

**EXHIBIT T-1**

**EDUCATIONAL SPECIFICATIONS FOR ADELPHI AREA MIDDLE SCHOOL, DREW-FREEMAN MIDDLE SCHOOL, KENMOOR MIDDLE SCHOOL, AND WALKER MILL MIDDLE SCHOOL**

**EXHIBIT T-1 (EDUCATIONAL SPECIFICATIONS FOR ADELPHI AREA MIDDLE SCHOOL,  
DREW-FREEMAN MIDDLE SCHOOL, KENMOOR MIDDLE SCHOOL AND WALKER  
MILL MIDDLE SCHOOL)**

1. For the purposes of the Project Agreement, the Educational Specifications for Adelphi Area Middle School, Drew-Freeman Middle School, Kenmoor Middle School and Walker Mill Middle School means, collectively, the following documents:
  - (a) the negotiating period design development summary identified in Part A of this Exhibit T-1 Educational Specifications for Adelphi Area Middle School, Drew-Freeman Middle School, Kenmoor Middle School and Walker Mill Middle School (the "**Exhibit T-1 Negotiation Period Summary**"); and
  - (b) the PGCPs technical specification documents identified in Part B of this Exhibit T-1 Educational Specifications for Adelphi Area Middle School, Drew-Freeman Middle School, Kenmoor Middle School and Walker Mill Middle School (collectively, the "**Exhibit T-1 PGCPs Educational Specification Documents**").
2. In the event of any ambiguities, conflicts or inconsistencies between or among any of the documents comprising the Exhibit T-1 PGCPs Educational Specifications and the Exhibit T-1 Negotiation Period Summary, the Exhibit T-1 Negotiation Period Summary shall prevail in all matters; and
3. For greater certainty, where any element, sketch, feature or other document or item contained in any part of the Exhibit T-1 PGCPs Educational Specifications is modified, superseded, qualified, conflicts with or is otherwise amended by the Exhibit T-1 Negotiation Period Summary, the Exhibit T-1 Negotiation Period Summary shall prevail.

PART A

EXHIBIT T-1 NEGOTIATION PERIOD SUMMARY

## NEGOTIATED DESIGN SPECIFICATION CHANGES (2020.11.19)

NO.	DESCRIPTION
1	Stand-alone mass notification system not required.
2	<p>For the following spaces, electrical outlets shall be placed on teaching walls at a minimum of six feet (6') on center and on the other walls at twelve feet (12'):</p> <ul style="list-style-type: none"><li>• Academic Core Space: Academic Classrooms/Learning Studios</li><li>• Academic Core Space: Science Classroom / Lab</li><li>• Generic Language for all Autism Programs: Special Needs Classroom/Studio</li><li>• Generic Language for all Emotionally Disabled Programs: Special Needs Classroom/Studio</li></ul> <p>For all other spaces, electrical outlets/duplexes shall be placed on perimeter walls at twelve feet (12').</p>
3	Double-tier corridor lockers are acceptable to meet the requirement for total number of corridor lockers.



PART B

EXHIBIT T-1 PGCPS EDUCATIONAL SPECIFICATIONS



**Prince George's County Public Schools  
Educational Specifications  
For Adelphi Area, Drew, Kenmoor, and Walker Mill  
Middle Schools**



**Revised August 2020**

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**Performance Requirements**

**General Planning Principles**

**Design for Learning**

PGCPS considers the entire school grounds as a teaching opportunity, with a central space as the 'outdoor learning area or classroom'. The developer shall include formal and informal learning spaces throughout the campus, including, but not limited to:

- (a) Structured outdoor classroom areas, with appropriate site furniture and physical layout
- (b) Learning gardens
- (c) Indoor and outdoor colloquy and small group spaces for gathering and instruction.
- (d) Educational displays and instructional material in community and public spaces
- (e) Display space for student projects, artwork and awards

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## Performance Requirements

### Equity and Accessibility

#### Accessibility

The entire facility shall be accessible for students, staff, and visitors, including community users. This will be accomplished through judicious use of ramping and elevators with enough internal clearances for circulation, convenient bus/van loading and unloading, and nearby handicapped parking spaces.

All elements of the Americans with Disabilities Act must be complied with, including

- (a) 'wayfinding' and signage,
- (b) appropriate use of textures, lighting, and other sensory cues, and
- (c) universal accessibility of all indoor and outdoor school facilities.

#### Students with Special Needs

The developer shall integrate special education facilities throughout the school to support the concepts of inclusion and the specialized requirements for the students. Special attention will be given to accessibility of all facilities and an integrated learning program.

Facilities shall be designed and constructed to address students needs, including sensory indicators.

Attention shall be paid to lighting, color, ambient acoustics, etc.

#### Restrooms, shower and changing facilities and other private accommodation

PGCPS respects and supports students' desire for both privacy and inclusiveness regarding restrooms, shower and changing facilities, and other private accommodations. In addition to the typical gender-based group restrooms near the gymnasium and cafeteria, the developer shall provide gender neutral bathroom clusters in the classroom wings to include the following:

- (a) Single-occupancy, lockable student toilet rooms (quantity per code)
- (b) Hand-washing facilities adjacent to each toilet room or row of rooms
- (c) Design/placement that allows direct adult supervision of student ingress and egress from the corridor or public area

#### Special Programs

Each middle school has a 'cluster program' serving students with similar disabilities. Specifics for each program are in Appendix A and B of this document.

#### Language Access

Provide dual language signage at Adelphi Area Middle School and at other campuses as required



### **Community Use**

The facility shall be designed and constructed to facilitate community use both during and outside regular school hours. It is assumed that the community will use the building for recreation, meetings and educational functions.

Design elements shall include:

- (a) Zoning and security layering to allow for selective use of space. Layering shall include both passive (gates and fencing) and active (intrusion detection) measures
- (b) Placement of facilities and circulation to provide direct access from outside to community spaces, and to minimize mixing of traffic
- (c) Zoning of MEP systems to allow for selective use of space.

**Student, Staff and Visitor Safety**

The developer shall apply the principles of Crime Prevention Through Environmental Design (CPTED), a multidisciplinary approach to deterring criminal behavior that relies on both passive and active measures. CPTED's main principles include "natural surveillance," which gives legitimate users opportunities in the course of their ordinary activities to keep an eye on the place and the people around them; "natural access control," which directs users to enter through observable areas (single point of entry); and "territorial reinforcement," which encompasses a variety of strategies for signaling that a place is occupied and cared for. One main idea of designing safety is to create several layers of security, or concentric rings of access, starting with the perimeter and then working inward into the school. If there is an intruder, each layer of security is designed to delay him or her until first responders can arrive.

Site Perimeter: School sites shall have perimeter security fencing around the building/campus preventing access to walkways and courtyards when facility is not occupied but allow for public use of exterior athletic facilities.

Fencing and landscape leading up to the entrance. Create a perimeter where everyone must walk up on foot, so that people inside the school can easily see who is coming.

Building Perimeter: Exterior doors shall prevent unauthorized entry by minimizing key locks and hardware on doors which would not be used for the purpose of entry but are installed for emergency egress.

All student spaces shall have interior vision glazing in the form of interior windows, door vision panels, and/or sidelights to allow for passive supervision and monitoring of space, except where noted in the Area Data Sheets, or where required for privacy. Glazing shall be designed to minimize concealed spaces, while limiting the potential for distraction.

Transparency from the classrooms into the hallways will increase supervision and encourage use of the space for learning. However, the height, opacity, and amount of windows must be balanced against distraction to students and staff in classrooms.

**Interior Spaces**

- (a) Locate administrative and teacher preparation with good visual contact of major circulation areas (i.e., corridors, cafeteria, bus drop-off, parking)
- (b) Locate areas likely to have significant community use close to parking and with zoned access

**Egress and Life Safety**

- (a) All doors into classrooms, offices and support areas must have a clear safety glass window with blinds for control of views into the classroom; doors should be able to lock from the inside allowing the ability to shelter in place

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## Performance Requirements

- (b) Provide emergency generator capability, where appropriate, in compliance with MEMA regulations
- (c) Provide standby/back-up generator capability to support essential non-emergency load, including, but not limited to full IT, security and data functionality, kitchen food storage, etc. Standby generator capacity shall be designed to operate for 24 hours at full load
- (d) Provide outside lock box for police and fire departments to be provided. (Knox Box system)

### Types of Building Materials

- (a) Incorporate pitched roofs which inhibit roof entry and are aesthetically pleasing
- (b) Install non-slip floors at point of entry
- (c) Design windows to provide security from intrusion while maximizing daylight as required in the Area Data Sheets, and allowing for student egress in emergency.
- (d) Use durable wall surfaces that are easy to clean so graffiti can be removed

### Uses of Technology: The developer shall provide:

- (a) A PGPS approved Visitor Management system which enables schools to issue visitor badges with names, pictures and reasons for the visit, and time and date printed on them; to monitor volunteer and visitor hours; and instantly check all visitors against registered sexual offender databases in all 50 states.
- (b) Card access and video intercom at the main entrance, cafeteria, and hallway entry-exit points.
- (c) Building-wide all-call designed to be heard throughout the school and on the playfields
- (d) Key systems that track users
- (e) DMP Control Panel and keypads for burglar alarm system control
- (f) DMP wireless panic buttons at the secretary desk and administration offices
- (g) Tri-Tech passive infrared and microwave Doppler radar detection with cover tamper and anti-masking including normally open alarm circuit
- (h) Phones in every instructional and support area
- (i) Genetec VMS monitoring Axis IP cameras installed inside and outside of the building
- (j) Bosch TriTech+ detectors in all classroom and instructional spaces

### Security Camera Requirements

- (a) Access Coverage: Provide CCTV coverage of all entrances/access points to monitor persons entering or exiting space in the following locations. Developer shall design camera locations and install cameras to ensure video capture of the faces of persons entering or exiting space.
  - i. exterior of the main entrance
  - ii. entrance of the main office
  - iii. any data outlets located on the exterior of the building or in any outdoor spaces
  - iv. every exterior entrance to the building

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**Performance Requirements**

- (b) Full Coverage: Provide CCTV coverage of entire area with multiple (minimum 2) view angles of entire space and all entrances/access points. Developer shall design camera locations and install cameras to ensure video capture of the faces of persons entering or exiting space.
- i. main entrance vestibule
  - ii. interior of the main entrance and lobby
  - iii. In all hallways, Place cameras at no less than one (1) camera every 50 (fifty) feet, with cameras on opposite walls facing different directions so as to provide coverage of the hallway in both directions
  - iv. In stairwells
  - v. In gymnasiums, cafeterias, media centers, and all other spaces with a capacity larger than 50 (fifty) people, Provide no less than one (1) camera in each of the four corners of the space
  - vi. In the Digital Media Suite, Provide no less than one (1) camera to provide coverage of the production multi-media studio, one (1) camera to provide coverage of the control room, and one (1) camera to provide coverage of the media lab.
  - vii. courtyard spaces
  - viii. every exterior corner of the building
  - ix. each outdoor classroom or outdoor learning area

## **Sustainability Criteria**

### **Energy and Environmental Design**

The Secretary of the Maryland Department of General Services approved the following guidelines

“The school shall be designed and constructed to meet requirements of the Maryland High Performance Green Building Program with the exception of obtaining an independent, third-party certification as an element of one of the proprietary rating systems described in the Program. The architect or engineer of record shall indicate in the construction documents, the selected high-performance rating system used for design and construction with which, the project is compliant. The LEA may obtain a Letter of Opinion from an Independent Third Party to be submitted as a compliance document.”

### **Energy Dashboard**

The developer shall install an Energy Dashboard system, including all necessary hardware (including sub-metering and data connections) and software required to measure and report on energy consumption in the dashboard module. The dashboard system will be defined prior to construction using best available tools at the time of implementation. A sample system for reference is the Lucid Building Dashboard System

### **Ergonomics Requirement**

A 2007 study compared adjustable furniture in schools to traditional fixed furniture. Students using adjustable furniture were found to have higher grades than those in the control group using traditional school furniture. Characteristics of furniture that promote good posture should be considered as well as adjustable desks and chairs to allow students of varying sizes and body types to improve their comfort levels when sitting for long periods of time.

Note: All furniture and equipment shall meet the GREEN USGBC LEED requirements for new schools and major renovations.

### **Wayfinding and Orientation**

The campus layout shall be designed to provide clear wayfinding and orientation without relying solely on signage. The building massing and orientation shall be designed to focus on key circulation elements.

- (a) Every school shall have a monument sign and a mounted building sign. The monument sign is a free-standing, durable sign that has the name and address of the school with a non-electric, protected message board. It shall be located on the site to be visible by cars on the main road in front of the school. The school name building sign must be located above the main entrance visible from the visitor parking
- (b) From the parking and walking access areas, all visitors must be able to identify a 'single point of entry' to the school.

Immediately upon entry, universal signage and visual cues shall guide visitors to a main lobby area with seating and access to the main office staff. Visitors are required to enter the welcome center before proceeding into the rest of the school.

Registration and family services shall be located near the main office. The other administrative offices and guidance services may be decentralized to increase security and supervision throughout the campus.

**Site Design Requirements**

**Exterior Site Security Requirements**

**Exterior Mass Notification System**

- (a) Exterior Mass Notification systems are not required.

**Landscaping**

- (a) Developer shall comply with the PGCPs Design and Construction Standards and design and construct landscaping to allow good visibility for personal security and to eliminate areas of concealment.
- (b) Planting at Utility Devices that require access, including fire hydrants, backflow preventers, and such like, shall be installed as to allow a minimum of three (3) feet of clear access between the edge of plant when mature and the utility element on all sides, and clear access to roads or pathway. Planting at such elements shall not have thorns be bee attractants, or in any other way pose a hazard to people accessing the Utility Device.



**Project Site Circulation**

**Vehicle & Pedestrian Circulation****Site Circulation**

Developer shall design and construct a circulation system for the Project that is planned to provide safe mobility for all road users, including bicyclists, pedestrians, transit vehicles, deliveries, and motorists. The circulation system must serve multi-modal movement within the site and integrate into the campus via seamless, convenient, and inviting connections to existing transportation facilities. The system shall be context sensitive and meet transportation goals in harmony with campus goals and the natural environment.

On and Off-Site Circulation shall be planned to ensure that facility can be in full compliance with the requirements of COMAR Article 13A.06.07 Student Transportation at all times.

**Site Circulation Functional Requirements**

- (a) School bus loading and unloading areas shall be separated from parent drop-off areas and from staff parking.
- (b) All areas shall be clearly identified. Use signage, curb striping and other pavement markings to direct parent pick-up/drop-off lanes and to prohibit unauthorized vehicles from entering the school bus loops. Signage and bumpers for parking spaces shall be provided by the Developer.
- (c) Non-bus riders who walk and/or bike to school shall be isolated from all types of vehicular traffic and provided adequate pathways to and from the school building. Bike racks shall be provided with visibility from the main office.
- (d) Adequate space is shall be provided to load and unload students who have physical disabilities. For Adelphi Area MS identify a school bus loading and unloading area closest to a door that is accessible for students who have physical disabilities to reduce the distance from the school building to the bus.
- (e) Bus loops shall accommodate both immediate and future needs to allow for expansion of programs and an increase in bus ridership that will result in more buses.

Pedestrian Walkways and Bicycle Paths shall be designed to adequately support pedestrian and bicycle circulation. Width shall be commensurate with the level of pedestrian activity projected within the particular location of such pedestrian.

- (a) All paths of travel shall meet ADA requirements, and at a minimum, shall be wide enough to accommodate two-way pedestrian and wheelchair traffic.
- (b) Design official pathways to minimize creation of ad-hoc paths.

**Fire Access Lanes**

Fire access lanes shall be designed in accordance with the PGCPs code requirements:

[https://library.municode.com/md/prince\\_george's\\_PGCPs/codes/code\\_of\\_ordinances?nodeId=PTIITI17PULOLAPRGECOMA\\_SUBTITLE\\_11FISA\\_DIV4FIPRCO\\_S11-276REACFIAP](https://library.municode.com/md/prince_george's_PGCPs/codes/code_of_ordinances?nodeId=PTIITI17PULOLAPRGECOMA_SUBTITLE_11FISA_DIV4FIPRCO_S11-276REACFIAP)

### **Project Site Roadway Signage**

Developer shall provide all required signage for safe operations and wayfinding for all roadways, parking, pedestrian walkways, and bicycle paths. All pavement markings and roadway signage for circulation roadways shall conform to the requirements of the current edition of the MUTCD.

### **Bicycle Facilities Requirements**

Developer shall design and construct the Facilities to adequately support bicycle circulation and storage at the Facilities

### **Parking and Circulation**

Bus parking shall be designed and constructed in accordance with the following principles

- (a) All buses for Arrival and Dismissal shall be accommodated on site with no off-site stacking. On-site stacking is permitted. All buses are scheduled to arrive at the same time to the school for the dismissal bell time.
- (b) No backing of buses on school grounds as per the county's Transportation Operating Procedures Handbook.
- (c) Bus doors shall open towards the school building.
- (d) Wheelchair loading/unloading zone shall be provided.

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**Performance Requirements**
**Bus and Parking Volumes**

	Avg. number of busses	Parking Spaces	Comments
Adelphi Area MS	20	134	The Regional Special Education program will include wheelchair bound students. A designated loading area is needed for 5 orthopedic buses.
Drew MS	23	134	School should have separate vehicular entrance and parking from Suitland HS.
Hyattsville MS	27	134	A bus loop is ideal rather than a turnaround. If it is not possible to stage all buses in separate area, the parking should be designed in a way to be able to stack additional buses for use during dismissal only.
Kenmoor MS	37	134	It is not recommended to have bus access from 82 <sup>nd</sup> Ave. Transportation analysis suggests reviewing and possibly creating access from Barlowe Road. A Barlowe Road connection would increase walkers. Ideally the bus parking lot should be positioned to serve the new Kenmoor Middle and Kenmoor ECC and, if possible, the old Kenmoor Middle when used as a swing space school.
Southern Area PK-8	44	220	
Walker Mill MS	30	134	

**General Parking Requirements**

The Developer shall design and construct the Facilities to include a parking system that adequately supports the Program, complies with ADA regulations,

**Sports Fields**

The sports fields at Adelphi and Hyattsville shall have an Artificial Turf playing surface. Sports fields at other schools may be natural grass or artificial turf at the developer's discretion.

Where artificial turf is installed:

- (a) Artificial turf shall be FieldTurf (fieldturf.com) or similar system.
- (b) Artificial turf shall be installed in full compliance with manufacturer's specifications and guidelines to provide a uniform and weed free surface that is suitable for planned use in all respects. For sports surfaces, specific models, designs and systems shall be selected to provide optimal playing surface for anticipated sports and other activities. Installation shall include all subgrade preparation and drainage.
- (c) All artificial turf surfaces shall be designed to accommodate active pedestrian and recreation use, even where planned use differs.

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**Performance Requirements**

- (d) All artificial turf areas shall include automatic sprinkler systems as required to allow for all required water usage and maintenance.

**Trash/Recycling Handling Yard, Service Areas and Loading Zones**

Developer shall design and construct Trash/Recycling Handling Yard, Service Areas and Loading Zones in accordance with the following requirements:

- (a) The Trash/Recycling Handling Yard, and Service Areas & Loading Zones Areas shall be placed such that traffic use does not interfere with pedestrian, bicycle or vehicular traffic flow or safety. Particular attention shall be paid to vehicle maneuvering and reversing.
- (b) On street loading shall not be permitted.
- (c) Trash/Recycling Handling, Yards and Service & Loading Zone Areas must be large enough to accommodate delivery trucks and trailers, such that vehicles do not encroach into traffic lanes or emergency access lanes.

**Circulation Requirements**

The Buildings shall be designed to provide universal access and to conform to all ADA requirements.

**Furnishings, Equipment and Technology**

## Educational Technology

The implementation of a voice, data, and video telecommunications system throughout schools is standard across the country. Appropriate and strategically designed and installed technology greatly enhances the teaching and learning of basic skills and positions a school to take advantage of technological developments in the future. All classrooms shall be multi-use/multi-purpose with invisible technological support. There should be a seamless web of technology to support the classroom management between administration, teachers, students, and the home.

Technology requirements in the building:

- (a) Voice: Developer shall provide telephone (IP) and voice communications in every classroom and throughout the entire building as well as to other persons in the school system and external resources including parents and community members.
- (b) Data: Developer shall provide wired broadband and wireless data retrieval capabilities in every classroom and throughout the entire building as well as network capabilities district-wide and to other external databases.
- (c) Video: Developer shall provide video distribution in every classroom and throughout the entire building with interactive video capabilities to support whole and small group instruction, distance learning, and providing access to a wide range of internal and external resources.
- (d) A two-way voice communication system shall be installed that will provide communication between the administrative area and each teaching station or support area, with a telephone in every room. This same system should have the potential to carry an auditory signal automatically controlled and located in the administrative area. Provision should be made for these signals to reach all teaching and support areas including the outdoor activity area. The public address system shall be integrated with the telephone system with a Call Back (CB) feature from the classrooms and support areas to the main office.

### All Teaching Stations

- (a) Each learning studio (classroom, lab, resource room, conference room) will be equipped for multimedia presentation. The choice of equipment will be verified one year prior to school opening and will represent the best available teaching and learning tools at that moment.
- (b) Interactive panels shall be mounted in all classrooms, labs and small group areas. Mobile interactive boards will be used in the media center, gymnasium and in Grades PK-2 teaching stations.
- (c) All playback devices and accessories in classrooms are placed in a lockable A/V cart situated near teacher's desk. All devices are permanently connected to the display panel and the teacher can control the operation by remote control at the desk.

### General Requirements

- (a) Developer shall comply with PGCPs Design and Construction Standards and construct IT specific spaces in each Building including MDF rooms and IDF rooms (collectively, the **"IT Rooms"**) in accordance with the PGCPs specification Division 27

## Performance Requirements

- (b) Within these education specifications, the term Data Drop has the same meaning as in the PGCPs Specification. A data drop comprises 3 active Cat 6A cables with ports at a single faceplate.
- (c) Within these education specifications, the term Data Outlet means a single active Cat 6A cable, port and faceplate. Where multiple outlets are specified at a single location, outlets can be combined into a single faceplate.

### Audiovisual Systems

- (a) Developer shall design and install Audiovisual (AV) systems at the Facilities in accordance with the requirements of Division 27 of the PGCPs Specifications
- (b) Developer shall design and construct the Facilities to accommodate the Indicative AV Equipment Package for each Area Type.
- (c) Developer shall be responsible for any power outlets required in connection with the AV Equipment are in addition to the outlets required for convenience power shown in the Area Data Sheets.
- (d) Developer shall design and install Integrated sound system speakers, including in-wall and in-ceiling speakers. Speaker number, distribution and location shall be determined by Developer and shall be sufficient to provide uniform sound levels within the room with no distortion, feedback or echo
- (e) Developer shall be responsible for the interface between AV control systems and building systems, including the room lighting control systems and Building Management Systems, and including any conduit, wiring and programming required at the lighting control or the Building Management System (herein referred to as "AV/Building System Interface").
- (f) Developer shall procure, and coordinate with the Required Subcontractor to install, commission and test all AV Equipment detailed in the Area Data Sheets and the AV Equipment Packages including any mounting walls or ceilings. AV Equipment shall be installed to provide a complete, functional system.
- (g) Developer shall refer to the Area Data Sheets for the proper design loads of flat surfaces within a room or Area for the proper installation of AV Equipment.
- (h) Any telecom service provided to installed AV Equipment shall be routed to the NEMA box by the rack and terminated to the switch installed in the AV rack. This switch will connect to main network service in the IDFs and MDFs.
- (i) All AV Infrastructure and the associated IT Infrastructure shall meet ADA requirements, including assistive listening systems, visual access, and other accommodations, as required by applicable Law.
- (j) Control panels for lighting, window coverings, AV/Building System Interface controls, and thermostats shall be located as a group in each room.

The Developer shall furnish and install active and passive components of the Educational Technology system. The developer shall furnish and install all surface mounted terminal devices within the base contract. Moveable terminal devices shall be furnished by the developer in accordance with the furnishing and equipment terms of the Project Agreement

Passive infrastructure is defined as:

- (a) Conduit, raceways, or other cable pathways to provide complete indoor and outdoor pathways from the point of connection to Campus IT Infrastructure to the faceplates and



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## Performance Requirements

terminal devices. All pathway infrastructure should be designed to be readily accessible to allow for upgrades to infrastructure over the life of the facilities.

- (b) Wiring and/or fiber from provider to building Main Point of Entry (MPOE)/Building Distribution Frame (BDF), and distribution from MPOE to faceplate/point of use. All wiring shall be tested and certified to meet data ratings.
- (c) Faceplates and data outlets, including mounting locations, backer plates and boxes
- (d) Racks and frames in IT rooms/closets, including cable management and power modules
- (e) All power supply, power conditioning, emergency power and UPS infrastructure to support IT systems as noted in the technical requirements, including any power supply required for Power Over Ethernet (POE), or at terminal points.
- (f) All Mechanical systems required to support IT systems.
- (g) All physical supports, framing, backers, back boxes, bracing, gasketing to support installation of built-in, mounted or moveable terminal devices
- (h) All built-in system components, such as ceiling mounted speakers, room controllers, etc.
- (i) Wireless Access Devices

Active Systems are defined as:

- (a) All electronics required to support data systems, including hubs, routers, switches, servers, etc.
- (b) All electronics required to support AV and educational data, including amplifiers, audio processors, assistive listening systems, room lighting controllers, consoles, matrix switches, etc.

Terminal Devices are defined as:

- (a) Moveable or surface mounted components of the Educational Technology, including smart boards, computer terminals, telephones, etc.

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**Performance Requirements**

**Furnishing, Fittings and Equipment (FF&E)**

Developer provided FF&E includes all built-in and loose furniture (identified in the individual data sheets), fittings, and equipment needed to provide a fully functional project.

**Procurement and Installation of FF&E**

- (a) Developer shall procure, place and install, as applicable, all FF&E in the Areas in consultation with the Owner.
- (b) Developer shall provide all framing, supports, restraints, gasketing and sealants, and all connections to building systems for FF&E. FF&E shall be placed or installed, as applicable, to allow for easy access for maintenance, repair, cleaning and replacement.
- (c) Developer shall keep an inventory and a record of all FF&E placed or installed within each Facility. The FF&E records shall include an item number and location. The FF&E records and related information shall be included in the PMCS.

**Owner Review and Approval of FF&E**

- (a) Developer shall submit proposed FF&E designs, layouts and model numbers to the County for approval prior to procurement.
- (b) FF&E shall be included in all required mock-ups
- (c) In the event the materials, products, millwork or finishes to be provided by Developer offer multiple color palettes, textures or finishes, Developer shall provide the County with a minimum of three (3) options for such color palettes, textures or finishes for County's selection and approval. County approval of colors, textures and finishes shall be at the County's absolute discretion, provided cost is not materially affected.

**Individual Data Sheet Performance Requirements**

## Performance Requirements

### Acoustic Performance Requirements

Design spaces to the acoustic performance specified in the individual data sheets as follows:

Acoustics	
AC1	Performance or Lecture Space: Space suitable for performance or lectures. Interior space acoustically designed to manage reflection and reverberation.
AC2	Classroom, Conference Room or Confidential Space: Space suitable for teaching, confidential conversations and high speech intelligibility.
AC3	Closed office: Space suitable for private conversations.
AC4	Open office and Workroom office:
AC5	Labs and Workshops:
AC6	Not Used
AC7	Public Space: Space suitable for public use, with moderate to high internal noise generation. High acoustic isolation to sound sensitive spaces. Interior space acoustically planned to absorb noise and manage reflection and reverberation.
AC8	Utility Space: High internal noise generation. Space perimeter designed to limit transmission of air or structure borne noise to other spaces.

Name	NC	STC		Max Reverb	
AC1	30	60/45		1.0	
AC2	35	50/35		0.6	
AC3	40	45/30		0.6	
AC4	NA	NA		NA	
AC5	NA	NA limit transmitted from within space to 30dBA		NA	
AC6	30	50/35		0.4	
AC7	40	N/A		0.6	
AC8	NA	NA		NA	

Areas specified in an Area Data Sheet shall conform to:

- (a) The maximum Noise Criteria (NC) requirements specified in the applicable Area Data Sheet. NC ratings shall be as measured within the space following completion, and shall include all noise sources, including transient external noise;
- (b) The minimum designed/laboratory assembly Sound Transmission (STC) ratings of perimeter specified in the applicable Area Data Sheet. The first number in the table above is the designed STC value for the fixed elements (walls, floors, ceilings, including glazing). The second number is the STC value for the complete assembly including doors, openings and penetrations. The as-built field measured STC rating may not be more than 5dBA lower than the specified designed STC rating;
- (c) The maximum reverberation time (RT60) as specified in the Area Data Sheets. The reverberation time shall be the time taken for a given audio signal to fall by 60dB. Sound

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**Performance Requirements**

reflection shall also be managed with appropriate acoustic absorbing material, or non-parallel surfaces regardless of the specified reverberation time to ensure speech intelligibility and elimination of echoes; and

Acoustic separations shall continue above the ceiling plane and shall include any penetrations or joints. For areas with an STC rating of sixty (60) or greater, doors shall be fully gasketed doors with automatic door bottoms.

**Fenestration****Shades**

Developer shall comply with the following requirements as specified in the Area Data Sheets:

<b>Shading</b>	
S1	<b>Window blinds or Roller Shades, 5% Open:</b> Roller shades, manual operated, unless integrated with Daylighting
S1A	<b>Window blinds or Roller Shades, 5% Open and Manually Operated Blackout Shades:</b> (S1) plus manually operated blackout shades. Blackout shades on exterior and interior glazing
S2	<b>Window blinds or Roller Shades, 5% Open and Motorized Blackout Shades:</b> (S1) plus motorized blackout shades, coordinated with AV where appropriate. Blackout shades on exterior and interior glazing
S3	<b>Vertical Louver Blinds</b>

### **Interior Glazing**

#### General requirements

- (a) Interior glazing and frames shall be rated as required by wall assemblies. Glazing shall also be tempered or laminated as required for impact and crash protection and building codes. Wired glass shall not be permitted for fire rating or impact resistance.
- (b) Glazing shall be clear glass and be mounted at vision height to maximize views from interior spaces, except where noted as transom/clerestory height. The top of above-door transoms shall be no higher than the top of exterior windows in the opposite wall. Where possible, glazing shall be installed adjacent to doors to function as a sidelight.
- (c) Interior glazing frames shall match adjacent door and glazing frames in material and appearance. Wood window frames shall not be permitted.

**Interior Finishes**



### **Design Temperature and Humidity**

Summer outside air design temperature and humidity shall be consistent with the most stringent conditions for Washington, DC per ASHRAE Fundamentals Handbook (latest volume: 2017). Winter outside air design temperature shall be 11° DB, with low ambient conditions being designed to 0° DB.

Prince George's County Government requires all entities to keep setpoints at 78° DB in the summer and 68° DB in the winter. The design parameters below take these numbers into consideration along with keeping our facilities comfortable when true outside air temperatures exceed ASHRAE design standards.

Occupied spaces shall be designed to meet the following dry bulb temperature (DB) and relative humidity (RH) requirements:

- Summer: 72°F DB, 50% RH (Occupied setpoint: 76° DB; no higher than 78° DB)
- Winter: 72°F DB, 40% RH (Occupied setpoint: 70° DB; no lower than 68° DB)

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**Performance Requirements**
**Lighting Systems**

Design spaces to lighting performance specified in the individual data sheets as follows:

Lighting	
L1	Typical for classrooms, laboratories, large meeting rooms: 25 FC ambient and at work surfaces and teaching displays with multiple sets. Laboratory spaces shall be 50 FC
L2	Typical for offices & other work spaces: 30 FC ambient and at work surfaces
L3	Typical for conference rooms: 30 FC ambient and at work surfaces and walls
L5	Typical for circulation, stairwells, public areas: 50 FC ambient with focus lighting areas
L6	Typical for service & utility: 40 FC ambient, 70 FC at any service points or equipment
L7	Typical for restrooms, locker rooms: 10 FC ambient

**Lighting Quality**

- (a) Luminance Balance: Illuminance uniformity and balance shall not exceed 3 to 1 for task to immediately surrounding areas and 40 to 1 at any point in any space.
- (b) Color Appearance: The color corrected temperature (CCT) shall be 3,500K. The color rendering index shall be 80 or greater.
- (c) Illumination levels: Illumination levels shall be as specified in the area data sheets. Minimum surface reflectance levels shall be 80% for ceilings, 50% for walls, and 20% for floors.

**Lighting Layers and Controls**

- (a) Lighting Layers: Developer shall provide multiple lighting layers, including general room lighting and functional lighting as appropriate for room uses. Functional layers include focus lighting, downlights, wall illumination, task lighting and such like. Lighting layers shall be controlled through the lighting control system and individual occupant controls as required by room function.

**Wireless Requirements**

Design spaces for wireless as specified in the individual data sheets as follows:

Wireless Devices	
TW1	Assume (1) wireless devices per person (based on maximum occupancy) with a coverage at 5GHz with measured reception no less than -65DBm.
TW2	Assume (2) wireless devices per person (based on maximum occupancy) with a coverage at 5GHz with measured reception no less than -65DBm.
TW3	Assume (3) wireless devices per person with a coverage at 5GHz with measured reception no less than -65DBm.
TW4	Assume (3) wireless devices per person (based on maximum occupancy) with a coverage at 5GHz with measured reception no less than -65DBm.



### Capacity Calculation

Table 1 shows the breakout of classrooms by subject area and the associated State Rated Capacity (SRC). Based on scheduling data, average class sizes vary from 20 in the reading language arts rooms to over 30 in the electives.

The SRC assumes that classrooms will be used 85% of the school day.

The 1200 student middle school is designed around 3 teams per grade - each with approximately 125 students. The core classes include reading language arts, math, social studies, and science. It is common to have double periods of language arts and/or intensive level classes with smaller class sizes. The number of world language, reading, or other electives varies from school to school and will be identified during the development of a site-specific educational specification.

STATE RATED CAPACITY SUMMARY

	# of Rooms	# Students/ Room	Capacity
Academic Classrooms/Skills Labs (Reading Language Arts 10; Math 10; Social Studies 9; Other 6*; Health 2)	37	25	925
Gym/PE (or Dance)	3	25	75
Performing Art (Band/ Chorus/ Orchestra/Drama)	3	25-50	75
Science Lab	9	25	225
Special Education/ Self-contained Classrooms	3-4	8-10	30
STEAM Lab	1	25	25
Visual Arts	2	25	50
Total	58		1405
Total at 85% (SRC)			1194

\* World language, additional language arts or math, ESL, AVID

### Space Requirements Square Footage Tables

#### Space Requirements Summary

Base Required Space	Square Footage
Academic/Science	55,660
Administrative/ Guidance/ Health	6,475
Maintenance & Custodial Services	1,350
Media Center	5,360
PE/Indoor	13,250
Performing Arts	9,495
Special Education (See Appendix A)*	4,640
Student Dining & Food Service	10,120
Visual Arts	3,100
Building Support Areas [corridors, bathrooms, storage, stairwells, elevators] Includes 1260 (630 double-tier) corridor lockers	37,944
Total	148,154
Community Use (Wellness Clinic) Appendix B	1,600
+Construction factor	160,805

\* Adelphi Area MS special education space needs = 5,400 SF; Total SF of Adelphi Area MS = 161,734 SF

**Academic Core Space Requirements**

Space	Design Guideline			Comments
	Qty.	Sq.Ft.	Total	
Academic Classroom/ Studios	37	900	33,300	Includes ISS, AVID
Collaborative Learning Areas (informal)		varies	3,060	Independent and informal learning areas; 1 per grade level
Outdoor Learning Areas (patios, porches, green roofs)		varies	0	In addition to outdoor classroom; 1 per grade level
Science Classroom/ Lab	9	1,200	10,800	
Science Prep	3	300	900	1 per grade level
Small Group Instruction/ Resource Rooms	6	400	2,400	Resource areas
Special Needs Classroom/ Studios			0	See Appendix A
Speech/OT/PT Room	1	300	300	
STEAM Lab	1	2,200	2,200	
Student Services Offices	6	150	900	
Teacher Support Rooms	3	400	1,200	1 per grade level
Technology Storage	3	200	600	1 per floor/ learning community
Total			55,660	

**Administrative Space Requirements**

Space	Design Guideline			Comments
	Qty.	Sq.Ft.	Total	
Lobby (Main)	1			Part of gross SF
Reception/ Waiting Area	1	600	600	Includes coat closet
Principal's Office	1	230	230	Includes toilet
Administrative Assistant's Office	1	120	120	
Administrative Workroom	1	200	200	
Business Manager's Office	1	150	150	
Conference Room	1	300	300	Adj. to principal
Mail Room	1	150	150	
Security Center/ Office Suite	1	200	200	
Staff Break Room	1	800	800	Includes bathrooms
Supply (General)/ Administrative Storage	1	250	250	
Text Book Room	1	800	800	
Lactation Room	1	80	80	
Toilet (Adult)	1	50	50	
Total			3,930	

**Guidance/Student Services Space Requirements**

Space	Design Guideline			Comments
	Qty.	Sq.Ft.	Total	
Guidance/ Student Services Suite				
Reception/ Welcome Center	1	300	300	
Conference/Testing Rooms	1	250	250	
Guidance Offices	6	120	720	
Parent Resource Center	1	300	300	
Records Storage	1	150	150	May be in admin. Suite
Toilet (Adult)	1	50	50	
Total			1,770	

**Health Suite Space Requirements**

Space	Design Guideline			Comments
	Qty.	Sq.Ft.	Total	
Health Suite				
Reception/ Waiting Area	1	200	200	
Cot Rooms	2	100	200	
Exam Room/ Treatment Area	1	125	125	
Office	1	100	100	
Storage	1	50	50	
Toilet	2	50	100	
Total			775	

**Maintenance & Custodial Space Requirements**

Space	Design Guideline			Comments
	Qty.	Sq.Ft.	Total	
Receiving and storage	1	600	600	
Custodial Office	1	150	150	
Custodial Storage	1	300	300	
Toilet/Shower/Lockers	2	150	300	
Total			1,350	



**Media Center Space Requirements**

Space	Design Guideline			Comments
	Qty.	Sq. Ft.	Total	
Media Commons	1	3,300	3,300	
Equipment Storage	1	150	150	
Head End Room	1	250	250	
Digital Media Suite			1360	
Production Multi-media Studio	1	360		
Control Room	1	100		
Storage	1	100		
Media Lab	1	800		
Toilet (Staff)	1	50	50	
Workroom/Office	1	250	250	
<b>Total</b>			<b>5,360</b>	

**Performing Arts Space Requirements**

Space	Design Guideline			Comments
	Qty.	Sq.Ft.	Total	
General Music				
Band Room	1	1,800	1,800	
Choral/ Keyboard/ Guitar	1	1,400	1,400	
Choral Practice Rooms	2	100	200	For SmartMusic or similar tool
Instrument Storage	1	350	350	
Instrumental Practice Rooms	2	80	160	For SmartMusic or similar tool
Stage	1	1,200	1,200	
Stage Sound and Light Control Room	1	75	75	
Stage Storage	1	170	170	
Orchestra or Drama Room	1	1,900	2,240	Kenmore – Orchestra
Storage	1	180		Drew – Drama
Practice room	2	160		Adelphi/Walker Mill - Generic
PE or Dance Lab	1	1,900	1,900	
Bathrooms w/ changing area	2		0	Take from total allowance
<b>Total</b>			<b>9,495</b>	

**Physical Education Space Requirements**

Space	Design Guideline			Comments
	Qty.	Sq.Ft.	Total	
Lobby	1	1,000	1,000	in addition to regular circulation
Gymnasium	1	5,800	8,200	Jr High Court size
Bleacher Seating (600)		2,400		Seating is ½ of Student Capacity
Wellness Lab	1	900	900	Between health classrooms
Laundry	1	100	100	
Offices (Department/ Athletic)	3	150	450	Includes toilet and shower
P.E. Locker Rooms/Showers	2	850	1,700	Male and female
Storage	3	varies	900	
Partner Office (optional)	0	200	0	
<b>Total</b>			<b>13,250</b>	

**Site Requirements/Athletics**

Outdoor Educational and Support Spaces	Square Footage
Basketball Courts (4) Optional	
Bus parking/circulation (may be used as play space during the school day)	
Exterior Grounds Equipment Storage [secure – w/ roll-up door]	400 SF
Fields for football, soccer and lacrosse (if feasible), Baseball, Softball, Practice	
Gardens and outdoor learning spaces	
Parking	

**Student Dining & Food Service Space Requirements**

Space	Design Guideline			Comments
	Qty.	Sq.Ft.	Total	
Cafeteria/Commons	1	6,000	6,000	Cafeteria Seating is 1/3 of Student Capacity; Auditorium Seating is ½ of Student Capacity
Chair Storage	1	600	600	
Kitchen	1	2,000	2,000	
Serving Area	1	1,000	1,000	
Office	1	120	120	
Receiving/ Maintenance Closet	1	200	200	
Toilet/Shower/ Locker area	2	100	200	
<b>Total</b>			<b>10,120</b>	

Visual Art Space Requirements

Space	Design Guideline			Comments
	Qty.	Sq.Ft.		Qty.
Multi-Purpose Art Studios	2	1,300	2,600	
Kiln Room	1	100	100	
Storage	2	200	400	
Total			3,100	

The following pages detail the required elements for each space with regards to room environment, built-in or loose furniture and equipment, and special finishes or utilities.

