifications Planning Study (Draft)

June 12, 2006



Montgomery County Public Schools
Rockville, Maryland 20850

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Bells Mill Elementary School Square Foot Summary

When this project is complete, the following spaces are to be provided:
Capacity after modernization will be 609.

Facility	#	Description	Net Sq. Ft.	Total Net Sq. Ft.
<u>Classrooms</u>				
Prekindergarten	1	Includes 250 s.f. storage	1300	1300
Kindergarten	4	Includes 250 s.f. storage	1300	5200
Grades 1-5	21	Includes 150 s.f. storage	900	18900
<u>Special Education</u>				
Classroom	3	Includes 150 s.f. storage	900	2700
Resource Room	1		500	500
Speech/Language Room	1		250	250
Therapy/Support Room	1		250	250
<u>Instructional Support Rooms</u>				
Reading Room	1		450	450
Testing/Conference Room	1		150	150
Instructional Data Assistant Office	1		250	250
Reading/Language Arts Room	1	Storage for 150 books	650	650
Support Staff Offices	2		150	300
ESOL Room	1		450	450
Art	1	Includes 250 s.f. storage	1100	1100
Music	1	Includes 250 s.f. storage	1050	1050
Instrumental Music Room	1	locate next to storage	400	400
<u>Media Center</u>				
Resource/Circulation	1		1800	1800

Materials Preparation/Office	1		400	400
Media Storage	1		400	400
Textbook Storage	1		200	200
Control Room and Storage	1		250	250
Computer Laboratory	1	Includes 150 s.f. storage	900	900
Telecommunication Equipment Closet	1		150	150
Telecommunication Closet	3		50	150
<u>Physical Education (if there is a gymnasium)</u>				
Gymnasium	1		3700	3700
Office	1		150	150
Storeroom	1		250	250
Storage	2		100	200
Outside Storage	1		150	150
<u>Multipurpose Room</u>				
Multipurpose Room	1		3200	3200
Chair Storage	1		150	150
Table Storage	1		150	150
Stage	1		450	450
Physical Education storage (if no gymnasium)	1		350	350
<u>Kitchen</u>				
Service Area	1		300	300
Walk-in Cooler/Freezer	1		155	155
Dry Storage	1		192	195
Office	1		100	100
Toilet Room	1		70	70
Preparation Area	1		555	555
<u>Administration</u>				
General Office	1		375	375
Workroom	1		300	300
Principal's Office	1		250	250
Assistant Principal's Office	1		150	150
Conference	1		300	300
Record Room	1		100	100
Telephone Booth	1		50	50
Storage	1		100	100
Staff Development Office	1		200	200

Counselor's Office	1		250	250
2nd Floor Workroom	1		75	75
<u>Health Services Suite</u>				
Waiting Area	1		100	100
Treatment/Medication Area	1		120	120
Office/Consult/Examination Area	1		100	100
Examination/Isolation	1		100	100
Rest Areas	1		200	200
Toilet Room	1		50	50
Storage Area	1		40	40
Staff Lounge	1		700	700
Building Services	1		300	300
Compactor Room	1		150	150
Recycling Room	1		150	150
General Storage	4	250 sq. ft. each	250	1000
PTA Storage	1		150	150
Outdoor Storage	1		150	150
Total				53735

Introduction

- This document describes the facilities that are needed for the Bells Mill Elementary School educational program. The descriptions provide the architect with important guidelines and will be used by staff representatives when reviewing drawings for the facility.
- The program capacity for this school will be 609 with a master-planned (core) capacity for 640. The school needs a two-classroom master-planned addition to bring the program school up to its master-planned capacity. The architect should show the location for the future classroom addition.
- The educational specifications are divided into three sections.
 - The first section, the space summary, lists the type of spaces and square footage required when the project is complete.
 - The second section describes the general design, location, and specific requirements for each type of space in accordance with Montgomery County Public Schools (MCPS) standards.
 - The third section identifies any unique program need for Bells Mill Elementary School students and staff that were identified by the Facility Advisory Committee (FAC).
- The architect should show the location for possible future installation of one daycare unit as well as a location for relocatable classrooms, should they be required in the future. The location of these units should be different than the location of the master-planned addition.
- Electrical and data connections should be stubbed off in the location where relocatable classrooms would be sited. The relocatable classrooms need to have the same technology as regular classrooms. Installation of wiring and plumbing connectors should be considered as part of this project.

General Planning Considerations

In the general planning of this building, special consideration is to be given to the following comments and instructions:

- The architect is expected to become thoroughly familiar with all national, state and local fire safety, life safety, and health code regulations and to follow applicable rules of the State Interagency Committee on School Construction.
- The facility is to reflect an appealing visual, acoustic, and thermal environment and is to be properly furnished and equipped. Well-chosen colors and textures are to be used. Lighting must meet current standards and provide adequate levels.
- High quality materials are to be used in the construction.
- The first impression of a building is important. The main entrance to the school should have a clear and inviting identity, and the entrance area should be designed and landscaped to emphasize its importance. A covered walkway from the bus loading area to the front door is desirable. The design of the entry foyer needs to convey a feeling of warmth and welcome. The inclusion of a lighted showcase in which children's work can be displayed is recommended.
- The design of the building and grounds must provide for a secure environment for students and staff. Isolated areas should be minimized and natural surveillance encouraged by eliminating visual barriers. The Department of School Safety and Security and the Montgomery County Police Department will review the design plans.
- The building is to be accessible to the disabled within the meaning of the latest edition of the Americans with Disabilities Act and to conform to all the latest requirements of the Americans with Disabilities Act Accessibility Guidelines (ADAAG) as published by the U.S. Architectural and Transportation Barriers Compliance Board.
 - The Division of Construction will provide all signage standards.
 - All doors must have levered handles.
 - All areas of the building are to be accessible for persons with disabilities including site amenities such as play areas and ball fields.
 - Sufficient accessible water coolers, bathrooms and phones for students and adults should be provided.
- Every teaching station, support space, and core area must be wired for computer, CCTV, and telephone, along with adequate electrical supply, in coordination with the Office of Strategic Technology and Accountability (OSTA). Facilities must be adaptable to accommodate rapid development in high technology and its equipment since educational program and organization in this field are dynamic. Space and power supply must be flexible to meet these changing needs.

- An MCPS-designed alarm system will provide security for this facility. The architect will provide for this system in consultation with the Division of Construction staff.
- A multi-story building or addition may be considered as required by site limitations.
- Building code requirements call for less than ten percent of interior corridor space to be used for displaying flammable materials. Display areas can be provided by a 5' x 5' bulletin board per classroom or an equivalent amount of space in a larger area. Please refer to the Division of Construction for specific standards.
- Students should have easy access to the play areas from the classrooms and multi-purpose room. Play areas are to be protected from any vehicular traffic. Unobstructed supervision of play areas from one central area is desirable.
- The school is to be air-conditioned except for the gymnasium. Careful placement of glass is required to avoid excess heat gain in occupied areas.
- Some windows must be operable in each space in the building. Transmission of radiation through windows into various portions of the plant is to be considered in relation to heating and ventilating and in relation to planning the building for air conditioning. All instructional spaces should have windows, preferably exterior windows. If the design does not permit exterior windows, windows onto corridors should be provided.
- Zoning the plant for heating and air-conditioning should be related to after-hours use of various areas such as offices, gymnasium, multi-purpose room, and the instructional media center. Appropriate location of parking, corridor barriers, and toilets is necessary for after-hours use. Some classrooms adjacent to the multi-purpose room should be zoned for after hour use.
- Noise and distracting sounds are to be minimized. In areas such as the multi-purpose room and classrooms, which may be used for meetings and adult education, the sound of operating fans for ventilation should not interfere with instruction.
- Adult restrooms should be provided in accordance with the latest code requirements. Adult restrooms in elementary schools will be unisex.
- Spaces that serve no real educational function, such as corridors, should be limited while at the same time assuring a smooth flow of pupil traffic to and from the instructional media center, multi-purpose room, specialized centers, and support rooms.
- Carpeting should be limited to the administration suite, instructional media center, and support offices.
- All student occupied spaces must be able to be supervised from the corridor.