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**Academic Core Space**

**ACADEMIC CLASSROOMS/LEARNING STUDIOS****QUANTITY:**

37 classrooms (Includes 1 Health Lab with sink)

**CAPACITY:**

15-32 students

1-2 staff members

Guest speakers and volunteers

**SIZE:**

900 SF

**SPATIAL RELATIONSHIPS:**

Near science lab

Near teacher support spaces

Within the learning communities near informal learning spaces

**GOAL:**

To create a learning environment that is comfortable, well lit, and acoustically designed for small and large group learning.

To provide a learning environment that frees teachers and students to customize the classroom daily – different seating set-ups, wireless mobile computing, and various teaching/presentation options.

To provide flexible space and layout to accommodate any of the core academic disciplines, such as English, mathematics, and social studies

To help students become critical thinkers, problem solvers, and lifelong learners

**PROGRAM ACTIVITIES:**

Computer simulations

Computerized instruction

Data collection and analysis

Hands-on activities

Large and small group instruction

Oral presentations

Team teaching

**SPACE REQUIREMENTS**

Construction:	
Min Ceiling Height:	10'-0"
Acoustics:	AC2 - High Performance: Conference Room or Confidential Space
Window shading:	S1A -Blinds/Shades and Manually Operated Blackout Shades
Power & Lighting	
User Convenience (excludes outlets for AV, security, etc.):	<ul style="list-style-type: none"> <li>One (1) outlet for control of the classroom projector/interactive board</li> <li>One (1) outlet for telephone at the teacher station</li> </ul>

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**Academic Core Space**

	<ul style="list-style-type: none"> <li>• One (1) outlet for the intercom system</li> <li>• Two (2) outlets at the teacher station for a teacher's computing device and accessory</li> <li>• Two (2) outlets for wireless network</li> <li>• Four (4) outlets for student use</li> <li>• Additional twenty (20) ampere circuit, or additional as required, to support computers, printer, and typical classroom equipment shall be in each classroom. Electrical outlets shall be placed on teaching walls at min six feet (6') on center and on other walls at twelve feet (12').</li> </ul>
Lighting level	L1 - 50 FC at work surfaces and teaching displays with multiple sets
Telecommunications	
Outlet (excludes outlets for AV, security, etc.):	<ul style="list-style-type: none"> <li>• One (1) data outlet for control of the classroom projector/interactive board</li> <li>• One (1) data outlet for telephone at the teacher station</li> <li>• One (1) data outlet for the intercom system</li> <li>• Two (2) data outlets, and one (1) voice outlet at the teacher station for a teacher's computing device and accessory</li> <li>• Two (2) data outlets for wireless network</li> <li>• One (1) data outlet for the PoE clock</li> </ul>
Sound Reinforcement	Every classroom will be wired for teacher audio enhancement and the audio system should be integrated into the intercom system. The mixed sound will be amplified and sent through the speakers (preferably ceiling mounted).
Wireless Requirements:	TW2 - 2 wireless devices per occupant (based on maximum occupancy)

**ADDITIONAL REQUIREMENTS**

Classrooms shall be grouped in clusters to allow for team teaching.

Provide doors between classrooms

Provide operable partition between a pair of classrooms at each grade level

Uniform lighting with multi-level switching

Window treatment to darken room for AV presentations

Windows (some operable) to provide natural light and egress

Include one sink and 6' of base cabinet in one classroom to function as a Health Education Lab

**BUILT-IN FIXTURES:**

2 Dry, white eraser-board (4' x 20' on two different walls) on track; all eraser-boards shall be installed with a marker tray, map rails with tack strip above

Clock (on side walls instead of rear walls)

Tack board (4' x 20') minimum; tack strips on all walls

**LOOSE FURNISHINGS:**

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**Academic Core Space**

1 work table  
2 file cabinets w/lock, 4-drawer  
28 student chairs  
28 student desks (trapezoid or square)  
Adjustable height bookshelves (24 LF)  
Teacher wardrobe (lockable) with coat rod; tall cabinet w/ shelving (may be one unit)  
Teacher's desk/workstation and chair  
Teachers' Mobile Cart for Technology

**AUDIO VISUAL EQUIPMENT**

See Educational Technology Requirements

**COLLABORATIVE LEARNING AREAS****QUANTITY:**

Minimum One (1) per grade level

**CAPACITY:**

3 to 60 persons

**SIZE:**

Total Square Footage 3,060 that can divided per grade level or designed as one large space incorporated into corridors or lobbies

**SPATIAL RELATIONSHIPS:**

Collaboration areas may be as small as an alcove outside of a classroom in the corridor or a place for large group activities to include such amenities as tiered seating, platform stage, large screens, etc. The space should be intentional and have appropriate fixtures and furniture. No loose furniture is allowed in the right-of-way.

**GOALS:**

To provide a space for small group instruction, students working independently or in small groups  
To provide informal learning space for pull-out instruction

**PROGRAM ACTIVITIES:**

Collaborative Learning Areas are intended to provide a space for small group instruction, students working independently or in small groups, and to provide informal learning space for pull-out instruction

**SPACE REQUIREMENTS**

Construction:	
Min Ceiling Height:	9'-0"
Acoustics:	AC2 - High Performance: Conference Room or Confidential Space
Window shading:	S1A -Blinds/Shades and Manually Operated Blackout Shades
Power & Lighting	
User Convenience (excludes outlets for AV, security, etc.):	Duplex on perimeter walls at twelve feet (12'), recessed floor quad at 1 per 100 ASF.
Power density:	PW2 - 3W/ASF
Lighting level	L3 - 35 FC at work surfaces and walls
Lighting control	LC8 - Public Space
Telecommunications	
Outlet (excludes outlets for AV, security, etc.):	Standard Data drops
Wireless Requirements:	TW2 - 2 wireless devices per occupant (based on maximum occupancy)

**ADDITIONAL REQUIREMENTS**

Uniform lighting with multi-level switching



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**Academic Core Space**

Portions of lobbies and circulation shall be designed to foster interaction and informal scholarly gatherings. Spaces in the design shall provide a range of sizes to accommodate varying needs, from small gatherings and discussions to larger structured sessions. Spaces shall be distributed and adjacent to other academic uses.

The spaces may be normally open to corridors or circulation areas.

**BUILT-IN FIXTURES:**

- Built-in seating
- Dry, white eraser-board
- Locked storage
- Projection Screen
- Tack board

**LOOSE FURNISHINGS:**

**AUDIO VISUAL EQUIPMENT**

See Educational Technology Requirements

**OUTDOOR LEARNING AREAS (not including outdoor classroom)**

**QUANTITY:**

Varies

**CAPACITY:**

3 to 60 persons

**SIZE:**

Total Square Footage 1,000 that can divided or designed as one large space

**SPATIAL RELATIONSHIPS:**

Outdoor learning areas may be as small as a patio outside of a classroom or a covered area with tables or a place for large group activities to include such amenities as tiered seating, platform stage, etc. The space should be intentional and have appropriate fixtures and furniture.

**GOALS:**

To provide a space for small group instruction, students working independently or in small groups  
To provide informal learning space for pull-out instruction

**PROGRAM ACTIVITIES:**

Oral presentations  
Small group activities  
Students working on projects  
Tutoring

**PROGRAM ACTIVITIES:**

N/A

**SPACE REQUIREMENTS**

N/A

**ADDITIONAL REQUIREMENTS**

The space shall be intentional and have appropriate fixtures and furniture.  
Spaces shall have clear spatial boundaries such as hedges or fences.  
Spaces shall have access to power and wireless data, with a minimum of one lockable exterior duplex receptacle at the instructor location and TW-2 level of wireless service.

**BUILT-IN FIXTURES:**

None

**LOOSE FURNISHINGS:**

1 park bench  
1 picnic table

**AUDIO VISUAL EQUIPMENT**

None

**OUTDOOR ENVIRONMENTAL CLASSROOM****QUANTITY:**

1

**CAPACITY:**15-32 students1-2 staff members

Guest speakers and volunteers

**SIZE:**

1,000 SF

**SPATIAL RELATIONSHIPS:**

Connection to the Overall School Site: The outdoor classroom learning area, shall be clearly defined, but with a possibility for expansion of activities beyond into garden plots nearby. The outdoor classroom shall be in a controlled and secure location but not isolated from view. The exit from the school shall be accessible by all classes, e.g., not through a doorway in a classroom. The location should capitalize on any site features. For instance, create a clear connection to an on-site stream.

**GOALS:**

To create an exterior learning environment that is comfortable and designed for small and large group learning.

To provide a learning environment that frees teachers and students to customize the classroom daily.

To help students become critical thinkers, problem solvers, and lifelong learners

**PROGRAM ACTIVITIES:**

Outdoor teaching

**PROGRAM ACTIVITIES:**

N/A

**SPACE REQUIREMENTS**

N/A

**ADDITIONAL REQUIREMENTS**

Accessibility: The pathway connecting the school, outdoor classroom, and any specifically programmed teaching areas associated with the classroom shall be clearly delineated and constructed of a solid material. All outdoor areas should be fully accessible to students of different mobility. For instance, at least some garden beds should be raised 18"-24" to be easily access from a wheelchair (if garden beds are built). Refer to the current ADA standards for minimum design requirements in this capacity. Apply these standards to any student garden areas, or other programmatic spaces associated with the outdoor classroom, as well.

Layout: Provide a station for the teacher to work from where he/she can see each student. Seating can be either fixed or flexible, depending on the site, but should accommodate up to 35 students.

Orientation of the teacher and students should be along a north/south axis, so neither is looking into the sun during instruction times.

Maintenance: The outdoor classroom should be designed to be low maintenance and Developer shall provide a specific maintenance plan for each site's outdoor classroom. The school maintenance supervisor should be made aware of any special aspects and confident in his/her ability to care for the space.

Materials: The outdoor classroom should be built with natural materials like wood or stone. Limit the use of concrete and even then, only in high traffic areas, for example the walkway connecting the school and the outdoor classroom. Consider the albedo (reflectivity) of materials used, since glare can hinder the students' ability to focus. Permeable paving of any material is encouraged, including pervious concrete.

Plants: When choosing plant material, preference should be given to native shade trees and low maintenance shrubs. Chose plant species based on how the mature size would fit into the landscape. Also, plants should be chosen with all 4 seasons in mind. When choosing plant material for the school site, use a variety of species as appropriate.

**Required Site Elements:**

- Duplex Electrical outlet at the 'teachers station'
- Wi-Fi access
- Exterior water hose hook-up
- Point of access for larger vehicles and supplies
- Built-in seating for one class (35 students)
- Shade, either by a shade structure or by trees
- Tool shed for manual garden tools (shovels, hoes, rakes- provided by PGCPs)

**Potential Site Elements:**

- Composting area
- Greenhouse (Kenmoor MS has a greenhouse that must be relocated to the new site)
- Interactive water and energy usage learning station
- Managed meadow
- Pollinator garden, with space and paths for students to get in and investigate
- Rain garden
- School arboretum
- Vegetable/community garden plots/raised beds

Solar aspect/shade: The teaching area must be shaded, but the nearby areas for potential expansion with garden plots should receive 6-8 hours of sunshine a day

Spaces shall have access to power and wireless data, with a minimum of one lockable exterior duplex receptacle at the instructor location and TW-2 level of wireless service.

**BUILT-IN FIXTURES:**

None

**LOOSE FURNISHINGS:**

- 1 park bench
- 1 picnic table

**AUDIO VISUAL EQUIPMENT**

None

**SCIENCE CLASSROOM / LAB****QUANTITY:**

9 lab/classrooms

**CAPACITY:**

24 students

1-2 staff members

Guest speakers and volunteers

**SIZE:**

1,200 SF

**SPATIAL RELATIONSHIPS:**

Accessible to students from Learning community

Adjacent to Science Prep/Storage

Lab stations should not cause students to have backs to the room

**GOAL:**

Help students become critical thinkers, problem solvers, and lifelong learners

Lab will be combination classroom/lab

Provide flexible space and layout to support delivery of entire science curriculum

Teach students to become reasonable caretakers of their bodies and environment

**PROGRAM ACTIVITIES:**

Computerized instruction &amp; simulations

Data collection and analysis

Hands-on activities

Large and small group instruction

Oral presentations (teacher, student, group)

Team teaching

**SPACE REQUIREMENTS**

Construction:	
Min Ceiling Height:	10'-0"
Acoustics:	AC2 - High Performance: Conference Room or Confidential Space
Window shading:	S1A -Blinds/Shades and Manually Operated Blackout Shades
Plumbing:	
Fixture Type:	Lab sinks along wet wall, Access to eyewash / safety shower (EWSS) as per Technical Requirements Section 3.8.10.2.3
Piped services:	Industrial hot & cold water, potable cold water
Special drains:	Acid waste drain at lab sinks, floor drains
Power & Lighting	
User Convenience (excludes outlets for AV, security, etc.):	<ul style="list-style-type: none"> <li>One (1) outlet for control of the classroom projector/interactive board</li> <li>One (1) outlet for telephone at the teacher station</li> </ul>

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**Academic Core Space**

	<ul style="list-style-type: none"> <li>One (1) outlet for the intercom system</li> <li>Two (2) outlets at the teacher station for a teacher's computing device and accessory</li> <li>Two (2) outlets for wireless network</li> <li>Four (4) outlets for student use</li> <li>Additional twenty (20) ampere circuit, or additional as required, to support computers, printer, and typical classroom equipment shall be in each classroom. Electrical outlets shall be placed on teaching walls at min six feet (6') on center and on other walls at twelve feet (12').</li> </ul>
Lighting level	L1 - 50 FC at work surfaces and teaching displays with multiple sets
Telecommunications	
Outlet (excludes outlets for AV, security, etc.):	<ul style="list-style-type: none"> <li>One (1) data outlet for control of the classroom projector/interactive board</li> <li>One (1) data outlet for telephone at the teacher station</li> <li>One (1) data outlet for the intercom system</li> <li>Two (2) data outlets, and one (1) voice outlet at the teacher station for a teacher's computing device and accessory</li> <li>Two (2) data outlets for wireless network</li> <li>One (1) data outlet for the PoE clock</li> </ul>
Sound Reinforcement	Every classroom will be wired for teacher audio enhancement and the audio system should be integrated into the intercom system. The mixed sound will be amplified and sent through the speakers (preferably ceiling mounted).
Wireless Requirements:	TW2 - 2 wireless devices per occupant (based on maximum occupancy)
SPECIALTIES	
Special features:	<p>30' Built in base cabinets with epoxy counter top and lockable cupboard/drawer units at perimeter</p> <p>6 Each Epoxy lab sinks in perimeter cabinetry, paper towel holder, soap dispenser. Sinks to have central water shut off at instructor station.</p> <p>Sink pedestal at instructor workstation, with epoxy sink and top and base cabinets</p>

**ADDITIONAL REQUIREMENTS**

Consider future technology needs; build-in flexibility to retain options

Rooms designed for ease of movement and accessibility; Students need to be able to move around the labs with chemicals, etc., in a safe way.

Window treatment to darken room for AV presentations

Windows to provide natural light and egress

Flooring:

Moisture and stain-resistant finishes

**Counter/Table Tops:**

Heat and chemical-resistant (to acids, etc.)

Acid waste is required at all sinks and floor drains to the point of connection to main drain system.

Neutralization tanks are not required, unless required by authority having jurisdiction or utility provider.

**BUILT-IN FIXTURES:**

2 Dry, white eraser-board (4' x 20' on two different walls) on track; all eraser-boards shall be installed with a marker tray, map rails with tack strip above

Clock (on side walls instead of rear walls)

Projection screen, as needed

Tack board (4' x 20') minimum; tack strips on all walls

Towel/Soap Dispenser

**LOOSE FURNISHINGS:**

12, 2-person adjustable height science tables

2 tall cabinets for equipment storage -one with glass front (both lockable)

24 student chairs

Adjustable height stool for teacher

Digital science instrumentation

Extra tables and chairs for flexibility

Fire blanket

Fire extinguisher (ABC type), first aid kit

Goggle storage and sanitizer cabinet

Mobile demonstration table with utilities

Teachers' Mobile Cart for Technology

**AUDIO VISUAL EQUIPMENT**

See Educational Technology Requirements



**SCIENCE PREP ROOM****QUANTITY:**

3 rooms

**CAPACITY:**

1 or 2 staff members

Student assistants

**SIZE:**

300 SF

**SPATIAL RELATIONSHIPS:**

One per grade level community

Central to science labs

**GOAL:**

To allow for lab preparation

**PROGRAM ACTIVITIES:**

General lab preparation

Store equipment

Set up experiments

**SPACE REQUIREMENTS**

Construction:	
Min Ceiling Height:	9'-0"
Acoustics:	AC5 - Labs and Workshops
Window shading:	No preference
Plumbing:	
Fixture Type:	Deep lab sinks, Eye Wash/Safety Shower
Piped services:	Industrial hot & cold water, potable cold water
Special drains:	Acid waste drain at lab sinks, floor drains
Power & Lighting	
User Convenience (excludes outlets for AV, security, etc.):	Duplex at counters at max 2' on center, on walls at twelve feet (12')
Lighting level	L4 - 25/75 FC bi-level ambient and at all work locations
Telecommunications	
Outlet (excludes outlets for AV, security, etc.):	One data drop on perimeter walls at max 12' on center.
Wireless Requirements:	TW2 - 2 wireless devices per occupant (based on maximum occupancy)
SPECIALTIES	
Special features:	Built in casework at perimeter of room with lockable cupboard/drawer base cabinets and epoxy counter tops. Provide two knee space workstations with adjustable height countertops. 1 Each 4' ductless chemical fume hoods

	2 Each epoxy lab sinks, counter mounted, paper towel holder, soap dispenser One (1) 24" single door autoclave, one high temperature oven, one glassware washer and dryer, sized to accommodate lab area served (autoclave, oven and washer/drier only required in one room per school) Pure Water/Distilling station capable of generating 2 gallons per hour at 1 MegaOhm
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**ADDITIONAL REQUIREMENTS****Flooring:**

Moisture and stain-resistant finishes

**Counter/Table Tops:**

Heat and chemical-resistant (to acids, etc.)

Acid waste is required at all sinks and floor drains to the point of connection to main drain system.

Neutralization tanks are not required, unless required by authority having jurisdiction or utility provider.

**BUILT-IN FIXTURES:**

See Space Requirements

**LOOSE FURNISHINGS:**

2 file cabinets on mobile pedestals

2 workstations

1 Chemical (acid) storage cabinets (lockable)

1 Flammable cabinet - one per school on upper floor – vented to the outside

Ductless fume hood – one per school

Drying rack (glassware)

Stools

**AUDIO VISUAL EQUIPMENT**

See Educational Technology Requirements

**SMALL GROUP INSTRUCTION/ RESOURCE ROOMS****QUANTITY:**

6

**CAPACITY:**

Up to 15 students

1 staff member

**SIZE:**

400-499 SF

**SPATIAL RELATIONSHIPS:**

Two per learning community

**GOAL:**

To provide flexible space to accommodate any of the special small group instruction needs

**PROGRAM ACTIVITIES:**

Computerized instruction

Hands-on activities

Small group instruction

Team teaching

**SPACE REQUIREMENTS**

Construction:	
Min Ceiling Height:	10'-0"
Acoustics:	AC2 - High Performance: Conference Room or Confidential Space
Window shading:	S1A -Blinds/Shades and Manually Operated Blackout Shades
Power & Lighting	
User Convenience (excludes outlets for AV, security, etc.):	<ul style="list-style-type: none"> <li>One (1) outlet for control of the classroom projector/interactive board</li> <li>One (1) outlet for telephone at the teacher station</li> <li>One (1) outlet for the intercom system</li> <li>Two (2) outlets at the teacher station for a teacher's computing device and accessory</li> <li>Two (2) outlets for wireless network</li> <li>Four (4) outlets for student use</li> <li>Additional twenty (20) ampere circuit, or additional as required, to support computers, printer, and typical classroom equipment shall be in each classroom. Electrical outlets shall be placed on perimeter walls at twelve feet (12').</li> </ul>
Lighting level	L1 - 50 FC at work surfaces and teaching displays with multiple sets

Telecommunications	
Outlet (excludes outlets for AV, security, etc.):	<ul style="list-style-type: none"> <li>• One (1) data outlet for control of the classroom projector/interactive board</li> <li>• One (1) data outlet for telephone at the teacher station</li> <li>• One (1) data outlet for the intercom system</li> <li>• Two (2) data outlets, and one (1) voice outlet at the teacher station for a teacher's computing device and accessory</li> <li>• Two (2) data outlets for wireless network</li> <li>• One (1) data outlet for the PoE clock</li> </ul>
Wireless Requirements:	TW2 - 2 wireless devices per occupant (based on maximum occupancy)
Sound Reinforcement	Every classroom will be wired for teacher audio enhancement and the audio system should be integrated into the intercom system. The mixed sound will be amplified and sent through the speakers (preferably ceiling mounted).

**ADDITIONAL REQUIREMENTS**

Comfortable rooms with pleasant décor  
 Window treatment to darken room for AV presentation  
 Windows to provide natural light and egress

**BUILT-IN FIXTURES:**

1 Dry, white eraser-board (4' x 16') on track; eraser-board shall be installed with a marker tray, map rails with tack strip above  
 Clock (on side walls instead of rear walls)  
 Tack board (4' x 8') minimum; tack strips on all walls

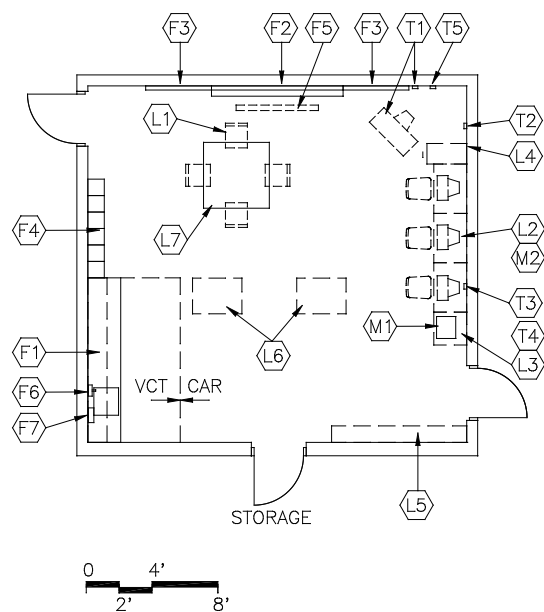
**LOOSE FURNISHINGS:**

1 file cabinet w/lock, 4-drawer  
 3 computer workstations  
 10 student desks and chairs  
 Adjustable height bookshelves (12 LF)  
 Lockable teacher wardrobe with coat rod; tall cabinet w/ shelving (may be one unit)  
 Teacher's desk/workstation and chair

**AUDIO VISUAL EQUIPMENT**

See Educational Technology Requirements

SPEECH/ OCCUPATIONAL/ PHYSICAL THERAPY



QUANTITY:

1

CAPACITY:

Up to 3 students  
Up to 2 staff

SIZE:

300 SF

SPATIAL RELATIONSHIPS:

Near Special Needs Classrooms

GOAL:

To provide private functional mobility training for students

PROGRAM ACTIVITIES:

Assistive technology evaluation  
Exercise  
Occupational and Physical Therapy

SPACE REQUIREMENTS

Construction:	
Min Ceiling Height:	9'-0"
Acoustics:	AC3- Office
Window shading:	S1 - Roller Shades, 5% Open
Plumbing:	

Fixture Type:	Counter mounted sink
Power & Lighting	
User Convenience (excludes outlets for AV, security, etc.):	<ul style="list-style-type: none"> <li>One (1) outlet for control of the classroom projector/interactive board</li> <li>One (1) outlet for telephone at the teacher station</li> <li>One (1) outlet for the intercom system</li> <li>Two (2) outlets at the teacher station for a teacher's computing device and accessory</li> <li>Two (2) outlets for wireless network</li> <li>Four (4) outlets for student use</li> <li>Additional twenty (20) ampere circuit, or additional as required, to support computers, printer, and typical classroom equipment shall be in each classroom. Electrical outlets shall be placed on perimeter walls at twelve feet (12').</li> </ul>
Lighting level	L3 - 35 FC at work surfaces and walls
Telecommunications	
Outlet (excludes outlets for AV, security, etc.):	<ul style="list-style-type: none"> <li>One (1) data outlet for control of the classroom projector/interactive board</li> <li>One (1) data outlet for telephone at the teacher station</li> <li>One (1) data outlet for the intercom system</li> <li>Two (2) data outlets, and one (1) voice outlet at the teacher station for a teacher's computing device and accessory</li> <li>Two (2) data outlets for wireless network</li> <li>One (1) data outlet for the PoE clock</li> </ul>
Wireless Requirements:	TW1 - 1 wireless device per occupant (based on maximum occupancy)
Sound Reinforcement	Every classroom will be wired for teacher audio enhancement and the audio system should be integrated into the intercom system. The mixed sound will be amplified and sent through the speakers (preferably ceiling mounted).

**ADDITIONAL REQUIREMENTS**

Loading Capacity: the floor shall have a loading capacity of 100 psf; permanent walls shall have the capacity to support 100 pounds point load and 200 pounds over any four (4) feet; ceiling or structure above shall have unistrut or similar grid framing at maximum 4 feet on center, with the ability to support 300 pounds at any point and 300 pounds in any four (4) feet by four (4) feet bay. Ceiling grid shall be laterally braced to the building structure for the full design load, and capable of providing lateral bracing to imposed load.

Adequate ventilation

Auditory privacy

Environmental sound control:

Wall minimum: STC 45

Ceiling minimum: CAC 35

Reinforce structure to support equipment such as a trapeze  
Wheelchair accessibility

**BUILT-IN FIXTURES:**

- F1 Casework: Wall/base cabinets for sink
- F2 Marker board (8 LF)
- F3 Tack board (8 LF)
- F5 Manual projection screen
- F6 Soap dispenser
- F7 Towel dispenser

**LOOSE FURNISHINGS:**

- L1 4 chairs
- L2 1 computer workstation furniture
- L4 4-drawer file cabinet
- L5 Bookshelves
- L6 OT/PT Therapy equipment (Provided by PGCPs Staff)
- L7 Work table

**AUDIO VISUAL EQUIPMENT**

See Educational Technology Requirements

**STEAM (Science, Technology, Engineering, Art, Math) LAB****QUANTITY:**

1

**CAPACITY:**28 students2 teachers**SIZE:**

2,200 SF (includes finishing room, tool and supply storage and material storage alcove adjacent to the fabrication area of the main laboratory)

**SPATIAL RELATIONSHIPS:**

Three (3) areas: 1) the Seated Instructional area, 2) the Fabrication area, and 3) the Modular Instructional Units area.

**GOALS:**

Flexible space and layout to accommodate student learning through active interaction with technology systems

**PROGRAM ACTIVITIES:**

Computer simulations and instruction  
 Data collection and analysis  
 Hands-on activities  
 Large and small group instruction  
 Team teaching

**SPACE REQUIREMENTS**

Construction:	
Min Ceiling Height:	10'-0"
Acoustics:	AC5 - Labs and Workshops
Window shading:	S1A -Blinds/Shades and Manually Operated Blackout Shades
Power & Lighting	
User Convenience (excludes outlets for AV, security, etc.):	See Additional Requirements
Lighting level	L4 - 25/75 FC bi-level ambient and at all work locations
Telecommunications	
Outlet (excludes outlets for AV, security, etc.):	<ul style="list-style-type: none"> <li>One (1) data outlet for control of the classroom projector/interactive board</li> <li>One (1) data outlet for telephone at the teacher station</li> <li>One (1) data outlet for the intercom system</li> <li>Two (2) data outlets, and one (1) voice outlet at the teacher station for a teacher's computing device and accessory</li> <li>Two (2) data outlets for wireless network</li> </ul> One (1) data outlet for the PoE clock



Wireless Requirements:	TW2 - 2 wireless devices per occupant (based on maximum occupancy)
SPECIALTIES	
Special features:	See Additional Requirements in Education Specifications

**ADDITIONAL REQUIREMENTS**

The STEAM Lab contains multiple spaces and rooms:

Main teaching space containing three distinct learning areas:

the Seated Instructional area,  
the Fabrication area, and  
the Modular Instructional Units area

finishing room,

tool and supply storage and

material storage alcove adjacent to the fabrication area of the main laboratory

Finishing room and storage areas shall open directly on to the Main teaching space

**Access**

Lab shall have a clear path of travel to exterior loading areas to allow for movement of large or heavy objects. For planning purposes, largest object size to be accommodated shall be 4' x 4' in plan and 7' in height. Path of travel may be from upper floor via elevator.

**Structure**

Loading Capacity: the floor shall have a concentrated load loading capacity of 1,000 pounds;

**Cabinetry**

Provide acid resistant epoxy workbenches in fabrication area, min 12' length

**Plumbing**

Provide one counter sink with hot and cold water and one deep stainless steel lab sink with hot and cold water

Provide storage with shelves below sinks in cabinets with a minimum of 2-drawers on each side.

Provide clay and plaster traps at deep sink.

Provide emergency shower and eyewash station

**HVAC**

Provide OSHA compliant dust extract and exhaust system at fabrication area with dust collection and exhaust direct to outside. Provide adequate make-up air and position room supply and return registers and grilles appropriately to ensure exhaust flow towards hood.

**Electrical systems**

Provide retractable overhead power reels in fabrication area. Allow one reel per 36 SF.

In addition to outlets noted on ADS, provide power outlets at 2' on center on workbenches

Workbench and overhead reels to have be controlled by a single Emergency Power Off switch

OSHA requirements maintained

Rooms designed for ease of movement and accessibility; Students need to be able to move around the worktables

Consider future technology needs; build-in flexibility to retain options.

Dust collection, and exhaust systems to meet ASHRAE standards.

Windows to provide natural light and egress

Finishes:

Flooring:

Moisture and stain-resistant finishes

Counter/Table Tops:

Heat and chemical-resistant (to acids, etc.)

#### **BUILT-IN FIXTURES:**

Seated Instructional area:

Clock

Lockable teacher wardrobe with coat rod; tall cabinet w/ shelving (may be one unit)

Permanently-mounted projection screen (not in front of the white eraser board) or interactive board

Tack board (4' x 16') minimum; tack strips on all walls

Fabrication area:

1 Dry, white eraser-board (4' x 8') on track

2 work benches 24 X 72 should be along wall

48" wide lockable tote tray cabinet and 35" wide tall cabinet with adjustable shelves

Goggle storage and sterilization with adequate ventilation.

Tack board (4' x 16') minimum

Modular Instructional Units area

None

#### **LOOSE FURNISHINGS:**

Seated Instructional area:

1 Dry, white eraser-board (4' x 8') on track;

1 work table

2, file cabinets w/lock, 4-drawer

28 student desks and chairs or 14, 2-person lab tables

Adjustable height bookshelves (24 LF)

Teacher's desk/workstation and chair

Teachers' Mobile Cart for Technology

Fabrication area:

Furniture and Equipment

4-6 mobile work tables (48" x 60")

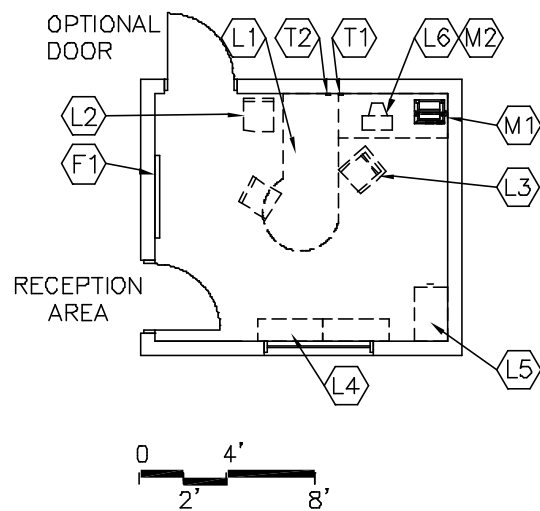
Modular Instructional Units area

Modular Instruction units - Provided by PGCPs

**AUDIO VISUAL EQUIPMENT**

See Educational Technology Requirements

STUDENT SERVICES OFFICES



QUANTITY:

6

CAPACITY

1 staff member (Assistant Principals, social workers, instructional specialists, etc.)  
Up to 3 visitors

SIZE

150 SF

SPATIAL RELATIONSHIPS:

Located centrally within each community

GOAL

To provide an office for the staff to perform administrative functions

PROGAM ACTIVITES

Coordination of school and support services  
Meeting with parents, students, and staff  
Telephone communications (private)

SPACE REQUIREMENTS

Construction:	
Min Ceiling Height:	9'-0"
Acoustics:	AC3 - Medium Performance: Closed Office
Window shading:	S1 - Roller Shades, 5% Open
Power & Lighting	

**Academic Core Space**

User Convenience (excludes outlets for AV, security, etc.):	2 duplex outlets per wall on two side walls
Lighting level	L2 - 35 FC at work surfaces
Telecommunications	
Outlet (excludes outlets for AV, security, etc.):	One standard data drop on two side walls
Wireless Requirements:	TW2 - 2 wireless devices per occupant (based on maximum occupancy)

**ADDITIONAL REQUIREMENTS**

Auditory privacy

Environmental sound control:

Wall minimum: STC 45

Ceiling minimum: CAC 35

Windows to provide natural light

Uniform lighting

None

**BUILT-IN FIXTURES:**

F1 Tack board (4 LF)

**LOOSE FURNISHINGS:**

L1 Desk with conference table

L2 2 guest chairs

L3 Ergonomic task chair

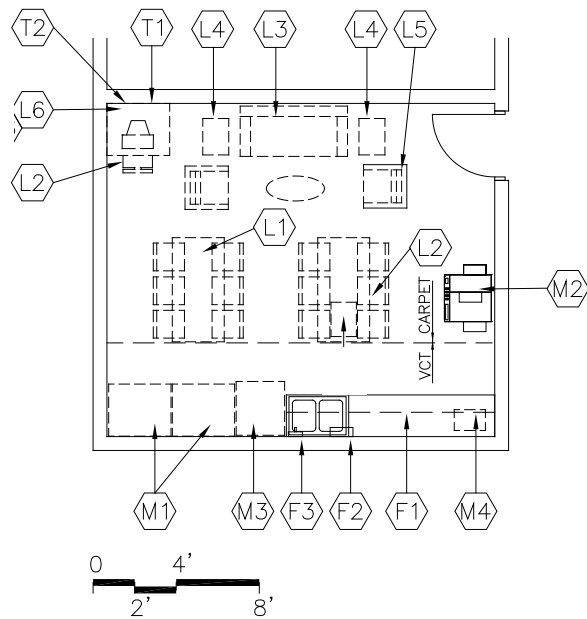
L4 Adjustable height bookshelves (12 LF)

L5 1, 4-drawer locking file cabinet

L6 Computer workstation

**AUDIO VISUAL EQUIPMENT**

See Educational Technology Requirements

**TEACHER SUPPORT ROOMS****QUANTITY:**

3 (1 per grade level)

**CAPACITY:**

6-36 teachers

**SIZE:**

400 SF

**SPATIAL RELATIONSHIPS:**

- Access from Corridor
- Located near individual restrooms
- Located within Grade Level areas
- One per grade level community

**GOAL:**

To provide space for teachers to carry out their administrative duties, prepare materials for class, access the Internet, lock up personal items, and to socialize and relax.

**PROGRAM ACTIVITIES:**

- Eating lunch
- Enter and access data
- Grade papers
- Prepare lessons using computer, video, and other resources.
- Store files (floating or shared department files)

**SPACE REQUIREMENTS**

Construction:	
Min Ceiling Height:	9'-0"
Acoustics:	AC3 - Office
Window shading:	S1 - Roller Shades, 5% Open
Plumbing:	
Fixture Type:	double bowl deep sink with hot and cold water
Piped services:	hot and cold water
Special drains:	None
Power & Lighting	
User Convenience (excludes outlets for AV, security, etc.):	Duplex on perimeter walls at twelve feet (12'), 2 recessed floor quad
Lighting level	L2 - 35 FC at work surfaces
Telecommunications	
Outlet (excludes outlets for AV, security, etc.):	Standard data drops on perimeter walls at max 12' on center
Wireless Requirements:	TW2 - 2 wireless devices per occupant (based on maximum occupancy)
SPECIALTIES	
Special features:	Base cabinet and counter top, min 12' length

**ADDITIONAL REQUIREMENTS**

None

**BUILT-IN FIXTURES:**

- F1 Casework: Base cabinets and shelving
- F2 Sink w/soap dispenser
- F3 Towel dispenser
- Tack board (4 LF)

**LOOSE FURNISHINGS:**

- L1 2 Tables
- L2 12-13 chairs
- L3 Sofa (optional)
- L4 End Tables (optional)
- L5 Soft Chairs (optional)
- L6 Computer workstation with ergonomic task chair

provided by owner

- M1 Vending machines
- M2 Printer/ Copier/ Scanner/ Fax
- M3 Refrigerator
- M4 2 Microwaves

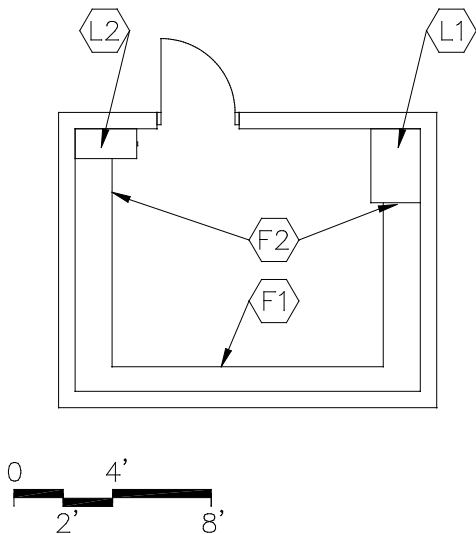
**AUDIO VISUAL EQUIPMENT**

See Educational Technology Requirements





TECHNOLOGY STORAGE



QUANTITY:

3

SIZE:

200 SF

SPATIAL RELATIONSHIP:

- One per learning community
- One per floor

GOAL:

To provide a safe and secure area for storage of equipment and supplies

SPACE REQUIREMENTS

Construction:	
Min Ceiling Height:	9'-0"
Acoustics:	AC8 - Utility Space
Window shading:	None
Power & Lighting	
User Convenience (excludes outlets for AV, security, etc.):	Duplex on perimeter walls, one per wall
Lighting level	L6 - 40 FC ambient, 70 FC at any service points or equipment
Telecommunications	
Outlet (excludes outlets for AV, security, etc.):	1 standard data drop per room
Wireless Requirements:	TW1 - 1 wireless device per occupant (based on maximum occupancy)

**ADDITIONAL REQUIREMENTS**

None

**BUILT-IN FIXTURES:**

F1 Storage shelving (12" deep)

F2 Storage shelving (18" deep)

**LOOSE FURNISHINGS:**

L1 Adjustable height shelving (24" deep)

L2 4-drawer file cabinet (legal)

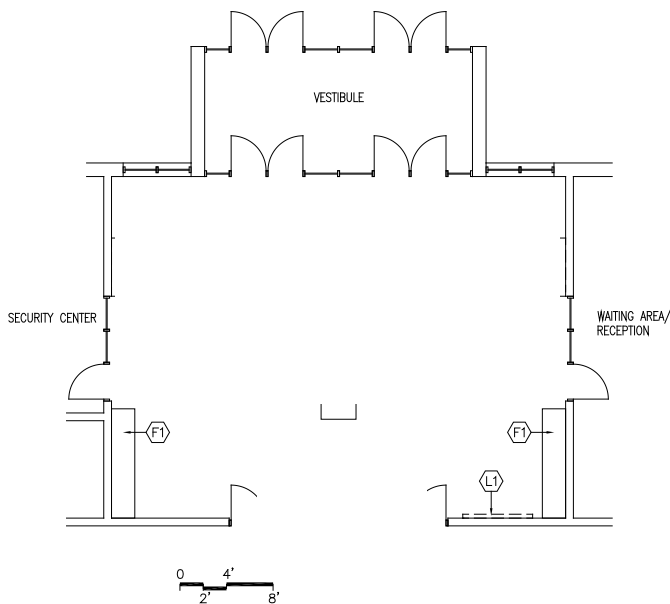
**AUDIO VISUAL EQUIPMENT**

None

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**Administrative Space**

LOBBY (MAIN)



QUANTITY:

1

SIZE:

Part of general circulation

SPATIAL RELATIONSHIP:

- Adjacent and access to Main Office
- Adjacent and access to Security Office

GOAL:

To immediately greet visitors with a welcoming atmosphere and to provide easy accessibility for the public

SPACE REQUIREMENTS

Construction:	
Min Ceiling Height:	12'
Acoustics:	AC7 - Public Space
Power & Lighting	
User Convenience (excludes outlets for AV, security, etc.):	Duplex on perimeter walls at twelve feet (12'). One outlet per CCTV camera position
Lighting level	L5 - 25 FC ambient with focus lighting areas
Telecommunications	
Outlet (excludes outlets for AV, security, etc.):	None
Wireless Requirements:	TW2 - 2 wireless devices per occupant (based on maximum occupancy)

**ADDITIONAL REQUIREMENTS**

**Lobby & Reception:**

The lobby and reception areas shall be inviting, well lit and comfortably furnished.