- Doors should be provided between classrooms whenever possible, however, expensive folding walls should be carefully considered as they are rarely utilized.
- The shape of the classroom and the design of built-in features and storage areas should provide optimum net usable floor area. Elongated rooms and features that protrude into floor area, limiting flexibility, are to be discouraged. Rectangular shaped classrooms are preferred.
- Adjustable shelving is to be provided in all building storage closets.
- MCPS program coordinators will review plans and elevations with the Division of Construction.
- Special consideration must be given to energy conservation including total life-cycle costs. The current Department of General Service (DGS) requirements will be applied as design criteria. Life-cycle cost accounting in accordance with DGS criteria is required. Overall energy performance of the building shall meet or exceed the requirements for certification as an Energy Star School by the US EPA. A statement on energy conservation must be part of the preliminary plans submission. Additional details on energy conservation will be provided under separate cover.
- The architect must comply with section 5-103 of the Maryland Natural Resources Article in consultation with the Maryland Forest Service designating, if suitable, the area on site and type of reforestation or validating the need for off-site reforestation to comply with current county regulations.
- Areas on the school site must be identified for potential wildlife habitat conservation and enhancement as part of the environmental education curriculum. For guidance, refer to the latest version of the MSDE document, *Conserving and Enhancing the Natural Environment: A Guide for Planning, Design, Construction, and Maintenance on New and Existing School Sites*.

Description of Facilities

Please refer to the summary of spaces in the front of this document for the square foot requirements for each space described below. Square-foot allocations should be considered the standard to be followed, although minor deviations are permitted.

Prekindergarten/Kindergarten Classroom

- Each room should allow flexibility in creation of activity areas and to provide for individualized instruction through arrangement of the "centers" approach.
- An area should be designated for placement of a 12' by 15' area rug over vinyl composite tile (VCT).
- A 100 square foot walk-in storage closet and 150 square feet of general storage (casework throughout the classroom) is needed.
- Each room should have an outside door or be directly accessible to the outside and convenient to the main entrance of the school building.
- When possible there should be interconnecting interior doors between all kindergarten and pre-kindergarten rooms.
- The prekindergarten classrooms require a separate and fenced outdoor play area that must be adjacent to the classroom. If the school does not have a prekindergarten program than the outdoor play area should be master planned so that it can be added on at a later time.
- The kindergarten play areas should be located adjacent to the other school play areas. If the kindergarten classrooms have direct access to the school play area than the kindergarten play area can be located adjacent to the classrooms. The description for the kindergarten play areas can be found in the Physical Education and Site sections of this document.
- The computers should not be located next to a chalkboard where chalk dust or magnets might damage the hardware and software. Glare from the windows on the computer screens should also be eliminated as much as possible. Security for the computers should be planned in consultation with the MCPS Division of Construction (DOC). Computer/technology wiring must be in accordance with DOC/MSDE/OSTA standards.
 - Every classroom must have computer outlets for 5 student workstations and 1 teacher workstation. The building information and communications distribution system and other aspects of the building design must comply with the latest edition of MSDE *Maryland Public School Standards for Telecommunications Distribution Systems*.
 - Shelving or cabinetry should be provided in every teaching station for the VCR and television. A school may choose to place the television and VCR on a cart.

- The main teaching wall layout should be in accordance to DOC construction standards. A combination of whiteboard and chalkboard can be used in each classroom. A school may choose only whiteboards.
- A sink with a drinking fountain must be provided, with cabinets above and below. The sink area is to include a moveable water tray for measurement/ volume activities.
- A built-in student wardrobe area must provide 30 individual compartments to store students' belongings. The architect is to refer to the DOC construction standards for a typical cubby design. Lockers in the classroom or in the hallway may be considered.
- Thirty feet of tackboard and 10 feet of magnetic chalkboard should be installed at eye-level height for small children, with tack stripping along walls for display of student work.
- Each room must have a toilet room that is accessible from within the room and easily accessible from outside. The toilet room will contain a sink with child-height mirror, and soap and towel dispensers that are accessible to small children. The light switch should automatically turn on the vent fan.
- Each classroom should be equipped with window blinds. The specifications for the window blinds will be provided by DOC.
- Each classroom should be equipped with a retractable projection screen. The projection screen should not be mounted near any emergency lighting tracks. All areas of the screen should be illuminated and readable when the lights are dimmed.
- Battery operated clocks will be installed. The clock should not be mounted behind the projection screen.
- All classrooms should be equipped with a handicapped accessible sink with drinking bubbler.
- A full-length mirror should be installed.
- Appropriate electrical outlets and space are to be provided for future placement of a full-sized refrigerator near the wet area.
- The architect should identify the location of a bracket for TV monitor and VCR. Appropriate CCTV receptacles and a duplex outlet should be provided nearby for the operation of the TV and VCR. Placement of the TV should be to maximize student viewing and not be unduly influenced by exterior or interior extraneous light.

Standard Classroom

- Each room must have an open classroom area with moveable furniture.
- A 50 square foot walk-in storage closet/teacher wardrobe and 100 square feet of general storage is needed.
- The computers should not be located next to a chalkboard where chalk dust or magnets might damage the hardware and software. Glare from the windows on the computer screens should also be eliminated as much as possible. Security for the computers should be planned in consultation with the MCPS Division of Construction (DOC). Computer/technology wiring must be in accordance with DOC/MSDE/OSTA standards.
- Every classroom must have computer outlets for 5 student workstations and 1 teacher workstation. The building information and communications distribution system and other aspects of the building design must comply with the latest edition of MSDE *Maryland Public School Standards for Telecommunications Distribution System*.
- Approximately 30 to 35 linear feet of magnetic white/chalkboard and 20 to 24 linear feet of tackboard, both with tack strips and map rails above the boards, should be installed in each classroom. A school may choose to have all whiteboards in the classroom. Upper grade classrooms (grades 3, 4, 5) require a small chalkboard area with coordinate grids. A combination of whiteboard and chalkboard should be used in each classroom. White/chalkboards should be located so as to reduce glare. Tack strip is needed on all available walls. The architect should refer to the DOC construction standards for the main teaching wall layout.
- Thirty built-in individual compartments in the wardrobe area for storing student personal property are required. The architect should refer to the DOC construction standards for a typical cubby design for grades K-1 and grades 2-5. Lockers may be considered in the classroom or in the hallway.
- All classrooms should be equipped with a handicapped accessible sink with drinking bubbler.
- A storage area is needed to hold at least two science kits (approximate 24" x 48" x 18" each) and one math kit in each classroom.
- General storage space must be built in and must accommodate 24- by 36-inch paper and a 4-drawer file cabinet. Each classroom must include 48 linear feet of built-in adjustable shelving.
- A small lockable teacher's wardrobe must be provided, as per DOC construction standards.
- Designated shelf space, not near a window, for an aquarium/terrarium with nearby electrical outlet, is desirable.

- Each classroom should be equipped with window blinds. The specifications for the window blinds will be provided by DOC.
- Each classroom should be equipped with a retractable projection screen. The projection screen should not be mounted near any emergency lighting tracks. All areas of the screen should be illuminated and readable when the lights are dimmed.
- Battery operated clocks will be installed. The clock should not be mounted behind the projection screen.
- Shelving or cabinetry should be provided in every teaching station for the VCR and television. A school may choose to place the television and VCR on a cart. Appropriate CCTV receptacles and a duplex outlet should be provided nearby for the operation of the TV and VCR. Placement of the TV should be to maximize student viewing and not be unduly influenced by exterior or interior extraneous light.
- A school may consider reducing the size of each classroom to create small break-out rooms in the school. The number and design of these breakout rooms may be determined by school and MCPS staff.

Special and Alternative Education Facilities

Special Education Classroom

- Special education classrooms should be located with similar grade classrooms in the building so that integration with regular students at the primary and at the upper grade levels occurs naturally.
- The specific requirements are the same as the requirements for standard classroom requirements. Please refer to the preceding section for these requirements.
- Please see the last section of this document for additional special education program requirements specific to this school.

Special Education Support Rooms

The following rooms will provide for individual and small-group instruction as needed for the entire student body.

Spatial Needs
Special Education Resource Room
Speech/Language Room
Occupational Therapy/Physical Therapy (OT/PT) Room

- These rooms should be centrally located, with easy access to the office and conference room and to toilet rooms that can accommodate the physically disabled.
- The rooms must be well ventilated.
- The school may choose to combine the speech/language room and the OT/PT room for a combined space of 500 square feet.
- Each room must have white/chalkboard, tackboard, open and closed lockable storage, open shelving, counter space, and a lockable teacher wardrobe. Room for a teacher's desk, lockable file cabinet, and assorted-sized furniture with adjustable legs should be provided.
- Sufficient electrical outlets are to be provided. Quadruplex outlets may be utilized where feasible. The resource room should be wired for 3 microcomputer workstations and the speech/language and OT/PT rooms should be wired for access to one microcomputer workstation each.
- The OT/PT room requires lockable storage with sufficient area to house large gross motor equipment (minimum of 35 square feet).
- The speech room must be located on the first floor and be acoustically treated.
- The resource room must contain a sink with counter space.

Instructional Support Rooms

The following rooms provide for individual and small group instruction by various school-based and itinerant staff. Any of these rooms may be identified for use as a part-time TV Studio (to be adjoined to Control Room in Media Center).

Spatial Needs
Testing/Conference Room
Instructional Data Assistant Office
Reading/Language Arts Room
Support Staff Offices (two)
ESOL Classroom
<i>Title I Parent Resource Room</i>

- A mirror, bookcases, whiteboard, tackboard, shelving, and lockable teacher storage are to be installed in each room.
- Sufficient electrical outlets are to be provided (where feasible, quadruplex outlets may be utilized).
- Each of these rooms should be able to access the school LAN. Adequate data receptacles should be available.

Testing/Conference Room

- School and/or central office staff test individual students or small groups of students. Typical testing includes psychological, diagnostic, vision/hearing, gifted, and makeup testing for required standardized tests. This room also will be used to accommodate post-test conferences with teachers and/or parents.
- This room needs acoustical treatment as well as video, voice, and data outlets.

Instructional Data Assistant Office

- This room is required for a data assistant who conducts assessments, updates individual student test scores, and provides remediation of students' skills.
- This room houses one computer with printer and card reader and must be lockable and secure.
- This room requires some built-in casework with shelves and doors, a small lockable teacher's wardrobe, whiteboards both with and without coordinate grids, and video, voice, data outlets, and space for file cabinets.

Reading/Language Arts Room

- This room is used to provide remediation and reinforcement of skills and concepts in writing, reading, spelling, and mechanics of English to individuals and small groups in a quiet setting free from distraction.
- This room should be located on the first floor, if possible.
- This room should include 150 square feet of storage.
- The Reading/Language Arts Room needs large flat surfaces and a sink, and video, voice, and data outlets.

ESOL Classroom

- Some students receive small group instruction in English as a second language for one or two periods a day.
- This room needs acoustical treatment.

Support Staff Offices

- Office space is needed for permanent as well as itinerant support staff (curriculum coordinator, team coordinator, social worker, psychologist, auditory and vision specialists, and psychiatrist).
- At least two lockers should be provided in each office for itinerant staff use.
- Video, voice, and data outlets should be provided.

Specialized Centers

Art Room

The art room is to provide space for teaching and creating art, displaying student work and educational aids, and storing supplies and materials. The room should be designed as follows:

- The art room must not be carpeted.
- Both art and music rooms must be located near student restrooms.
- For technology accessibility purposes, the art room is to be considered as a regular classroom with appropriate data, CCTV, modem, and electrical outlets.
- The design of all work, display, and storage areas should create an environment that is functional and easy to clean.
- Lighting should be both natural and artificial and conducive to close work.
- A door to the outside is desirable.
- Space and electrical outlets for two kilns should be in the farthest corner of the storeroom with proper ventilation.
- Eight duplex electrical outlets are to be provided (where feasible quadruplex outlets may be utilized).

The window wall should have the following:

- Windows that permit views of the surrounding landscape.
- Blinds to permit room darkening.
- Shelves under windows 15" deep.
- Tackboard or tack strips above windows if space permits.

The teaching wall should have the following:

- Two 3-foot wide by 7-foot tall, 18" deep, shelf sections for storage of unfinished work.
- Eight-foot long by 4-foot tall white/chalkboard between two 8-foot sections of 6-foot tall white/tackboard with 2-foot tall tackboard above the chalkboard. Tack and white/chalkboards should be mounted 2 to 4 inches above low shelving.
- Fourteen-inch deep, 24 inch high, shelving under the center of the 16-foot long tackboard and white/chalkboard.
- Wall mounted projection screen with electrical outlet underneath.

The wall near the entrance should have the following:

- One standard sink and one 30-inch high student sink, one of which should be located on a peninsula (Peninsula is to be no longer than 3 feet). One sink should be handicapped accessible. Faucets should be accessible to students (preferably on the side of the sink and not the back of the sink) and positioned to prevent splashes onto floor.
- Sinks and sink area should also include:
 - Removable plaster traps
 - Closed cabinets below and above
 - Conveniently located towel dispensers
 - At least 9 feet of counter space (includes 1 ½ feet of counter space on both sides of the sinks)
 - Hot and cold water faucets with bubbler
 - A 5- to 7-foot open space is needed for drying rack(s) along one wall.
 - Approximately 30 smock hooks in 3 feet of staggered tiers, beginning 2 feet from the floor, spaced 4 inches apart, up to 48 inches high. (Optional in rooms where one end of MCPS-built drying rack(s) that measure 44 inches wide and 24 inches deep is accessible, since hooks can be installed on pegboard ends.)