Entry doors shall include a large vestibule for weather protection, with adequate capacity to handle large traffic volumes

Lobby and reception areas shall have built-in or moveable display areas, with the ability to provide focus lighting on specific objects

Reception shall open directly from the lobby and shall include seating areas for waiting

Reception area shall have 18' reception/transaction counter, and back-counter with base and wall cabinets. Counter shall be bi-level for ADA access.

**Security Layering**

Lobby and reception provide the first interior layer of security against intruders. All doors leading from lobby and reception shall be lockable with electronic ACAMS controls.

The morning student entrance may be located near the dining area.

The teachers' entrance may be near staff parking and must be pass key protected for controlled access at all times.

**BUILT-IN FIXTURES:**

F1 Display cases

L1 Electronic board

Security desk/counter with workstation

**LOOSE FURNISHINGS:**

**AUDIO VISUAL EQUIPMENT**

See Educational Technology Requirements

**RECEPTION/ WAITING AREA****QUANTITY:**

1

**CAPACITY:**

10 people

**SIZE:**600 SF (includes 50 SF coat closet)**SPATIAL RELATIONSHIPS:**

- Adjacent to Lobby
- Easy to locate and identify
- Maximize view to Lobby and entry

The attendance area will have a lockable window to the corridor with a counter.

**GOAL:**

- To provide a welcoming atmosphere and to serve as an information area for those coming into the school

**PROGRAM ACTIVITIES:**

Greeting people and directing them to the proper location or person  
Waiting area for visitors and staff members

**SPACE REQUIREMENTS**

Construction:	
Min Ceiling Height:	10'-0"
Acoustics:	AC4 - Medium Performance: Open Office and Workroom Office
Window shading:	S1 - Roller Shades, 5% Open
Power & Lighting	
User Convenience (excludes outlets for AV, security, etc.):	Duplex on perimeter walls at twelve feet (12'), power to electrified workstations
Lighting level	L2 - 35 FC at work surfaces
Telecommunications	
Outlet (excludes outlets for AV, security, etc.):	Standard data drop on perimeter walls at max 12' on center, data to electrified workstations
Wireless Requirements:	TW2 - 2 wireless devices per occupant (based on maximum occupancy)

**ADDITIONAL REQUIREMENTS****Lobby & Reception:**

The lobby and reception areas shall be inviting, well lit and comfortably furnished.

Entry doors shall include a large vestibule for weather protection, with adequate capacity to handle large traffic volumes

Lobby and reception areas shall have built-in or moveable display areas, with the ability to provide focus lighting on specific objects

---

**Administrative Space**

Reception shall open directly from the lobby and shall include seating areas for waiting  
Reception area shall have 18' reception/transaction counter, and back-counter with base and wall cabinets. Counter shall be bi-level for ADA access.

**Security Layering**

Lobby and reception provide the first interior layer of security against intruders. All doors leading from lobby ad reception shall be lockable with electronic ACAMS controls.

**BUILT-IN FIXTURES:**

18' minimum reception counter (two level for handicapped access) with adjustable shelf storage on the inside

Counter and base cabinets along back wall; space for master intercom console

Tack board (8 LF)

**LOOSE FURNISHINGS:**

Desk/Workstations for 2 staff

2 ergonomic chairs

2 under the desk file cabinets

6-8 Visitor chairs

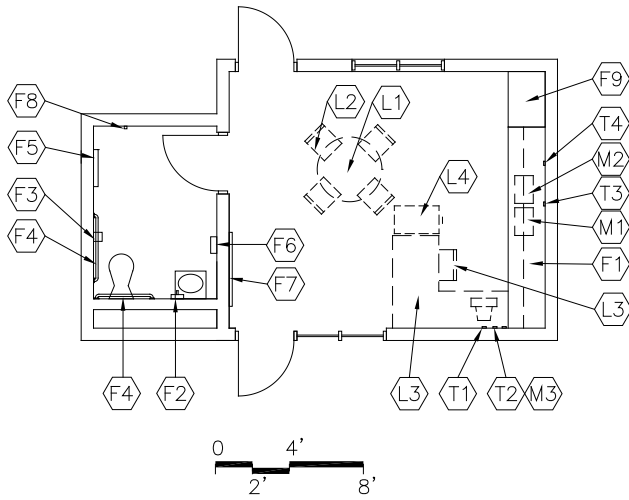
2 End tables

Display rack

**AUDIO VISUAL EQUIPMENT**

See Educational Technology Requirements

### PRINCIPAL'S OFFICE



#### QUANTITY:

1

#### CAPACITY:

Up to 5 people

#### SIZE:

230 SF (includes 50 SF private toilet)

#### SPATIAL RELATIONSHIPS:

Adjacent to Administrative Assistant's Office  
Near Conference Room

#### GOAL:

To serve as the home base for the principal from which he/she can provide instructional leadership in a personal, flexible, and organized environment for students, staff, and community

#### PROGRAM ACTIVITIES:

Administrative paperwork  
Computer input  
Conferences with staff and other visitors  
Interaction with students  
Planning  
Telephone calls

#### SPACE REQUIREMENTS

Construction:	
Min Ceiling Height:	9'-0"
Acoustics:	AC3 - Medium Performance: Closed Office
Window shading:	S1 - Roller Shades, 5% Open
Plumbing:	



**Administrative Space**

Fixture Type:	Lavatory and Water Closet
Piped services:	Hot and Cold Water
Special drains:	None
<b>Power &amp; Lighting</b>	
User Convenience (excludes outlets for AV, security, etc.):	2 duplex per wall on three of four walls in the office, single GFI/Shaver outlet in restroom
Lighting level	L2 - 35 FC at work surfaces
<b>Telecommunications</b>	
Outlet (excludes outlets for AV, security, etc.):	One standard data drop on two walls
Wireless Requirements:	TW2 - 2 wireless devices per occupant (based on maximum occupancy)
<b>SPECIALTIES</b>	
Special features:	None
<b>ADDITIONAL REQUIREMENTS</b>	
The office must be directly connected to a single-user restroom (Restroom: Gender Inclusive). Assignable Area includes both office space (180 ASF) and restroom space (50 ASF)	

**ADDITIONAL REQUIREMENTS**

None

**BUILT-IN FIXTURES:**

- F1 Casework: Base/wall cabinets and shelving
- F2 Soap dispenser
- F3 Toilet tissue holder
- F4 36" and 42" grab bars
- F5 24" x 60" mirror
- F6 Towel dispenser
- F7 Tack board (4 LF)
- F8 Coat hook

**LOOSE FURNISHINGS:**

- L1 Conference table
- L2 4 side chairs
- L3 Desk and chair
- L4 Four-drawer locking file cabinet

Miscellaneous Equipment (provided by owner):

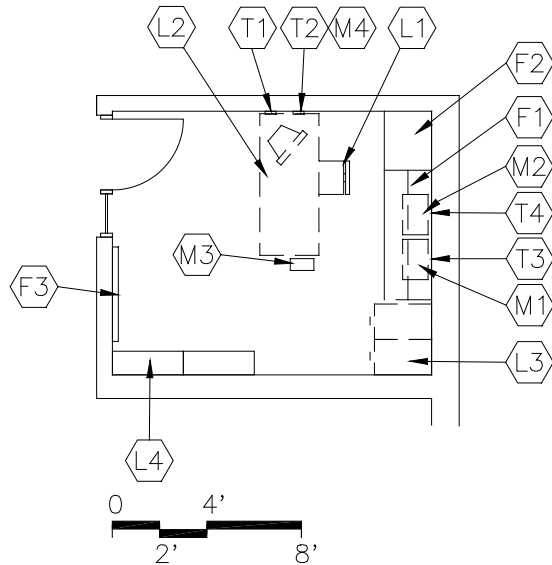
- M1/2 Fax/Printer
- M3 Computer

**AUDIO VISUAL EQUIPMENT**

See Educational Technology Requirements



## ADMINISTRATIVE ASSISTANT'S OFFICE



### QUANTITY:

1

### CAPACITY:

Up to 2 people

### SIZE:

120 SF

### SPATIAL RELATIONSHIPS:

Adjacent and access to Waiting Area/Reception  
 Visual access to Waiting Area/Reception  
 Adjacent to Principal's Office

### GOAL:

To serve as an area from which the secretary can effectively provide administrative support

### PROGRAM ACTIVITIES:

Answering telephone  
 Data input and retrieval  
 Duties of confidential secretary  
 Financial accounting and bookkeeper functions  
 General office work

**SPACE REQUIREMENTS**

Construction:	
Min Ceiling Height:	9'-0"
Acoustics:	AC3 - Medium Performance: Closed Office
Window shading:	S1 - Roller Shades, 5% Open
Power & Lighting	
User Convenience (excludes outlets for AV, security, etc.):	2 duplex outlets per wall on two side walls
Lighting level	L2 - 35 FC at work surfaces
Telecommunications	
Outlet (excludes outlets for AV, security, etc.):	One standard data drop on two side walls
Wireless Requirements:	TW2 - 2 wireless devices per occupant (based on maximum occupancy)

**ADDITIONAL REQUIREMENTS****BUILT-IN FIXTURES:**

- F1 Casework:
  - Base cabinets and shelving
- F3 Tack board (4 LF)
- F2 Casework: Wardrobe

**LOOSE FURNISHINGS:**

- L2 Desk
- L1 Ergonomic chair
- L3 4-drawer locking file cabinet
- L4 Bookcases

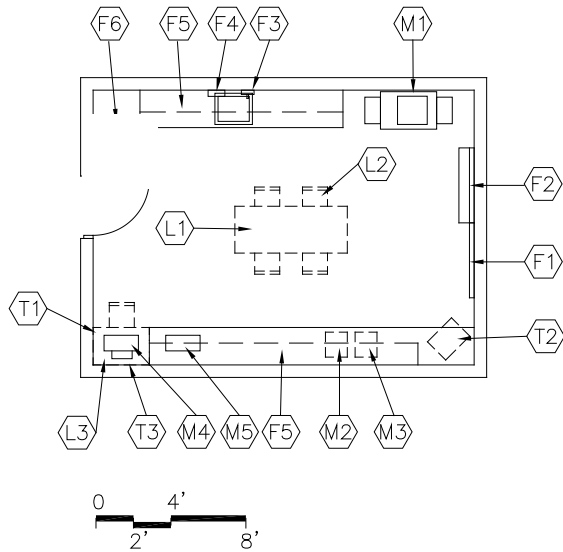
Miscellaneous Equipment (provided by owner):

- M2 Printer
- M4 Computer
- M1 FAX

**AUDIO VISUAL EQUIPMENT**

See Educational Technology Requirements

### ADMINISTRATIVE WORKROOM



#### QUANTITY:

1

#### CAPACITY:

Up to 4 people

#### SIZE:

200 SF

#### ANCILLARY SPACES:

Supply/ Storage Room

Toilet (Adult)

#### SPATIAL RELATIONSHIPS:

Near Reception/ Waiting Area

#### GOAL:

To provide an area for office projects to be completed

#### PROGRAM ACTIVITIES:

Binding reports

Collating

Copying

Laminating

Preparing communications for mailing

Sorting of files

Telephone communications

**SPACE REQUIREMENTS**

Construction:	
Min Ceiling Height:	9'-0"
Acoustics:	AC4 - Medium Performance: Open Office and Workroom Office
Window shading:	S1 - Roller Shades, 5% Open
Plumbing:	
Fixture Type:	Kitchen sink
Piped services:	Hot and Cold Water
Special drains:	None
Power & Lighting	
User Convenience (excludes outlets for AV, security, etc.):	Duplex on perimeter walls at twelve feet (12'), 2 recessed floor quad
Lighting level	L2 - 35 FC at work surfaces
Telecommunications	
Outlet (excludes outlets for AV, security, etc.):	Standard data drops on perimeter walls at max 12' on center
Wireless Requirements:	TW2 - 2 wireless devices per occupant (based on maximum occupancy)

**ADDITIONAL REQUIREMENTS**

None

**BUILT-IN FIXTURES:**

- F1 Tack board (4 LF)
- F2 Marker board (4 LF)
- F3 Sink w/soap dispenser
- F4 Towel dispenser
- F5 Casework: Base cabinets and shelving

**LOOSE FURNISHINGS:**

- L1 Work table
- L2 4 chairs
- L3 Computer workstation with ergonomic task chair

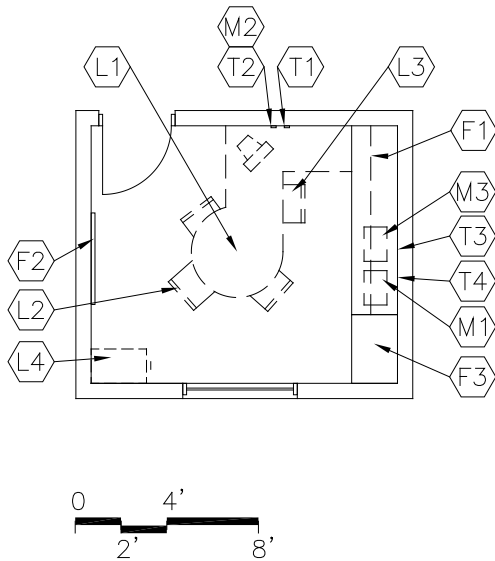
Miscellaneous Equipment (provided by owner):

- M1 Copier
- M2 Paper cutter
- M3 Laminating machine
- M4 Computer
- M5 Printer

**AUDIO VISUAL EQUIPMENT**

See Educational Technology Requirements

## BUSINESS MANAGER'S OFFICE



### QUANTITY:

1

### CAPACITY:

Up to 4 people

### SIZE:

150 SF

### SPATIAL RELATIONSHIPS:

Adjacent to Administrative Assistant's Office  
Near Main Office

### GOAL:

To serve as the home base for administrators from which he/she can provide leadership in a personal, flexible, and organized environment for students, staff, and community

### PROGRAM ACTIVITIES:

Administrative paperwork  
Computer input  
Meetings with parents, students, and staff  
Planning  
Student counseling  
Telephone calls

**SPACE REQUIREMENTS**

Construction:	
Min Ceiling Height:	9'-0"
Acoustics:	AC3 - Medium Performance: Closed Office
Window shading:	S1 - Roller Shades, 5% Open
Power & Lighting	
User Convenience (excludes outlets for AV, security, etc.):	2 duplex outlets per wall on two side walls
Lighting level	L2 - 35 FC at work surfaces
Telecommunications	
Outlet (excludes outlets for AV, security, etc.):	One standard data drop on two side walls
Wireless Requirements:	TW2 - 2 wireless devices per occupant (based on maximum occupancy)

**ADDITIONAL REQUIREMENTS**

None

**BUILT-IN FIXTURES:**

- F1 Casework: Base cabinets and shelving
- F2 Tack board (4 LF)
- F3 Casework: Wardrobe

**LOOSE FURNISHINGS:**

- L1 Desk
- L2 Side chairs
- L3 Ergonomic Chair
- L4 4-drawer locking file cabinet

Miscellaneous Equipment (provided by owner):

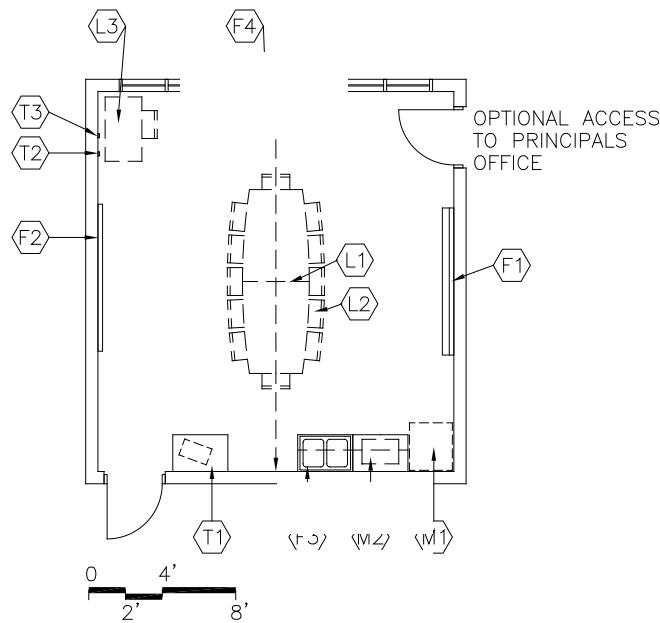
- M1 Printer
- M2 Computer
- M3 Fax (optional)

**AUDIO VISUAL EQUIPMENT**

See Educational Technology Requirements



CONFERENCE ROOM



QUANTITY:

1

CAPACITY:

Up to 20 people

SIZE:

300 SF

SPATIAL RELATIONSHIPS:

In administrative suite

GOAL:

To provide an area adequate for small and medium group conferences

PROGRAM ACTIVITY:

Meetings/conferences  
Staff collaboration

SPACE REQUIREMENTS

Construction:	
Min Ceiling Height:	9'-0"
Acoustics:	AC2 - High Performance: Conference Room or Confidential Space
Window shading:	S2 - Roller Shades, 5% Open and Motorized Blackout Shades
Power & Lighting	
User Convenience (excludes outlets for AV, security, etc.):	Duplex on perimeter walls at twelve feet (12'), Three (3) recessed floor quad boxes

---

**Administrative Space**

Lighting level	L3 - 35 FC at work surfaces and walls
Telecommunications	
Outlet (excludes outlets for AV, security, etc.):	1 standard data drop on two walls and 1 recessed floor box with standard (2) data outlets
Wireless Requirements:	TW2 - 2 wireless devices per occupant (based on maximum occupancy)
SPECIALTIES	
Special features:	None
ADDITIONAL REQUIREMENTS	
Conference Room Technology – All administrative conference rooms will have two on-table computer connections to a video display screen and be internet capable. Two lighting/multi-media control panel shall be table mounted and one wall mounted.	

**ADDITIONAL REQUIREMENTS**

None

**BUILT-IN FIXTURES:**

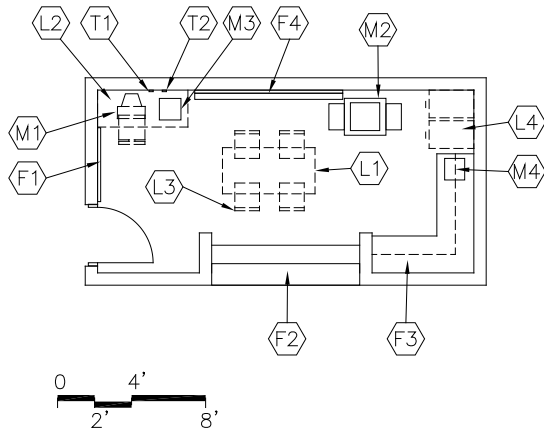
- F1 Marker board (8 LF)
- F2 Tack board (8 LF)

**LOOSE FURNISHINGS:**

- L1 Conference table
- L2 Chairs
- L3 Computer workstation furniture

**AUDIO VISUAL EQUIPMENT**

See Educational Technology Requirements

**MAILROOM****QUANTITY:**

1

**SIZE:**

150 SF

**SPATIAL RELATIONSHIP:**

Located within/adjacent to the administrative suite

**GOAL:**

To provide adequate space and equipment for office work projects and an area to disseminate incoming mail to staff members

**PROGRAM ACTIVITIES:**

Collating materials  
 Copying  
 Delivery of general mail  
 General office work  
 Storing of pertinent files

**SPACE REQUIREMENTS**

Construction:	
Min Ceiling Height:	9'-0"
Acoustics:	AC4 - Medium Performance: Open Office and Workroom Office
Power & Lighting	
User Convenience (excludes outlets for AV, security, etc.):	Duplex at counters at max 4' on center, on walls at twelve feet (12')
Lighting level	L2 - 35 FC at work surfaces
Telecommunications	
Outlet (excludes outlets for AV, security, etc.):	One standard data drop per wall: locate data drops to avoid built in cabinetry

---

**Administrative Space**

Wireless Requirements:	TW1 - 1 wireless device per occupant (based on maximum occupancy)
<b>SPECIALTIES</b>	
Special features:	Built in base cabinet and work counter, 30" deep, 16' min Pass through mail slots sized to accommodate a minimum of 110% of staff

**ADDITIONAL REQUIREMENTS**

None

**BUILT-IN FIXTURES:**

- F1 Tack board (4 LF)
- F2 Casework: 2sided mail slots for 110% of staff with base cabinets below
- F3 Casework: Base/wall cabinets
- F4 Marker board (8 LF)

**LOOSE FURNISHINGS:**

- L1 Work table
- L2 Computer workstation with ergonomic task chair
- L3 2-4 Chairs
- L4 2, 4-drawer file cabinets

Miscellaneous Equipment (provided by owner):

- M1 Computer (optional)
- M2/3 Printer/copier (optional)
- M4 FAX (optional)

**AUDIO VISUAL EQUIPMENT**

None

**SECURITY CENTER/ OFFICE SUITE****QUANTITY:**

1

**CAPACITY:**

Up to 4 person

**SIZE:**

200 SF

**SPATIAL RELATIONSHIPS:**

Near entrance to main Corridor

Near student entrance if different

Suite needs three activity areas

Work/meeting space for team

Breakout/quiet area (100 SF)

Camera monitor area w/ privacy screen

**GOAL:**

To serve as an area from which the school resource officers can perform their administrative and law enforcement functions

**PROGRAM ACTIVITIES:**

Complete reports

Meet with parents, staff, and other law enforcement officials

Monitor surveillance equipment

Perform counseling

**SPACE REQUIREMENTS**

Construction:	
Min Ceiling Height:	9'-0"
Acoustics:	AC3 - Medium Performance: Closed Office
Window shading:	S1 - Roller Shades, 5% Open
Power & Lighting	
User Convenience (excludes outlets for AV, security, etc.):	2 duplex per wall on three of four walls
Lighting level	L2 - 35 FC at work surfaces
Telecommunications	
Outlet (excludes outlets for AV, security, etc.):	One standard data drop on two side walls
Wireless Requirements:	TW2 - 2 wireless devices per occupant (based on maximum occupancy)

**ADDITIONAL REQUIREMENTS**

None

**BUILT-IN FIXTURES:**

**LOOSE FURNISHINGS:**

Work tables

2-4 chairs

Desks/workstation and chair

**AUDIO VISUAL EQUIPMENT**

See Educational Technology Requirements

Figure 1 is a detailed floor plan of a classroom. The room is rectangular with a scale bar at the bottom left indicating dimensions from 0 to 8 feet. The plan includes a 'MEN'S RESTROOM' and a 'WOMEN'S RESTROOM' on the right side, a 'VOT. CLOSET' near the bottom right, and a 'VOT. CLOSET' near the top center. The layout includes desks, chairs, a teacher's desk, and various storage units. Labels with letters and numbers (L1-L8, M1-M5, F1-F6, T1-T3, E) are placed throughout the room to identify specific locations. A dashed line indicates a 'VOT. CLOSET' area near the top center. The room also features a large oval-shaped area in the center, possibly a rug or a large table, and a smaller oval-shaped area near the bottom left. The plan is oriented with the entrance at the top left.

1 room

6-36 teachers

800 SF (including bathrooms)

## Men's and Women's Restrooms

Access from Corridor  
Near Dining  
Restrooms within or near

To provide an area for staff to relax and prepare for classes.

- Eating
- Interacting with peers
- Prepare lessons using computer, video, and other resources.
- Relaxing
- Using the telephone

**SPACE REQUIREMENTS**

Construction:	
Min Ceiling Height:	8'-0"
Acoustics:	AC7 - Public Space
Window shading:	S1 - Roller Shades, 5% Open
Plumbing:	
Fixture Type:	Double kitchen sink
Piped services:	HW, CW
Special drains:	Sink drain
Power & Lighting	
User Convenience (excludes outlets for AV, security, etc.):	Duplex on perimeter walls at twelve feet (12'), 2' on center at counter; dedicated circuits for appliances
Power density:	PW3 - 5W/ASF
Lighting level	L2 - 35 FC at work surfaces
Lighting control	LC8 - Public Space
Telecommunications	
Outlet (excludes outlets for AV, security, etc.):	Standard data drops on perimeter walls at max 12' on center
Wireless Requirements:	TW2 - 2 wireless devices per occupant (based on maximum occupancy)

**ADDITIONAL REQUIREMENTS**

Adequate ventilation/exhaust

Auditory Privacy:

Wall minimum: STC 45

Ceiling minimum: CAC 35

Consider future technology needs, build-in flexibility to retain options

Uniform lighting with multi-level switching

Windows to provide natural light and egress

**BUILT-IN FIXTURES:**

- F1 Casework: Base/wall cabinets
- F2 Towel dispenser
- F3 Soap dispenser
- F4 Tack board (4 LF)
- F5 Casework: Wardrobe for floating teachers
- F6 Marker board (4 LF)

**LOOSE FURNISHINGS:**

- L1 2 Rectangular tables
- L2 12 Chairs
- L3 Sofa
- L4 End tables
- L5 Lounge chairs
- L6 2-3, 2-drawer locking file cabinet for floating teachers
- L7 2-3 Workstations for floating teachers with ergonomic task chairs



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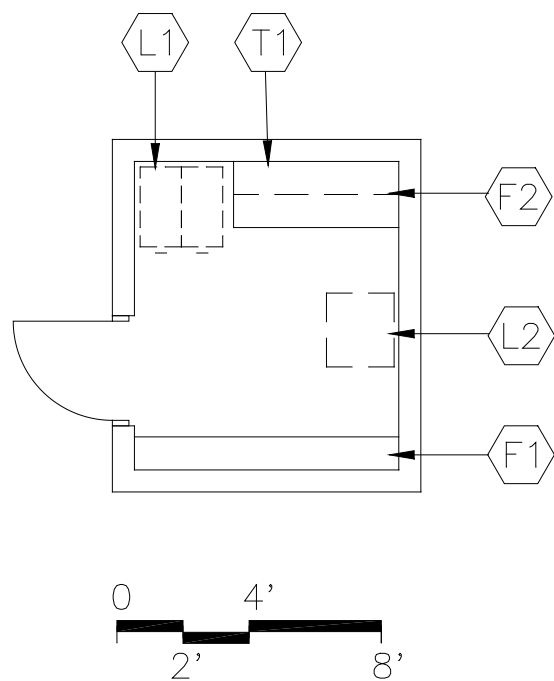
**Administrative Space**

- L8 Printer table
- M1 Vending machine
- M2 Refrigerator
- M3 Microwave

**AUDIO VISUAL EQUIPMENT**

See Educational Technology Requirements

SUPPLY (General)/ ADMINISTRATIVE STORAGE



QUANTITY:

1

SIZE:

250 SF

SPATIAL RELATIONSHIPS:

Adjacent and access to Administrative Workroom

GOAL:

To provide adequate and secure storage for office supplies

PROGRAM ACTIVITY:

Storing of office supplies, forms, and files

SPACE REQUIREMENTS

Construction:	
Min Ceiling Height:	9'-0"
Acoustics:	AC8 - Utility Space
Window shading:	None
Power & Lighting	
User Convenience (excludes outlets for AV, security, etc.):	Duplex on perimeter walls, min one per wall
Lighting level	L6 - 40 FC ambient, 70 FC at any service points or equipment

**Administrative Space**

Telecommunications	
Outlet (excludes outlets for AV, security, etc.):	None
Wireless Requirements:	TW1 - 1 wireless device per occupant (based on maximum occupancy)

**ADDITIONAL REQUIREMENTS**

None

**BUILT-IN FIXTURES:**

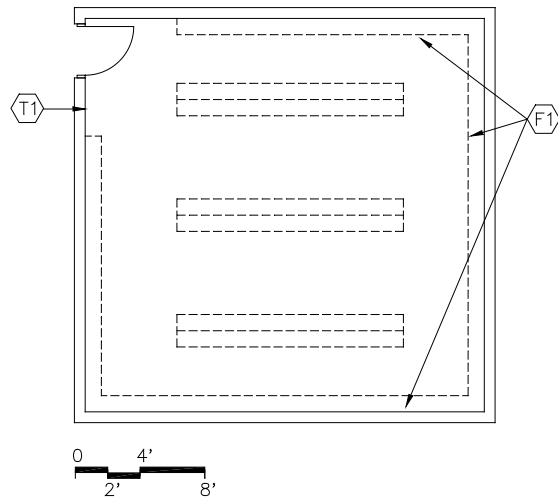
- F1 Shelving
- F2 Lockable cabinets

**LOOSE FURNISHINGS:**

- L1 2, 4-drawer file cabinet
- L2 Small safe

**AUDIO VISUAL EQUIPMENT**

None

**TEXT BOOK ROOM****QUANTITY:**

1

**SIZE:**

800 SF (2,000 LF of shelving)

**SPATIAL RELATIONSHIPS:**

Near Administration

**GOAL:**

To provide secure storage for teaching materials

**PROGRAM ACTIVITY:**

Storage of textbooks and teaching supplies and forms  
Inventory

**SPACE REQUIREMENTS**

Construction:	
Min Ceiling Height:	9'-0"
Acoustics:	AC8 - Utility Space
Window shading:	None
Power & Lighting	
User Convenience (excludes outlets for AV, security, etc.):	Duplex on perimeter walls, min one per wall
Power density:	PW1 - 1W/ASF
Lighting level	L6 - 40 FC ambient, 70 FC at any service points or equipment
Lighting control	LC6 - Workrooms / Utility
Telecommunications	
Outlet (excludes outlets for AV, security, etc.):	None

**Administrative Space**

Wireless Requirements:	TW1 - 1 wireless device per occupant (based on maximum occupancy)
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**ADDITIONAL REQUIREMENTS**

None

**BUILT-IN FIXTURES:**

F1 Adjustable shelving (2,000 LF)  
Mobile shelving on casters

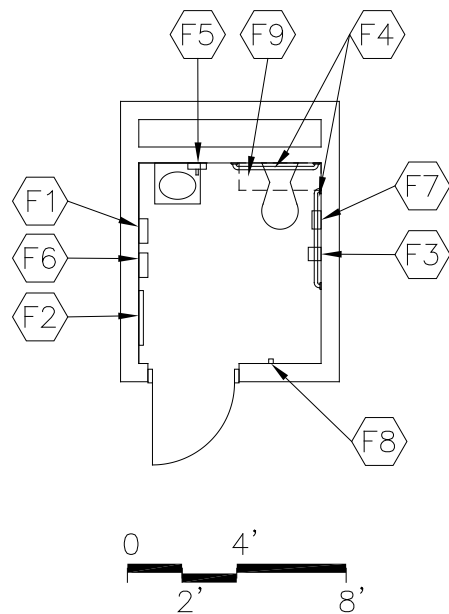
**LOOSE FURNISHINGS:**

None

**AUDIO VISUAL EQUIPMENT**

None

TOILET (Adult)



QUANTITY:  
1

CAPACITY:  
Up to 1 person

SIZE:  
50 SF

SPATIAL RELATIONSHIPS:  
Adjacent to Administrative Workroom

SPACE REQUIREMENTS

Construction:	
Min Ceiling Height:	8'-0"
Acoustics:	AC7 - Public Space
Window shading:	None
Plumbing:	
Fixture Type:	Toilet, lavatory w/sensor control faucet
Piped services:	HW, CW
Special drains:	Drain connection to fixtures
Power & Lighting	
User Convenience (excludes outlets for AV, security, etc.):	GFI Duplex at lavatory, one per room
Lighting level	L7 - 25 FC ambient
Telecommunications	

---

**Administrative Space**

Outlet (excludes outlets for AV, security, etc.):	None
Wireless Requirements:	TW1 - 1 wireless device per occupant (based on maximum occupancy)

**ADDITIONAL REQUIREMENTS**

None

**BUILT-IN FIXTURES:**

- F1 Towel dispenser
- F2 24" x 60" mirror
- F3 Toilet tissue holder
- F4 36" and 42" grab bars
- F5 Soap dispenser
- F6 Sanitary dispenser
- F7 Sanitary disposal
- F8 Coat hook
- F9 Casework: Wall cabinet

**LOOSE FURNISHINGS:**

None

**AUDIO VISUAL EQUIPMENT**

None

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**Guidance/ Student Services Space**



**RECEPTION AND WELCOME CENTER****QUANTITY:**

1

**CAPACITY:**

Parents  
Staff  
Students  
Visitors

**SIZE:**

300 SF

**SPATIAL RELATIONSHIPS:**

Locate near entrance  
Glass into the corridor for security and visibility

**GOAL:**

To provide a space designated to help students and the public feel welcome and to provide information  
Waiting area for counselor services

**PROGRAM ACTIVITIES:**

Administrative activities  
Greeting visitors  
Waiting area for students

**SPACE REQUIREMENTS**

Construction:	
Min Ceiling Height:	10'-0"
Acoustics:	AC3 - Office
Window shading:	S1 - Roller Shades, 5% Open
Power & Lighting	
User Convenience (excludes outlets for AV, security, etc.):	Duplex on perimeter walls at twelve feet (12'), power to electrified workstations
Lighting level	L2 - 35 FC at work surfaces
Telecommunications	
Outlet (excludes outlets for AV, security, etc.):	Standard data drop on perimeter walls at max 12' on center, data to electrified workstations
Wireless Requirements:	TW2 - 2 wireless devices per occupant (based on maximum occupancy)

**ADDITIONAL REQUIREMENTS**

None

**BUILT-IN FIXTURES:**

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**Guidance/ Student Services Space**

Tack board (4 LF)  
Reception counter (optional)

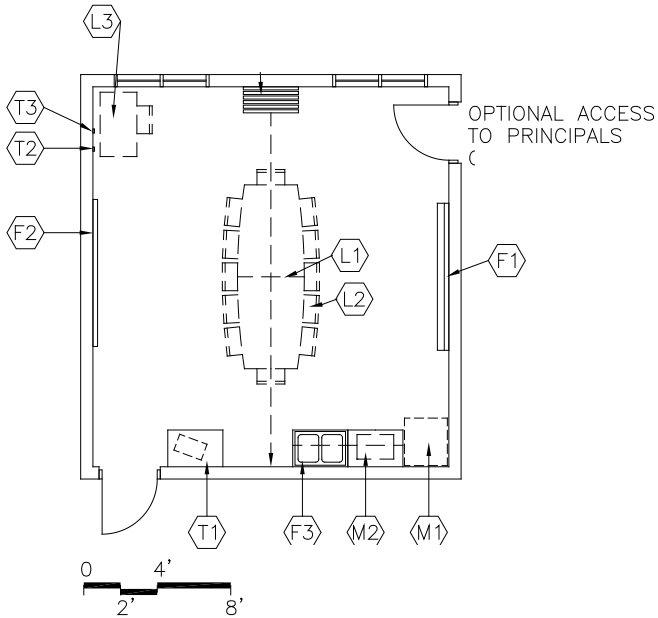
**LOOSE FURNISHINGS:**

4 visitor chairs  
Desk  
End table  
Ergonomic task chair  
Information kiosk/display

**AUDIO VISUAL EQUIPMENT**

See Educational Technology Requirements

## CONFERENCE/ TESTING ROOMS



### QUANTITY:

1

### CAPACITY:

Up to 16 people

### SIZE:

250 SF

### SPATIAL RELATIONSHIPS:

In student services/ guidance suite

### GOAL:

- To provide an area adequate for small and medium group conferences
- To provide an area for testing

### PROGRAM ACTIVITY:

- Meetings/conferences
- Staff collaboration

### SPACE REQUIREMENTS

Construction:	
Min Ceiling Height:	9'-0"
Acoustics:	AC2 - High Performance: Conference Room or Confidential Space
Window shading:	S1A -Blinds/Shades and Manually Operated Blackout Shades
Power & Lighting	
User Convenience (excludes outlets for AV, security, etc.):	Duplex on perimeter walls at twelve feet (12'), 2 recessed floor quad

**Guidance/ Student Services Space**

Lighting level	L3 - 35 FC at work surfaces and walls
Telecommunications	
Outlet (excludes outlets for AV, security, etc.):	1 standard data drop on two walls and 1 recessed floor box with standard (2) data outlets
Wireless Requirements:	TW2 - 2 wireless devices per occupant (based on maximum occupancy)
SPECIALTIES	
Special features:	None
ADDITIONAL REQUIREMENTS	
Conference Room Technology –Conference rooms will have one on-table computer connections to a video display screen and be internet capable. One lighting/multi-media control panel shall be table mounted and one wall mounted.	