The wall opposite or adjacent to the teaching station should have the following:

- One 6-foot tall, 12-foot long tackboard with 24-inch tall, 14-inch deep shelving units below
- Two or three 7-foot tall, 18-inch deep, 36-inch wide shelf sections near kiln area for storage of ceramic work

Kiln Area

- The kiln area should be located at the far end of the storeroom.
- A kiln exhaust hood and fan (local switch) must be installed. Positive ventilation (using negative pressure) is needed to assure removal of fumes.
- Kilns should be 30 inches wide, 30 inches deep and 36 inches tall. Allow an additional 6 inches in depth for opening of the kiln lid.
- Electrical characteristics for the kiln are 208 volt, 30 amps, single phase, and 7200 watts. Provide 2-50 amp 250-volt outlet NEMA configuration 6-50R. Provide outlet(s) on wall behind kiln(s).
- Kilns may be located in the far end of the storeroom with built-in hood above and metal shelving 12 inches to 18 inches deep on walls adjacent to the kiln area. See notes above for additional kiln information.

Art Storeroom

- The storeroom must have a 6-foot wide, 30-inch tall, and 34-inch deep worktable immediately inside the entrance to the storeroom with built-in adjustable shelves below and 14-inch deep wall hung shelving above. This table will accommodate a 30-inch square paper cutter and storage of large art reproductions and papers below, in 3 banks of shelving units 8 inches on center, 20-inches wide (inside width).
- One or two 6-foot tall 20-inch wide paper storage shelf section(s), 24 inches deep with shelves 8 inches on center to accommodate 18" x 24" paper.
- Seven-foot tall open shelving, 18 inches deep, should be provided along remaining walls where space permits. Twelve to fourteen inch deep sections are acceptable for some sections where 18-inch deep shelves won't fit.
- Storeroom door is to be lockable, and 2 coat hooks are to be mounted behind the door.

Music Suite

Spatial Needs
Music Room (includes 250 sq. ft. storage)
Instrumental Music Room

- The music room and instrumental music room should be located adjacent to each other with a shared storage room.
- These rooms should be located near the multi-purpose room to allow easy access to the platform.
- The rooms must be acoustically isolated from the rest of the school.

Music Room

- The music room should have a clear circular area of at least 20 feet in diameter and access to the music storage room.
- A 150-square foot secure closet area to store instruments, equipment, choral music, and instructional charts is necessary with access from the music room.
- Variable-sized shelving must allow for storage of books, records, and small instruments.
- The music room needs a child height sink with a work area and drinking fountain.
- Window blinds and a wall-mounted retractable projection screen are required.
- Approximately 20 feet of white/chalkboard and 4 feet of tackboard must be provided. Continuous tack strips are needed around the room.

- Specific storage and shelving specifications are available through Montgomery County Public School's Division of Construction.
- Eight duplex electrical outlets are to be provided (where feasible, quadruplex outlets may be utilized).
- This room must be acoustically treated.

Instrumental Music Room

- A secure closet area is needed adjacent to the room for large instrument storage.
- A sink and countertop area should be provided for cleaning and repairing musical instruments.
- The Instrumental Music Room must be soundproofed.

Dual Purpose Room

- This room should be designed in schools with a 740 master planned capacity.
- This room should be designed to accommodate both art and music activities in the school but with less detail than the regular art and music rooms.
- Some acoustical treatment should be provided in the room.
- One sink for student use should be provided along with some countertop area.
- No kiln area is needed and less shelving than described in the art room is to be provided.
- The exact details of the design should be discussed with the school staff and community.

Core Instructional Areas

Instructional Media Center

Spatial Needs
Main Resource Area
Materials Preparation/Office Area
Media Storage
Textbook Storage
Control Room/Storage
Head End Equipment Closet
LAN Wire Closet

- The architect should refer to the MSDE document, *Facilities Guidelines for Library Media Programs, 1998* as a guide for media center design.
- Staff in the Department of Educational Media and Technology must approve specific design.
- The media center is to be central to the instructional program of the school.
- The total media complex is to be enclosed and lockable.
- The media center is to accommodate multiple arrangements and uses as functions change. It should be acoustically designed for multiple activities. Furniture and shelving should have casters for easy moving, to divide one area from another, and create traffic patterns.
- A complete media center is to include the following areas that are described in the following sections:
 - Study and Research Area
 - Informal Reading Area
 - Instructional Area
 - Production and Group Project Area
 - Administrative Area

Main Resource Area

- The main resource area should have 3 separate lighting zones for the storytelling area, the instructional area, and the circulation area. Each zone should be independently operable. Dimming capabilities are recommended in the storytelling and instructional areas.
- Two CCTV outlets should be located in the main resource room --one near the storytelling area and one in the instructional area. CCTV receptacles and electrical outlets should be located 44" AFF.

The Main Resource Area is to be subdivided to provide for the following program activities:

Study and Research Area

- Space is needed in the Main Resource Area for an information desk, catalogs, online stations, study and research tables, reference materials, professional library materials, basic collections, and stacks.

Informal Reading Area

- Space is needed in the Main Resource Area for books and periodicals to encourage literacy, lifelong learning, and reading for pleasure.
- This area needs to provide space to seat 30 students on the floor away from the busy areas for a storytelling area.
- A projection screen should be accessible. Emergency lighting should not affect the projection screen.
- Zone lighting should be controlled from this area.
- A CCTV receptacle and appropriate electrical outlet should be located near this area.
- The architect may want to define this area by architecture and/or accent carpeting.
- Picture book shelving also may help define this area.

Instructional Area

- Space is needed in the Main Resource Area for formal seating for small, large group, and whole class instruction.
- A “teaching wall” with appropriate instructional technology, and display space is needed.
- This area should not be located near an entrance.
- It should seat 30 students at tables.
- A projection screen with appropriate floor mounted outlets should be located in this area.
- Lights in this area should be separate for dimming without affecting the reference area.

Production and Group Project Area

- Space is needed in the Main Resource Area for functional work and meetings for individuals, teams, and classes as well as facilities for media production should be designed in the main resource area.
- This area allows for individual study desks for students to carry on independent study research projects, analyze information, and solve problems.

Administrative Area

- Space is needed in the Main Resource Area for the circulation desk should be designed near the entrance of the media center. This area needs writing space, book return, computer workstation, file cabinet, and storage.
- An electronic catalog area (ECC) should be located near the circulation desk and should contain one to two computer workstations.
- The reference section area should contain two to four computer workstations. These should be located near the electronic card catalog and be positioned so they may be utilized with the ECC for directed instruction to students for on-line retrieval skills. Appropriate data, telephone and electrical outlets as well as casework should be provided for these workstations. Casework should include wire management, area for student books and a pullout keyboard.