**ADDITIONAL REQUIREMENTS****BUILT-IN FIXTURES:**

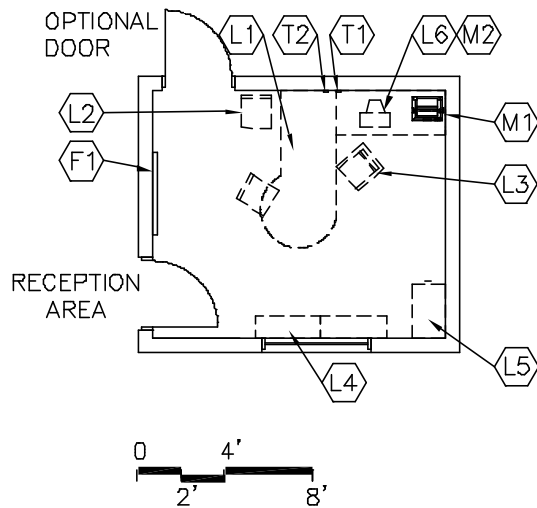
- F1 Marker board (8 LF)
- F2 Tack board (8 LF)

**LOOSE FURNISHINGS:**

- L1 Conference table
- L2 16 Chairs
- L3 Computer workstation with ergonomic task chair

**AUDIO VISUAL EQUIPMENT**

See Educational Technology Requirements

**GUIDANCE OFFICES****QUANTITY:**

6

**CAPACITY:**

1 Staff person  
Up to 3 people

**SIZE:**

120 SF

**GOAL:**

To provide an office for counselors and the registrar to perform administrative functions and meet with parents and students

**PROGRAM ACTIVITIES:**

Conferencing with parents, students, and staff  
Coordination of school and support services  
Telephone communications (private)

**SPACE REQUIREMENTS**

Construction:	
Min Ceiling Height:	9'-0"
Acoustics:	AC3 - Medium Performance: Closed Office
Window shading:	S1 - Roller Shades, 5% Open
Power & Lighting	
User Convenience (excludes outlets for AV, security, etc.):	2 duplex outlets per wall on two side walls
Lighting level	L2 - 35 FC at work surfaces
Telecommunications	

**Guidance/ Student Services Space**

Outlet (excludes outlets for AV, security, etc.):	One standard data drop on two side walls
Wireless Requirements:	TW2 - 2 wireless devices per occupant (based on maximum occupancy)

**ADDITIONAL REQUIREMENTS**

**BUILT-IN FIXTURES:**

F1 Tack board (4 LF)

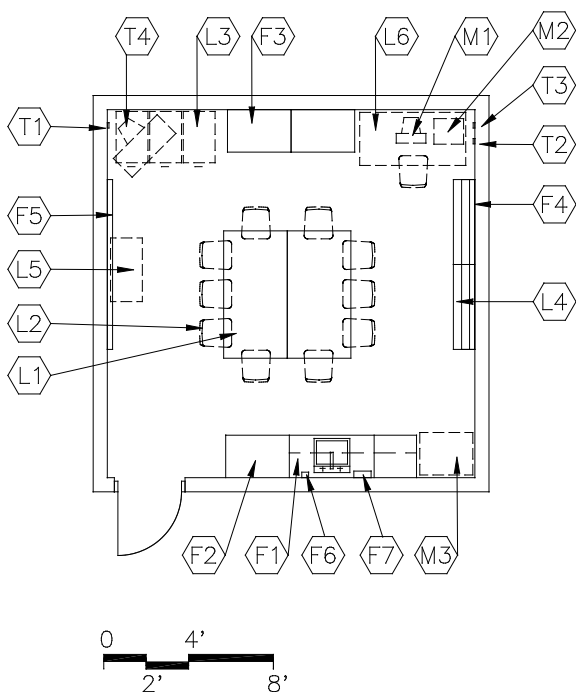
**LOOSE FURNISHINGS:**

- L1 Desk with conference table
- L2 2 guest chairs
- L3 Ergonomic task chair
- L4 Adjustable height bookshelves (12 LF)
- L5 1, 4-drawer locking file cabinet
- L6 Computer workstation

**AUDIO VISUAL EQUIPMENT**

See Educational Technology Requirements

## PARENT RESOURCE CENTER



### QUANTITY:

1

### CAPACITY:

Up to 12 People  
Parents  
PTO/PTA members  
Volunteers

### SIZE:

300 SF

### SPATIAL RELATIONSHIPS:

Near Reception/ Welcome Center  
Near Main Lobby Entrance  
Near Public Restrooms

### GOALS:

To provide a place for parents to meet and work when they volunteer at school  
To provide a place for parents to store their personal belongings  
To provide a place for the PTSA to store their materials  
To provide space for parents to check-out and use parenting sources

**PROGRAM ACTIVITIES:**

Parent training  
 Small group meetings  
 Storage for personal items  
 Storage of fundraising materials (PTO/PTA)  
 Work area

**SPACE REQUIREMENTS**

Construction:	
Min Ceiling Height:	9'-0"
Acoustics:	AC4 - Medium Performance: Open Office and Workroom Office
Window shading:	S1 - Roller Shades, 5% Open
Plumbing:	
Fixture Type:	Kitchen sink
Power & Lighting	
User Convenience (excludes outlets for AV, security, etc.):	Duplex on perimeter walls at twelve feet (12'), 2 recessed floor quad
Lighting level	L2 - 35 FC at work surfaces
Telecommunications	
Outlet (excludes outlets for AV, security, etc.):	Standard data drops on perimeter walls at max 12' on center
Wireless Requirements:	TW2 - 2 wireless devices per occupant (based on maximum occupancy)

**ADDITIONAL REQUIREMENTS**

None

**BUILT-IN FIXTURES:**

F1 Casework: Base/wall cabinets  
 F2 Casework: Wardrobe cabinet  
 F3 Casework: Storage cabinets  
 F4 Marker board (8 LF)  
 F5 Tack board (8 LF)  
 F6 Soap dispenser  
 F7 Towel dispenser

**LOOSE FURNISHINGS:**

L1 2 tables (36" x 72")  
 L2 10 chairs  
 L3 4-drawer file cabinet  
 L4 Adjustable height bookshelves (20 LF)  
 L6 Computer workstation

Miscellaneous Equipment (provided by owner):

M1 Computer  
 M2 Printer

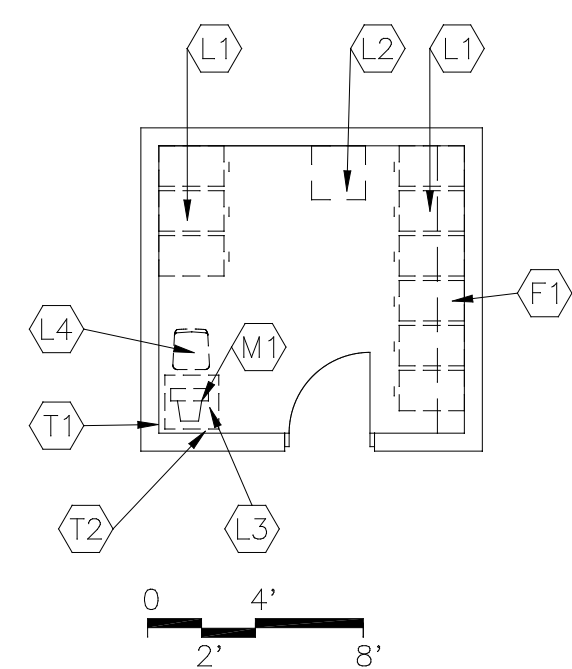


M3 Refrigerator with ice maker

**AUDIO VISUAL EQUIPMENT**

See Educational Technology Requirements

RECORDS STORAGE ROOM



QUANTITY:

1

CAPACITY:

Staff Up to 1

SIZE:

150 SF

SPATIAL RELATIONSHIPS:

Near Business Manager’s Office

GOAL:

To provide secure, fireproof, and adequate storage for money, records, and other valuable items

PROGRAM ACTIVITIES:

- Accessible to administration staff
- Storage of files and records
- Storing of money and other valuable items

SPACE REQUIREMENTS

Construction:	
Min Ceiling Height:	9'-0"
Acoustics:	AC8 - Utility Space
Window shading:	None

<b>Power &amp; Lighting</b>	
User Convenience (excludes outlets for AV, security, etc.):	Duplex on perimeter walls, min one per wall
Lighting level	L6 - 40 FC ambient, 70 FC at any service points or equipment
<b>Telecommunications</b>	
Outlet (excludes outlets for AV, security, etc.):	None
Wireless Requirements:	TW1 - 1 wireless device per occupant (based on maximum occupancy)

**ADDITIONAL REQUIREMENTS****BUILT-IN FIXTURES:**

F1 Casework: Wall shelving

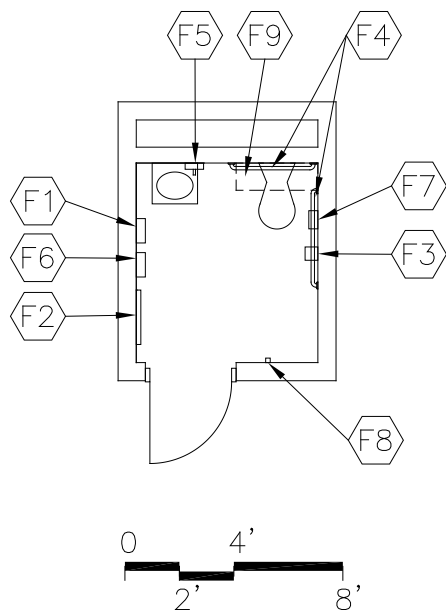
**LOOSE FURNISHINGS:**

- L1 8-10, 4-drawer file cabinets (fireproof)
- L2 Small safe
- L3 Small table
- L4 Chair

**AUDIO VISUAL EQUIPMENT**

None

TOILET (Adult)



QUANTITY:

- 2

CAPACITY:

- Up to 1 person

SIZE:

- 50 SF

SPATIAL RELATIONSHIPS:

- Located within Health Suite adjacent to the Cot Area

PROGRAM ACTIVITY:

- Changing clothing
- Personal and health needs for the health suite

SPACE REQUIREMENTS

Construction:	
Min Ceiling Height:	8'-0"
Acoustics:	AC7 - Public Space
Window shading:	None
Plumbing:	
Fixture Type:	Toilet, lavatory w/sensor control faucet
Power & Lighting	
User Convenience (excludes outlets for AV, security, etc.):	GFI Duplex at lavatory, one per room

---

**Guidance/ Student Services Space**

Lighting level	L7 - 25 FC ambient
Telecommunications	
Outlet (excludes outlets for AV, security, etc.):	None
Wireless Requirements:	TW1 - 1 wireless device per occupant (based on maximum occupancy)

**ADDITIONAL REQUIREMENTS**

None

**BUILT-IN FIXTURES:**

- F1 Towel dispenser
- F2 24" x 60" mirror
- F3 Toilet tissue holder
- F4 36" and 42" grab bars
- F5 Soap dispenser
- F6 Sanitary dispenser
- F7 Sanitary disposal
- F8 Coat hook
- F9 Casework: Wall cabinet

**LOOSE FURNISHINGS:**

None

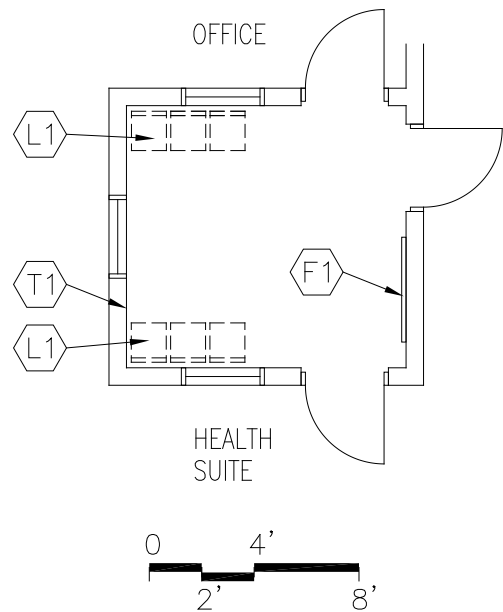
**AUDIO VISUAL EQUIPMENT**

None

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Health Suite Space

RECEPTION/ WAITING AREA



QUANTITY:

1

CAPACITY:

Up to 6 people

SIZE:

200 SF

SPATIAL RELATIONSHIPS:

- First space one enters in Health Suite
- Ground floor
- May include Nurse’s desk and work station (see Office for description of F&E)

GOAL:

To provide an area for students waiting to see the nurse or for parent pick-up

SPACE REQUIREMENTS

Construction:	
Min Ceiling Height:	9'-0"
Acoustics:	AC3 - Medium Performance: Closed Office
Window shading:	S1 - Roller Shades, 5% Open
Power & Lighting	
User Convenience (excludes outlets for AV, security, etc.):	Duplex on perimeter walls at twelve feet (12')
Lighting level	L5 - 25 FC ambient with focus lighting areas
Telecommunications	

---

**Health Suite Space**

Outlet (excludes outlets for AV, security, etc.):	Standard data drop on perimeter walls at max 12' on center, data to electrified workstations
Wireless Requirements:	TW1 - 1 wireless device per occupant (based on maximum occupancy)
ADDITIONAL REQUIREMENTS	
Waiting room shall provide visual privacy for people waiting	

**ADDITIONAL REQUIREMENTS**

None

**BUILT-IN FIXTURES:**

F1 Tack board

Brochure rack

**LOOSE FURNISHINGS:**

L1 4-6 visitor chairs

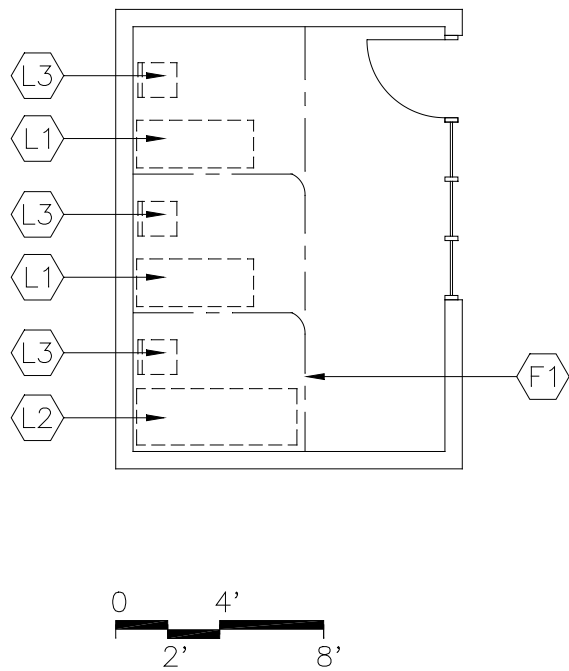
2 Side tables w/ lamps

**AUDIO VISUAL EQUIPMENT**

See Educational Technology Requirements



COT ROOMS



QUANTITY:

2

CAPACITY:

1 person per cot

SIZE:

100 SF

ANCILLARY SPACES:

Toilet adjacent to each cot area

SPATIAL RELATIONSHIPS:

Located within Health Suite

GOAL:

To provide a place for students and staff to lie down when feeling ill

PROGRAM ACTIVITIES:

Resting

SPACE REQUIREMENTS

Construction:	
Min Ceiling Height:	9"-0"
Acoustics:	AC3 - Medium Performance: Closed Office

Window shading:	None
<b>Power &amp; Lighting</b>	
User Convenience (excludes outlets for AV, security, etc.):	Duplex on perimeter walls at twelve feet (12'), outlets for computer charting station and vital station height.
Lighting level	L8 - 15 FC ambient
<b>Telecommunications</b>	
Outlet (excludes outlets for AV, security, etc.):	Standard data drop on perimeter walls at max 12' on center
Wireless Requirements:	TW1 - 1 wireless device per occupant (based on maximum occupancy)

**ADDITIONAL REQUIREMENTS**

Adequate ventilation  
 Audio and visual privacy  
 Separate Male and Female Cot areas visible to the Office and Waiting Area  
 Visual access to Waiting Area/Reception or Welcome Center

**BUILT-IN FIXTURES:**

F1 Cubical curtain

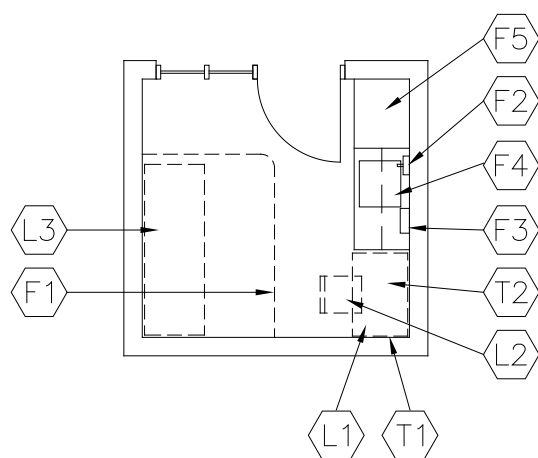
**LOOSE FURNISHINGS:**

L1 2 small cots  
 L2 1 large cot  
 L3 3 chairs

**AUDIO VISUAL EQUIPMENT**

See Educational Technology Requirements

## EXAM ROOM/ TREATMENT AREA



### QUANTITY:

1

### CAPACITY:

Up to 2 people

### SIZE:

125 SF

### ANCILLARY SPACES:

Storage Area

### SPATIAL RELATIONSHIPS:

Located within Health Suite and adjacent to Treatment Area  
Near Waiting Area

### GOAL:

To provide school based health services

### PROGRAM ACTIVITIES:

Administrative paperwork  
Consultation with students  
First aid  
Health screening  
Medical treatments  
Medication administration

**SPACE REQUIREMENTS**

Construction:	
Min Ceiling Height:	9'-0"
Acoustics:	AC2 - High Performance: Conference Room or Confidential Space
Window shading:	S1A -Blinds/Shades and Manually Operated Blackout Shades
Plumbing:	
Fixture Type:	Lavatory w/sensor control faucet
Power & Lighting	
User Convenience (excludes outlets for AV, security, etc.):	Duplex on perimeter walls at twelve feet (12'), outlets for computer charting station and vital station height.
Lighting level	L6 - 40 FC ambient, 70 FC at any service points or equipment
Telecommunications	
Outlet (excludes outlets for AV, security, etc.):	Two (2) data drop per wall on two walls.
Wireless Requirements:	TW2 - 2 wireless devices per occupant (based on maximum occupancy)
SPECIALTIES	
Special features:	4' base cabinet; 4' wall mounted cabinet; handwash sink; wall mounted medical computer desk, curtains on windows, Privacy curtains, paper towel holder, soap dispenser

**ADDITIONAL REQUIREMENTS**

Sink with hot and cold water/gooseneck with paddle handles

Visual access to Waiting Area/Reception

Wheelchair area within space

Note: Nurse should have visual control over the cots and reception area even while in the treatment area.

**BUILT-IN FIXTURES:**

F1 Cubical curtain

F2 Soap dispenser

F3 Towel dispenser

F4 Casework: Base/wall cabinets

F5 Casework: Student-access medicine cabinet (see staff for space and design requirements)

**LOOSE FURNISHINGS:**

L1 Desk

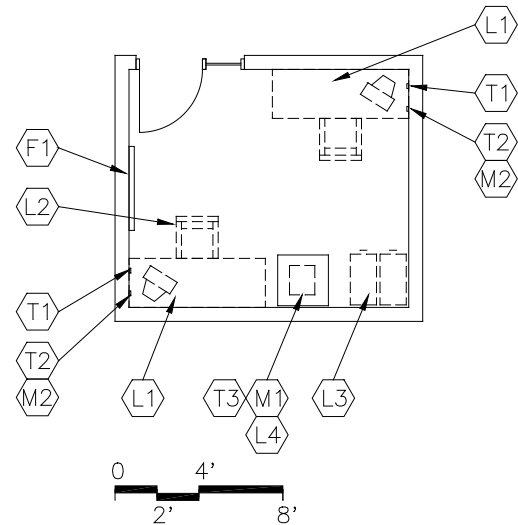
L2 Ergonomic chair

L3 Cot or exam table

**AUDIO VISUAL EQUIPMENT**

See Educational Technology Requirements

OFFICE



QUANTITY:

1

CAPACITY:

Up to 2 people

SIZE:

100 SF

SPATIAL RELATIONSHIPS:

Adjacent and visual into Waiting Area/Reception

GOAL:

To provide an office for the staff to perform clerical functions

PROGRAM ACTIVITIES:

- Computer input
- Conferences with staff and other visitors
- Paperwork
- Planning
- Telephone calls

SPACE REQUIREMENTS

Construction:	
Min Ceiling Height:	9'-0"
Acoustics:	AC3 - Medium Performance: Closed Office
Window shading:	S1 - Roller Shades, 5% Open
Power & Lighting	

---

**Health Suite Space**

User Convenience (excludes outlets for AV, security, etc.):	2 duplex per wall on three of four walls
Lighting level	L2 - 35 FC at work surfaces
Telecommunications	
Outlet (excludes outlets for AV, security, etc.):	One standard data drop on two side walls
Wireless Requirements:	TW2 - 2 wireless devices per occupant (based on maximum occupancy)

**ADDITIONAL REQUIREMENTS**

None

**BUILT-IN FIXTURES:**

F1 Tack board

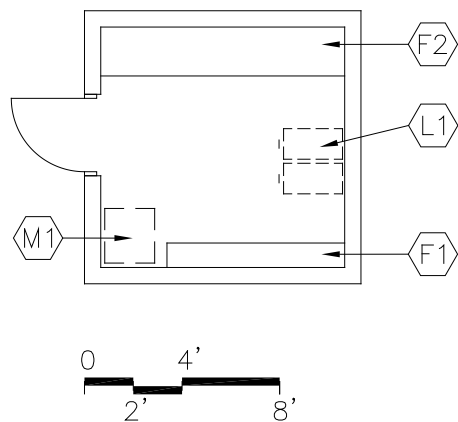
**LOOSE FURNISHINGS:**

- L1 1 desk
- L2 1 ergonomic task chair
- L3 1 4-drawer file cabinet
- L4 Printer table
- Guest chair

**AUDIO VISUAL EQUIPMENT**

See Educational Technology Requirements

STORAGE AREA



QUANTITY:  
1

CAPACITY:  
Up to 1 person

SIZE:  
50 SF

SPATIAL RELATIONSHIPS:  
Adjacent and access to Treatment Area

GOAL:  
To provide storage for medical supplies and equipment

PROGRAM ACTIVITIES:  
Storage

SPACE REQUIREMENTS

Construction:	
Min Ceiling Height:	9'-0"
Acoustics:	AC8 - Utility Space
Plumbing:	
Fixture Type:	Cconnection for ice maker
Piped services:	Cold water
Special drains:	Drain connection to fixtures
Power & Lighting	
User Convenience (excludes outlets for AV, security, etc.):	Duplex on perimeter walls, one per wall
Power density:	PW1 - 1W/ASF
Lighting level	L6 - 40 FC ambient, 70 FC at any service points or equipment
Lighting control	LC6 - Workrooms / Utility

Telecommunications	
Outlet (excludes outlets for AV, security, etc.):	1 standard data drop per room
Wireless Requirements:	TW1 - 1 wireless device per occupant (based on maximum occupancy)

**ADDITIONAL REQUIREMENTS**

None

**BUILT-IN FIXTURES:**

- F1 Storage shelving - 12" deep
- F2 Storage shelving - 24" deep

**LOOSE FURNISHINGS:**

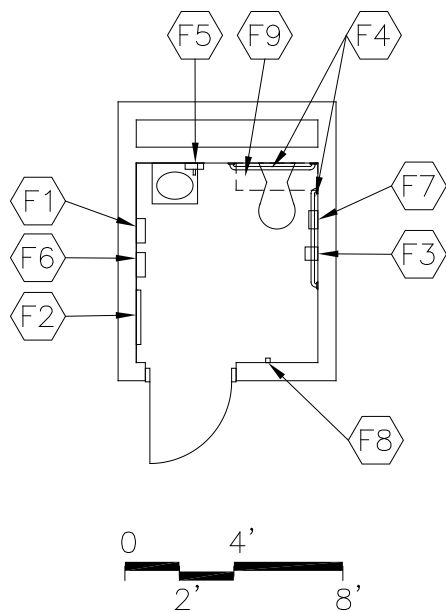
- L1 File cabinets
- M1 Refrigerator (lockable) with ice maker

**AUDIO VISUAL EQUIPMENT**

None



TOILET



QUANTITY:

2

CAPACITY:

Up to 1 person

SIZE:

50 SF

SPATIAL RELATIONSHIPS:

Located within Health Suite adjacent to the Cot Area

PROGRAM ACTIVITY:

- Changing clothing
- Personal and health needs for the health suite

SPACE REQUIREMENTS

Construction:	
Min Ceiling Height:	8'-0"
Acoustics:	AC7 - Public Space
Window shading:	None
Plumbing:	
Fixture Type:	Toilet, lavatory w/sensor control faucet
Power & Lighting	
User Convenience (excludes outlets for AV, security, etc.):	GFI Duplex at lavatory, one per room

---

**Health Suite Space**

Lighting level	L7 - 25 FC ambient
Telecommunications	
Outlet (excludes outlets for AV, security, etc.):	None
Wireless Requirements:	TW1 - 1 wireless device per occupant (based on maximum occupancy)

**ADDITIONAL REQUIREMENTS**

None

**BUILT-IN FIXTURES:**

- F1 Towel dispenser
- F2 24" x 60" mirror
- F3 Toilet tissue holder
- F4 36" and 42" grab bars
- F5 Soap dispenser
- F6 Sanitary dispenser
- F7 Sanitary disposal
- F8 Coat hook

**LOOSE FURNISHINGS:**

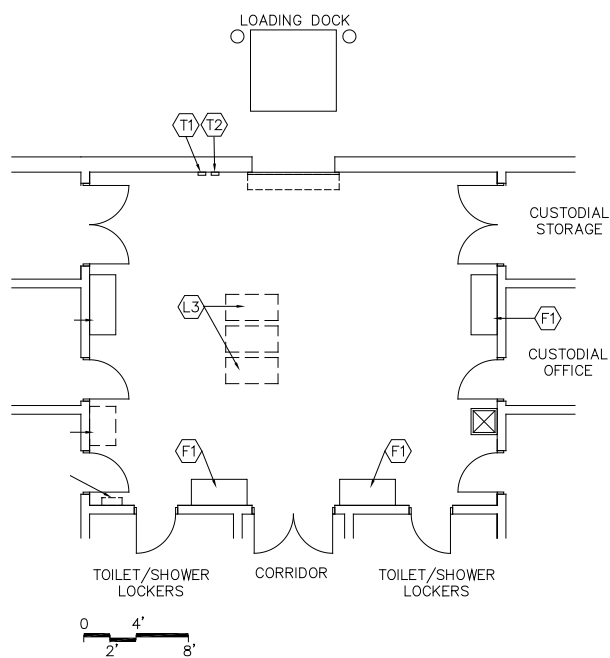
None

**AUDIO VISUAL EQUIPMENT**

None

Maintenance & Custodial Space

RECEIVING AND STORAGE



QUANTITY:

1

SIZE:

600 SF

SPATIAL RELATIONSHIPS:

- Access to a main corridor
- Access to loading dock area

GOAL:

To serve as the central point for delivery and shipping of bulk commodities and equipment and provide adequate storage for supplies and materials

PROGRAM ACTIVITIES:

- Loading and unloading
- Storage of furniture, equipment, and general supplies

SPACE REQUIREMENTS

Construction:	
Min Ceiling Height:	10'-0"
Acoustics:	AC8 - Utility Space
Window shading:	
Power & Lighting	

---

**Maintenance and Custodial Space**

User Convenience (excludes outlets for AV, security, etc.):	Duplex on perimeter walls, min one per wall
Lighting level	L6 - 40 FC ambient, 70 FC at any service points or equipment
Telecommunications	
Outlet (excludes outlets for AV, security, etc.):	One data drop on perimeter walls at max 6' on center.
Wireless Requirements:	None

**ADDITIONAL REQUIREMENTS**

Double doors with removable mullions to corridor  
 Electrical outlets for equipment  
 High ceiling  
 Staging area with insulated overhead door large enough for forklift access

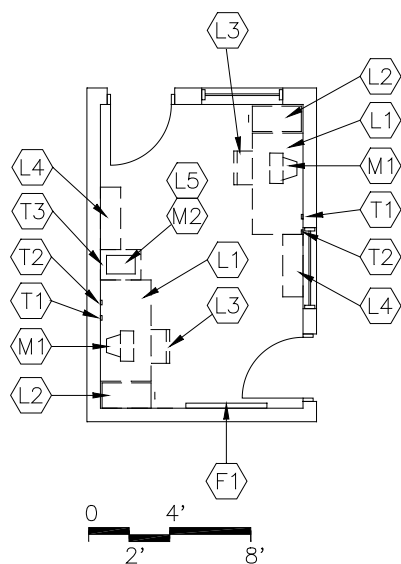
**BUILT-IN FIXTURES:****LOOSE FURNISHINGS:**

Mobile Equipment  
 Lawn maintenance equipment  
 Floor/building maintenance equipment

**AUDIO VISUAL EQUIPMENT**

None

CUSTODIAL OFFICE



QUANTITY:

1

CAPACITY:

Up to 2 People

SIZE:

150 SF

ANCILLARY SPACES:

Toilet/Shower/Lockers

SPATIAL RELATIONSHIPS:

Adjacent and access to Custodial Storage  
Adjacent and access to Receiving  
Near corridor

GOAL:

To provide an area for the maintenance manager, staff, and building engineer to provide supervision of the physical plan

PROGRAM ACTIVITIES:

- Conferences with staff and other visitors
- Paperwork
- Telephone calls

SPACE REQUIREMENTS

Construction:	
Min Ceiling Height:	9'-0"

---

**Maintenance and Custodial Space**

Acoustics:	AC3 - Medium Performance: Closed Office
Window shading:	S1 - Roller Shades, 5% Open
<b>Power &amp; Lighting</b>	
User Convenience (excludes outlets for AV, security, etc.):	2 duplex per wall on three of four walls
Lighting level	L2 - 35 FC at work surfaces
<b>Telecommunications</b>	
Outlet (excludes outlets for AV, security, etc.):	One standard data drop on two side walls
Wireless Requirements:	TW2 - 2 wireless devices per occupant (based on maximum occupancy)

**ADDITIONAL REQUIREMENTS**

None

**BUILT-IN FIXTURES:**

F1 Book shelves

**LOOSE FURNISHINGS:**

- L1 2 desks
- L2 2, 4-drawer file cabinets
- L3 2 ergonomic task chairs
- L4 Adjustable height bookshelves (12 LF)
- L5 Printer table

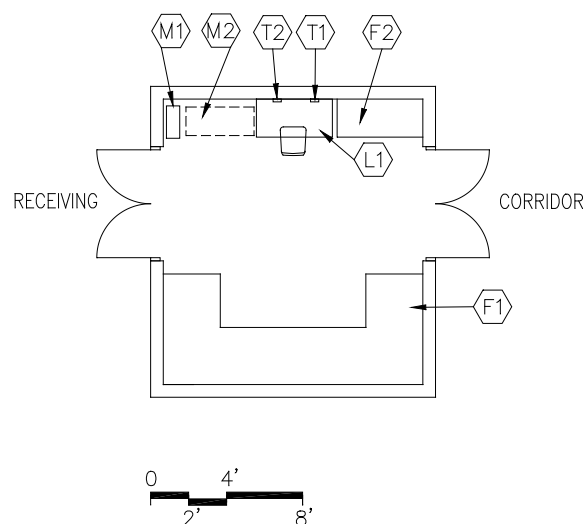
Miscellaneous Equipment (provided by owner):

- M1 2 Computers
- M2 1 Printer

**AUDIO VISUAL EQUIPMENT**

None

CUSTODIAL STORAGE



QUANTITY:

1

SIZE:

300 SF

SPATIAL RELATIONSHIP:

- Adjacent to Receiving
- Easy access to a main corridor
- Near Custodial Office

GOAL:

To serve as the central point for storage of bulk commodities and equipment

PROGRAM ACTIVITIES:

Storage of materials for special events, paper, and general supplies

SPACE REQUIREMENTS

Construction:	
Min Ceiling Height:	10'-0"
Acoustics:	AC8 - Utility Space
Window shading:	None
Power & Lighting	
User Convenience (excludes outlets for AV, security, etc.):	Duplex on perimeter walls, min one per wall
Lighting level	L6 - 40 FC ambient, 70 FC at any service points or equipment
Telecommunications	



---

**Maintenance and Custodial Space**

Outlet (excludes outlets for AV, security, etc.):	One standard data drop
Wireless Requirements:	TW1 - 1 wireless device per occupant (based on maximum occupancy)

**ADDITIONAL REQUIREMENTS**

Double doors with removable mullions to  
Receiving and Corridor  
High ceilings  
Uniform lighting

**BUILT-IN FIXTURES:**

F1 Storage shelving (40 LF): 84" high x 36" deep  
F2 Storage shelving: 84" high x 24" deep

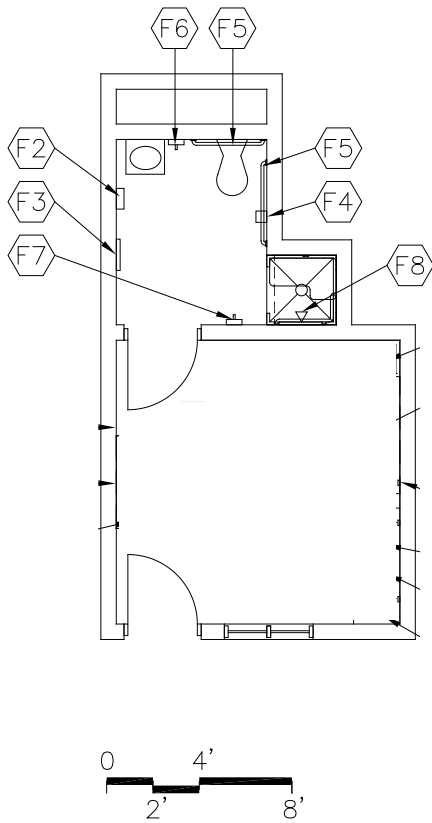
**LOOSE FURNISHINGS:**

L1 Desk and chair  
M2 Metal cabinet for flammables

**AUDIO VISUAL EQUIPMENT**

None

**TOILET/ SHOWER/ LOCKERS**



**QUANTITY:**

2

**CAPACITY:**

Custodial Staff

**SIZE:**

150 SF

**SPATIAL RELATIONSHIP:**

Adjacent to Custodial Receiving Area  
Separate Male and Female rooms

**GOAL:**

To provide an area for custodial staff to change and clean-up when needed.

**PROGRAM ACTIVITIES:**

Changing  
Showering

---

**Maintenance and Custodial Space**
**SPACE REQUIREMENTS**

Construction:	
Min Ceiling Height:	8'-0"
Acoustics:	AC7 - Public Space
Window shading:	None
Plumbing:	
Fixture Type:	Toilet, lavatory, shower
Power & Lighting	
User Convenience (excludes outlets for AV, security, etc.):	1 duplex outlet per sink
Lighting level	L7 - 25 FC ambient
Telecommunications	
Outlet (excludes outlets for AV, security, etc.):	None
Wireless Requirements:	TW1 - 1 wireless device per occupant (based on maximum occupancy)
SPECIALTIES	

**ADDITIONAL REQUIREMENTS**

None

**BUILT-IN FIXTURES:**

- F2 Towel dispenser
- F3 24" x 60" mirror
- F4 Toilet tissue holder
- F5 36" and 42" grab bars
- F6 Soap dispenser
- F7 Towel rack
- Vanity Counter and mirror

**LOOSE FURNISHINGS:**

Benches and lockable lockers

**AUDIO VISUAL EQUIPMENT**

None

**LIBRARY COMMONS****QUANTITY:**

1

**CAPACITY:**

100 students

150 persons for community or staff meeting

Media Specialist

Media Assistant

**SIZE:**3,300 SF (including Independent and on-line learning of 800 SF)**ANCILLARY SPACES:**

Equipment Storage (150 SF)

Head End Room (250 SF)

Office (150 SF)

Staff Toilet (50 SF)

Workroom (300 SF)

**SPATIAL RELATIONSHIPS:**

Three (3) activity areas:

Individual Research and Reading around periphery where stacks are located

Interactive and Small Group areas

Independent/ On-line Learning area

Good sight lines to all ancillary spaces

Mobile circulation desk located centrally

Locate standing card catalog station next to information desk

Mobility for all free-standing furniture including book shelves

**GOAL:**

To provide a place for social interaction and multi-media production and presentation

To provide students, staff, and community with access to paper and digital information

**PROGRAM ACTIVITIES:**

Reading, storytelling, speakers

Circulation of materials and resources

Whole group and small group instruction

Meetings for staff and parents

**SPACE REQUIREMENTS**

Construction:	
Min Ceiling Height:	12'-0"
Acoustics:	AC2-1 - High Performance: Classroom, Conference Room or Confidential Space (Large volume space)
Window shading:	None

**Media Center Space**

<b>Power &amp; Lighting</b>	
User Convenience (excludes outlets for AV, security, etc.):	Duplex on perimeter walls at twelve feet (12'), recessed floor quad boxes, 1 per 400 SF
Lighting level	L1 - 50 FC at work surfaces and teaching displays with multiple sets
<b>Telecommunications</b>	
Outlet (excludes outlets for AV, security, etc.):	Standard data outlets on wall at 6' on center
Wireless Requirements:	TW3 - 3 wireless devices per occupant (based on maximum occupancy)

**ADDITIONAL REQUIREMENTS**

Adequate ventilation

Ceiling height in proportion to room dimensions

Lighting appropriate to task with switches to dim separate zones of media center

☐ Security of school when center is in use after school hours

☐ Window treatment to darken room for AV presentations

☐ Windows to provide natural light and egress

Space, furniture and equipment layout shall encourage the full range of uses including individual study, story telling, group activity and large group meetings

Flooring: Carpet

**BUILT-IN FIXTURES:**

Book stacks mostly peripheral (quantity site specific); some low shelving (36") on castors (12,000 volumes – fiction and non-fiction)

Independent workstations distributed around the periphery (w/outlets); comfortable chairs

Modular mobile circulation desk combination

Book Return

Three locking drawers

Check-out module

**LOOSE FURNISHINGS:**

Individual research and reading area:

10 lounge chairs (mobile)

5 end tables (mobile)

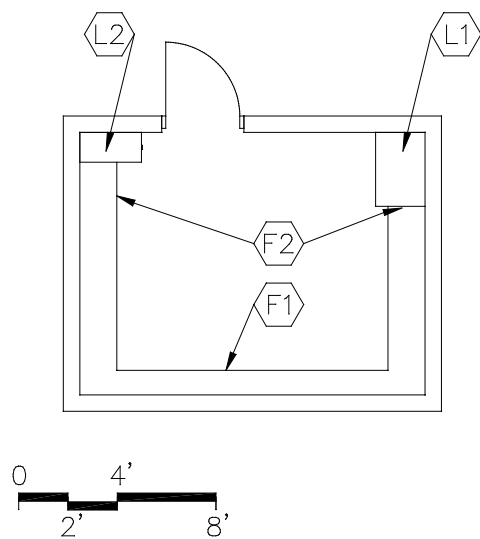
Interactive and Small Group area

10-12 four-person tables and chairs (mobile); consider different heights and alternative seating/standing choices (outlets at every location)

**AUDIO VISUAL EQUIPMENT**

See Educational Technology Requirements

EQUIPMENT STORAGE



QUANTITY:

1

SIZE:

150 SF

SPATIAL RELATIONSHIP:

Adjacent and access to the workroom

GOAL:

To provide a safe and secure area for storage of equipment and supplies

SPACE REQUIREMENTS

Construction:	
Min Ceiling Height:	9'-0"
Acoustics:	AC8 - Utility Space
Window shading:	None
Power & Lighting	
User Convenience (excludes outlets for AV, security, etc.):	Duplex on perimeter walls, min one per wall
Lighting level	L6 - 40 FC ambient, 70 FC at any service points or equipment
Telecommunications	
Outlet (excludes outlets for AV, security, etc.):	None
Wireless Requirements:	TW1 - 1 wireless device per occupant (based on maximum occupancy)

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**ADDITIONAL REQUIREMENTS**

None

**BUILT-IN FIXTURES:**

F1 Storage shelving (12" deep)

F2 Storage shelving (18" deep)

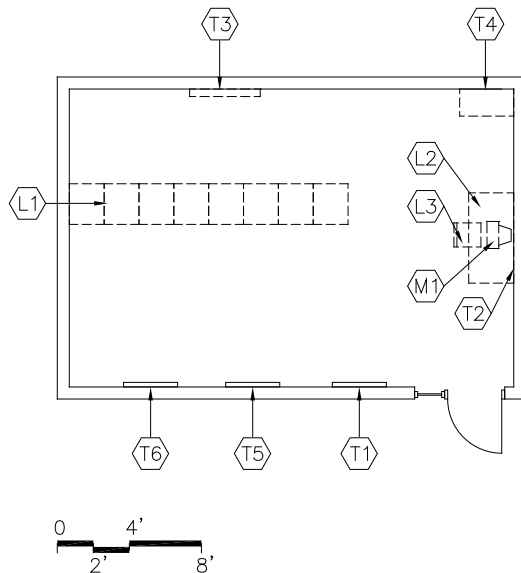
**LOOSE FURNISHINGS:**

L1 Adjustable height shelving (24" deep)

L2 4-drawer file cabinet (legal)

**AUDIO VISUAL EQUIPMENT**

None

**HEAD END (Telecommunications) ROOM****QUANTITY:**

1

**SIZE:**

250 SF

**GOALS:**

To provide a secure area to serve as the information hub of the school. File servers will serve the buildings computer network

To provide satellite up and down links that will send and receive voice, video, and data. Fiber optic cable will serve the telephone, fax, and video of the school and other district buildings

**PROGRAM ACTIVITIES:**

Cable and CATV reception and broadcasting

Network management

Security system location

Telephone wiring entry and distribution

Voice, video, data reception and distribution

**SPACE REQUIREMENTS**

Construction:	
Min Ceiling Height:	9'-0"
Acoustics:	AC8 - Utility Space
Window shading:	None
Power & Lighting	
User Convenience (excludes outlets for AV, security, etc.):	See Additional Requirements
Lighting level	L6 - 40 FC ambient, 70 FC at any service points or equipment
Telecommunications	



**Media Center Space**

Outlet (excludes outlets for AV, security, etc.):	See Additional Requirements. Wall phone next to exit door(s).
Wireless Requirements:	TW2 - 2 wireless devices per occupant (based on maximum occupancy)

**ADDITIONAL REQUIREMENTS**

The Room shall be constructed in full accordance with the PGCPs specification Division 27

**Walls**

Provide fire treated plywood 3/4 " to all walls

**Racks**

Provide equipment racks consisting of seven (7) feet high by nineteen (19) inches wide open (2-channel) equipment racks and double-sided vertical cabling managers.

Provide equipment cabinets that are thirty (30) inches wide by forty-two (42) inches deep (minimum) with 42U of internal work space. Quantity of cabinets shall be consistent for every BDF room unless noted otherwise.

Provide overhead cable management in the form of cable runway or cable tray at least twelve (12) inches wide and placed at ninety (90) inches above finished floor to coincide with the top of the equipment racks and cabinets. Define the actual size of the cable runway or cable tray based on supported cable-fill quantity. Provide proper clearance from top of ladder rack and HVAC ducting and other building support components.

Provide cable support, such as vertically installed cable runway to support cables entering the room from floor sleeves, slots, and conduit. Provide cable drop-outs where cables transition from vertical to horizontal cable management.

**Electrical**

Provide an electrical panel in IT Room. The panel shall only serve circuits within IT Room including racks, cabinets, mechanical systems, lighting, and security equipment panels. Do not feed convenience outlets from these panels. Ensure twenty percent (20%) spare breaker slots are available in panel after building occupancy acceptance. The estimated electrical load of room(s) it serves shall not exceed eighty percent (80%) of its capacity. Such panel shall remain unlocked at all times.

One 120VAC/20A (NEMA 5-200 quad electrical circuit, one 120VAC/30A (NEMA L5-30) electrical circuit and one 208VAC/30A (NEMA L6-30) electrical circuit shall be provided above each equipment rack/cabinet.

Place 120VAC/15A (NEMA 5-15) convenience outlets every six (6) feet along the walls, with a minimum of one per wall.

**Cable Management/Pathway**

Provide cable pathways for MPOE for telephone, data and Satellite dish/Cable TV connection

**BUILT-IN FIXTURES:**

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**Media Center Space**

L1 four (4) two-post network equipment racks and three (3) server cabinets, including power units (3kW per rack and 10kW per server)

**LOOSE FURNISHINGS:**

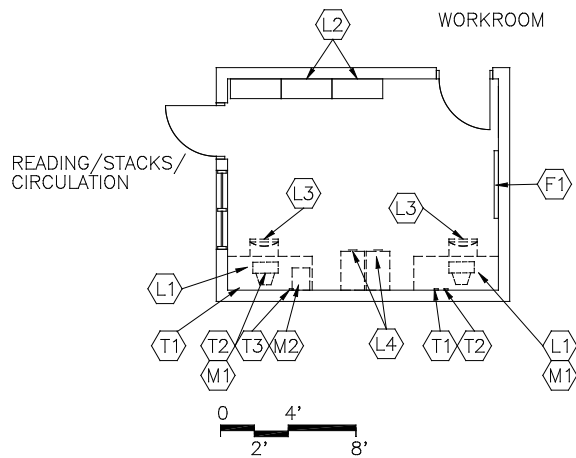
L2 Computer workstation/M1 computer

L3 Ergonomic task chair

**AUDIO VISUAL EQUIPMENT**

None

## OFFICE



### QUANTITY:

1

### CAPACITY:

Media Specialist

### SIZE:

150 SF

### SPATIAL RELATIONSHIPS:

Adjacent and access to Reading/ Stacks/ Circulation

Adjacent and access to Workroom

Near Circulation desk

### GOAL:

To provide a private work area for the media specialist, easy access to the circulation desk, media production area, and computer resource area

### PROGRAM ACTIVITIES:

- Ordering
- Scheduling
- Cooperative learning
- Administrative work (preparing budget, reports, etc.)
- Processing and repairing books, videos, discs, etc.

### SPACE REQUIREMENTS

Construction:	
Min Ceiling Height:	9'-0"
Acoustics:	AC3 - Medium Performance: Closed Office
Window shading:	S1 - Roller Shades, 5% Open
Power & Lighting	

**Media Center Space**

User Convenience (excludes outlets for AV, security, etc.):	2 duplex outlets per wall on two side walls
Lighting level	L2 - 35 FC at work surfaces
Telecommunications	
Outlet (excludes outlets for AV, security, etc.):	One standard data drop on two side walls
Wireless Requirements:	TW2 - 2 wireless devices per occupant (based on maximum occupancy)

**ADDITIONAL REQUIREMENTS**

**BUILT-IN FIXTURES:**

F1 Tack board (4 LF)

**LOOSE FURNISHINGS:**

- L1 1-2 Computer workstations
- L2 Adjustable height bookshelves (24 LF)
- L3 1-2 Ergonomic task chairs
- L4 2, 4-drawer file cabinets

Miscellaneous Equipment

- M1 Computer
- M2 Printer/ copier/ fax (optional)

**AUDIO VISUAL EQUIPMENT**

See Educational Technology Requirements

**PRODUCTION/ MULTI-MEDIA STUDIO****QUANTITY:**

1

**CAPACITY:**

4 students

1 teacher

**SIZE:**

460 SF Studio (includes 100 SF Control Room)

800 SF Lab

100 SF Storage

**SPATIAL RELATIONSHIPS:**

Accessible to and near the Library Commons

Door from the corridor

**GOAL:**

To provide a soundproof, properly lighted room for video productions, audio productions, publication purposes, and multimedia productions using computer accessories and peripherals such as scanners, digital cameras, etc.

**PROGRAM ACTIVITIES:**

Closed circuit TV production

Creative writing

Digitizing

Newspaper production

Scanning

Video creation/production

Voice over/dubbing

**SPACE REQUIREMENTS: STUDIO, CONTROL ROOM & LAB**

Construction:	
Min Ceiling Height:	10'-0"
Acoustics:	AC1 - Very High Performance: Performance or Lecture Space
Window shading:	See Additional Requirements
Power & Lighting	
User Convenience (excludes outlets for AV, security, etc.):	Powered raceway (wiremold or similar), with duplex outlets at 2' on center on two walls, duplex on other walls at twelve feet (12')
Lighting level	L6 - 40 FC ambient, 70 FC at any service points or equipment
Telecommunications	
Outlet (excludes outlets for AV, security, etc.):	One data drop on perimeter walls at max 6' on center.
Wireless Requirements:	TW1 - 1 wireless device per occupant (based on maximum occupancy)

**ADDITIONAL REQUIREMENTS**

Finishes:

**Flooring:** Studio floor shall be medium gray tiles, and the Control Room shall have VCT.

**Walls/ Ceilings:** Shall be painted flat black.

Control room glazing

Dual glass windows (typically 6' x 3') required between the studio and control room, angled for acoustics and glare

Electrical Features:

Lighting bar or grid with dimmer board in Control Room

Provide a medium duty cyclorama I-beam supplied for "walk along" operation.

Special lighting for video production

High bandwidth connection to Head-end room

HVAC Features:

Separate HVAC control from the Media Center

**BUILT-IN FIXTURES:**

Built-in Fixtures (studio/control booth):

Counter along window between and facing control room.

Dry erase board (16')

Manual projection screen or interactive white board

Hanging Green Screen

Lighting grid (apx. 12' X 12' but dependent on configuration of studio)

Built-in Fixtures (Lab):

2 Dry, white eraser-board (4' x 20' on two different walls) on track; all eraser-boards shall be installed with a marker tray, map rails with tack strip above

Clock (on side walls instead of rear walls)

Tack board (4' x 20') minimum; tack strips on all walls

Storage area

Adjustable shelving on three walls

**LOOSE FURNISHINGS:**

Loose Furnishings (Studio/Control booth) \$30,000 cap for studio equipment

Recommend a 'turnkey integrated package' to include: Audio mixer and audio and video switching equipment; Digital recording and sending equipment with ancillary microphones (3-4), and speakers

Studio cameras (2)

Studio lights (2-3)

Pod cast and tricast equipment

Anchor desk

Work table

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**Media Center Space**

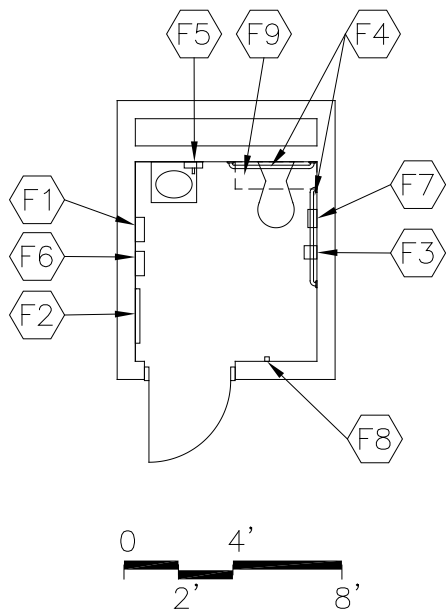
Loose Furnishings (Lab):

- 2 work table
- 2 file cabinets w/lock, 4-drawer
- 24 student chairs
- 24 student desks (trapezoid or square)
- Adjustable height bookshelves (24 LF)
- Teacher wardrobe (lockable) with coat rod; tall cabinet w/ shelving (may be one unit)
- Teacher's desk/workstation and chair

**AUDIO VISUAL EQUIPMENT**

See Educational Technology Requirements

TOILET



QUANTITY:  
1

CAPACITY:  
Up to 1 person

SIZE:  
50 SF

SPATIAL RELATIONSHIPS:  
Located within Media Center near the Office and Workroom

SPACE REQUIREMENTS

Construction:	
Min Ceiling Height:	8'-0"
Acoustics:	AC7 - Public Space
Window shading:	None
Plumbing:	
Fixture Type:	Toilet, lavatory w/sensor control faucet
Power & Lighting	
User Convenience (excludes outlets for AV, security, etc.):	GFI Duplex at lavatory, one per room
Lighting level	L7 - 25 FC ambient
Telecommunications	
Outlet (excludes outlets for AV, security, etc.):	None



**Media Center Space**

Wireless Requirements:	TW1 - 1 wireless device per occupant (based on maximum occupancy)
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**ADDITIONAL REQUIREMENTS**

**BUILT-IN FIXTURES:**

- F1 Towel dispenser
- F2 24" x 60" mirror
- F3 Toilet tissue holder
- F4 36" and 42" grab bars
- F5 Soap dispenser
- F6 Sanitary dispenser
- F7 Sanitary disposal
- F8 Coat hook
- F9 Casework: Wall cabinet

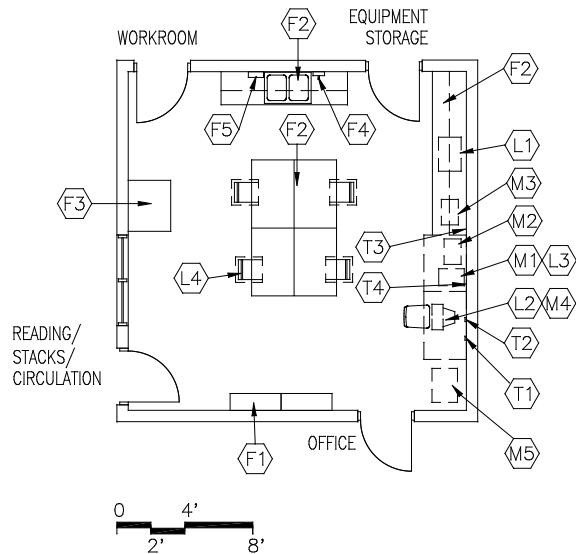
**LOOSE FURNISHINGS:**

None

**AUDIO VISUAL EQUIPMENT**

None

## WORKROOM



### QUANTITY:

1

### CAPACITY:

Media specialist  
Student assistants

### SIZE:

250 SF

### SPATIAL RELATIONSHIPS:

Adjacent and access to Office  
Adjacent and access to Reading/Stacks/Circulation  
Behind circulation desk

### GOAL:

To provide space for the management and organization of media resources and processing of incoming materials

### PROGRAM ACTIVITIES:

Receiving, processing, and duplicating library materials  
Repairing damaged or worn materials  
Scanning and digitizing

### SPACE REQUIREMENTS

Construction:	
Min Ceiling Height:	9'-0"
Acoustics:	AC3 - Medium Performance: Open Office and Workroom Office
Window shading:	S1 - Roller Shades, 5% Open

**Media Center Space**

Plumbing:	
Fixture Type:	Kitchen sink
Power & Lighting	
User Convenience (excludes outlets for AV, security, etc.):	Duplex on perimeter walls at twelve feet (12'), 2 recessed floor quad
Lighting level	L2 - 35 FC at work surfaces
Telecommunications	
Outlet (excludes outlets for AV, security, etc.):	Standard data drops on perimeter walls at max 12' on center
Wireless Requirements:	TW2 - 2 wireless devices per occupant (based on maximum occupancy)

**ADDITIONAL REQUIREMENTS**

None

**BUILT-IN FIXTURES:**

- F1 Storage shelving: video video (24 LF)
- F2 Casework: Base/wall cabinets around sink
- F3 Casework: Tall storage (36" X 22" X 84")
- F4 Soap dispenser
- F5 Towel dispenser

**LOOSE FURNISHINGS:**

- L1 Paper cutter
- L2 Computer workstation furniture
- L3 Equipment table
- L4 Admin Chair
- Teachers' Mobile Cart for Technology

**Miscellaneous Equipment:**

- M1 Fax
- M2 Printer
- M3 Scanner
- M4 Computer
- M5 Video distribution equipment

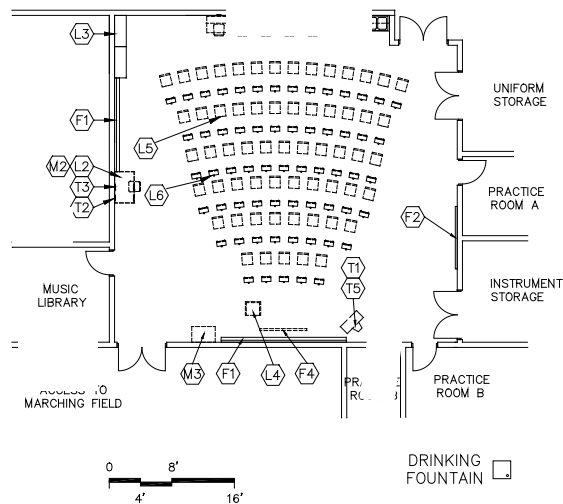
**AUDIO VISUAL EQUIPMENT**

TBD



**Performing Arts Space**

## BAND/ ORCHESTRA ROOM/DRAMA



### QUANTITY:

1

### CAPACITY:

Up to 60 students

Teacher

### SIZE:

1,800 SF (includes 100 SF office alcove)

### ANCILLARY SPACES:

Instrument Storage

Practice Rooms

### GOAL:

To serve as the learning and practice area for instrument classes

### SPATIAL RELATIONSHIPS:

Adjacent and access to Practice Rooms

Adjacent and access to Instrument Storage

### PROGRAM ACTIVITIES:

Independent study

Individual and small group practice

Jazz and chamber ensembles

Performance

Teaching and learning to read music

**SPACE REQUIREMENTS**

Construction:	
Min Ceiling Height:	14'-0"
Acoustics:	AC1 - Very High Performance: Performance or Lecture Space
Window shading:	S1A -Blinds/Shades and Manually Operated Blackout Shades
Power & Lighting	
User Convenience (excludes outlets for AV, security, etc.):	<ul style="list-style-type: none"> <li>One (1) outlet for control of the classroom projector/interactive board</li> <li>One (1) outlet for telephone at the teacher station</li> <li>One (1) outlet for the intercom system</li> <li>Two (2) outlets at the teacher station for a teacher's computing device and accessory</li> <li>Two (2) outlets for wireless network</li> <li>Four (4) outlets for student use</li> <li>Duplex on walls at twelve feet (12'), recessed floor quad at 10' on center</li> </ul>
Lighting level	L1 - 50 FC at work surfaces and teaching displays with multiple sets
Telecommunications	
Outlet (excludes outlets for AV, security, etc.):	<ul style="list-style-type: none"> <li>One (1) data outlet for control of the classroom projector/interactive board</li> <li>One (1) data outlet for telephone at the teacher station</li> <li>One (1) data outlet for the intercom system</li> <li>Two (2) data outlets, and one (1) voice outlet at the teacher station for a teacher's computing device and accessory</li> <li>Two (2) data outlets for wireless network</li> <li>One (1) data outlet for the PoE clock</li> </ul>
Sound Reinforcement	Every classroom will be wired for teacher audio enhancement and the audio system should be integrated into the intercom system. The mixed sound will be amplified and sent through the speakers (preferably ceiling mounted).
Wireless Requirements:	TW2 - 2 wireless devices per occupant (based on maximum occupancy)

**ADDITIONAL REQUIREMENTS**

8' high double doors throughout this area - no mullions  
 Non-parallel surfaces (walls/ceiling) for acoustical benefits  
 Sound proof HVAC system (under 35 dBa)  
 Sound seals on doors  
 Uniform multi-level lighting

**BUILT-IN FIXTURES:**

F1 Marker board (24 LF)- 1/2 with staff lines  
 F2 Tack board (12-16 LF)  
 F3 Casework: Base/wall cabinets (8 LF)  
 F4 Interactive White board

Clock (on side walls instead of rear walls)

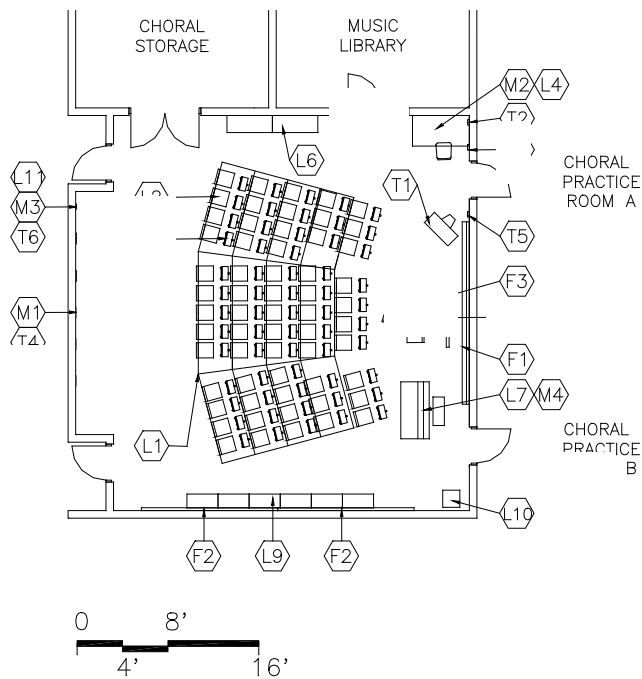
**LOOSE FURNISHINGS:**

- L2 Teacher desk and chair
- L3 Sheet music cabinet (150 concert sized folio capacity)
- L4 Conductors podium/stand/chair
- L5 60 Music posture chairs
- L6 60 music stands
- Teacher wardrobe (lockable) with coat rod; tall cabinet w/ shelving (may be one unit)
- Sound recording equipment cart
- Teachers' Mobile Cart for Technology
- M3 Band/orchestra sound system  
with sound recording/editing equipment and microphone connection

**AUDIO VISUAL EQUIPMENT**

See Educational Technology Requirements

## CHORAL/ KEYBOARD/ GUITAR ROOM



### QUANTITY:

1

### CAPACITY:

Up to 40 students

Teacher

### SIZE:

1,400 SF

### ANCILLARY SPACES:

Choral Storage

### GOAL:

To provide a space that will serve as the learning/ practice area for choral, keyboard, and guitar classes

### PROGRAM ACTIVITIES:

Practice for sectional groups

Rehearsals

Solos



**SPACE REQUIREMENTS**

Construction:	
Min Ceiling Height:	14'-0"
Acoustics:	AC1 - Very High Performance: Performance or Lecture Space
Window shading:	S1A -Blinds/Shades and Manually Operated Blackout Shades
Power & Lighting	
User Convenience (excludes outlets for AV, security, etc.):	<ul style="list-style-type: none"> <li>One (1) outlet for control of the classroom projector/interactive board</li> <li>One (1) outlet for telephone at the teacher station</li> <li>One (1) outlet for the intercom system</li> <li>Two (2) outlets at the teacher station for a teacher's computing device and accessory</li> <li>Two (2) outlets for wireless network</li> <li>Four (4) outlets for student use</li> <li>Duplex on walls at twelve feet (12'), recessed floor quad at 10' on center</li> </ul>
Lighting level	L1 - 50 FC at work surfaces and teaching displays with multiple sets
Telecommunications	
Outlet (excludes outlets for AV, security, etc.):	<ul style="list-style-type: none"> <li>One (1) data outlet for control of the classroom projector/interactive board</li> <li>One (1) data outlet for telephone at the teacher station</li> <li>One (1) data outlet for the intercom system</li> <li>Two (2) data outlets, and one (1) voice outlet at the teacher station for a teacher's computing device and accessory</li> <li>Two (2) data outlets for wireless network</li> <li>One (1) data outlet for the PoE clock</li> </ul>
Sound Reinforcement	Every classroom will be wired for teacher audio enhancement and the audio system should be integrated into the intercom system. The mixed sound will be amplified and sent through the speakers (preferably ceiling mounted).
Wireless Requirements:	TW2 - 2 wireless devices per occupant (based on maximum occupancy)

**ADDITIONAL REQUIREMENTS**

Higher than normal ceiling height, possibly sloped  
 Non-parallel surfaces (walls/ceiling) for acoustical benefits  
 Quiet HVAC system (under 35 dBa)  
 Sound seals on doors

**BUILT-IN FIXTURES:**

F1 Marker board (24 LF)- 1/2 with staff lines  
 F2 Tack board (16 LF minimum)  
 F3 Interactive White board  
 Clock (on side walls instead of rear walls)

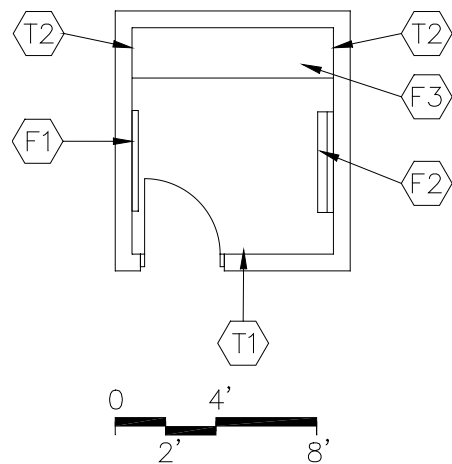
**LOOSE FURNISHINGS:**

- L1 Portable standing choral risers
- L2 40 musical posture chairs
- L4 Teacher desk and chair
- L5 Conductor's podium, chair, and stand
- L6 Sheet music cabinet (150 concert sized folio capacity)
- L7 Upright digital piano
- L8 40 music stands
- L9 Adjustable height bookshelves (48 LF)
- L10 Sound recording/editing equipment cabinet
- L11 Printer table
- M3 Printer
- 15 music keyboard tables
- Teachers' Mobile Cart for Technology

**AUDIO VISUAL EQUIPMENT**

See Educational Technology Requirements

CHORAL PRACTICE ROOM



**QUANTITY:**  
2

**CAPACITY:**  
Up to 3 students  
Teacher

**SIZE:**  
100 SF

**SPATIAL RELATIONSHIP:**  
Adjacent and access to Choral Room

**GOAL:**  
To provide an area for individual student practice and rehearsals

**PROGRAM ACTIVITY:**  
Practice/rehearsals

**SPACE REQUIREMENTS**

Construction:	
Min Ceiling Height:	9'-0"
Acoustics:	AC1 - Very High Performance: Performance or Lecture Space
Window shading:	None
Power & Lighting	
User Convenience (excludes outlets for AV, security, etc.):	2 duplex per wall on three of four walls
Lighting level	L2 - 35 FC at work surfaces
Telecommunications	
Outlet (excludes outlets for AV, security, etc.):	Two (2) data drop per wall on one wall.

Wireless Requirements:	TW2 - 2 wireless devices per occupant (based on maximum occupancy)
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**ADDITIONAL REQUIREMENTS**

**BUILT-IN FIXTURES:**

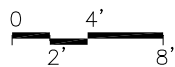
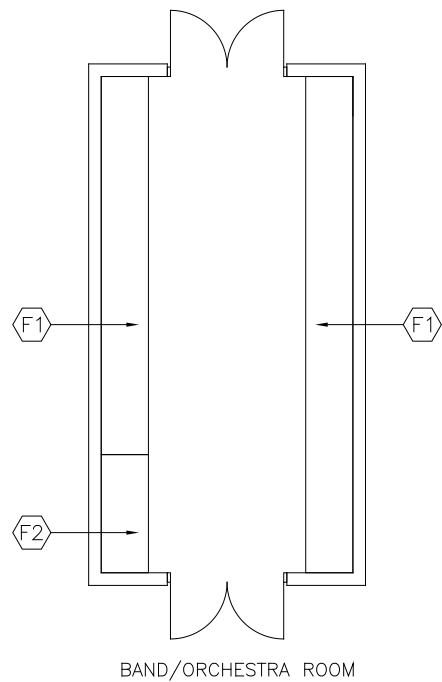
- F1 Tack board (4 LF)
- F2 Marker board (4 LF)
- F3 Casework: Base cabinets (6 LF)
- Electronic keyboard
- Clock

**LOOSE FURNISHINGS:**

**AUDIO VISUAL EQUIPMENT**

See Educational Technology Requirements

INSTRUMENT STORAGE



QUANTITY:

1

SIZE:

350 SF

SPATIAL RELATIONSHIP:

- Adjacent and access to Band/Orchestra Room
- Provide entrance and separate exit to the Band/Orchestra Room

GOAL:

- To provide secure and adequate storage for instruments

PROGRAM ACTIVITY:

- Storage of instruments

SPACE REQUIREMENTS

Construction:	
Min Ceiling Height:	9'-0"
Acoustics:	AC8 - Utility Space
Window shading:	None
Power & Lighting	

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**Performing Arts Space**

User Convenience (excludes outlets for AV, security, etc.):	Duplex on perimeter walls, min one per wall
Lighting level	L6 - 40 FC ambient, 70 FC at any service points or equipment
Telecommunications	
Outlet (excludes outlets for AV, security, etc.):	None
Wireless Requirements:	TW1 - 1 wireless device per occupant (based on maximum occupancy)

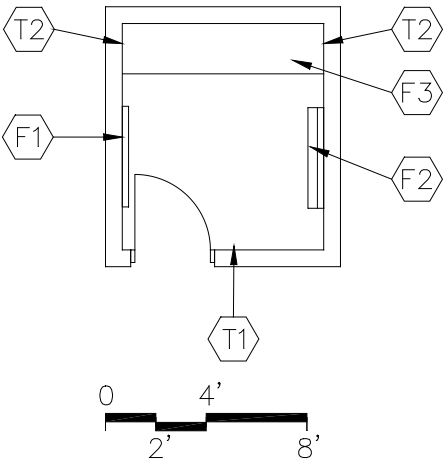
**ADDITIONAL REQUIREMENTS****BUILT-IN FIXTURES:**

- F1 Storage shelving: Instrument storage w/ open grille doors
- F2 Casework: Tall cabinets

**LOOSE FURNISHINGS:****AUDIO VISUAL EQUIPMENT**

None

INSTRUMENTAL PRACTICE ROOMS



QUANTITY:  
2

CAPACITY:  
Up to 3 students  
Teacher

SIZE:  
80 SF

SPATIAL RELATIONSHIP:  
Adjacent and access to Band/Orchestra Room  
May be modular

GOAL:  
To provide an area for individual student practice and rehearsals

PROGRAM ACTIVITY:  
Instrumental practice/rehearsals

SPACE REQUIREMENTS

Construction:	
Min Ceiling Height:	9'-0"
Acoustics:	AC1 - Very High Performance: Performance or Lecture Space
Window shading:	None
Power & Lighting	
User Convenience (excludes outlets for AV, security, etc.):	2 duplex per wall on three of four walls
Lighting level	L2 - 35 FC at work surfaces
Telecommunications	

**Performing Arts Space**

Outlet (excludes outlets for AV, security, etc.):	Two (2) data drop per wall on one wall.
Wireless Requirements:	TW2 - 2 wireless devices per occupant (based on maximum occupancy)

**ADDITIONAL REQUIREMENTS**

**BUILT-IN FIXTURES:**

- F1 Tack board (4 LF)
- F2 Marker board (4 LF)
- F3 Casework: Base cabinets (6 LF) (optional)
- Clock

**LOOSE FURNISHINGS:**

**AUDIO VISUAL EQUIPMENT**

See Educational Technology Requirements



**STAGE****QUANTITY:**

1

**SIZE:**

1,200 SF

**ANCILLARY SPACES:**

Shared Classroom/ Stage Support Space

**SPATIAL RELATIONSHIPS:**

Adjacent to Cafeteria/ Multi-purpose Room or Gymnasium

**GOAL:**

To provide space for student performances, guest speakers, assembly presentations

**SPACE REQUIREMENTS**

Construction:	
Min Ceiling Height:	See Additional Requirements
Acoustics:	AC1 - Very High Performance: Performance or Lecture Space
Window shading:	None
Power & Lighting	
User Convenience (excludes outlets for AV, security, etc.):	Duplex convenience outlets at twelve feet (12') on perimeter walls Stage power and lighting, including recessed floor boxes at stage
Lighting level	See Additional Requirements
Telecommunications	
Outlet (excludes outlets for AV, security, etc.):	Two (2) data drop per wall on one wall.
Wireless Requirements:	TW2 - 2 wireless devices per occupant (based on maximum occupancy)

**ADDITIONAL REQUIREMENTS**

Stage shall open on to Cafeteria or gymnasium with a proscenium opening

Provide access to stage from the cafeteria or gymnasium floor level, including stairs and wheelchair lift. Stairs and lift shall be recessed or otherwise placed to not encroach on to cafeteria footprint.

Stage ceiling height shall allow for full clear height for lights, curtain and scrim above the stage level

Flooring shall be wood or comparable stage material, ceilings shall be open, acoustically treated

Provide housekeeping lighting with a minimum level of 25 fc

**BUILT-IN FIXTURES:**

Motorized projection screen

Theater and stage equipment (lights, curtain, scrim)

Mobile folding risers for 40 students

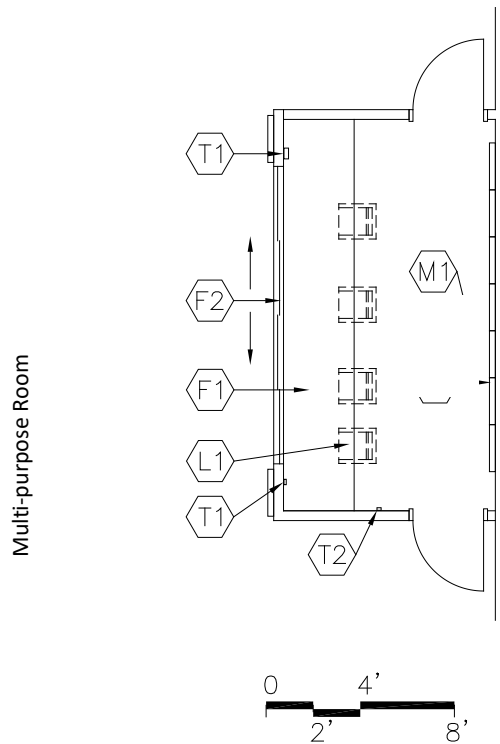
**LOOSE FURNISHINGS:**

Podium  
Upright piano

**AUDIO VISUAL EQUIPMENT**

See Educational Technology Requirements

## STAGE SOUND AND LIGHT CONTROL



### QUANTITY:

1

### SIZE:

75 SF

### ANCILLARY SPACES:

Cafeteria/Multi-purpose Room

### SPATIAL RELATIONSHIPS:

Facing stage

Adjacent to Cafeteria/ Multi-purpose Room or Gymnasium

### GOAL:

To provide space for the equipment needed to operate the sound, lighting, and projection equipment for the stage

### PROGRAM ACTIVITIES:

Operation of the technical support for performances

Teaching of Technical Theater

**SPACE REQUIREMENTS**

Construction:	
Min Ceiling Height:	10'-0"
Acoustics:	AC1 - Very High Performance: Performance or Lecture Space
Window shading:	See Additional Requirements
Power & Lighting	
User Convenience (excludes outlets for AV, security, etc.):	Powered raceway (wiremold or similar), with duplex outlets at 2' on center on two walls, duplex on other walls at twelve feet (12')
Lighting level	L6 - 40 FC ambient, 70 FC at any service points or equipment
Telecommunications	
Outlet (excludes outlets for AV, security, etc.):	One data drop on perimeter walls at max 6' on center.
Wireless Requirements:	TW1 - 1 wireless device per occupant (based on maximum occupancy)

**ADDITIONAL REQUIREMENTS**

Unobstructed view of stage at all times  
 Task lighting  
 Electrical outlets for equipment  
 Sliding glass windows, angled for acoustics and glare  
 Handicapped accessible  
 Intercom connection to stage manager station and stage wings

**BUILT-IN FIXTURES:**

F1 Casework: 36" deep plastic laminate counter top

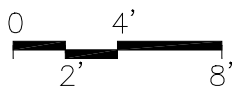
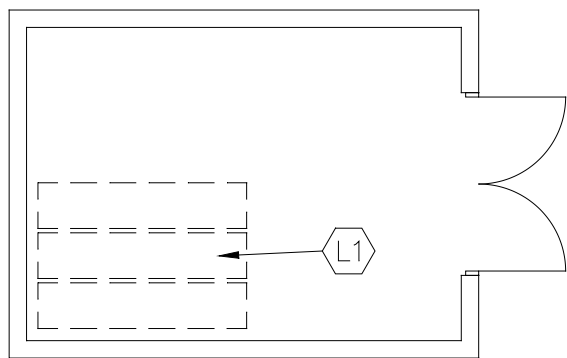
**LOOSE FURNISHINGS:**

L1 Three student stools

**AUDIO VISUAL EQUIPMENT**

See Educational Technology Requirements

STAGE STORAGE



QUANTITY:

1

SIZE:

170 SF

SPATIAL RELATIONSHIP:

- Access from stage
- Near/ adjacent to Shared Classroom/ Stage Support Space

GOAL:

To provide a secure area for storing the piano and other stage props

SPACE REQUIREMENTS

Construction:	
Min Ceiling Height:	9'-0"
Acoustics:	AC8 - Utility Space
Window shading:	None
Power & Lighting	
User Convenience (excludes outlets for AV, security, etc.):	Duplex on perimeter walls, min one per wall
Lighting level	L6 - 40 FC ambient, 70 FC at any service points or equipment
Telecommunications	
Outlet (excludes outlets for AV, security, etc.):	None
Wireless Requirements:	TW1 - 1 wireless device per occupant (based on maximum occupancy)

ADDITIONAL REQUIREMENTS

---

**Performing Arts Space**

Smooth transition from stage to prevent piano jarring  
Wide double door opening

**BUILT-IN FIXTURES:**

None

**LOOSE FURNISHINGS:**

None

**AUDIO VISUAL EQUIPMENT**

None

**DANCE STUDIO****QUANTITY:**

1

**CAPACITY:**

25 Students

1 Teachers

**SIZE:**

1,800 SF

**ANCILLARY SPACES:**

Near PE Locker Rooms&gt;Showers

Near stage

**GOAL:**

To support the Dance program

**PROGRAM ACTIVITIES:**

Ballet

Ethnic Dance

Modern Dance

Tap Dance

**SPACE REQUIREMENTS**

Construction:	
Min Ceiling Height:	25'-0"
Acoustics:	AC1 - Very High Performance: Performance or Lecture Space
Window shading:	S1A -Blinds/Shades and Manually Operated Blackout Shades
Power & Lighting	
User Convenience (excludes outlets for AV, security, etc.):	<ul style="list-style-type: none"> <li>One (1) outlet for control of the classroom projector/interactive board</li> <li>One (1) outlet for telephone at the teacher station</li> <li>One (1) outlet for the intercom system</li> <li>Two (2) outlets at the teacher station for a teacher's computing device and accessory</li> <li>Two (2) outlets for wireless network</li> <li>Four (4) outlets for student use</li> <li>Duplex on walls at twelve feet (12'), recessed floor quad at 10' on center</li> </ul>
Lighting level	L1 - 50 FC at work surfaces and teaching displays with multiple sets
Telecommunications	
Outlet (excludes outlets for AV, security, etc.):	<ul style="list-style-type: none"> <li>One (1) data outlet for control of the classroom projector/interactive board</li> </ul>

---

**Performing Arts Space**

	<ul style="list-style-type: none"> <li>• One (1) data outlet for telephone at the teacher station</li> <li>• One (1) data outlet for the intercom system</li> <li>• Two (2) data outlets, and one (1) voice outlet at the teacher station for a teacher's computing device and accessory</li> <li>• Two (2) data outlets for wireless network</li> <li>• One (1) data outlet for the PoE clock</li> </ul>
Sound Reinforcement	Every classroom will be wired for teacher audio enhancement and the audio system should be integrated into the intercom system. The mixed sound will be amplified and sent through the speakers (preferably ceiling mounted).
Wireless Requirements:	TW2 - 2 wireless devices per occupant (based on maximum occupancy)

**ADDITIONAL REQUIREMENTS**

Adequate ventilation and ceiling fans  
 Ceiling Height (25' Minimum)  
 Drinking fountain in adjacent corridor  
 Electrical outlets for equipment  
 Flexibility of space  
 High windows to provide natural light is desirable  
 Multi-level lighting

Finishes:

Flooring:

Wooden floating sub floor

**BUILT-IN FIXTURES:**

Mirrors (6' high 6" from floor)  
 Tack board (16 LF) outside room  
 Marker board (16 LF) with electric outlet below  
 Ceiling fans  
 Student storage and bench near door (cubbies)  
 Adjustable/removable Barres (range 32"-34" up to 44"-46" from floor)

**AUDIO VISUAL EQUIPMENT**

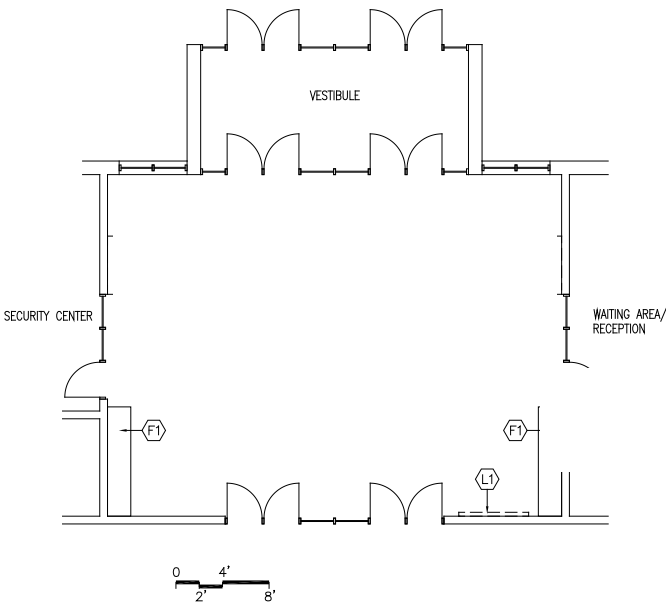
See Educational Technology Requirements



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Physical Education Space

LOBBY



QUANTITY:

1

CAPACITY:

NA

SIZE:

1,000 SF

SPATIAL RELATIONSHIP:

- Adjacent and access to Gymnasium
- Access to group toilets
- Water Fountain
- Awning outside door for gathering during inclement weather

GOAL:

To provide a standing area before games and events.

SPACE REQUIREMENTS

Construction:	
Min Ceiling Height:	12'
Acoustics:	AC7 - Public Space
Power & Lighting	
User Convenience (excludes outlets for AV, security, etc.):	Duplex on perimeter walls at twelve feet (12'). One outlet per CCTV camera position
Lighting level	L5 - 25 FC ambient with focus lighting areas
Telecommunications	

**Physical Education Space**

Outlet (excludes outlets for AV, security, etc.):	None
Wireless Requirements:	TW2 - 2 wireless devices per occupant (based on maximum occupancy)

**ADDITIONAL REQUIREMENTS**

**BUILT-IN FIXTURES:**

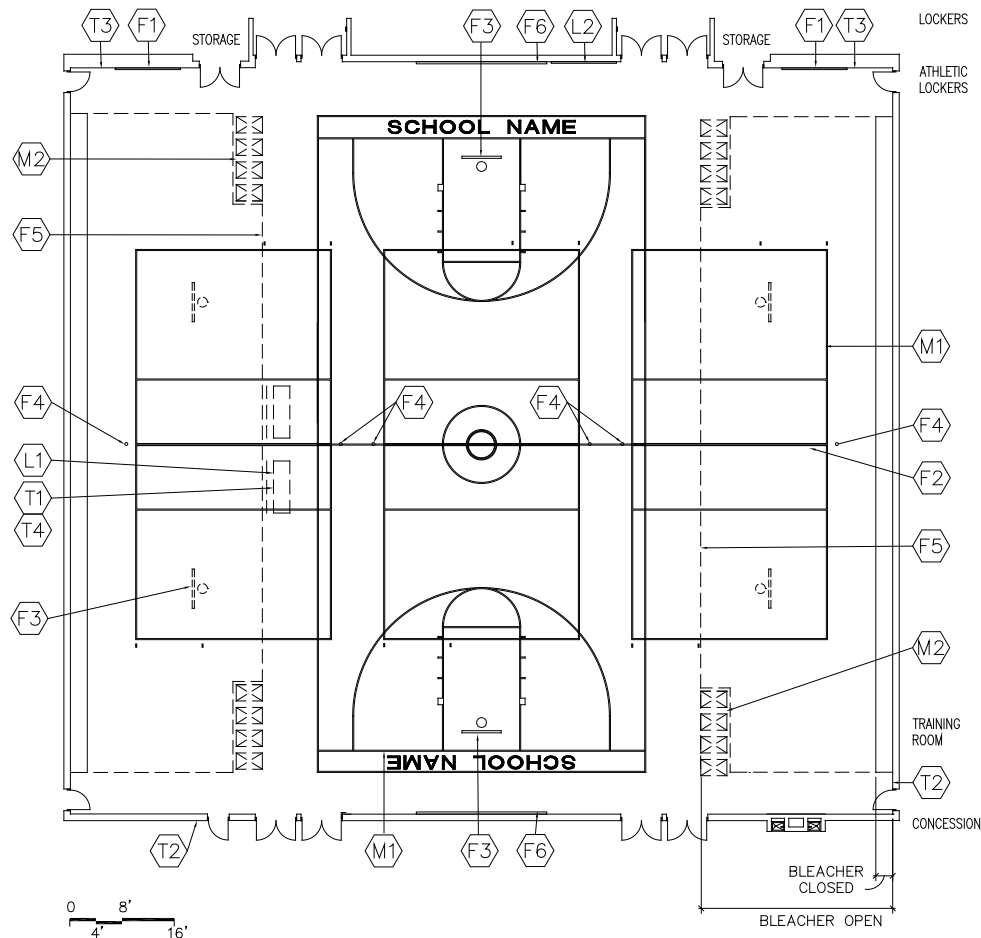
- F1 Display cases
- L1 Electronic board
- Security desk/counter with workstation (optional)

**LOOSE FURNISHINGS:**

**AUDIO VISUAL EQUIPMENT**

See Educational Technology Requirements

GYMNASIUM



QUANTITY:

1

CAPACITY:

50-600 Students  
2-4 Teachers

SIZE:

5,800 SF  
2,400 SF Bleachers

ANCILLARY SPACES:

PE Locker Rooms/Showers  
Storage

SPATIAL RELATIONSHIPS:

Direct access to outdoor athletic fields  
Near visitor parking and public

**PROGRAM ACTIVITIES:**

Community programs and activities, secured  
 Interscholastic competition and daily practices  
 Physical education classes

**SPACE REQUIREMENTS**

Construction:	
Min Ceiling Height:	25'-0" Full Clear height with no obstructions
Acoustics:	See Additional Requirements
Window shading:	S1A -Blinds/Shades and Manually Operated Blackout Shades
Plumbing:	
Fixture Type:	Drinking fountain in adjacent corridor
Power & Lighting	
User Convenience (excludes outlets for AV, security, etc.):	Duplex on walls at twelve feet (12')
Lighting level	See Additional Requirements
Telecommunications	
Outlet (excludes outlets for AV, security, etc.):	One data drop on perimeter walls at max 12' on center.
Wireless Requirements:	TW2 - 2 wireless devices per occupant (based on maximum occupancy)

**ADDITIONAL REQUIREMENTS**

Clear height of 25' from floor to nearest obstruction  
 Drinking fountain in adjacent corridor  
 Environmental sound control:  
 Wall minimum: STC 60 between gymnasium and any acoustically sensitive space such as classroom or office. In addition, design space to minimize transmission of impact noise  
 Maximum RT 60 (reverberation) of 1.5 seconds  
 Must be able to isolate the gymnasium from the rest of the school after hours  
 The architect shall work with the coach for specific location for data drop.  
 The walls and ceilings will require acoustical treatment.  
 Uniform lighting with multilevel controls

Finishes:

Flooring:

Wood strip flooring for athletic applications

M1 Court markings (minimum)

Basketball court (main/cross courts)

Volleyball court (main/cross courts)

Tennis court (cross courts)

The gymnasium includes a 50 x 94 ft. basketball court with 6' safety perimeter on the sides and 8' safety perimeter on the ends.