Materials Preparation/Office Area

- The Office and Materials Preparation Rooms may be combined into one room. The Office access should be located immediately behind the circulation desk at the entrance to the Media Center. Plentiful interior windows from these rooms into the Media Center are to be provided for supervision.
- The materials preparation area provides for the preparation of several types of instructional materials, such as transparencies, slides, and charts.
- The materials preparation area should have corridor access.
- This space requires appropriate counter space for repairs, including cabinetry, sink, storage of tools and cords, as well as electrical and computer receptacles for testing equipment.
- Appropriate casework for storage, computer workstations, data, electrical, and modem receptacles should be provided.
- See media center specifications available from the Division of Construction.
- The office area should include space for collaborative planning and processing of library media materials.
- The office area must be accessible to the materials preparation area and main reading room. It should include appropriate casework for a computer workstation, book shelving, and cabinetry as well as phone, data, and electrical receptacles. Adequate space should be allocated for the media center file server.

Media and Textbook Storage

The storage areas should be located adjacent to the materials preparation work area and should have the following specifications:

- Space is needed for the storage of instructional materials, such as seasonal materials, maps and globes, and instructional equipment, such as projectors and previewers, for distribution. Minor repairs, cleaning, and testing of equipment are completed here. Space for manipulatives, especially mathematics and science, is needed.
- Textbook storage provides for storage of textbooks, workbooks, and classroom materials.

Control Room/Storage Area

- A support room should be located adjacent to the control room so the room can serve the dual function of a support space and TV studio.
- The support room used as a TV studio should have adequate electrical outlets and acoustical treatment.
- See studio specifications for media center communication labs available from the Division of Construction.

Telecommunication Equipment Closet

- This room is to be located in or near the instructional media center.
- It should have corridor access and be centrally located in the school.
- Specifications for this space are available from the Division of Construction.

Shelving Requirements

- The architect is to refer to the MCPS specifications with the Division of Construction for the material to be used for the shelving in the media center resource area and storage area.
- The shelving should be interchangeable within standard upright wall units in accordance with MCPS specifications (maximum height and island shelving requirements are available from the Division of Construction).
- Low shelving is desirable for sight and safety reasons when extra shelving is needed.

- Shelving is to be allocated on the average as follows:

	Linear Feet
Books	700
Picture Books (with dividers)	165
Magazines (with space for back issues)	20
New Book/Interest Display	10
Media Center Storage (20-24" depth)	As space allows
Textbook Storage (12-18" depth)	As space allows

Computer Laboratory

- This room should have direct access to the Instructional Media Center.
- The computer laboratory should be zoned for independent air-conditioning during times when the rest of the building is closed.
- Specific design guidelines beyond these specifications are available through the Division of Construction and the Office of Strategic Technology and Assessment (OSTA).
- The room should be designed to accommodate up to 30 computer workstations.
- Floor-mounted electrical/network capabilities evenly spaced down center of classroom floor for computer workstations is required.
- Electrical/network capability in the front of the room (teaching wall) for 6 computer workstations is required.
- One of the storage wardrobes must be lockable to accommodate laptop computers.
- The lab should include a wall-mounted screen in front of the room for an overhead projector, a dustless chalkboard, and a modular telephone outlet (RJ11) for use with a modem. A floor mounted electrical outlet/phone/data receptacle box should be located 9' from the plane of the projection screen. Specifications detailing the design of the computer lab are available from the Division of Construction. The Technology Facilities Design Unit of DEMAT must approve plans.

Physical Education

The gymnasium has two major purposes:

- To provide an indoor facility for the physical education instructional program.
- To provide for student and community recreation during after school hours, weekends, summers, and holidays.

Spatial Needs
Gymnasium (74'x50')
Physical Education Office
Large Storeroom
Two Storage Rooms
Lobby Area
Outdoor Storage

Gymnasium

- The location of the gymnasium should be near the play areas, directly accessible from a corridor, and easily accessible from the parking lots.
- Buffering the gymnasium with a corridor or related spaces is required to separate gymnasium noise from the rest of the school.
- The physical education office should be adjacent to the gymnasium and lobby.
- The architect should refer to detailed requirements provided by Division of Construction in the "Architect's Guide".
- Any windows into the gymnasium should be oriented north and south so that direct east-west sunlight does not impact play in the gymnasium. However, windows should not be placed in the end walls.
- The gymnasium should be ADA accessible from within and without (access from inside gym to playfields).
- A ceiling clearance of 18-20 feet free of girders, pipes, heating vents, lights and curtain supports is required.
- No ledges or sills should be created over 6' in height that would make it difficult to retrieve a ball.
- Glazed tile on the walls must cover at least seven feet from the floors.
- If the gymnasium is a community sized gymnasium (84'x 75') then a vinyl-mesh curtain to divide the floor area into two equal size spaces should be provided. It must be the type that can be electrically rolled to the ceiling for storage. If the gymnasium has a divider curtain, a clock with a protective wire covering should be provided on both ends of the room.

- Adequate lighting in the gymnasium is required. The lighting should be securely mounted and guarded to prevent damage by balls with keylock switches to control the lighting.
- A minimum number of windows to prevent glare and glass breakage is requested.
- Acoustical treatment of walls and ceiling is required and must be able to withstand damage by balls.
- Ventilation equipment must not inhibit use of the space for auditorium purposes.
- A wood floor should be installed in the gymnasium. Striping for basketball, volleyball, and floor games should be provided. (i.e. hopscotch and four square)
- Graphics or approved words should be painted on the gymnasium walls. The school may choose from an approved curriculum list of words to paint on the gymnasium walls. The list of words will be provided by MCPS staff.
- A whiteboard, 4'x6', with no ledge is required.
- Separate heating source or controls to permit use when the remaining part of the building is not occupied is required.
- Recessed door handles are required.
- Doorway center posts must be removable to allow for the passage of equipment.
- A recessed fire alarm box or covered fire alarm box, preferably in a corner of the room needs to be provided.
- Two call buttons located at opposite sides of the gymnasium are required to contact the main office.
- A clock with a protective wire covering should be provided on a sidewall of the gymnasium. The fire extinguisher, if mounted in the gymnasium, should be recessed into the wall.
- Wall safety padding must be mounted under each basketball backstop with 16 feet under end basketball backstops and 12 feet under side basketball backstops with nylon nets.
- Doors or openings should not be directly behind basketball backstops.
- Fan-shaped basketball backstop, adjustable from 8 feet to 10 feet, must be mounted four feet from the sidewalls to provide two equal sized side courts. The backstops must be of aluminum composition. Collapsible rims must be provided.
- A basketball backstop, adjustable from 8 feet to 10 feet, must be mounted on each end wall for full court play. The fan-shaped backstops must be of aluminum composition. Collapsible rims must be provided.

- A hand crank must be provided for the adjustable basketball backstops if they are not operated electrically.
- Four climbing ropes (1 knotted, 3 plain) with hoist located 6 feet from the ground and safety cables located away from ceiling lights and basketball backstops should be provided.
- One 8-foot semi-guyed (wall mounted) horizontal bar with safety chain and floor plates should be provided. The MCPS shade shop will provide safety padding.
- One pair of volleyball aluminum uprights and one center volleyball aluminum upright (insertion type) must be provided. Heavy-duty net ratchet and removable crank handle should be included.
- Five solid brass floor plates and floor sleeves need to be installed. Two volleyball nets, 32" in length with end sleeves for wooden dowels should be provided.
- Two portable game standards are required.
- A wall-mounted, chin up bar should be provided. The lowest bar height should be approximately 5 feet from the floor.
- Computer data/CCTV/electrical/network receptacles on opposite walls of the gymnasium are required.