Must be able to isolate the gymnasium from the rest of the school after hours

Gymnasium Lighting

**BUILT-IN FIXTURES:**

A quality P/A sound system to service the gymnasium shall be provided.

Clock (with protective cage)

Padding on walls behind the goals and on the backboards shall be provided.

Provide block outs for three sets of volleyball standards and nets.

Provide dividing curtain to create two basketball courts when the bleachers are withdrawn

Some tack strips on the walls are required to fasten banners.

The bleacher seating shall be electrically operated & fold back to provide a flat surface.

The gymnasium will require a multi-sport scoreboard.

The gymnasium will require Glass lexan basketball backboard (2), with break-away rims, forward swing, main court, Fiberglass basketball backboard (4), forward swing, side, cross court. Each backboard (6) is to be raised and lowered electrically and shall retract away from bleachers.

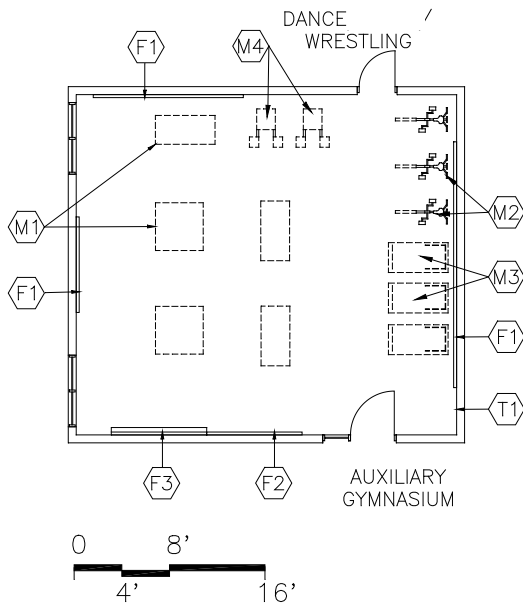
Two white boards with electrical outlets on either side of the curtain.

**LOOSE FURNISHINGS:**

**AUDIO VISUAL EQUIPMENT**

See Educational Technology Requirements

## WELLNESS LAB



### QUANTITY:

1

### CAPACITY:

25 Students

1 Teachers

### SIZE:

900 SF

### GOAL:

To serve as a wellness/workout area for the health curriculum

### PROGRAM ACTIVITIES:

Physical education classes learning to develop muscular, respiratory, and cardiovascular systems

Community and staff members learning to develop and maintain health and fitness

### SPACE REQUIREMENTS

Construction:	
Min Ceiling Height:	9'-0"
Acoustics:	AC7 - Public Space
Window shading:	S1 - Roller Shades, 5% Open
Plumbing:	
Fixture Type:	Drinking fountain, water bottle filling station
Power & Lighting	
User Convenience (excludes outlets for AV, security, etc.):	Outlets in numbers, and spaced as needed for equipment.
Lighting level	L8 - 15 FC ambient

---

**Physical Education Space**

Telecommunications	
Outlet (excludes outlets for AV, security, etc.):	One (1) data drop and one (1) duplex data outlet per floor box (15 per room).
Wireless Requirements:	TW1 - 1 wireless device per occupant (based on maximum occupancy)

**ADDITIONAL REQUIREMENTS**

Adequate ventilation  
Electrical outlets for equipment  
Flexibility of space  
Windows to provide natural light

Finishes:

Flooring:

Resilient athletic flooring

**BUILT-IN FIXTURES:**

F1 Mirrors  
F2 Tack board (8 LF)  
F3 Marker board (8 LF) with electric outlet  
Ceiling fans

**LOOSE FURNISHINGS:**

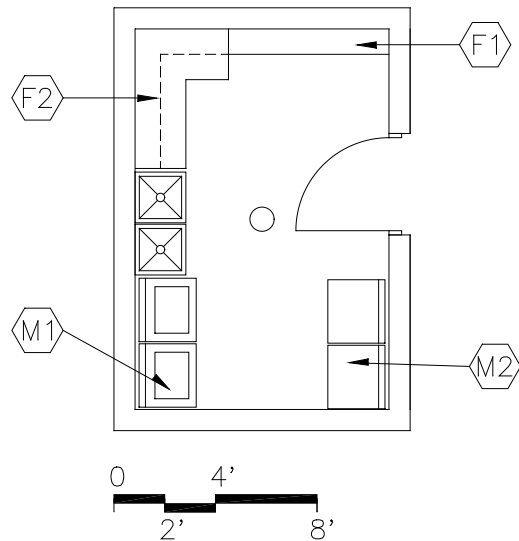
M1 Exercise equipment (See Appendix D)  
M2-3 Aerobic Equipment (See Appendix D)

**AUDIO VISUAL EQUIPMENT**

See Educational Technology Requirements



**LAUNDRY**



**QUANTITY:**

1

**CAPACITY:**

1-2 Teachers

**SIZE:**

100 SF

**SPATIAL RELATIONSHIPS:**

Near PE Locker Room/Showers  
Near Athletic Lockers

**GOAL:**

To provide space to wash/dry athletic/PE garments, towels, etc.

**PROGRAM ACTIVITY:**

Washing and drying clothes

**SPACE REQUIREMENTS**

Construction:	
Min Ceiling Height:	9'-0"
Acoustics:	AC7 - Public Space
Plumbing:	
Fixture Type:	Utility sink
Piped services:	Potable hot & cold water, natural gas for driers, laundry hook-up
Special drains:	Floor drains; floors slope to drain
Power & Lighting	

---

**Physical Education Space**

User Convenience (excludes outlets for AV, security, etc.):	As needed for laundry equipment
Power density:	PW4 - 8W/ASF
Lighting level	L6 - 40 FC ambient, 70 FC at any service points or equipment
Lighting control	LC6 - Workrooms / Utility
Telecommunications	
Outlet (excludes outlets for AV, security, etc.):	None
Wireless Requirements:	TW1 - 1 wireless device per occupant (based on maximum occupancy)
<b>SPECIALTIES</b>	
Special features:	Built in base cabinet and work counter, 30" deep, 8' min length, paper towel holder, soap dispenser

**ADDITIONAL REQUIREMENTS**

Adequate ventilation/exhaust

**BUILT-IN FIXTURES:**

- F1 Rust-resistant 12" deep shelving
- F2 Casework: Base/wall cabinets and shelving

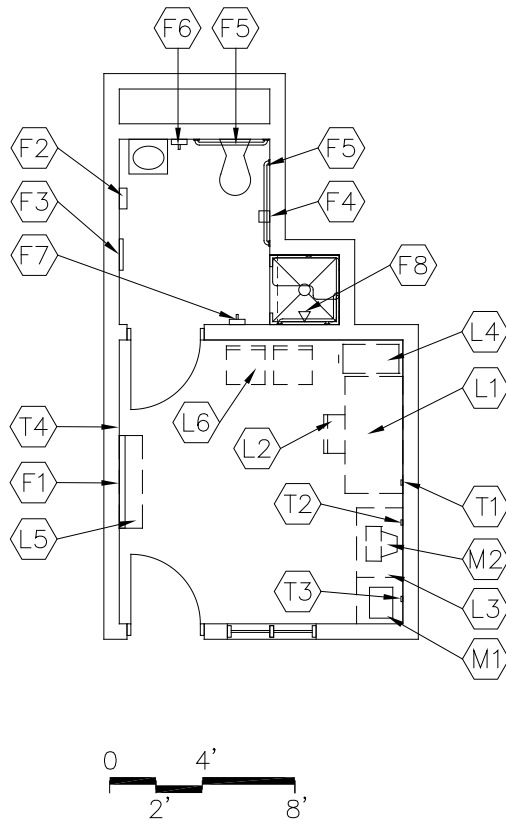
**LOOSE FURNISHINGS:**

- M1 Heavy Duty washers (1)
- M2 Heavy Duty dryers (1)
- Ice machine

**AUDIO VISUAL EQUIPMENT**

None

**OFFICES (DEPARTMENT/ ATHLETIC)**



**QUANTITY:**

3

**CAPACITY:**

1-2 Teachers  
Visitors

**SIZE:**

150 SF (including toilet/shower)

**SPATIAL RELATIONSHIP:**

Near Locker Rooms/Shower  
Window and door into the locker rooms (with shades)

**GOAL:**

To provide a work area for physical education teachers and staff to conduct administrative duties

**PROGRAM ACTIVITIES:**

Meeting  
Ordering  
Planning  
Scheduling

**SPACE REQUIREMENTS**

Construction:	
Min Ceiling Height:	9'-0"
Acoustics:	AC3 - Medium Performance: Closed Office
Window shading:	S1 - Roller Shades, 5% Open
Plumbing:	
Fixture Type:	Lavatory and Water Closet
Power & Lighting	
User Convenience (excludes outlets for AV, security, etc.):	2 duplex per wall on three of four walls in the office, single GFI/Shaver outlet in restroom
Lighting level	L2 - 35 FC at work surfaces
Telecommunications	
Outlet (excludes outlets for AV, security, etc.):	One standard data drop on two walls
Wireless Requirements:	TW2 - 2 wireless devices per occupant (based on maximum occupancy)
ADDITIONAL REQUIREMENTS	
The office must be directly connected to a single-user restroom (Restroom: Gender Inclusive w/shower). Assignable Area includes both office space (180 ASF) and restroom space (50 ASF)	

**ADDITIONAL REQUIREMENTS****BUILT-IN FIXTURES:**

- F1 Tack board (4 LF)
- F2 Towel dispenser
- F3 24" x 60" mirror
- F4 Toilet tissue holder
- F5 36" and 42" grab bars
- F6 Soap dispenser
- F7 Towel rack

**LOOSE FURNISHINGS:**

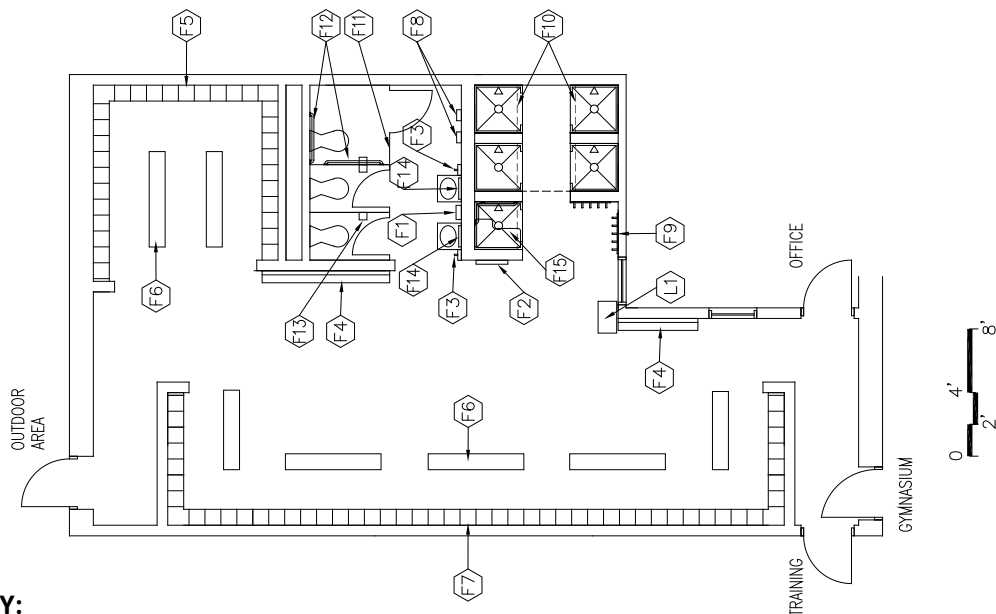
- L1 Desk
- L2 Ergonomic task chair
- L3 Computer workstation
- L4 4-drawer file cabinet
- L5 Adjustable height bookshelves (12 LF)
- L6 Guest chairs
- Teachers' Mobile Cart for Technology
- Miscellaneous Equipment (provided by owner):
  - M1 Printer
  - M2 Computer for teacher use

**AUDIO VISUAL EQUIPMENT**

See Educational Technology Requirements



PE LOCKER ROOM/SHOWERS



**QUANTITY:**  
2

**CAPACITY:**  
50 Students  
1 Teachers

**SIZE:**  
850 SF

**ANCILLARY SPACES:**  
Adjacent and access to Gymnasium

**SPATIAL RELATIONSHIP:**  
Near Locker Rooms/Showers  
Window and door into the locker rooms (with shades)

**GOAL:**  
To provide a safe and clean area for students to change, store clothes, and shower

**PROGRAM ACTIVITIES:**  
Change clothing  
Clothing storage  
Showering

**SPACE REQUIREMENTS**

Construction:	
Min Ceiling Height:	9'-0"
Acoustics:	AC7 - Public Space

---

**Physical Education Space**

<b>Power &amp; Lighting</b>	
User Convenience (excludes outlets for AV, security, etc.):	1 duplex outlet per sink
Lighting level	L7 - 25 FC ambient
<b>Telecommunications</b>	
Outlet (excludes outlets for AV, security, etc.):	One standard data drop per room
Wireless Requirements:	
<b>SPECIALTIES</b>	
Special features:	Partitions between changing areas

**ADDITIONAL REQUIREMENTS**

Adequate ventilation/exhaust  
 Cleanable building surfaces  
 Humidity controls  
 Locate lockers on wall outside of toilet shower room  
 Minimize isolated areas  
 Temperature controls in each area  
 Towel storage in adjacent area

**BUILT-IN FIXTURES:**

F1 Towel dispenser  
 F2 24" x 60" mirror  
 F3 Soap dispenser  
 F4 Narrow counter with mirror above  
 F5 Athletic lockers (30 athletic)  
 F6 Locker benches  
 F7 Athletic lockers (50 Phys Ed)  
 F8 Hand dryer  
 F9 Towel hooks  
 F10 Shower curtain and rod  
 F11 Toilet partitions  
 F12 36" x 42" grab bars  
 F13 Toilet tissue holders  
 F14 16" x 24" mirror  
 F15 ADA shower accessories (note: 2-3 individual showers)

**LOOSE FURNISHINGS:**

None

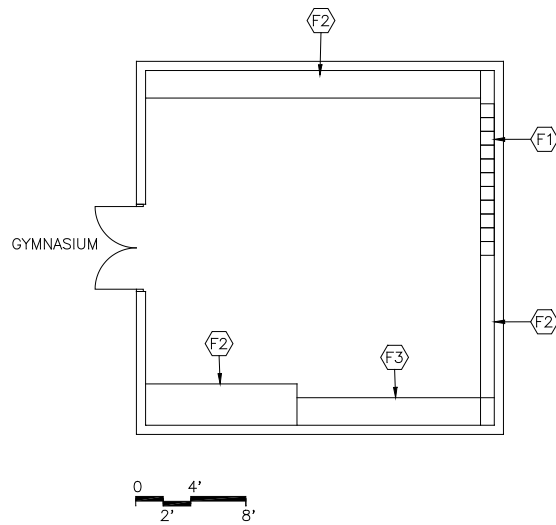
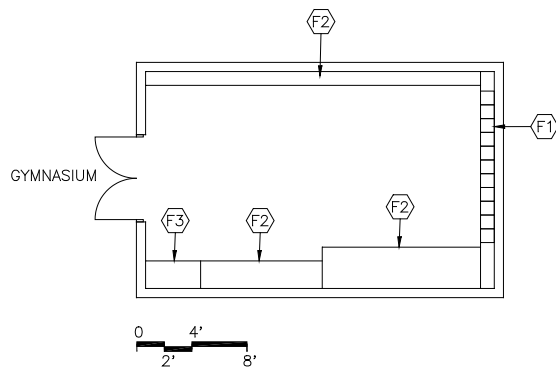
**AUDIO VISUAL EQUIPMENT**

See Educational Technology Requirements





## STORAGE



### QUANTITY:

3

### SIZE:

Varies (900 SF total)

### SPATIAL RELATIONSHIPS:

Adjacent and access to Gymnasium

Adjacent and access to Auxiliary Gymnasium (may be used for JROTC uniform storage)

Near PE areas

### GOAL:

To provide space to adequately store PE and athletic equipment (PE and athletic equipment needs to be stored separately)

### PROGRAM ACTIVITIES:

Storage for equipment

Storing sound system and other equipment in the physical education/athletic area

**SPACE REQUIREMENTS**

Construction:	
Min Ceiling Height:	9'-0"
Acoustics:	AC8 - Utility Space
Power & Lighting	
User Convenience (excludes outlets for AV, security, etc.):	Duplex on perimeter walls, min one per wall
Lighting level	L6 - 40 FC ambient, 70 FC at any service points or equipment
Telecommunications	
Outlet (excludes outlets for AV, security, etc.):	None
Wireless Requirements:	TW1 - 1 wireless device per occupant (based on maximum occupancy)

**ADDITIONAL REQUIREMENTS**

Climate control to dry uniforms and other equipment which get wet during use

Electrical outlets for equipment

Provide secure storage

Separate storage areas for inactive sports, physical education, and athletics

**BUILT-IN FIXTURES:**

F1 Pegboard

F2 12" shelving

F3 18" shelving

**LOOSE FURNISHINGS:****AUDIO VISUAL EQUIPMENT**

None

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**Student Dining/ Food Services Space**

**Student Dining & Food Service Space**

This area will be used for student dining, group activities, and community meetings. It is proposed through creative design that this area will effectively house multiple functions.

**Space Requirements**

Adjacency Requirements

Centrally located to Administration, Gymnasium, Main Academic, and Media Center

Near parking and main entry to building

**General**

The developer shall design and construct a complete and fully functional food service facility to serve up to 1,000 meals per mealtime, with 400 seated at any one time.

Food service shall be from multiple counters in a single food service area ("food court" style), with check-out Point of Sale (POS) positions at the exit from the food service area

The kitchen and food service shall be able to be closed off from the dining room/commons with lockable doors or grilles. Physical closure shall allow for community use of the dining room/commons concurrently with food preparation and/or food service preparation without disruption by noise, odors, etc.

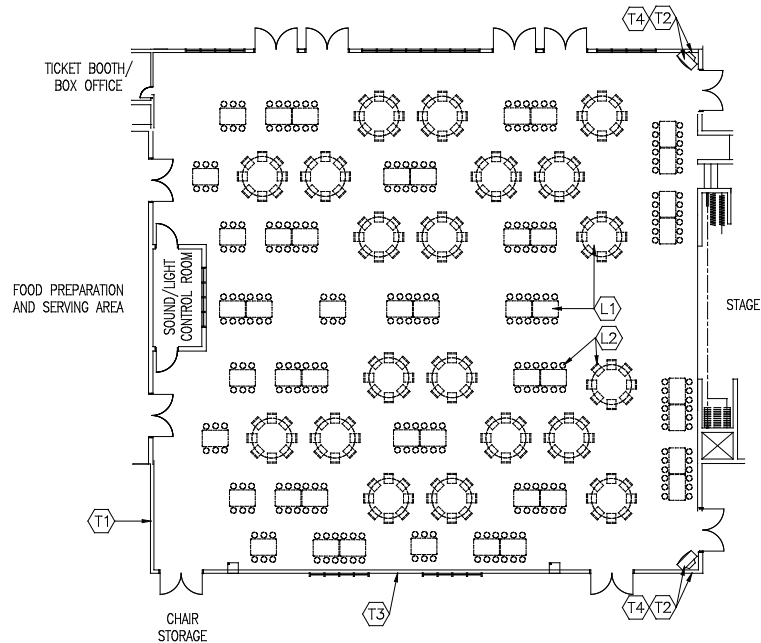
The cafeteria and serving lines shall be well lit with natural and artificial light. The ceiling height shall be balanced with the overall volume (14' minimum) and treated acoustically.

Provide a variety of seating options, including outside seating.

Provide electrical outlets for charging mobile devices around the room

Provide at least 2 permanently mounted, white boards and electrical outlets for mobile projectors would support 'break-out' discussions

## CAFETERIA / COMMONS



### CAPACITY:

Up to 400 people for meals

Up to 600 people for auditorium seating

### SIZE:

6,000 SF

### GOALS:

To provide a pleasant atmosphere for students to eat meals

To provide a flexible meeting space for groups if needed

### SPATIAL RELATIONSHIPS:

Adjacent and access to Kitchen

Centrally located to Administration, Gymnasium, Main Academic, and Media Center

Near parking and main entry to building

### SPACE REQUIREMENTS

Construction:	
Min Ceiling Height:	18'-0"
Acoustics:	AC7 - Public Space
Power & Lighting	
User Convenience (excludes outlets for AV, security, etc.):	
Lighting level	L5 - 25 FC ambient with focus lighting areas
Telecommunications	

---

**Student Dining/ Food Services Space**

Outlet (excludes outlets for AV, security, etc.):	One data drop on perimeter walls at max 12' on center
Wireless Requirements:	TW2 - 2 wireless devices per occupant (based on maximum occupancy)

**ADDITIONAL REQUIREMENTS**

Adjust space and materials to manage acoustics; provide sound system

Adjustable lighting

Cleanable building surfaces

Good sight lines to all areas of the room for supervision

Proportion ceiling to volume

Window treatment to darken room for AV presentations.

Windows to provide ample natural light

Good sight lines to all areas of the room for supervision

Identify 2 locations for presentations for up to 100 people (screen and electricity barrier-free)

Identify location and electricity for satellite salad bar w/ cash register

**BUILT-IN FIXTURES:****LOOSE FURNISHINGS:**

L1/2 Foldable Tables with attached seating (variety of shapes and heights) Consider some high top and bench seating

Portable sound system

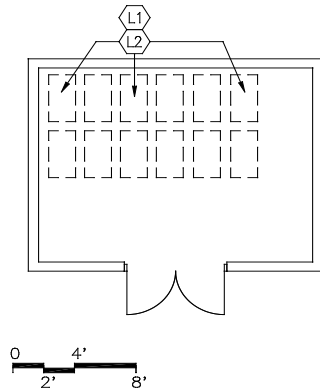
Waste receptacles with lids

Recycling bins

**AUDIO VISUAL EQUIPMENT**

See Educational Technology Requirements

## CHAIR/ TABLE STORAGE



### QUANTITY:

1

### CAPACITY:

600 Chairs

### SIZE:

600 SF

### SPATIAL RELATIONSHIPS:

Adjacent and access to Student Dining Area/Multipurpose

### GOAL:

To provide convenient storage of dining chairs and tables to be used for meetings and performances

### PROGRAM ACTIVITY:

Storage

### SPACE REQUIREMENTS

Construction:	
Min Ceiling Height:	9'-0"
Acoustics:	AC8 - Utility Space
Power & Lighting	
User Convenience (excludes outlets for AV, security, etc.):	Duplex on perimeter walls, min one per wall
Lighting level	L6 - 40 FC ambient, 70 FC at any service points or equipment
Telecommunications	
Outlet (excludes outlets for AV, security, etc.):	None

**Student Dining/ Food Services Space**

Wireless Requirements:	TW1 - 1 wireless device per occupant (based on maximum occupancy)
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**ADDITIONAL REQUIREMENTS**

None

**BUILT-IN FIXTURES:**

None

**LOOSE FURNISHINGS:**

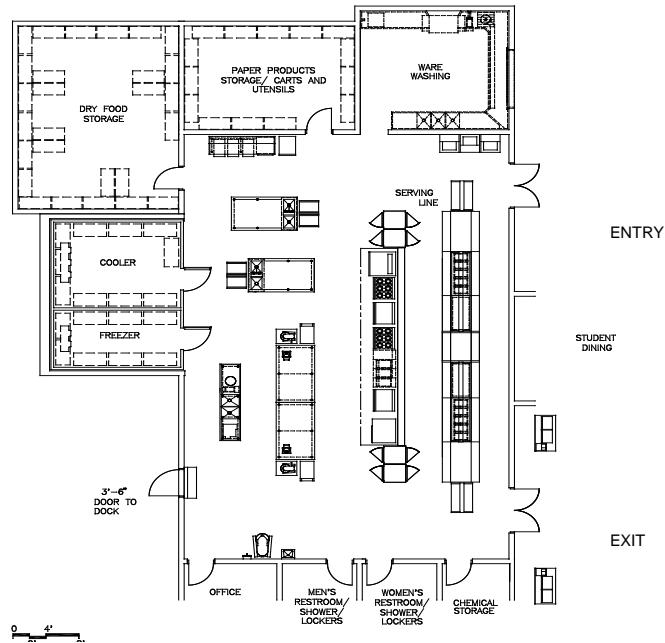
- L1 600 Stackable Chairs
- L2 Chair dollies per above count

**AUDIO VISUAL EQUIPMENT**

None

**Student Dining/ Food Services Space**

**KITCHEN**



**QUANTITY:**

1

**CAPACITY:**

Up to 12 People

**SIZE:**

2,000 SF

**GOAL:**

To prepare and serve student meals (80% of 1200=960)

**PROGRAM ACTIVITIES:**

Preparing and serving food to students and staff  
Storage

**SPATIAL RELATIONSHIPS:**

Adjacent and access to Cafeteria/Commons  
Adjacent and access to Outdoor Loading Dock

**SPACE REQUIREMENTS**

See requirements included in Technical Performance Requirement

Features-(Specifications from PGCPs):

Kitchen



---

**Student Dining/ Food Services Space**

Food Preparation Area	900
Dry Food Storage	400
Freezer & Cooler	300
Pot/Tray Washing	300
Paper storage	100

**Plumbing Features:**

- Connections to food service equipment
- Floor drains
- Hand washing lavatory
- Plumbing and gas connections

**HVAC Features:**

- Air conditioning
- Independent temperature control
- Kitchen canopy exhaust system
- Supply/return air system

**ADDITIONAL REQUIREMENTS**

- Adequate ventilation
- Beginning of serving line should be located near entry door of Cafeteria/Commons
- Cleanable building surfaces
- Food service department, public health, code requirements, as applicable
- Queuing for serving should not conflict with tray return to dishwashing area.
- Uniform lighting

**BUILT-IN FIXTURES:**

- Hand Sink (5)
- Soap & Towel Dispenser (5)
- Walk in Cooler/Freezer
- Cooler Refrigeration System
- Freezer Refrigeration System
- Prep Sink
- Floor Trough
- Tilting Skillet 30-Gallon
- Comb Oven
- Convection Oven (2)
- Counters for serving with Cashier's Stand (3)
- Pot Washing Sink

**LOOSE FURNISHINGS:**

- Utility carts mobile (3)
- Dunnage Rack (3)
- Mobile shelving (14)
- Can Rack (2)

---

**Student Dining/ Food Services Space**

Worktables (3)

Reach In refrigerator (2)

Pass thru refrigerator, mobile (3)

Pass thru heated cabinet, mobile (3)

Milk cooler, mobile (3)

Refrigerated display (3)

Condiment Counter, mobile (2)

Pot and Pan shelving, mobile (2)

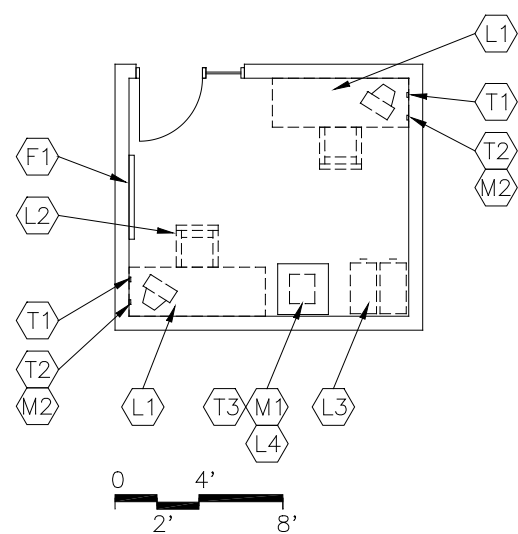
Railings for service lines (3)

Note: Model and vendor will be reviewed with kitchen consultant

**AUDIO VISUAL EQUIPMENT**

None

OFFICE



QUANTITY:

1

CAPACITY:

Up to 2 people

SIZE:

120 SF

SPATIAL RELATIONSHIPS:

Adjacent and visual to Kitchen or Receiving area

GOAL:

To provide an office for the staff to perform clerical functions

PROGRAM ACTIVITIES:

- Computer input
- Conferences with staff and other visitors
- Paperwork
- Planning
- Telephone calls

SPACE REQUIREMENTS

Construction:	
Min Ceiling Height:	9'-0"
Acoustics:	AC3 - Medium Performance: Closed Office
Window shading:	S1 - Roller Shades, 5% Open

---

**Student Dining/ Food Services Space**

<b>Power &amp; Lighting</b>	
User Convenience (excludes outlets for AV, security, etc.):	2 duplex per wall on three of four walls
Lighting level	L2 - 35 FC at work surfaces
<b>Telecommunications</b>	
Outlet (excludes outlets for AV, security, etc.):	One standard data drop on two side walls
Wireless Requirements:	TW2 - 2 wireless devices per occupant (based on maximum occupancy)

**ADDITIONAL REQUIREMENTS****BUILT-IN FIXTURES:**

F1 Tack board

**LOOSE FURNISHINGS:**

L1 1-2 desks

L2 1-2 ergonomic task chairs

L3 2 4-drawer file cabinets

L4 Printer table

Guest chair

Miscellaneous Equipment (provided by owner):

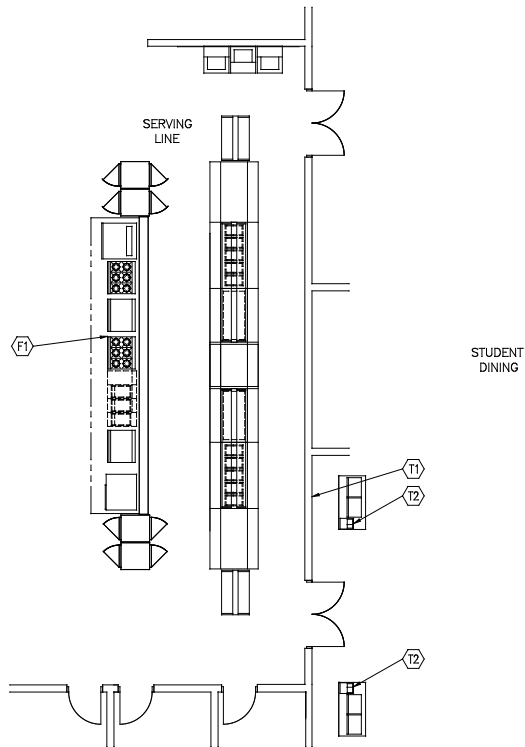
M1 Printer

M2 Computer

**AUDIO VISUAL EQUIPMENT**

See Educational Technology Requirements

## SERVING AREA



### QUANTITY:

1

### SIZE:

1,000 SF

### SPATIAL RELATIONSHIPS:

Adjacent and access to the Kitchen

Adjacent and access to the Cafeteria/ Commons

### GOAL:

To provide space and equipment to serve student meals

### PROGRAM ACTIVITIES:

Serve food

### SPACE REQUIREMENTS

Identify location and electricity for satellite salad bar w/ cash register. Provide plumbing, power and data infrastructure to support future development. Plumbing shall include provision of hot and cold water service, sanitary waste and vent to proposed location, capped in a floor box or knock-out.

---

**Student Dining/ Food Services Space**

Power shall include provision of empty conduit home run to panelboard and inclusion of four spaces in the panelboard. Data shall include provision of empty conduit to base building raceway.

**DESIGN GUIDE:**

'Food court' serving lines: TBD

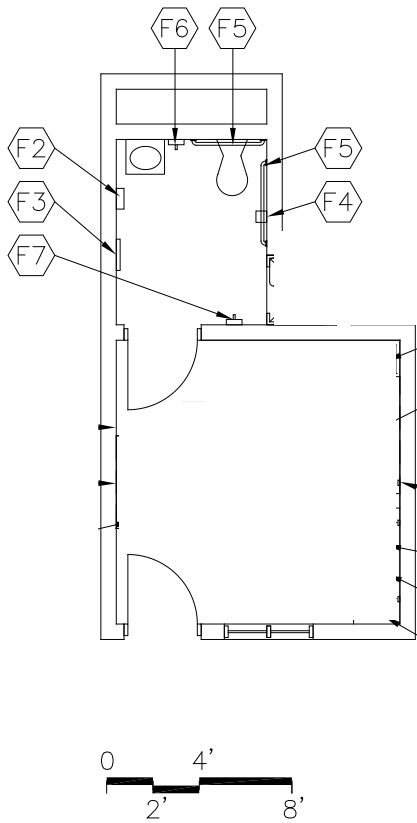
All lines have drinks and misc. items

Sample Lines and equipment needs below:



- Additional satellite services may be able to provide a salad bar or pre-made items

**TOILET/ LOCKER AREA**



**QUANTITY:**

2

**CAPACITY:**

Kitchen Staff: Separate Male and Female rooms

**SIZE:**

100 SF

**SPATIAL RELATIONSHIP:**

Adjacent to Kitchen/ Serving Area

**GOAL:**

To provide an area for kitchen staff to change and clean-up before and after work.

**PROGRAM ACTIVITIES:**

Changing  
Resting

---

**Student Dining/ Food Services Space**
**SPACE REQUIREMENTS**

Construction:	
Min Ceiling Height:	9'-0"
Acoustics:	AC3 - Medium Performance: Closed Office
Plumbing:	
Fixture Type:	Lavatory and Water Closet
Power & Lighting	
User Convenience (excludes outlets for AV, security, etc.):	2 duplex per wall on three of four walls in the office, single GFI/Shaver outlet in restroom
Lighting level	L2 - 35 FC at work surfaces
Telecommunications	
Outlet (excludes outlets for AV, security, etc.):	One standard data drop on two walls
Wireless Requirements:	TW2 - 2 wireless devices per occupant (based on maximum occupancy)
ADDITIONAL REQUIREMENTS	
The office must be directly connected to a single-user restroom (Restroom: Gender Inclusive w/shower). Assignable Area includes both office space (180 ASF) and restroom space (50 ASF)	

**ADDITIONAL REQUIREMENTS****BUILT-IN FIXTURES:**

- F2 Towel dispenser
- F3 24" x 60" mirror
- F4 Toilet tissue holder
- F5 36" and 42" grab bars
- F6 Soap dispenser
- F7 Towel rack

**LOOSE FURNISHINGS:**

Benches and lockable lockers

**AUDIO VISUAL EQUIPMENT**

None



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**Visual Arts Space**

**MULTI-PURPOSE STUDIO****QUANTITY:**

2

**CAPACITY:**

28 Students

1 Staff member

**SIZE:**

1,300 SF

**ANCILLARY SPACES:**

Storage

**GOAL:**

To provide a learning environment where students can learn two dimensional art and create their own art pieces

**PROGRAM ACTIVITIES:**

Art history and culture  
 Computer graphics and internet access  
 Cooperative group work  
 Drawing/Painting  
 Viewing of slides/DVDs

Note: Second art room may be 3D, graphics, or other medium

**SPACE REQUIREMENTS**

Construction:	
Min Ceiling Height:	10'-0"
Acoustics:	AC5 - Labs and Workshops
Window shading:	S1A -Blinds/Shades and Manually Operated Blackout Shades
Power & Lighting	
User Convenience (excludes outlets for AV, security, etc.):	<ul style="list-style-type: none"> <li>One (1) outlet for control of the classroom projector/interactive board</li> <li>One (1) outlet for telephone at the teacher station</li> <li>One (1) outlet for the intercom system</li> <li>Two (2) outlets at the teacher station for a teacher's computing device and accessory</li> <li>Two (2) outlets for wireless network</li> <li>Four (4) outlets for student use</li> </ul> Duplex on walls at twelve feet (12'), recessed floor quad at 10' on center
Lighting level	L1 - 50 FC at work surfaces and teaching displays with multiple sets
Telecommunications	

Outlet (excludes outlets for AV, security, etc.):	<ul style="list-style-type: none"> <li>One (1) data outlet for control of the classroom projector/interactive board</li> <li>One (1) data outlet for telephone at the teacher station</li> <li>One (1) data outlet for the intercom system</li> <li>Two (2) data outlets, and one (1) voice outlet at the teacher station for a teacher's computing device and accessory</li> <li>Two (2) data outlets for wireless network</li> </ul>
Wireless Requirements:	One (1) data outlet for the PoE clock TW2 - 2 wireless devices per occupant (based on maximum occupancy)

**ADDITIONAL REQUIREMENTS****Access**

Studios shall have clear path of travel to exterior loading areas to allow for movement of large or heavy objects. For planning purposes, largest object size to be accommodated shall be 4' x 4' in plan and 7' in height. Access to exterior may be from second floor via elevator

**Daylighting**

Studios shall be oriented to provide maximum north light daylighting. Ceiling height and glazing shall be such as to provide a minimum of 10 footcandles (fc) and a maximum of 500 fc in a clear sky condition on September 21 at 9 a.m. and 3 p.m. for the full floor area.

**Plumbing**

Provide sink with hot and cold water, one island to hold four sinks, (54" x 54") overall dimensions, each sink cabinet bases with two sink bowls. Each sink bowl should be ten (10") deep x thirty-two (32") across and sixteen (16") wide with one faucet, each having a hot and cold water faucet.

Provide storage with shelves below sinks in cabinets with a minimum of 2-drawers on each side. Provide clay and plaster traps at each sink.

**Lighting**

Provide full spectrum adjustable ambient lighting

Provide track lighting on three of four walls. Each track shall support four (4) controllable circuits. Individual light fixtures shall be owner supplied and installed with the first display set.

**BUILT-IN FIXTURES:**

Marker board (16 LF)

Tack board (12-24 LF)

Tack strip on all walls at two heights (or trackable surface)

Casework: Base/wall cabinets and shelving

Paper storage

Vertical files (30" x 40" work)

Towel and soap dispenser

**LOOSE FURNISHINGS:**

7 worktables (seat 4)

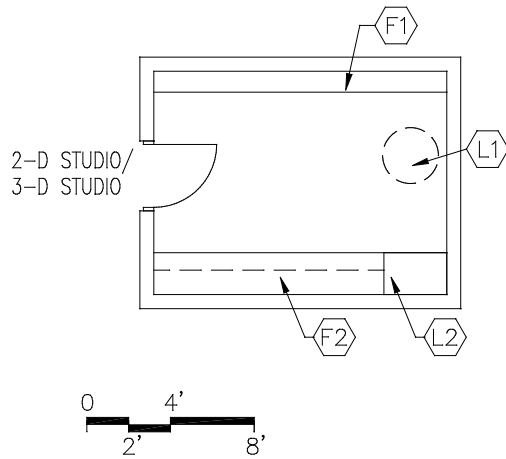
4 Computer workstations (MACs)

28 stools  
Adjustable height bookshelves (24 LF)  
Project storage lockers (60 lockers for 3D and 2D)  
Teacher desk and chair  
Cabinets w/ drying racks  
Movable art display panels  
Light table  
Extra worktable

**AUDIO VISUAL EQUIPMENT**

See Educational Technology Requirements

## KILN ROOM



### QUANTITY:

1

### SIZE:

100 SF

### SPATIAL RELATIONSHIPS:

Adjacent and access to 3-D Studio

### GOAL:

To provide a space to fire and store completed clay work and clay bins

### PROGRAM ACTIVITIES:

Firing the kiln  
Storing ceramics work

### SPACE REQUIREMENTS

Construction:	
Min Ceiling Height:	10'-0"
Acoustics:	AC5 - Labs and Workshops
Power & Lighting	
User Convenience (excludes outlets for AV, security, etc.):	Duplex on walls at twelve feet (12')
Lighting level	L1 - 50 FC at work surfaces and teaching displays with multiple sets
Telecommunications	
Outlet (excludes outlets for AV, security, etc.):	One data drop on one wall
Wireless Requirements:	TW2 - 2 wireless devices per occupant (based on maximum occupancy)

**ADDITIONAL REQUIREMENTS**

This room will house the ceramic kilns for firing. A supply of moist clay in 50-pound boxes will be kept there. Two portable clay containers and the clay supply cart will be parked in this room. Projects ready for firing will be stored to dry on adjustable metal shelving located around the room. The storage of kiln shelves, shelf supports, cones, and kiln wash will be kept in a cabinet. A shop-type vacuum cleaner will be stored here. Above the kiln will be an exhaust ventilation hood adequate for effective ventilation direct to the outside when the kiln is in use. This door should have a lock with key. A damp cabinet should be placed in this room. The kiln room serves as both the kiln room and the supply storage.

Provide a heat exhaust system for the kiln room, including a canopy exhaust hood over kiln location and adequate make-up air supply to maintain acceptable room pressurization, temperature and humidity.

Provide storage racks to hold

- A supply of moist clay in 50-pound boxes
- Portable clay containers and the clay supply cart
- Projects ready for firing (greenware)
- Kiln shelves, shelf supports, cones, and kiln wash
- A damp cabinet should be placed in this room.