Physical Education Office

The following items are required in the physical education office:

- Non-breakable window to the gymnasium, low enough to view students, is required.
- Non-breakable window to the lobby for supervision, low enough to view students, is required.
- Toilet and shower facilities are required.
- Computer/Telephone/Cable TV outlets connected to the school-wide network are required.
- Venetian blinds for windows are required.
- VCT flooring is required.
- A call button the main office is required.
- Three full size clothing locker should be provided.
- Electrical outlets.
- A tackboard should be provided.
- A wall-mounted clock should be provided.
- A small closet with shelves should be designed in this office.

Storage Rooms

- All of the storage rooms require 8-foot doors and 12-foot ceiling heights with a flush threshold.
- The large storage room requires 8-foot double doors with no center post.
- The large storage room must contain shelves, 6 feet high and 18 inches deep, mounted on at least two walls. The shelves must be adjustable after installation.
- Both of the small storage closets must contain shelves, 6 feet high 18 inches deep, mounted on the two side and back walls. The shelves must be adjustable after installation.
- Two volleyball wall racks should be installed in the small storage closet designated for community use. Each rack will hold two uprights.
- The large storage closet must have a length that will accommodate a 12' long balance beam.

Lobby Area

- Separate toilet rooms for boys and girls should be located in the lobby.
- An electric water cooler and public telephone should be located in the lobby area.
- Six feet of tackboard should be installed in the lobby area.
- The window between the lobby and physical education office must be low enough to view people in the lobby.
- A control gate to separate the gymnasium, lobby area, and restrooms from the rest of the school during after-hours is required.

Physical Education Instructional Site Requirements

- The site should be designed to provide a clear view of all play areas and to facilitate supervision from one location.
- Protective fencing may need to be provided near heavily wooded areas, busy streets, steep hills, parking lots and turnaround areas.
- Metal drains/grates should not be located in the playing fields and paved play.
- Paved areas and fields must be as level as possible. Water should not collect on paved areas
- The items described below are for a school with a site meeting the 12-acre requirement. At schools with smaller sites, the architect is to work with MCPS staff, including the Physical Education Curriculum Coordinator, Safety Supervisor and Playground Director, and school staff to determine which of the play areas will be designed for the school. The outdoor physical educational instructional space should not be compromised for playground equipment.

Softball Fields

- Two softball fields should be provided with the following design requirements:
- 250' radius, with a regulation (195' x 330') soccer field superimposed should be provided if possible.
- The site size will determine the number and dimension of the softball fields.
- Softball fields should have metal benches protected by fencing for each team's use.
- The fencing and benches should not interfere with soccer field usage.
- The softball backstops (2) shall be in diagonal corners of the field or in corners on the same side. See diagram in Architect's Guide provided by Division of Construction.
- Softball infields are not skinned for elementary schools. However, one field may be skinned if it does not significantly impact the soccer playing area.

Soccer

- The site size will determine the size of the soccer fields. The elementary school size soccer field is 150'x240' however the minimum size field should be 105' x 180'.
- Permanent regulation soccer goals shall be installed unless the goals impact upon the softball playing area. In that case, portable goals with anchoring devices should be provided.

Paved Play Areas

- Two paved areas, 80' x 100' should be provided.
- If located adjacent to one another, a grassy strip of at least 20' should be between the two paved areas.
- One area should have four basketball goals with appropriate striping (see diagram in Architect's Guide available from the Division of Construction).
- A second area, designated for primary use, shall be striped according to drawings provided in the Architect's Guide available from the Division of Construction.

Kindergarten Paved Play Area

- A third paved area, 80' x 100', is needed for the Kindergarten students.
- This area needs to be located adjacent to the Kindergarten playground (mulched) area and close to the other paved play areas.
- This area requires a fence around it.

- The area will be striped according to drawings provided in the Architect's Guide available from the Division of Construction.

Multi-Purpose Room and Platform

Spatial Needs
Circulation Area
Platform
Chair Storage
Table Storage
Physical Education Storage (if no gymnasium)

Multi-purpose Room

- The multi-purpose room should have a ceiling height of 12–14 feet.
- A building service utility closet should be provided near the entrance to the multi-purpose room for convenient lunch cleanups.
- Table storage and chair storage must be located adjacent to the multi-purpose room.
- Exits from the multi-purpose room must be sufficient to allow maximum seating.
- Toilet rooms and an electric water cooler should be near the multi-purpose room to allow for public use.
- Audiences need to be able to hear and see presentations from all locations in the room.
- Ventilation equipment noise must not inhibit use of the space for auditorium purposes.
- Acoustical treatment is needed.
- Proper lighting and sound amplification are required.
- Each side of the risers at the multi-purpose room floor level should be equipped with CCTV/data/voice/modem/electrical receptacles.
- Lighting, windows, fire alarm box, clock, and ceiling must be protected to prevent damage by balls.
- Outdoor play areas should be accessible from the multi-purpose room. Children should not have to cross driveways or parking lots to access the play areas.
- An audio loop system should be provided for hearing impaired students; guidelines are available through the Division of Construction.

- An independent sound system should be provided in the multi-purpose room.
- A call button to the main office should be provided.
- If there is no gymnasium, then the architect should refer to the physical education section for the storage requirements.

Platform

- The platform should have a proscenium opening 24 feet wide. The depth is to be 15 feet deep. The platform floor is to be three risers above the multi-purpose room floor. A full set of platform curtains is to be provided. An 8'x10' motorized projection screen is to be provided. Platform steps must NOT be carpeted.
- The platform must be accessible to the physically handicapped.
- Each side of the platform should be equipped with CCTV/data/voice/modem/electrical receptacles.

Food Service Kitchen

- The kitchen is operated as a "finishing kitchen" and should include an area for dry storage, a manager's workstation, toilet facilities, preparation and serving area, and a receiving area for daily deliveries.
- A sheltered dock is preferred and should be separate from other school receiving.
- Delivery flow-path must be clear of preparation area.
- The trash room should be separate from the rest of the building i.e. no common walls.
- The trash room should not be accessed from the kitchen.
- Air conditioning must be available at all times in elementary kitchens, storage, and office.
- Code requirements for lighting, surfaces, and equipment must be met. The Division of Construction will provide current code requirements.
- Windows must have screens.
- Receiving door should be 48" wide and must be self-closing with peephole and doorbell to manager's office.
- An easy to mop, slip-resistant quarry tile floor is required. Color of grout should be the same or darker than the color of the floor.
- There should be direct access to both the hallway and the multi-purpose room to facilitate one-way circulation through the serving line.

- A minimum 9' ceiling height is recommended.
- A building service closet with floor type mop basin shall be located outside the kitchen but readily accessible to the kitchen.
- A dedicated circuit is required for the cash register with under the floor conduit for connection to the computer in the manager's office.

Serving Area

- A 26 ft. long serving line with 3-ft. clearance at each end should be provided.
- The color selection will be approved by Food Services.
- A single door refrigerator and microwave oven on a cart adjacent to the service area is needed.
- A wall clock and tackboard on the serving line wall are needed.