**BUILT-IN FIXTURES:**

- F1 Storage shelving (12" deep)
- F2 Casework: Base/wall cabinets and shelving

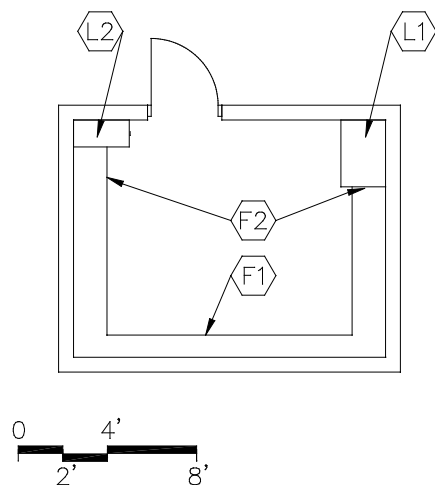
**LOOSE FURNISHINGS:**

- L1 2 Kiln
- L2 Greenware shelving

**AUDIO VISUAL EQUIPMENT**

None

STORAGE



QUANTITY:

2

SIZE:

200 SF

SPATIAL RELATIONSHIPS:

Adjacent and access to 3-D Studio

GOAL:

To provide secure and adequate space to store art supplies, portable equipment, technology peripherals, and materials

PROGRAM ACTIVITIES:

Storage of equipment, supplies, and projects

SPACE REQUIREMENTS

Construction:	
Min Ceiling Height:	9'-0"
Acoustics:	AC8 - Utility Space
Window shading:	None
Power & Lighting	
User Convenience (excludes outlets for AV, security, etc.):	Duplex on perimeter walls, min one per wall
Lighting level	L6 - 40 FC ambient, 70 FC at any service points or equipment
Telecommunications	
Outlet (excludes outlets for AV, security, etc.):	None

Wireless Requirements:	TW1 - 1 wireless device per occupant (based on maximum occupancy)
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**ADDITIONAL REQUIREMENTS**

**BUILT-IN FIXTURES:**

- F1 Storage shelving (12" deep)
- F2 Storage shelving (18" deep)

**LOOSE FURNISHINGS:**

- L1 Greenware Shelving
- L2 4-drawer file cabinet (legal)

**AUDIO VISUAL EQUIPMENT**

None



**Athletic Fields Space Specifications****A. GENERAL**

1. Provide 1 multipurpose field as a minimum. Optimum site development should include 1 softball field and 1 baseball field as well.
3. Provide grading of fields with a 1 percent to 1-1/2 percent slope.

**B. SOFTBALL FIELD**

1. Provide 200 feet to 225 feet softball field radius. See Figure B-1.
2. Provide a backstop having a 17-foot 6-inch overhang height and a 10-foot high by 20-foot wide back panel with 10-foot wide side panels. Locate backstop a minimum of 25 feet and a maximum of 30 feet behind home plate.
3. Provide 6-foot high chain link player protection fence when separate field is included.
4. Consider 8-foot high chain link outfield fencing, foul poles, and top rail protective pad for competition fields when separate field is included.
5. Provide player benches (2 X 60 LF), set back from side fence line.

**C. MULTIPURPOSE FIELD**

1. Grading is to crown at center of field and slope to sidelines.
2. Consider future underdrains and irrigation.
3. Provide portable or combination football/soccer goals.
4. Provide 195 feet wide by 360 feet long multipurpose field.
5. Provide player benches (2 X 60 LF), Spectator seating (120 LF)

**D. BASEBALL FIELD**

1. Verify radius required based on program use of field. Estimate of area needed is based on 360' radius to center field and 335' to right and left outfield.
2. Plan for infield area in compliance with High School Athletic Association guidelines.
3. Plan for 24-foot high backstop a minimum of 60 feet from home plate.
4. Plan for a protection fence that is 6-foot high chain link fence offset 60 feet from first and third base lines.

5. Consider outfield fencing that is 8-foot high chain link fence with top rail protective pad between foul lines for competition fields. Plan for foul poles.
6. Provide player benches (2 X 60 LF), set back from side fence line.
7. Provide room for future bleacher seating at competition fields.

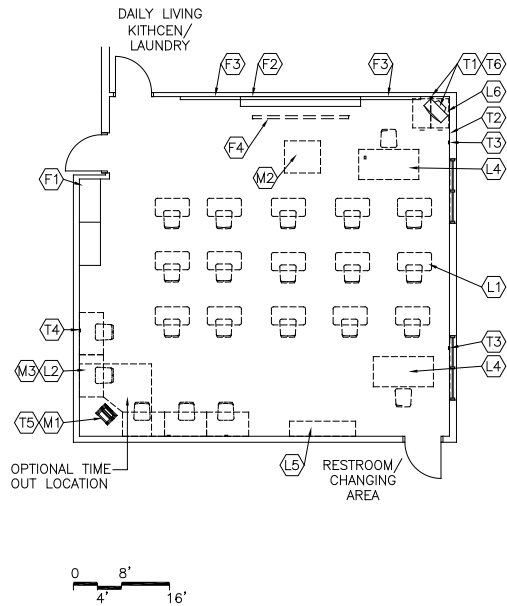
### Generic Language for all Autism Programs (Kenmoor, Hyattsville, Drew Freeman, Southern Area MS)

PGCPS offers a continuum of services to students with special needs. To the extent possible students are educated in their home school using co-teaching, occasional 'pull-out' focused on intervention, or self-contained classroom settings. The number of students and range of teaching options may vary from year to year and all classrooms should be designed to accommodate all students regardless of their disabilities.

Special education facilities will be integrated throughout the school to support the concepts of inclusion and the specialized requirements for the students. Special attention will be given to accessibility of all facilities and an integrated learning program.

This school will serve students with Autism in a self-contained environment. Their classrooms and support spaces should be in a quiet area of the school (or wing) but not be completely isolated from the regular school population. The learning environment should minimize extreme light conditions, noise from equipment, and dramatic colors. The architect should work with staff to identify alternative seating options.

Space	Design Guideline			Comments
	Qty.	Sq.Ft.	Total	
Classrooms	3	800	2,400	Two classrooms will have a movable wall; provide a half wall around the perimeter to allow for staff desks – see staff for details
	1	900	900	With toilet
Sensory Room	1	600	600	
Independent Support Room	1	200	200	
Office	1	140	140	Coordinator and Itinerant
Conference Room	1	300	300	
Toilets	2	50	100	
Total			4,640	
TOTAL # of SRC Rooms	4			

**SPECIAL NEEDS CLASSROOM/STUDIO****QUANTITY:**

- 3 generic classrooms
- 1 classroom with toilet

**CAPACITY:**

- 2 or more staff
- 10 to 15 students

**SIZE:**

800-900 SF

**SPATIAL RELATIONSHIPS:**

- Accessible ingress/egress to the building and classroom
- One per grade level community

**GOAL:**

- To provide a safe, accessible, and comfortable learning environment for students who are physically, mentally or emotionally challenged
- To provide classroom space and a flexible, specially-adapted learning environment that will meet the needs of students who have exhibited a need for more functional/ intensive services

**PROGRAM ACTIVITIES:**

- Independent work
- Individual instruction
- Small group work

**SPACE REQUIREMENTS**

Construction:	
Min Ceiling Height:	10'-0"
Acoustics:	AC2 - High Performance: Conference Room or Confidential Space
Window shading:	S1A -Blinds/Shades and Manually Operated Blackout Shades
Power & Lighting	
User Convenience (excludes outlets for AV, security, etc.):	<ul style="list-style-type: none"> <li>One (1) outlet for control of the classroom projector/interactive board</li> <li>One (1) outlet for telephone at the teacher station</li> <li>One (1) outlet for the intercom system</li> <li>Two (2) outlets at the teacher station for a teacher's computing device and accessory</li> <li>Two (2) outlets for wireless network</li> <li>Four (4) outlets for student use</li> <li>Additional twenty (20) ampere circuit, or additional as required, to support computers, printer, and typical classroom equipment shall be in each classroom. Electrical outlets shall be placed on teaching walls at min six feet (6') on center and on other walls at twelve feet (12').</li> </ul>
Lighting level	L1 - 50 FC at work surfaces and teaching displays with multiple sets
Telecommunications	
Outlet (excludes outlets for AV, security, etc.):	<ul style="list-style-type: none"> <li>One (1) data outlet for control of the classroom projector/interactive board</li> <li>One (1) data outlet for telephone at the teacher station</li> <li>One (1) data outlet for the intercom system</li> <li>Two (2) data outlets, and one (1) voice outlet at the teacher station for a teacher's computing device and accessory</li> <li>Two (2) data outlets for wireless network</li> <li>One (1) data outlet for the PoE clock</li> </ul>
Sound Reinforcement	Every classroom will be wired for teacher audio enhancement and the audio system should be integrated into the intercom system. The mixed sound will be amplified and sent through the speakers (preferably ceiling mounted).
Wireless Requirements:	TW2 - 2 wireless devices per occupant (based on maximum occupancy)

**ADDITIONAL REQUIREMENTS**

In one of the programmed classrooms, provide a toilet room complying with the requirements of Data Sheet for Gender Inclusive Restroom within the programmed area of the classroom with door opening directly to classroom

Comfortable rooms with pleasant décor that contribute to an atmosphere conducive to creativity

**BUILT-IN FIXTURES:**

2 Dry, white eraser-board (4' x 20' on two different walls) on track; all eraser-boards shall be installed with a marker tray, map rails with tack strip above

Clock (on side walls instead of rear walls)

Tack board (4' x 20') minimum; tack strips on all walls

**LOOSE FURNISHINGS:**

L1 10 Student desks/tables and chairs

L2 3-5 Computer workstations (optional)

L3 Printer table

L4 Teacher desk/workstation and chair

L4 Workstation and chair for co-teacher/aide

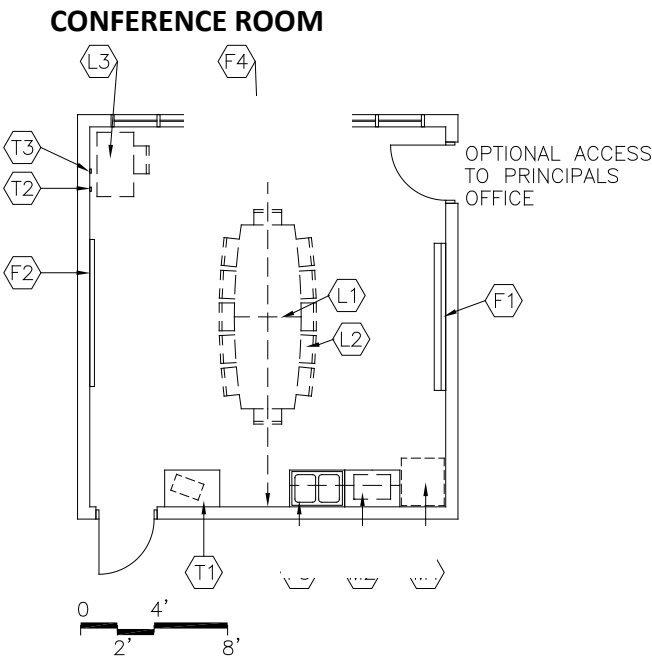
L5 Adjustable height bookshelves (24 LF)

L6 2, file cabinets w/ lock, 4-drawer

1 Lockable teacher wardrobe with coat rod; tall cabinet w/ shelving (may be one unit)

**AUDIO VISUAL EQUIPMENT**

See Educational Technology Requirements



**QUANTITY:**

1

**CAPACITY:**

Up to 20 people

**SIZE:**

300 SF

**SPATIAL RELATIONSHIPS:**

In administrative suite

**GOAL:**

To provide an area adequate for small and medium group conferences

**PROGRAM ACTIVITY:**

Meetings/conferences  
Staff collaboration

**SPACE REQUIREMENTS**

Construction:	
Min Ceiling Height:	9'-0"
Acoustics:	AC2 - High Performance: Conference Room or Confidential Space
Window shading:	S1A -Blinds/Shades and Manually Operated Blackout Shades
Power & Lighting	
User Convenience (excludes outlets for AV, security, etc.):	Duplex on perimeter walls at twelve feet (12'), 2 recessed floor quad

Lighting level	L3 - 35 FC at work surfaces and walls
Telecommunications	
Outlet (excludes outlets for AV, security, etc.):	1 standard data drop on two walls and 1 recessed floor box with standard (2) data outlets
Wireless Requirements:	TW2 - 2 wireless devices per occupant (based on maximum occupancy)
SPECIALTIES	
Special features:	None
ADDITIONAL REQUIREMENTS	
Conference Room Technology –Conference rooms will have one on-table computer connections to a video display screen and be internet capable. One lighting/multi-media control panel shall be table mounted and one wall mounted.	

**ADDITIONAL REQUIREMENTS****BUILT-IN FIXTURES:**

- F1 Marker board (8 LF)
- F2 Tack board (8 LF)

**LOOSE FURNISHINGS:**

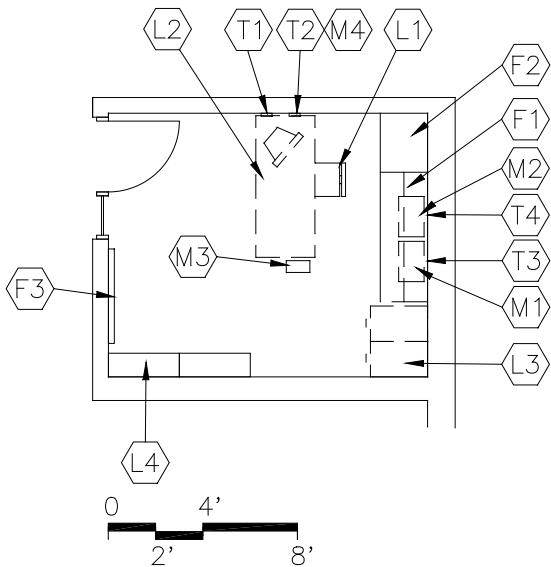
- L1 Conference table
- L2 12 Chairs
- L3 Computer workstation furniture

**AUDIO VISUAL EQUIPMENT**

See Educational Technology Requirements



OFFICE



QUANTITY:

1

CAPACITY:

Up to 2 people

SIZE:

140 SF

SPATIAL RELATIONSHIPS:

Near conference room

GOAL:

To serve as an area from which staff can effectively provide administrative support

PROGRAM ACTIVITIES:

- Answering telephone
- Data input and retrieval
- Duties of confidential secretary
- General office work

SPACE REQUIREMENTS

Construction:	
Min Ceiling Height:	9'-0"
Acoustics:	AC3 - Medium Performance: Closed Office
Window shading:	S1 - Roller Shades, 5% Open
Power & Lighting	

User Convenience (excludes outlets for AV, security, etc.):	2 duplex outlets per wall on two side walls
Lighting level	L2 - 35 FC at work surfaces
Telecommunications	
Outlet (excludes outlets for AV, security, etc.):	One standard data drop on two side walls
Wireless Requirements:	TW2 - 2 wireless devices per occupant (based on maximum occupancy)

**ADDITIONAL REQUIREMENTS**

None

**BUILT-IN FIXTURES:**

- F1 Casework:  
Base cabinets and shelving
- F3 Tack board (4 LF)
- F2 Casework: Wardrobe

**LOOSE FURNISHINGS:**

- L2 Desk
- L1 Ergonomic chair
- L3 4-drawer locking file cabinet
- L4 Bookcases
- M1/2 Printer/Copier
- M4 Computer

**AUDIO VISUAL EQUIPMENT**

See Educational Technology Requirements

**SENSORY ROOM****QUANTITY:**

1

**CAPACITY:**

Up to 3-4 students

Up to 2 staff

**SIZE:**

600 SF

**SPATIAL RELATIONSHIPS:**

Near Special Needs Classrooms

**SPACE REQUIREMENTS**

Construction:	
Min Ceiling Height:	10'-0"
Acoustics:	AC3 - High Performance: Conference Room or Confidential Space
Window shading:	S1A -Blinds/Shades and Manually Operated Blackout Shades
Power & Lighting	
User Convenience (excludes outlets for AV, security, etc.):	<ul style="list-style-type: none"> <li>One (1) outlet for control of the classroom projector/interactive board</li> <li>One (1) outlet for telephone at the teacher station</li> <li>One (1) outlet for the intercom system</li> <li>Two (2) outlets at the teacher station for a teacher's computing device and accessory</li> <li>Two (2) outlets for wireless network</li> <li>Four (4) outlets for student use</li> <li>Additional twenty (20) ampere circuit, or additional as required, to support computers, printer, and typical classroom equipment shall be in each classroom. Electrical outlets shall be placed on perimeter walls at twelve feet (12').</li> </ul>
Lighting level	L1 - 50 FC at work surfaces and teaching displays with multiple sets
Telecommunications	
Outlet (excludes outlets for AV, security, etc.):	<ul style="list-style-type: none"> <li>One (1) data outlet for control of the classroom projector/interactive board</li> <li>One (1) data outlet for telephone at the teacher station</li> <li>One (1) data outlet for the intercom system</li> <li>Two (2) data outlets, and one (1) voice outlet at the teacher station for a teacher's computing device and accessory</li> <li>Two (2) data outlets for wireless network</li> </ul> One (1) data outlet for the PoE clock

Wireless Requirements:	TW2 - 2 wireless devices per occupant (based on maximum occupancy)
Sound Reinforcement	Every classroom will be wired for teacher audio enhancement and the audio system should be integrated into the intercom system. The mixed sound will be amplified and sent through the speakers (preferably ceiling mounted).

**ADDITIONAL REQUIREMENTS**

None

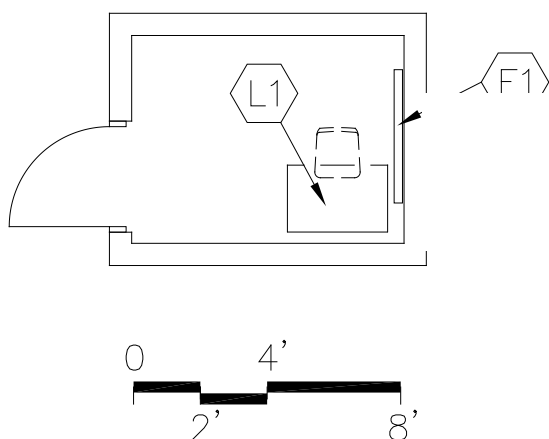
**BUILT-IN FIXTURES:**

**LOOSE FURNISHINGS:**

Provided by PGCPs – Fiber optic displays, bubble tubes, Sound system, platforms for multi-level seating

**AUDIO VISUAL EQUIPMENT**

See Educational Technology Requirements

**INDEPENDENT SUPPORT ROOM****QUANTITY:**

1

**CAPACITY:**

- 2-3 persons

**SIZE:**

- 200 SF

**PROGRAM ACTIVITIES:**

- For students requiring a quiet individual area.

**SPATIAL RELATIONSHIPS:**

- Close proximity to Special education classrooms

**SPACE REQUIREMENTS**

Construction:	
Min Ceiling Height:	9'-0"
Acoustics:	AC2 - High Performance: Conference Room or Confidential Space
Window shading:	None
Partitions and Finishes:	
Power & Lighting	
User Convenience (excludes outlets for AV, security, etc.):	2 duplex per wall on three of four walls
Lighting level	L2 - 35 FC at work surfaces
Telecommunications	
Outlet (excludes outlets for AV, security, etc.):	Two (2) data drop per wall on one wall.
Wireless Requirements:	TW2 - 2 wireless devices per occupant (based on maximum occupancy)

**ADDITIONAL REQUIREMENTS**

Room lighting to be dimmable and color adjustable (full spectrum)

Environmental sound control wall minimum STC 50 ceiling minimum CAC 35, NRC 0.65

Views into time out area from the corridor

Auditory privacy

**BUILT-IN FIXTURES:**

**LOOSE FURNISHINGS:**

L1 – Desk and chair

**AUDIO VISUAL EQUIPMENT**

See Educational Technology Requirements

### Generic Language for all Emotionally Disabled Programs (Walker Mill MS)

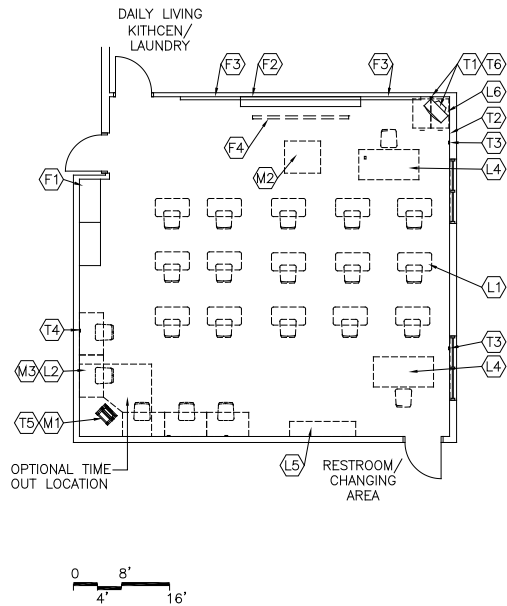
PGCPS offers a continuum of services to students with special needs. To the extent possible students are educated in their home school using co-teaching, occasional 'pull-out' focused on intervention, or self-contained classroom settings. The number of students and range of teaching options may vary from year to year and all classrooms should be designed to accommodate all students regardless of their disabilities.

Special education facilities will be integrated throughout the school to support the concepts of inclusion and the specialized requirements for the students. Special attention will be given to accessibility of all facilities and an integrated learning program.

This school will serve students with emotional disabilities in a self-contained environment. Their classrooms and support spaces should be in a quiet area of the school (or wing) but not be completely isolated from the regular school population. Provide the following spaces in a contiguous block along a corridor shared with general education functions and spaces. Provide an interior access corridor to these spaces parallel to and accessed from the "main" corridor.

The architect should work with staff to identify alternative seating options.

Space	Design Guideline			Comments
	Qty.	Sq. Ft.	Total	
Classrooms	4	740	2,960	
			0	
Student Support Room	1	350	350	
Independent Support Room	2	80	160	
Office	3	140	420	Coordinator and Itinerant
Conference Room	1	300	300	
Teacher Support Room	1	150	150	
Program Transition Room	1	200	200	
Toilets	2	50	100	
<b>Total</b>			<b>4,640</b>	
<b>TOTAL # of SRC Rooms</b>	<b>4</b>			

**SPECIAL NEEDS CLASSROOM/STUDIO****QUANTITY:**

- 3 generic classrooms
- 1 classroom with toilet

**CAPACITY:**

- 2 or more staff
- 10 to 15 students

**SIZE:**

800-900 SF

**SPATIAL RELATIONSHIPS:**

- Accessible ingress/egress to the building and classroom
- One per grade level community

**GOAL:**

- To provide a safe, accessible, and comfortable learning environment for students who are physically, mentally or emotionally challenged
- To provide classroom space and a flexible, specially-adapted learning environment that will meet the needs of students who have exhibited a need for more functional/ intensive services

**PROGRAM ACTIVITIES:**

- Independent work
- Individual instruction
- Small group work



**SPACE REQUIREMENTS**

Construction:	
Min Ceiling Height:	10'-0"
Acoustics:	AC2 - High Performance: Conference Room or Confidential Space
Window shading:	S1A -Blinds/Shades and Manually Operated Blackout Shades
Power & Lighting	
User Convenience (excludes outlets for AV, security, etc.):	<ul style="list-style-type: none"> <li>One (1) outlet for control of the classroom projector/interactive board</li> <li>One (1) outlet for telephone at the teacher station</li> <li>One (1) outlet for the intercom system</li> <li>Two (2) outlets at the teacher station for a teacher's computing device and accessory</li> <li>Two (2) outlets for wireless network</li> <li>Four (4) outlets for student use</li> <li>Additional twenty (20) ampere circuit, or additional as required, to support computers, printer, and typical classroom equipment shall be in each classroom. Electrical outlets shall be placed on teaching walls at min six feet (6') on center and on other walls at twelve feet (12').</li> </ul>
Lighting level	L1 - 50 FC at work surfaces and teaching displays with multiple sets
Telecommunications	
Outlet (excludes outlets for AV, security, etc.):	<ul style="list-style-type: none"> <li>One (1) data outlet for control of the classroom projector/interactive board</li> <li>One (1) data outlet for telephone at the teacher station</li> <li>One (1) data outlet for the intercom system</li> <li>Two (2) data outlets, and one (1) voice outlet at the teacher station for a teacher's computing device and accessory</li> <li>Two (2) data outlets for wireless network</li> <li>One (1) data outlet for the PoE clock</li> </ul>
Sound Reinforcement	Every classroom will be wired for teacher audio enhancement and the audio system should be integrated into the intercom system. The mixed sound will be amplified and sent through the speakers (preferably ceiling mounted).
Wireless Requirements:	TW2 - 2 wireless devices per occupant (based on maximum occupancy)

**ADDITIONAL REQUIREMENTS**

In one of the programmed classrooms, provide a toilet room complying with the requirements of Data Sheet for Gender Inclusive Restroom within the programmed area of the classroom with door opening directly to classroom

Comfortable rooms with pleasant décor that contribute to an atmosphere conducive to creativity

**BUILT-IN FIXTURES:**

2 Dry, white eraser-board (4' x 20' on two different walls) on track; all eraser-boards shall be installed with a marker tray, map rails with tack strip above

Clock (on side walls instead of rear walls)

Tack board (4' x 20') minimum; tack strips on all walls

**LOOSE FURNISHINGS:**

L1 10 Student desks/tables and chairs

L2 3-5 Computer workstations (optional)

L3 Printer table

L4 Teacher desk/workstation and chair

L4 Workstation and chair for co-teacher/aide

L5 Adjustable height bookshelves (24 LF)

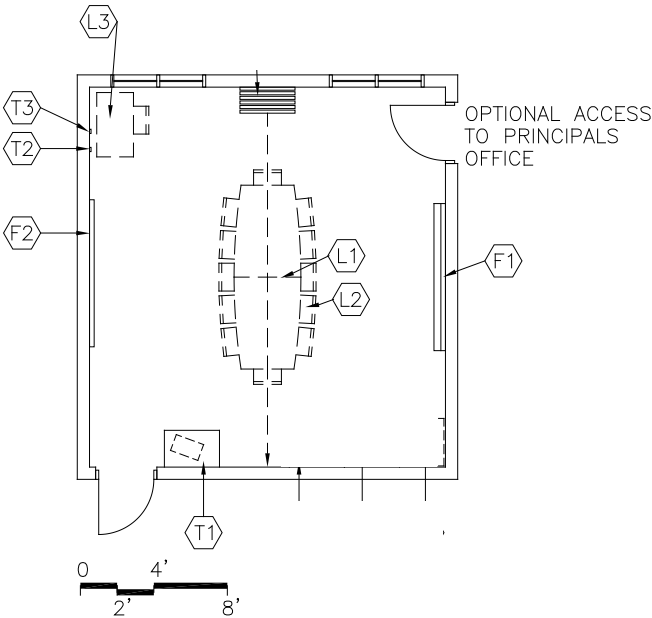
L6 2, file cabinets w/ lock, 4-drawer

1 Lockable teacher wardrobe with coat rod; tall cabinet w/ shelving (may be one unit)

**AUDIO VISUAL EQUIPMENT**

See Educational Technology Requirements

CONFERENCE ROOM



QUANTITY:

1

CAPACITY:

Up to 20 people

SIZE:

300 SF

SPATIAL RELATIONSHIPS:

In administrative suite

GOAL:

To provide an area adequate for small and medium group conferences

PROGRAM ACTIVITY:

Meetings/conferences  
Staff collaboration

SPACE REQUIREMENTS

Construction:	
Min Ceiling Height:	9'-0"
Acoustics:	AC2 - High Performance: Conference Room or Confidential Space
Window shading:	S1A -Blinds/Shades and Manually Operated Blackout Shades
Power & Lighting	

User Convenience (excludes outlets for AV, security, etc.):	Duplex on perimeter walls at twelve feet (12'), 2 recessed floor quad
Lighting level	L3 - 35 FC at work surfaces and walls
Telecommunications	
Outlet (excludes outlets for AV, security, etc.):	1 standard data drop on two walls and 1 recessed floor box with standard (2) data outlets
Wireless Requirements:	TW2 - 2 wireless devices per occupant (based on maximum occupancy)
SPECIALTIES	
Special features:	None
ADDITIONAL REQUIREMENTS	
Conference Room Technology –Conference rooms will have one on-table computer connections to a video display screen and be internet capable. One lighting/multi-media control panel shall be table mounted and one wall mounted.	

**ADDITIONAL REQUIREMENTS****BUILT-IN FIXTURES:**

- F1 Marker board (8 LF)
- F2 Tack board (8 LF)

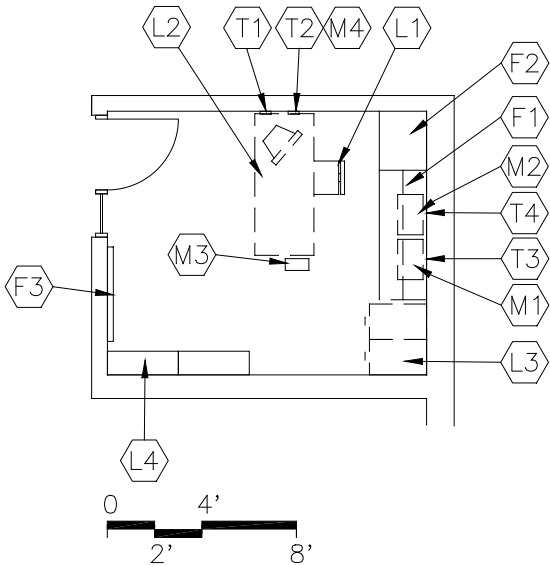
**LOOSE FURNISHINGS:**

- L1 Conference table
- L2 12 Chairs
- L3 Computer workstation furniture

**AUDIO VISUAL EQUIPMENT**

See Educational Technology Requirements

**\_OFFICE**



**QUANTITY:**

1

**CAPACITY:**

Up to 2 people

**SIZE:**

140 SF

**SPATIAL RELATIONSHIPS:**

Near conference room

**GOAL:**

To serve as an area from which staff can effectively provide administrative support

**PROGRAM ACTIVITIES:**

- Answering telephone
- Data input and retrieval
- Duties of confidential secretary
- General office work

**SPACE REQUIREMENTS**

Construction:	
Min Ceiling Height:	9'-0"
Acoustics:	AC3 - Medium Performance: Closed Office
Window shading:	S1 - Roller Shades, 5% Open
Power & Lighting	

User Convenience (excludes outlets for AV, security, etc.):	2 duplex outlets per wall on two side walls
Lighting level	L2 - 35 FC at work surfaces
Telecommunications	
Outlet (excludes outlets for AV, security, etc.):	One standard data drop on two side walls
Wireless Requirements:	TW2 - 2 wireless devices per occupant (based on maximum occupancy)

**ADDITIONAL REQUIREMENTS****BUILT-IN FIXTURES:**

- F1 Casework:  
Base cabinets and shelving
- F3 Tack board (4 LF)
- F2 Casework: Wardrobe

**LOOSE FURNISHINGS:**

- L2 Admin Desk
- L1 Ergonomic chair
- L3 4-drawer locking file cabinet
- L4 Bookcases
- M1/2 Printer/Copier
- M4 Computer

**AUDIO VISUAL EQUIPMENT**

See Educational Technology Requirements

**STUDENT SUPPORT ROOM****QUANTITY:**

1

**CAPACITY:**

Up to 3-4 students

Up to 2 staff

**SIZE:**

350 SF

**SPATIAL RELATIONSHIPS:**

Near Special Needs Classrooms

**SPACE REQUIREMENTS**

Construction:	
Min Ceiling Height:	10'-0"
Acoustics:	AC2 - High Performance: Conference Room or Confidential Space
Window shading:	S1A -Blinds/Shades and Manually Operated Blackout Shades
Power & Lighting	
User Convenience (excludes outlets for AV, security, etc.):	<ul style="list-style-type: none"> <li>One (1) outlet for control of the classroom projector/interactive board</li> <li>One (1) outlet for telephone at the teacher station</li> <li>One (1) outlet for the intercom system</li> <li>Two (2) outlets at the teacher station for a teacher's computing device and accessory</li> <li>Two (2) outlets for wireless network</li> <li>Four (4) outlets for student use</li> <li>Additional twenty (20) ampere circuit, or additional as required, to support computers, printer, and typical classroom equipment shall be in each classroom. Electrical outlets shall be placed on perimeter walls at twelve feet (12').</li> </ul>
Lighting level	L1 - 50 FC at work surfaces and teaching displays with multiple sets
Telecommunications	
Outlet (excludes outlets for AV, security, etc.):	<ul style="list-style-type: none"> <li>One (1) data outlet for control of the classroom projector/interactive board</li> <li>One (1) data outlet for telephone at the teacher station</li> <li>One (1) data outlet for the intercom system</li> <li>Two (2) data outlets, and one (1) voice outlet at the teacher station for a teacher's computing device and accessory</li> <li>Two (2) data outlets for wireless network</li> </ul> One (1) data outlet for the PoE clock

Wireless Requirements:	TW2 - 2 wireless devices per occupant (based on maximum occupancy)
Sound Reinforcement	Every classroom will be wired for teacher audio enhancement and the audio system should be integrated into the intercom system. The mixed sound will be amplified and sent through the speakers (preferably ceiling mounted).

**ADDITIONAL REQUIREMENTS**

None

**BUILT-IN FIXTURES:**

Casework: Wall/base cabinets for sink

**LOOSE FURNISHINGS:**

4-8 chairs

Bookshelves

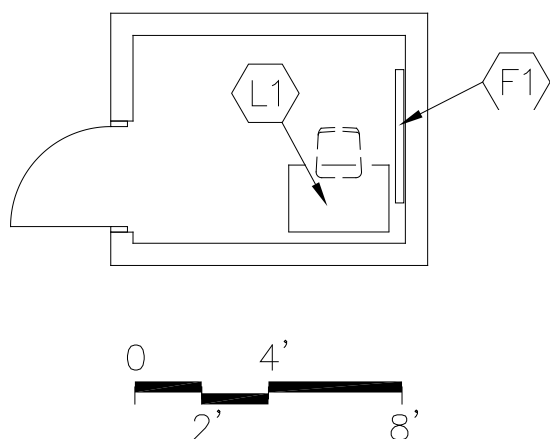
1-2 Work table

Teacher desk and chair

**AUDIO VISUAL EQUIPMENT**

See Educational Technology Requirements



**INDEPENDENT SUPPORT ROOM****QUANTITY:**

2

**CAPACITY:**

1-2 persons

**SIZE:**

80-100 SF

**PROGRAM ACTIVITIES:**

For students requiring a quiet individual area.

**SPATIAL RELATIONSHIPS:**

Close proximity to Special education classrooms

**SPACE REQUIREMENTS**

Construction:	
Min Ceiling Height:	9'-0"
Acoustics:	AC2 - High Performance: Conference Room or Confidential Space
Power & Lighting	
User Convenience (excludes outlets for AV, security, etc.):	2 duplex per wall on three of four walls
Power density:	PW2 - 3W/ASF
Lighting level	L2 - 35 FC at work surfaces
Lighting control	See Additional Requirements
Telecommunications	
Outlet (excludes outlets for AV, security, etc.):	Two (2) data drop per wall on one wall.
Wireless Requirements:	TW2 - 2 wireless devices per occupant (based on maximum occupancy)

**ADDITIONAL REQUIREMENTS**

Environmental sound control wall minimum STC 50 ceiling minimum CAC 35, NRC 0.65

Views into time out area from the corridor

Auditory privacy

**BUILT-IN FIXTURES:**

None

**LOOSE FURNISHINGS:**

L1 – Desk and chair

**AUDIO VISUAL EQUIPMENT**

See Educational Technology Requirements

**PROGRAM TRANSITION ROOM****QUANTITY:**

1

**CAPACITY:**

Faculty and staff  
1-3 students

**SIZE:**

200 SF

**SPATIAL RELATIONSHIPS:**

Accessible from main corridor

**GOAL:**

To help students learn practical/hands-on social skills and daily living skills

**SPACE REQUIREMENTS**

Construction:	
Min Ceiling Height:	10'-0"
Acoustics:	AC2 - High Performance: Conference Room or Confidential Space
Window shading:	S1A -Blinds/Shades and Manually Operated Blackout Shades
Power & Lighting	
User Convenience (excludes outlets for AV, security, etc.):	<ul style="list-style-type: none"> <li>One (1) outlet for control of the classroom projector/interactive board</li> <li>One (1) outlet for telephone at the teacher station</li> <li>One (1) outlet for the intercom system</li> <li>Two (2) outlets at the teacher station for a teacher's computing device and accessory</li> <li>Two (2) outlets for wireless network</li> <li>Four (4) outlets for student use</li> <li>Additional twenty (20) ampere circuit, or additional as required, to support computers, printer, and typical classroom equipment shall be in each classroom. Electrical outlets shall be placed on perimeter walls at twelve feet (12').</li> </ul>
Lighting level	L1 - 50 FC at work surfaces and teaching displays with multiple sets
Telecommunications	
Outlet (excludes outlets for AV, security, etc.):	<ul style="list-style-type: none"> <li>One (1) data outlet for control of the classroom projector/interactive board</li> <li>One (1) data outlet for telephone at the teacher station</li> <li>One (1) data outlet for the intercom system</li> <li>Two (2) data outlets, and one (1) voice outlet at the teacher station for a teacher's computing device and accessory</li> <li>Two (2) data outlets for wireless network</li> </ul>

	One (1) data outlet for the PoE clock
Wireless Requirements:	TW2 - 2 wireless devices per occupant (based on maximum occupancy)
Sound Reinforcement	Every classroom will be wired for teacher audio enhancement and the audio system should be integrated into the intercom system. The mixed sound will be amplified and sent through the speakers (preferably ceiling mounted).

**ADDITIONAL REQUIREMENTS**

None

**BUILT-IN FIXTURES:**

Marker board (8 LF)  
Tack board (8 LF)

**LOOSE FURNISHINGS:**

Small round table and 3 chairs  
4-drawer file cabinet  
Teacher desk chair

**AUDIO VISUAL EQUIPMENT**

See Educational Technology Requirements

### Generic Language for all Regional Special Education Programs (Adelphi Area MS)

PGCPS offers a continuum of services to students with special needs. To the extent possible students are educated in their home school using co-teaching, occasional 'pull-out' focused on intervention, or self-contained classroom settings. The number of students and range of teaching options may vary from year to year and all classrooms should be designed to accommodate all students regardless of their disabilities.

Special education facilities will be integrated throughout the school to support the concepts of inclusion and the specialized requirements for the students. Special attention will be given to accessibility of all facilities and an integrated learning program.

This school will serve students in the Regional Special Education program in a self-contained environment. The students often have multiple physical, medical, and instructional disabilities. Provide the following spaces in a contiguous block along a corridor shared with general education functions and spaces.

Space	Design Guideline			Comments
	Qty.	Sq.Ft.	Total	
Classrooms	3	900	2,700	
Toilet/Changing Rooms	3	100	300	
OT/PT	1	800	800	Includes extra equipment storage area
Life Skills Lab w/ Laundry	1	800	800	
Office	2	150	300	Coordinator and Itinerant
Conference Room	1	250	250	
Teacher Support Room	1	250	250	
<b>Total</b>			<b>5,400</b>	
<b>TOTAL # of SRC Rooms</b>	<b>3</b>			

**General Planning Considerations**

Rooms shall be clustered in traditional wing configuration with availability within the building to provide maximum contact between all students and staff. Support areas are to be located near the classrooms. All students in this program have Individual Education Plans (IEP), which specifies the services each student requires and the specific staffing that is required to implement their IEPs as indicated in the PGCPs Special Education Staffing Plan.

**Planned Activities**

- Motor Development/M.O.V.E. activities
- Total classroom group instruction
- Gross and fine motor activities
- Individualized instruction
- Arts and crafts activities
- Computer use
- Interdisciplinary instruction with classroom teacher and specialists
- Utilization of audiovisual equipment
- Vocational workshop activities

**Number of Participants**

- 21-28 Students with multiple disabilities
- 6-7 students per classroom

**Staff Required**

- Three to five (3-5) Teachers
- Three to five (3-5) Paraprofessionals
- One (1) Coordinator/Specialist
- One (1) Speech Therapist
- One (1) Health Technician

**Groupings**

- Small groups of 6-7 students
- Students working individually or in small groups

**Relationship to Other Activities**

- Convenient access to bus pick up and drop off point
- Direct access to middle school
- M.O.V.E./Motor/PT/OT Room should be situated closest to middle school
- Health Room should be adjacent to the school's health suite and coordinator's office (if adjacency is not feasible a larger separate health suite must be designed)

**Environmental Requirements**

- Thermal – Special consideration to ventilation in bathrooms and storage areas. Need special attention to on-floor activities.
- Acoustical – Particular attention to external equipment noise

**Display for each classroom**

One (1) Tack board 4' x 8'

One (1) Magnetic Marker board 4' x 8'

**Support Facilities**

Bathroom/Changing rooms directly accessible to each classroom

**Furniture and Equipment**

**Classroom**

Furniture and Equipment

4 ceiling hooks for suspended equipment

2 Rifton Positioning Chairs

2 teacher desks

3 teacher desk chairs

3 adult chairs w/wheels

1 rectangular height adjustable table

2 round height adjustable tables

2 file cabinets w/locks and four drawers

1 art cabinet with wheels

2 computer tables with 2 computers, 1 for students to share and 1 for teacher

3-6 student chairs as needed

3-6 student adjustable desks as needed

Full body-size wall mirror

Coat rack with 6-7 hooks

Mobile cart for Technology Equipment as outlined in all classes

Mat Table

Large Wedge with straps for positioning

Classroom Utilities

Ten (10) 115 volt duplex outlets per classroom

Sink with hot and cold water, wheelchair accessible

Minimum of five (5) computer outlets with isolated ground receptacles

Storage

The storage closets need to be long and narrow (about 5' to 6') with entrances on either end or folding partition for easy access

Built in cabinets on one (1) wall, w/locks accessible to teacher

Built in cabinets below sink and counter

Built in cabinets above sink

On one wall, two (2) shelves 15' long and 1' deep

On one wall, two (2) shelves 10' long and 2' deep

**Bathroom/Changing Room**

Furniture and Equipment

1 Rifton Blue Wave Toilet System

- 1 Height Adjustable Electric Changing table
- 1 Hoyer Lift
- 2 Handicap accessible adult toilets
- 1 Handicap accessible adult sink
- Built in cabinets below sink and counter
- Built in cabinets above sink

### **Conference Room**

#### **Furniture and Equipment**

- 1 large conference table with 12 chairs
- 1 Tack Board 4' x 8'
- 1 White Markerboard

### **Coordinator/Specialist Office**

#### **Furniture and Equipment**

- 3 teacher desks
- 3 adult desk chairs with wheels
- 3 filing cabinets

### **Instructional Kitchen (life skills lab)**

#### **Furniture and Equipment**

- Sink: Split level sink accommodating students in wheelchairs and students who can stand
- Extended flat sided handles at the sink
- Extended faucet
- Wheel chair accessible work counter to include space for a microwave
- Stove: Knobs on the front, angled mirror above to reflect stove top surface
- Refrigerator: Side by side with roll out bins
- Mounted jar opener and can opener

#### **Utilities**

- Five (5) 115 volt duplex outlets
- Sink with hot and cold water, wheelchair accessible

#### **Storage**

- Cabinets: wheelchair accessible, drawers with slide out bins & shelves, drawer handles large enough for a hand to slip through

### **Laundry Room (Life skills lab)**

#### **Furniture and Equipment**

- Washer & Dryer
- Sink with counter space and built in cabinets above and below sink

#### **Utilities**

- 100 and 220 volt as needed



**OT/PT Room**

**Furniture and Equipment**

- 4 ceiling hooks for suspended equipment
- Therapy equipment provided by PGCPs staff

**Utilities**

- Ten (10) 115 volt duplex outlets per classroom
- Sink with hot and cold water, wheelchair accessible
- Two (2) computer outlets with isolated ground receptacles
- CATV Outlets

**Storage**

- Built in cabinets on one (1) wall, w/locks accessible to teacher
- 1 large storage cabinet with locks
- Built in cabinets below sink and counter
- Built in cabinets above sink

**Special Education Regional Program Specification Notes**

- Automatic doors must be installed at proposed bus drop-off.
- Corridors near classrooms to have alcoves for wheelchairs with quick single lane parking, handles out.
- Parking area for 15-20 and 2 spaces for Parking for the Handicapped with easy access to Special Education Wing.