Walk-in Cooler/Freezer

- A 7' 9" x 8' 8 1/2" cooler is required.
- A 7' 9" x 10' 8 1/2" freezer with a height of 8' 6" is required.
- A mobile polymer shelving and dunnage is required.
- A roof top compressor is required.

Dry Storage

- The recommended dimension for the dry storage area is 12' x 16'.
- A mobile polymer shelving and dunnage is required.
- Adequate ceiling height for top shelf storage should be considered.
- This space should be totally secure and free of roof access ladders or electrical panels.
- Locking cabinets for chemical storage should be provided.

Manager's Office

- Visibility to delivery and serving area is required.
- The office should be located away or protected from outside door draft.
- Desk (NIC), file (NIC), telephone, tackboard, and LAN access are required.

Toilet Room

- A hand sink with soap and towel dispenser, sanitary napkin disposal, and 3 full-height lockers are required.

Preparation Area

- A double convection oven with roll-in bottom is required.
- An oven cart and dolly (2 each) are required.
- A half-size range is required.
- A heat removal exhaust hood is required.
- Work tables, one 6 ft. and the other 8 ft. with 2 drawers each, under the table are needed.
- Arlington wire baskets (500 each) and dollies (10 each) are required.
- Hand sink with pedals and soap and towel dispensers that meet the code requirements are needed.
- A three compartment sink, 24" x 24" x 14", with 24 inch drainboards, is required. Disposal in drainboard with pre-rinse spray is required.
- A 6-foot louvered shelf above with hooks is required.
- A mobile warmer to accommodate Arlington baskets is needed.
- Two utility carts are required.

Administrative Area

Administrative Suite

Spatial Needs
General Office
Workroom
Code Red/Code Blue Command Center
Principal's Office
Assistant Principal's Office
Conference Room
Telephone Room
Storage Room
Records Room
Staff Development Office

- The administrative suite must be located with good access from the main entrance of the school and visual oversight of the main entrance and bus drop-off area.
- The suite must be a natural first stop for visitors to the school and must, therefore, have direct corridor access. A security vestibule must be designed so that all visitors must enter the general office to check in before entering the school.
- Spaces need to be arranged for student and visitor flow and for efficient use by office staff.
- The general office is to be treated as the center of the administrative suite with direct access to the principal's office, the workroom, and the health suite.
- A coat closet is to be provided for office staff and visitors.
- The Administrative Suite should be carpeted.
- Sufficient electrical outlets are to be provided (where feasible, quadruplex outlets may be utilized) as well as CCTV receptacle for the general office, principal's, and assistant principal's offices.
- A glass display case should be located in the vestibule of the Administrative Suite entrance.
- The administrative suite should be designed with separate toilet rooms. If the school chooses, one of these toilet rooms may be located in the principal's office.

General Office

- A counter should be provided near the entrance to greet and separate visitors from staff and to provide a place to write.
- Space for two to three staff persons is required behind the counter.
- The general office should be equipped with a staff bulletin board.

Workroom

- The location of mailboxes should not create congestion by impeding the smooth flow of traffic in the general office and hallways.
- Cabinetry appropriate for storing a variety of office and school supplies should be designed along one wall of the workroom.
- A portion of countertop is to be more than 30 inch wide to accommodate a large paper cutter.
- Space adequate for a large copying machine with necessary electric service and ventilation is required.
- A sink is needed in the workroom.
- There should be direct access to a corridor from the workroom.
- The workroom should be treated acoustically to keep machine and work noises at low levels.

Command Center

- An interior room in the school needs to be designated as the command center for Code Red/Code Blue emergencies. In many schools, the workroom in the administration suite may serve this purpose. The room cannot be on an outside wall.
- The room designated as the command center must have all data and communication equipment including data, cable, phone, and public address (PA) system.
- The PA console should be located in the room that is designated as the command center.
- Window coverings such as mini blinds or roller shades must be provided for all windows and doors to the command center.
- In secondary schools, the security camera monitors should be located in this area.
- The space designated as the Command Center must be large enough to accommodate up to six staff persons.
- Storage space is needed for the Code Red/Code Blue emergency kit.

Principal's Office

- This office should be carpeted.
- This office should be equipped with a tackboard and two-shelf adjustable bookcases under the windows. Each shelf must be able to hold a 12 inch notebook upright.
- The office should be directly accessible to the conference room through a connecting door.
- This office should have good visible access of the main entrance and to the bus drop-off area.

Assistant Principal's Office

- This office should be carpeted.
- This office should be equipped with a tackboard and two-shelf adjustable bookcases under the windows. Each shelf must be able to hold a 12 inch notebook upright
- This office should have good visible access to the main entrance and bus drop-off.

Conference Room

- The conference room should be carpeted.
- The conference room is to have a whiteboard, a tackboard, and one bookcase.
- The conference room should be equipped with a telephone jack.
- Casework should be provided on one wall with two, two-drawer file cabinets for confidential records, letters forms, etc.
- If possible, the conference room should be carpeted.

Counselor's Office

- This office should be carpeted.
- The counselor's office should be easily accessible from the classrooms and near, but not a part of, the administrative suite and should have a window.
- This office needs a chalkboard, tackboard, closet, telephone, and bookshelves.

Telephone Booth

- A small room where a teacher can talk privately on the telephone is required. (The room needs a door with a window, or a "phone in use" light.)
- This room should have a small built in countertop and room for one chair.
- This room should be carpeted.

Storage and Records Rooms

- Two lockable rooms are needed for storage of office supplies and student records.
- The records room needs space for lockable file cabinets.

Staff Development Office

- The staff development office should be centrally located and may be in or near the administrative suite.
- This office needs a whiteboard, tackboard, closet, and video, voice, and data outlets.

2nd Floor Workroom

- This room requires appropriate electrical wiring and ventilation to house a copier for staff use.
- This room requires a work counter and cabinets under and over the counter for storing supplies.

Health Service Suite

Spatial Needs
Waiting Area
Treatment/Medication Area
Office/Consult/Examination Room
Examination/Isolation
Rest Area
Toilet Room
Storage Room

- The Health Services Suite should be in complete compliance with COMAR 13A.05.05.10A.
- The health suite must meet accessibility requirements of the ADA, and at a minimum, include spaces for waiting, examination and treatment, storage, resting, a separate room for private consultation and for use as the school health services professional's office, a toilet room, and lockable cabinets for storing health records and medications.
- A designated school health services professional must be involved in the planning of the health services suite.
- The architect should refer to MSDE document, *School Health Services*, June 2002 for specific utility information.
- The suite should be designed to provide easy visual supervision of all the spaces by the health services professional.
- In addition to access to the general office, the health services suite also must have a window into the general office so that office staff may monitor the room when health staff is unavailable.
- The health room also must have a door to the corridor.
- Ventilation is important throughout the health suite. .
- The countertops should be seamless to aid in maintaining sanitary conditions.
- The floor finish should be an easily cleaned non-absorbent material. Carpet should not be used in any areas of the health suite.
- A non-porous ceiling material should be used. Vinyl-coated ceiling tile or painted drywall is an acceptable choice.
- If any of the areas are enclosed then glazed walls areas should be provided.
- The health suite requires wall and base cabinets, lockable file cabinets, for storing health records. A portion of these cabinets must be lockable to store medications, medical supplies, and equipment.

Waiting Area

- The waiting area should have space for four to eight chairs.
- A small tackboard should be provided in the waiting area to display health care and other information of importance to students and staff.

Treatment/Medication Area

- This area should be adjacent to the waiting area to facilitate the efficient flow of students.
- This area should have a kitchen-type sink with cabinets above and below (including a locked medicine cabinet), a 36-inch high countertop, and a small residential style refrigerator/freezer to store medical supplies and foods.
- The freezer should have an icemaker.
- The treatment area also requires a computer.
- A small sink, with cup, towel, and soap dispensers should be provided.

Office/Consult/Examination Room

- The health services office requires one computer, fax machine, and electronic connection and physical proximity to a copy machine.
- The spaces used for consultation and examinations must be enclosed with sufficient acoustical isolation to ensure complete privacy and confidentiality.
- A small sink, with cup, towel, and soap dispensers should be provided.

Examination/Isolation Room

- The spaces used for consultation and examinations must be enclosed with sufficient acoustical isolation to ensure complete privacy and confidentiality.
- A small sink, with cup, towel, and soap dispensers should be provided.

Rest Area

- This area should not be a fully contained room but rather an areass that can provide privacy for each cot with a draw curtain on a ceiling track.
- The rest area needs space for two to four cots, and one bedside cabinet.
- There should be a separate privacy room within the rest area, with a door and space for a cot and a single pedestal desk and chair.

- In the rest area and privacy room, supplementary power ventilation capable of 20 changes per hour should be provided, with control by means of a separate switch within the health suite.

Toilet Room

- One ADA toilet should be provided.
- The toilet room should be accessed without having to go through another functional space in the health suite such as a rest area.
- Ideally, students should be able to enter the health suite solely to use the toilet room without disrupting other activities.

Storage Room

- The storage area is to have space sufficient for a four-drawer locked file cabinet, a wardrobe for coats, and a wheelchair.
- A minimum of 12 linear feet of wall and base cabinets should be provided.

Staff Lounge

- The staff lounge is a place for staff members to relax, study, plan, and think together.
- Two toilet rooms are required just outside of the staff lounge. The toilet rooms may be labeled "adult" rather than "male" and "female" in an elementary school.
- The staff lounge should contain a Pullman kitchen with six linear feet of counter space for a microwave and a refrigerator (nic).
- Carpeting is required, and other acoustic treatment should be considered.
- A clock should be provided.
- A small, enclosed room with countertop and space for one chair is needed for a telephone.
- Ventilation must be provided. An operable window in the staff room is preferred.
- An area should be designated for a computer with jacks for computer & telephone (modem).

Building Services Office

- A locker room and shower for the staff are to be provided.
- A desk, chair, bulletin board, filing cabinet, and phone access to the main office are required.
- Some general storage is to be adjacent.

Compactor/Trash Room

- The compactor/trash room is to be completely separate from the kitchen spaces and reasonably shielded from normal view.
- Trash trucks must have access to the room.
- The room is to be heated and have adequate interior lighting, floor drainage, and easily cleanable surfaces.
- Hot and cold water is to be available for flushing and cleaning.
- The room is to be bug-free and well ventilated.

Recycling Room

- The recycling room should be located next to the trash room. This room will be used for the sorting of recycled items.

Storage Facilities

- Four or more storage spaces should be located throughout the school.
- Flexible shelving floor to ceiling is to accommodate books, teaching aids, large size (24" x 36") paper, and other instructional supplies.
- Good lighting and easy access to materials being stored are required.
- Electrical outlets, upgraded lighting and ventilation must be provided in all large storage rooms for future flexibility.
- Small building service storage closets are to be strategically located throughout the building.

Site Requirements

- 12 useable acres for new schools is ideal. More than 12 acres may be needed due to terrain or for environmental protection requirements.
- Other considerations include road access, ability to extend sewer, water and other utilities, good topography, compatible adjacent land use.
- The site should be designed to provide a clear view of all play areas and to facilitate supervision from one location.
- A minimum of 80 parking spaces should be designed initially for a school with regular staffing allocations, with future expansion possible. At schools with a class-size reductions 100 parking spaces should be provided.
- Protective fencing may need to be provided near heavily wooded areas, busy streets, steep hills, parking lots and turnaround areas.
- Metal drains/grates should not be located in the playing fields, paved play areas and mulched playground equipment areas.
- Paved areas and fields must be as level as possible. Water should not collect on paved areas or in mulched areas.
- Playground equipment areas should not be located at the bottom of hills unless a provision is made to channel water away from the equipment areas.

Driveway and Service Drive

- The driveway must be 24' wide, 50' radius for turnaround, for buses, with a separate entrance and exit or turnaround is required.
- Bus traffic should be separated from car traffic at all times, when possible. Bus loading zones should be able to accommodate the entire student body.
- All driveways must be arranged so that children do not cross them to get to the play areas. Access to the Head Start and future day care areas must be considered.
- Pedestrian access to the school facilities should be designed to make the best use of community rights-of-way and should not require students to cross in loading-zone areas.
- Driveway aprons are to be perpendicular to the centerline of the street; and if there is an intersecting street on the opposite side from the proposed driveways, the driveway apron is to line up with the intersecting street.
- The grade of the driveways shall not exceed eight percent and should provide for a minimum centerline radius of 50 feet to provide adequate turning space for buses.

- A service drive 15' wide with an adequate turnaround is required to service the kitchen, boiler room, and general delivery area.
- Where necessary, oil filler pipes, with adequate overflow pipes, are to be easily accessible for a tractor-trailer.

Playground Equipment Areas (mulched areas)

- One or two areas shall be provided near the playing fields and large paved play area for playground equipment.
- The area shall be level, bare ground, unseeded, and no sod. MCPS will provide equipment dimensions for these areas.
- An underground drainage system must be provided.
- The loose-fill surfacing material (such as Fibar or Woodcarpet) must meet ADA requirements. A border must be provided to contain the filler. The surfacing materials must meet or exceed safety specifications for shock absorbing qualities as outlined by US CPSC.

Kindergarten Play Area (mulched area)

- A kindergarten play area of 45' x 60' should be located adjacent to the kindergarten paved play area described in the physical education section for playground equipment.
- The area shall be level bare ground, unseeded, and no sod. MCPS will provide equipment dimensions for this area.
- Protective fencing should enclose the area.
- An underground drainage system must be provided.
- The loose-fill surfacing material (such as Fibar or Woodcarpet) must meet ADA requirements. A border must be provided to contain the filler. The surfacing materials must meet or exceed safety specifications for shock absorbing qualities as outlined by US CPSC.

Landscaping

- Planting should include screen planting and other planting needed for erosion control.
- Existing plant stock, if on site, is to be evaluated for use and protected accordingly.
- Landscaping to support energy conservation and to relate the building to the site with aesthetic appeal must be included.
- Planting areas along sidewalks and wooded and flowered areas are to be situated to enable the physical education program to be carried on without undue disturbance to the classrooms.

- Provision for outdoor watering must be included.
- The landscaping plan should include areas for outdoors environmental education programs.

Unique Program Needs for _____ Elementary School