### Middle School Based Health Center Space Requirements

Space	Design Guideline			Comments
	Qty.	S.F.	Total	
Reception/ Waiting Area	1	150	150	
Exam Rms.#1	1	80	80	
Exam and Dental #2	1	160	160	
Lab/charting area	1	100	100	
Provider Offices	2	120	240	
Mental Health conference rm	1	200	200	
Storage	2	50/80	130	
Toilet	2	50	100	
Total			1,160	
@ 1.35			1,600	

The School Based Health Center should be located near the front entrance. During the day, all visitors must enter through the school security vestibule. However, an outside entrance is desirable so the clinic could operate when the school is closed. The design for this space must be flexible to allow for alternative uses if it is not used as a SBHC.

The following specifications indicate the full outfitting of the space. A final decision will be made prior to final furniture selection.

The clinics offer a variety of services to students including

- Immunizations
- Diagnosis and treatment of Minor/Acute/Chronic Health Problems
- Physical Examinations
- Laboratory Testing

#### Mental Health Services

- Individual Mental Health Assessment, Treatment, and Follow-up
- Group Counseling
- Substance Abuse Education/Counseling

#### Health Education Services

- Abstinence Education
- Weight Reduction and Healthy Living
- Diabetes Education/Management
- Asthma Education/Management

#### Dental Health Services

- Dental Assessments
- Dental Hygiene Education
- Dental Referrals for Restorations

### Adjacency Requirements

The School Based Health Center shall be located near the front entrance. During the day, all visitors must enter through the school security vestibule.

An outside entrance shall be provided so the clinic could operate when the school is closed.

**Design for Flexibility**

The design for this space must be flexible to allow for alternative uses if it is not used as a SBHC.

**Security and Layering**

The School Based Health Center shall be designed to provide an open and accessible public façade while maintaining high levels of security and privacy for Wellness operations:

Entry lobby shall have readily identified entrance. Lobby interior shall not be directly visible from outside to provide privacy for patients.

Secure areas within School Based Health Center Areas shall be separated from the public areas by keycard access. Secured areas shall be located together such that access from one secured area to any other will not require passing through a public area.

**Privacy**

In addition to the privacy requirements of HIPAA, Developer shall design the space to provide high levels of privacy and confidentiality.

In patient, treatment and counselling rooms, ensure occupants of rooms cannot be identifiable from outside the room.

**Safety**

Shouting in any patient, treatment or counseling room shall be audible from outside the room, while maintaining acoustical performance identified in the applicable Area Data Sheets.

**Patient Wellbeing & Infection Control**

Design the School Based Health Center using best practice in patient well-being and infection control, including:

- Provide comfortable and attractive settings based on evidence based design for healing environments;

- Provide comfortable and acoustically designed space when students need to work with an assistant or need voice recognition software to "read" their exams;

- Ensure air flow is managed in such a manner to minimize risk of cross-contamination and nosocomial infection;

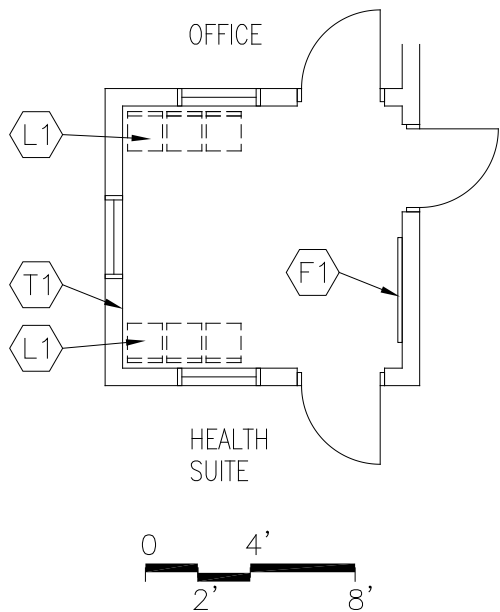
- Provide separated well and sick patient waiting areas with separated air systems. Design to manage patient flow to avoid contamination; and

- Provide handwashing and hand sanitization stations throughout the facility.

**Nurse Call System**

Design and install a complete nurse call system within the Student Life: Wellness Center, including initiation and reporting devices.

RECEPTION/ WAITING AREA



QUANTITY:

1

CAPACITY:

Up to 6 people

SIZE:

150 SF

SPATIAL RELATIONSHIPS:

- First space one enters in Health Suite
- Ground floor
- May include Nurse's desk and work station (see office for description of F&E)

GOAL:

To provide an area for students waiting to see the nurse or for parent pick-up

SPACE REQUIREMENTS

Construction:	
Min Ceiling Height:	9'-0"
Acoustics:	AC3 - Medium Performance: Closed Office
Window shading:	S1 - Roller Shades, 5% Open
Power & Lighting	
User Convenience (excludes outlets for AV, security, etc.):	Duplex on perimeter walls at twelve feet (12')
Lighting level	L5 - 25 FC ambient with focus lighting areas
Telecommunications	

Outlet (excludes outlets for AV, security, etc.):	Two (2) data drop per wall on one wall
Wireless Requirements:	TW1 - 1 wireless device per occupant (based on maximum occupancy)
<b>SPECIALTIES</b>	
Special features:	None
<b>ADDITIONAL REQUIREMENTS</b>	
Waiting room shall provide visual privacy for people waiting	

**ADDITIONAL REQUIREMENTS**

None

**BUILT-IN FIXTURES:**

F1 Tack board  
Brochure rack

**LOOSE FURNISHINGS:**

L1 4-6 visitor chairs  
2 Side tables w/ lamps  
Teacher desk and chair  
Mounted monitor for educational videos

**AUDIO VISUAL EQUIPMENT**

See Educational Technology Requirements

**EXAM ROOM #1****QUANTITY:**

2

**CAPACITY:**

Up to 3 people

**SIZE:**

80 SF

**GOAL:**

To provide school based health services

**PROGRAM ACTIVITIES:**

First aid  
 Health screening  
 Medical treatments  
 Medication administration

**SPATIAL RELATIONSHIPS:**

Located in the health clinic  
 Near Waiting Area

**SPACE REQUIREMENTS**

Construction:	
Min Ceiling Height:	9'-0"
Acoustics:	AC3 - Office
Window shading:	S1A -Blinds/Shades and Manually Operated Blackout Shades
Plumbing:	
Fixture Type:	Lavatory w/sensor control faucet
Power & Lighting	
User Convenience (excludes outlets for AV, security, etc.):	Duplex on perimeter walls at twelve feet (12'), outlets for computer charting station and vital station height.
Lighting level	L6 - 40 FC ambient, 70 FC at any service points or equipment
Telecommunications	
Outlet (excludes outlets for AV, security, etc.):	Two (2) data drop per wall on two walls
Wireless Requirements:	TW2 - 2 wireless devices per occupant (based on maximum occupancy)
SPECIALTIES	
Special features:	4' base cabinet; 4' wall mounted cabinet; handwash sink; wall mounted medical computer desk, curtains on windows, Privacy curtains, paper towel holder, soap dispenser

**ADDITIONAL REQUIREMENTS**

None

**BUILT-IN FIXTURES:**

Cubicle curtain

Soap dispenser

Towel dispenser

Casework: Base/wall cabinets around sink

**LOOSE FURNISHINGS:**

Provider Furnished

Ergonomic chair

Exam table

**AUDIO VISUAL EQUIPMENT**

See Educational Technology Requirements

**EXAM RM #2: DENTAL****QUANTITY:**

1

**CAPACITY:**

Up to 3 people

**SIZE:**

120 SF Operatory

30 SF storage

**GOAL:**

To provide school based dental services

**PROGRAM ACTIVITIES:**

Check-ups

Cleaning

Education

**SPATIAL RELATIONSHIPS:**

Located in the health clinic

Near Waiting Area

**SPACE REQUIREMENTS**

Construction:	
Min Ceiling Height:	9'-0"
Acoustics:	AC2 - High Performance: Conference Room or Confidential Space
Window shading:	S1A -Blinds/Shades and Manually Operated Blackout Shades
Plumbing:	
Fixture Type:	Lavatory w/sensor control faucet, plumbing for dental chair
Power & Lighting	
User Convenience (excludes outlets for AV, security, etc.):	Duplex on perimeter walls at twelve feet (12'), outlets for computer charting station and vital station height. Power for dental station
Lighting level	L6 - 40 FC ambient, 70 FC at any service points or equipment
Telecommunications	
Outlet (excludes outlets for AV, security, etc.):	Two (2) data drop per wall on two walls
Wireless Requirements:	TW2 - 2 wireless devices per occupant (based on maximum occupancy)
SPECIALTIES	
Special features:	4' base cabinet; 4' wall mounted cabinet; handwash sink; wall mounted medical computer desk, curtains on windows, Privacy curtains, paper towel holder, soap dispenser

**ADDITIONAL REQUIREMENTS**



None

**BUILT-IN FIXTURES:**

- Cubical curtain
- Soap dispenser
- Towel dispenser
- Casework: Base/wall cabinets around sink
- Lockable cabinets in the storage closet

**LOOSE FURNISHINGS:**

Provider Furnished:

- Dental chair with overhead light and sink attachments
- Dentist's stool
- Assistant's stool
- Refrigerator in the storage area

**AUDIO VISUAL EQUIPMENT**

See Educational Technology Requirements

**LAB/CHARTING AREA****QUANTITY:**

1

**CAPACITY:**

Up to 2 medical staff

**SIZE:**

100 SF

**SPATIAL RELATIONSHIPS:**

Near Waiting Area/Reception

Adjacent to toilet

**GOAL:**

To provide for lab test and storage

To provide a counter and plumbing for private chart maintenance

**SPACE REQUIREMENTS**

Construction:	
Min Ceiling Height:	9'-0"
Acoustics:	AC3 - Medium Performance: Closed Office
Window shading:	
Plumbing:	
Fixture Type:	Lavatory
Power & Lighting	
User Convenience (excludes outlets for AV, security, etc.):	Duplex at counters at max 2' on center, on walls at twelve feet (12')
Lighting level	L2 - 35 FC at work surfaces
Telecommunications	
Outlet (excludes outlets for AV, security, etc.):	Two (2) data drops at counters at max 2' on center, on walls at max 6' on center
Wireless Requirements:	TW2 - 2 wireless devices per occupant (based on maximum occupancy)
SPECIALTIES	
Special features:	Nurse station units (base cabinet and shelving), 12' long, paper towel holder, soap dispenser

**ADDITIONAL REQUIREMENTS**

None

**BUILT-IN FIXTURES:**

Tack board (4 LF)

Sink w/soap dispenser

Towel dispenser

Specimen door to toilet

Casework:

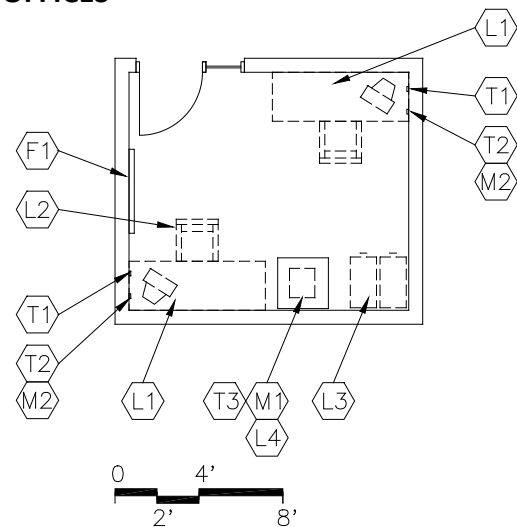
Base cabinets and shelving along one wall

**LOOSE FURNISHINGS:**

**AUDIO VISUAL EQUIPMENT**

See Educational Technology Requirements

**OFFICES**



**QUANTITY:**

2

**CAPACITY:**

Up to 2 people

**SIZE:**

120 SF (includes 50 SF adult toilet)

**SPATIAL RELATIONSHIPS:**

- Adjacent and visual into Waiting Area/Reception

**GOAL:**

To provide an office for the staff to perform clerical functions

**PROGRAM ACTIVITIES:**

- Computer input
- Conferences with staff and other visitors
- Paperwork
- Planning
- Telephone calls

**SPACE REQUIREMENTS**

Construction:	
Min Ceiling Height:	9'-0"
Acoustics:	AC3 - Medium Performance: Closed Office
Window shading:	S1 - Roller Shades, 5% Open
Power & Lighting	
User Convenience (excludes outlets for AV, security, etc.):	2 duplex per wall on three of four walls

Lighting level	L2 - 35 FC at work surfaces
Telecommunications	
Outlet (excludes outlets for AV, security, etc.):	One standard data drop on two side walls
Wireless Requirements:	TW2 - 2 wireless devices per occupant (based on maximum occupancy)

**ADDITIONAL REQUIREMENTS**

None

**BUILT-IN FIXTURES:**

F1 Tack board

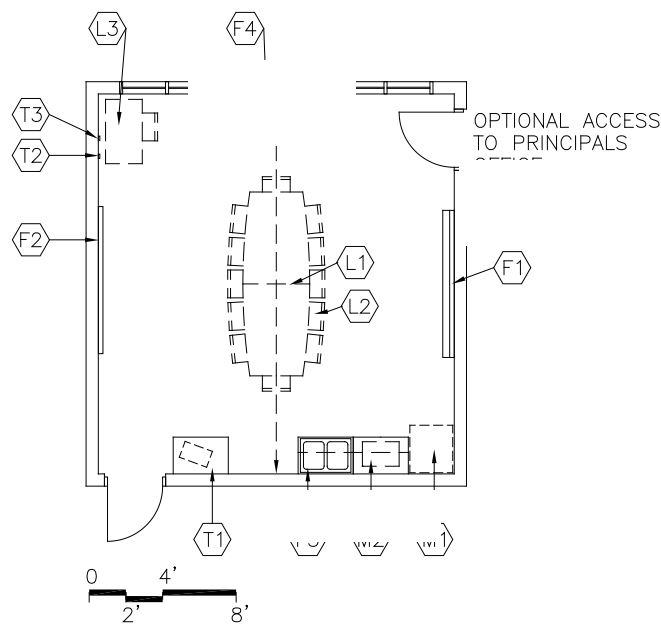
**LOOSE FURNISHINGS:**

- L1 1 desk
- L2 1 ergonomic task chair
- L3 1, 4-drawer file cabinet
- L4 Printer table
- Guest chair
- M1 Printer
- M2 Computer

**AUDIO VISUAL EQUIPMENT**

See Educational Technology Requirements

MENTAL HEALTH CONFERENCE ROOM



QUANTITY:

1

CAPACITY:

- Staff
- Teachers
- Visitors

SIZE:

200 SF

SPATIAL RELATIONSHIPS:

Near Mental Health Office

GOAL:

- To provide an area adequate for small and medium group conferences
- To provide an area for testing.

PROGRAM ACTIVITIES:

- Group counseling and mediation
- Staff collaboration

SPACE REQUIREMENTS

Construction:	
Min Ceiling Height:	9'-0"
Acoustics:	AC2 - High Performance: Conference Room or Confidential Space
Window shading:	S1A -Blinds/Shades and Manually Operated Blackout Shades

Power & Lighting	
User Convenience (excludes outlets for AV, security, etc.):	Duplex on perimeter walls at twelve feet (12'), 2 recessed floor quad
Lighting level	L3 - 35 FC at work surfaces and walls
Telecommunications	
Outlet (excludes outlets for AV, security, etc.):	1 standard data drop on two walls and 1 recessed floor box with standard (2) data outlets
Wireless Requirements:	TW2 - 2 wireless devices per occupant (based on maximum occupancy)
ADDITIONAL REQUIREMENTS	
Conference Room Technology –Conference rooms will have one on-table computer connections to a video display screen and be internet capable. One lighting/multi-media control panel shall be table mounted and one wall mounted.	

**ADDITIONAL REQUIREMENTS**

None

**BUILT-IN FIXTURES:**

- F1 Marker board (8 LF)
- F2 Tack board (8 LF)
- Manual projection screen

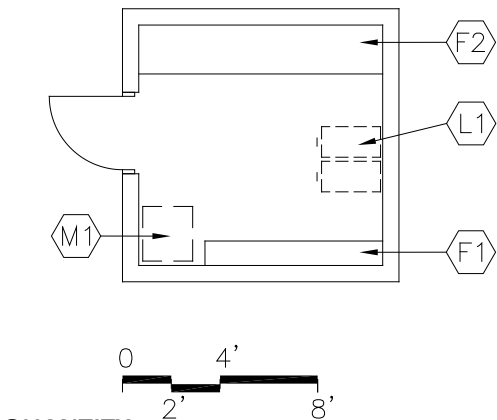
**LOOSE FURNISHINGS:**

- L1 1-2 Conference tables for 10 w/ conference room technology built-in
- L2 12-15 stackable chairs
- L3 Computer workstation furniture

**AUDIO VISUAL EQUIPMENT**

See Educational Technology Requirements

STORAGE AREAS



QUANTITY:

1

CAPACITY:

Up to 1 person

SIZE:

50/80 SF

SPATIAL RELATIONSHIPS:

Adjacent and access to Treatment Area

GOAL:

To provide storage for medical supplies and equipment

PROGRAM ACTIVITIES:

Storage

SPACE REQUIREMENTS

Construction:	
Min Ceiling Height:	9'-0"
Acoustics:	AC8 - Utility Space
Window shading:	
Plumbing:	
Fixture Type:	Cconnection for ice maker
Piped services:	Cold water
Special drains:	Drain connection to fixtures
Power & Lighting	
User Convenience (excludes outlets for AV, security, etc.):	Duplex on perimeter walls, one per wall
Lighting level	L6 - 40 FC ambient, 70 FC at any service points or equipment
Telecommunications	



Outlet (excludes outlets for AV, security, etc.):	1 standard data drop per room
Wireless Requirements:	TW1 - 1 wireless device per occupant (based on maximum occupancy)

**ADDITIONAL REQUIREMENTS**

None

**BUILT-IN FIXTURES:**

F1 Storage shelving - 12" deep

F2 Storage shelving - 24" deep

**LOOSE FURNISHINGS:**

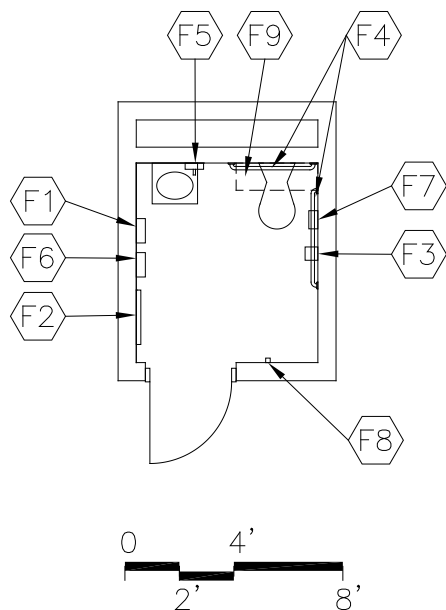
L1 File cabinets

M1 Refrigerator (lockable) with ice maker (may be in treatment room instead)

**AUDIO VISUAL EQUIPMENT**

None

STUDENT TOILET



**QUANTITY:**  
2

**CAPACITY:**  
Up to 1 person

**SIZE:**  
50 SF

**SPATIAL RELATIONSHIPS:**  
Located within Health Clinic adjacent to the Lab with a pass-thru for samples

**PROGRAM ACTIVITY:**  
Personal and health needs for the health clinic

SPACE REQUIREMENTS

Construction:	
Min Ceiling Height:	8'-0"
Acoustics:	AC7 - Public Space
Window shading:	None
Plumbing:	
Fixture Type:	Toilet, lavatory w/sensor control faucet
Power & Lighting	
User Convenience (excludes outlets for AV, security, etc.):	GFI Duplex at lavatory, one per room
Power density:	PW1 - 1W/ASF
Lighting level	L7 - 25 FC ambient

Lighting control	LC8 - Public Space
Telecommunications	
Outlet (excludes outlets for AV, security, etc.):	None
Wireless Requirements:	TW1 - 1 wireless device per occupant (based on maximum occupancy)
SPECIALTIES	
Special features:	Provide pass-through for specimens to nursing area

**ADDITIONAL REQUIREMENTS****BUILT-IN FIXTURES:**

- F1 Towel dispenser
- F2 24" x 60" mirror
- F3 Toilet tissue holder
- F4 36" and 42" grab bars
- F5 Soap dispenser
- F6 Sanitary dispenser
- F7 Sanitary disposal
- F8 Coat hook
- F9 Casework: Wall cabinet

**LOOSE FURNISHINGS:**

None

**AUDIO VISUAL EQUIPMENT**

None

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## SECTION 1 Project Outline

## **1.1 GENERAL DESIGN CRITERIA**

## SECTION 2 DESIGN & CONSTRUCTION REQUIREMENTS



## **2.1 Site Design Requirements**

### **2.1.1 Exterior Performance Requirements**

#### **2.1.1.1 Exterior Shading**

- (a) The Buildings within the Project Site shall be positioned so as to provide shade and reduce urban heat effects. Structures with materials, design, or forms that produce solar glare into or onto adjoining Buildings, streets, pedestrian walkways or publicly accessible outdoor spaces shall be avoided.
- (b) Primary entrances into Buildings shall attain 25% shade coverage as measured at 1:00 P.M. on the equinox. This requirement does not apply to secondary entrances into such Buildings.

#### **2.1.1.2 Site Topography and Grading**

- (a) All Building entrances shall be universally accessible.
- (b) All Project Site grading shall be designed with consideration of adjacent Work, Facilities or Buildings so that landforms and grade transitions are coordinated between Project boundaries and such Work, Facilities or Buildings.
- (c) The grading plan shall be developed so as to maximize opportunities for on-site stormwater quantity and quality control.
- (d) Planted areas shall be graded to maximize opportunities for on-site stormwater quantity and quality control.
- (e) Paved areas shall be graded to encourage sheet flow to planted areas.

### **2.1.2 Landscaping Requirements**

#### **2.1.2.1 General Landscaping Requirements**

- (a) Developer shall design and construct all landscaping elements and associated irrigation systems within the Project Site.
- (b) Permanent irrigation is not required. Hose bibbs or quick connect irrigation connections shall be provided such that no landscaped or planted areas is more than 150' from a point of connection.
- (c) Developer shall design and construct Project Site landscaping to emphasize regional natives, avoid invasive or allergenic species, and to include plantings that are compatible with the Buildings and Outdoor Facilities.
- (d) Developer shall incorporate water-efficient landscaping practices in all landscape installations.
- (e) Where used, Irrigation systems shall be designed to an irrigation efficiency of greater than 0.85,
- (f) Developer shall provide landscaping around Buildings, except where pedestrian walkways directly abut the Building.
- (g) Planting within 100 feet of any Building shall not support flame or permit the spread of fire. Mulch, bark or other ground cover material shall not support flame or spread of fire.

#### 2.1.2.2 Plant Materials Requirements

- (a) Plant materials shall be first class representatives of their normal species or variety. They shall have typical branching systems and vigorous root systems. Plants shall be free of pests and diseases, disfiguring knots, scalds, bark abrasions, or other injuries. Trees shall have straight trunks with the leader intact, undamaged and uncut unless multi-trunk trees are specified. Trees shall provide good growth and rapid appearance of maturity.
- (b) Trees shall be a minimum 2" caliper size, ball and burlap. Groundcovers, vines, and ornamental grasses shall be a minimum of one (1) gallon container in size. Shrubs and woody perennials shall be a minimum of five (5) gallon container in size. All one (1) and five (5) gallon container stock shall have been grown in their containers for a minimum of six (6) months and a maximum of one (1) year. All balled and burlap trees are root pruned per PGCPs standards.
- (c) Planting shall be designed to have mature appearance within seven years.

#### 2.1.2.3 Irrigation Requirements

- (a) Where Irrigation systems are installed,
  - i. The irrigation system shall be designed to prevent overspray or run-off from the irrigation zone onto any paved surface or into any surface water drainage element. Overspray or run-off into other planting zones shall be minimized.
  - ii. The automatic irrigation system shall be designed based upon WUCOLS guidelines and meet the LEED v4 Requirements for Water Efficiency, Outdoor Water Use Reduction Credit: Water Efficient Landscaping to reduce overall landscape use of potable water by 50% from calculated midsummer baseline figures, and contain an evapotranspiration system. In addition, the system controllers shall include soil moisture monitoring and weather monitoring to manage watering cycles.
  - iii. All irrigation zones shall be separated by planting type and tree irrigation shall be considered a separate zone.

### 2.1.3 Exterior Amenities

#### 2.1.3.1 Waste Receptacles

Developer shall install exterior waste receptacles in Exterior Areas at main building entrance, and in accordance with the Project Master Plan

## **2.2 Project Site Circulation**

### **2.2.1 Vehicle & Pedestrian Circulation**

#### **2.2.1.1 Site Circulation elements**

- (a) all paved areas shall be constructed with clean and neat edges, and shall incorporate appropriate curbs or edging elements as needed to prevent spreading or edge degradation, and to prevent plant intrusion. Curbs shall be installed at all vehicular paving;

#### **2.2.1.2 Site Paving Materials**

All areas subject to vehicular traffic, including both regular traffic (roads, service and loading areas, and parking), and occasional traffic (walkways, plazas, bicycle paths and landscaped areas) shall include the following types of paving materials:

- (a) Vehicular paving:
  - i. all paving shall be uniform vehicular quality paving, constructed with appropriate subgrade preparation, sub base, and base to handle all anticipated traffic demands for loading, speed, turning, stopping and starting with no rutting or buckling. The pavement structure shall be engineered to determine the type and thickness of pavement surface course, base, and subbase layers that in combination are cost effective and structurally adequate for the projected traffic loading and site conditions.;
  - ii. hard vehicular paving shall be hard vehicular quality paving, such as asphalt, concrete, unit pavers, or similar. Road construction shall be appropriate for material selected. Refined coal tar sealers shall not be used
- (b) Pedestrian and bicycle paving:
  - i. all paving shall be uniform pedestrian and bicycle quality paving, constructed with appropriate subgrade preparation, sub base, and base, to handle all anticipated traffic demands for loading, speed, turning, stopping and starting with no rutting or buckling.
  - ii. hard paving shall be hard surfaces such as, concrete unit pavers or similar with a three year aged solar reflectance index no less than 0.4. Asphalt paving shall not be used for plazas, pedestrian or bicycle paving;
  - iii. all walking surfaces shall be slip resistant and have a coefficient of friction not less than 0.30. The coefficient of friction will be measured by California Test 342 before pavement is opened to public traffic.

#### **2.2.1.3 Traffic Loading and Dimensions**

Project Site circulation areas shall meet the following traffic loading requirements, as indicated by the Area Data Sheets:

- (a) Roadways, parking and service/loading zones. All vehicular areas shall be structurally designed to accommodate the maximum anticipated vehicle and withstand the anticipated load, speed, size and frequency. Anticipated vehicles include full sized busses and coaches,

and fully loaded fire trucks. All paving designs shall be based on a Traffic Index (TI) calculation. Loading capacity shall not be limited to designated fire lanes.

- (b) All elements within the paved areas, including tree grates, manhole/handhole/valve covers shall be designed to accommodate traffic loading.

#### 2.2.1.4 Project Site Roadway Signage

Developer shall provide all required signage for safe operations and wayfinding for all roadways, parking, pedestrian walkways, and bicycle paths. All pavement markings and roadway signage for circulation roadways shall conform to the requirements of the current edition of the MUTCD.

## **2.3 Site Infrastructure and Utilities**

Developer shall design and construct the Infrastructure in accordance with the requirements of this Section 2.3.

### **2.3.1 General Requirements**

2.3.1.1 All Utilities within the Project Site, all Infrastructure, and all modifications to Existing Infrastructure, shall be designed and sized to accommodate the required capacity of the Facilities and any existing facilities served by such utilities, and shall be designed and constructed in accordance with the PGCPs's construction standards Division 33.

2.3.1.2 Developer shall remove all abandoned utilities within the Building footprint and seal or cap all points of connection to existing utilities. All active utilities within the project site shall be relocated as part of the Project.

2.3.1.3 Underground "wet" utilities shall be buried at a minimum depth of five (5) feet. This exceeds maximum frost depth for the area.

2.3.1.4 Underground "dry" utilities shall be buried at a minimum depth of three (3) feet.

2.3.1.5 The location and use of Facility services and Utilities shall not create visual or safety impacts or impede circulation and all Utility Devices shall be screened from Users' sight.

2.3.1.6 Utility Metering:

- (a) All Utility services shall be provided with meters at individual Buildings to allow for the tracking and monitoring of individual Building usage. Meters for electricity, gas and water shall be provided and installed by Developer. These meters are in addition to any meters provided by utility company for billing purposes.
- (b) Meters shall be Revenue Grade with accuracy of 0.2% or better. All meters shall be connected to the Building Management System for the Project, and shall be capable of continuous reporting.
- (c) For volume based utility services (water and gas) meter shall measure volume, flow and pressure. For electricity, meter shall measure phase volts, phase currents, neutral currents, ground currents, power consumption kWh, adjustable power demand kW, kVA & kVAR, Power Factor, and peak loads. For chilled water, meter shall measure volume, flow, pressure, supply and return temperature, total power (Btu) consumption and peak demand.

2.3.1.7 Utility Corridors

- (a) All utility mains shall be installed within dedicated utility corridors.
- (b) Utility Corridors shall be of a minimum width to accommodate the family of utilities routed within, including utilities outlined in the master plan but not yet installed.
- (c) Utility corridors shall accommodate regulatory-mandated separation between utilities of certain type (e.g. the separation between domestic water and sanitary sewer), and be in accordance with Division 33 of the PGCPs Design Standards.

- (d) For utilities installed at a vertical depth of up to four (4) feet, a minimum of two (2) feet of horizontal clearance shall be maintained on both sides to accommodate excavation for service or repair. Multiple conduits of like service (e.g. Telecom) may be bundled and considered a single utility for spacing purposes.
- (e) For utilities installed at a vertical depth of greater than four (4) feet, one (1) additional foot of horizontal clearance shall be maintained on both sides for every additional two (2) feet of depth, to a maximum of five (5) either side.
- (f) Overhead and peripheral clearance shall be maintained to allow for work by excavating and lifting equipment such as backhoes.
- (g) Utility Corridors shall be placed outside the mature dripline of all planned and existing trees.

#### 2.3.1.8 Utility Devices

- (a) Utility Devices include any device or equipment that forms part of the Utility system, such as transformers, fire hydrants, meters, pressure reducing station and other utility devices ("Utility Devices").
- (b) Visible Utility Devices shall be designed as integral elements of the overall design and housed within the building footprint or visually screened by architectural or landscape screening (e.g. within service yards) to minimize visual impacts or circulation conflicts for Users. Screening or location shall not impair the Utility Device function, access, or maintainability. Screening shall not be used for fire protection devices requiring high visibility.
- (c) Above grade Utility Devices shall be set on concrete pads sized to provide a minimum of three (3) foot hard working surface at any required access points.
- (d) The locations of Utility Devices, delivery areas, and trash collection areas shall be integrated into the building and landscape design concept. Locations shall be shown on design development site plans.
- (e) Utility Devices shall not be allowed near main entrances to a Building.
- (f) A minimum setback of three (3) feet is required for all Utility Devices and fire department connections located behind a curb so as to avoid vehicle impact. In the event that such Utility Devices or fire department connections are exposed to damage or vehicle impact, protection for such elements shall be provided per the International Fire Code and Fire Authority
- (g) Vaults shall not be located on primary walking paths and shall be shown on design development site plans.
- (h) The design location of Utility Devices or other Infrastructure devices that are visible to the Users shall be identified in the Work Submittal Review Process.
- (i) All above grade Utility Devices shall be painted or coated to protect them from corrosion and to minimize their visual presence. Utility Devices shall be of a uniform color and finish. Specific paint or coating shall be subject to the Owner's review and shall be consistent with current Owner's practices.

### 2.3.2 Temporary Utilities

#### 2.3.2.1 General Requirements

- (a) Developer shall obtain temporary Utilities for all Construction Work from the Owner or directly from Utility Owners. Developer shall provide and maintain any necessary temporary structures required in connection with the temporary Utilities.
- (b) Developer shall submit to Owner for Owner's review and approval drawings and plans for temporary Utilities for the Construction Work.
- (c) Developer shall maintain and operate all temporary Utility systems to provide continuous service.
- (d) Developer shall modify and extend existing Utility systems, as required, during the performance of the D&C Work.
- (e) The use and methods of installation of temporary Utilities shall not create unsafe conditions or violate applicable Law.
- (f) Developer shall submit all plans for temporary Utilities to the Owner for review and approval in accordance with the Technical Requirements.
- (g) Developer must comply with PGCP's MS4 permit requirements for stormwater management during construction in accordance with Section 2.3.1

#### 2.3.2.2 Removal and Reconditioning of Temporary Utilities

- (a) All temporary Utilities and associated temporary structures shall be promptly removed at the completion of the Construction Work for which such temporary Utilities and associated temporary structures were required.
- (b) All Utilities shall be restored to their original condition at the completion of Work.

### 2.3.3 All Facilities affected by the Stormwater

#### 2.3.3.1 Stormwater

Developer shall design and construct a stormwater management system at the Project Site in accordance with PGPS Standard Specifications Division 33 and the following requirements:

#### 2.3.3.2 Municipal Permit

- (a) Comply with the requirements found in the most recently adopted "State Water Resources Control Board, National Pollutant Discharge Elimination System (NPDES) General Permit for Waste Discharge Requirements (WDRs) For Storm Water Discharges From Small Municipal Separate Storm Sewer Systems (MS4s) (General Permit)"

#### 2.3.3.3 Post-Construction Requirements

- (a) Comply with Post-Construction Requirements under the Phase II Small MS4 stormwater permit.

#### 2.3.3.4 Construction General Permit

- (a) Comply with the requirements found in the most recently adopted "State Water Resources Control Board, National Pollutant Discharge Elimination System (NPDES) General Permit for Waste Discharge Requirements (WDRs) For Storm Water Discharges Associated with Construction and Land Disturbing Activities (CGP)". Allocation Limits

#### 2.3.3.5 Storm Water Quality

- (a) Site design shall effectively reduce runoff and pollutants associated with runoff from development and pollutant-generating sources.
- (b)
- (a) Developer shall minimize the discharge of pollutants to the MS4 through installation, implementation, and maintenance of BMPs.

2.3.3.6 Lift stations within the stormwater utility are prohibited.

2.3.3.7 Drainage Report. The Developer shall submit a drainage report during design for Owner review and approval.

#### **2.3.4 Potable Water**

Developer shall design and construct a potable water system at the Project Site in accordance with PGPS Standard Specifications Division 33 and the following requirements:

##### **2.3.4.1 Performance Requirements**

- (a) The potable water system shall, at a minimum, provide adequate flow and pressure for the water demand (both “domestic” and “industrial”) and fire demand of each building.

#### **2.3.5 Wastewater**

Developer shall design and construct a waste water management system at the Project Site in accordance with PGPS Standard Specifications Division 33 and the following requirements:

##### **2.3.5.1 Performance Requirements**

- (a) The wastewater collection system shall, at a minimum, provide:
  - i. Design flow velocity in pipe shall be a minimum of two (2) feet per second at average daily flow and a maximum of ten (10) feet per second at peak daily flow.
  - ii. Wastewater pipe at peak daily flow shall have a maximum depth to diameter (d/D) ratio of 0.5.
- (b) Flows of all buildings served shall not exceed the maximum d/D ratio at any point.
  - i. A wastewater pipe at capacity is defined as a pipe flowing with a depth to diameter ratio (d/D) of 0.5 at peak flow.
- (c) Stormwater runoff shall not be conveyed to the sanitary sewer, with the exception of small, outdoor areas used for trash or washdown, in which case the area shall be minimized, served by a grease/sand interceptor, and stormwater run-on eliminated.

2.3.5.2 Lift stations within the wastewater utility are prohibited.

#### **2.3.6 Water For Fire Protection Systems**

2.3.6.1 Developer shall design and construct fire protection systems at the Project Site in accordance with PGPS Standard Specifications Division 33 and the following requirements:

2.3.6.2 Developer’s obligations for fire protection systems are to design and construct a complete fire protection system, including all required connections to existing piped systems for the Project. Developer



shall design and construct all fire protection systems, including fire department connections, as well as fire protection systems within the Buildings in accordance with the following requirements:

- (a) The design shall be undertaken in coordination with the local fire agency.
- (b) The location of fire department connections shall be subject to the approval of the Owner and local fire agency.
- (c) All fire hydrants, post indicator valves, and other fire related Utility Devices, including fire department connections, shall be clearly visible from the street.
- (d) The ports of any wet standpipe fire department connections that are accessible to the Users shall be protected with Knox style caps to prevent vandalism. Otherwise, metal caps are acceptable.
- (e) An inspection of underground installation, back flush, and hydrostatic test shall be conducted by Developer and witnessed by a representative of the Owner prior to backfill.
- (f) Developer shall obtain NFPA 24 inspection and installation certificates prior to acceptance testing and have them signed off by the Owner immediately after acceptance testing and approval.
- (g) Maintain a three (3)-foot clear radius around the fire department connection. Grade variation within this radius shall not exceed 1:12. The fire department connection shall be arranged so that hose lines can be ready and conveniently attached to inlets without interference from any nearby objects including Buildings, structures, fences, posts, landscape planting, or other fire department connections.
- (h) All piping shall be hydrostatic-pressure tested in accordance with the Technical Requirements, and the most recently adopted edition of NFPA 24 Underground piping shall be center-loaded and all fittings, joints, strapping, and thrust blocking shall be exposed for hydrostatic pressure testing and inspection per NFPA 24.
- (i) Fire hydrants shall be placed throughout the Project Site such that the hose lay to a building is no more than three hundred (300) feet, and distance between fire hydrants does not exceed 600 feet.

### **2.3.7 Power**

2.3.7.1 Developer shall design and construct an electrical power system at the Project Site in accordance with PGPS Standard Specifications Division 33

### **2.3.8 Natural Gas Infrastructure**

2.3.8.1 Developer shall design and construct a natural gas system at the Project Site in accordance with PGPS Standard Specifications Division 33

### **2.3.9 Exterior Lighting, Power and Data Systems and Infrastructure**

#### **2.3.9.1 Exterior Lighting**

Developer shall, in accordance with the following requirements, design and construct a safe and sustainable exterior lighting, power, and data system and associated Infrastructure that accommodate pedestrians and nighttime circulation. Developer shall comply with the following requirements:

- (a) Road and Service Lighting: Lighting levels shall be a minimum of 0.9 Foot Candle (FC), with a uniformity ratio of 4:1 or better. Lighting may not be reduced for off hours.
- (b) Parking Lighting: Lighting levels shall be a minimum of 1 FC, with a uniformity ratio of 6:1 or better. Lighting may be reduced to 0.5 FC between 11:00 p.m. and 6:00 a.m., provided adaptive lighting is used to increase lighting when people are present.
- (c) Pedestrian and Bike Lighting: Lighting levels shall be a minimum of 1 FC, with a uniformity ratio of 4:1 or better. Lighting may be reduced to 0.5 FC between 11:00 p.m. and 6:00 a.m., provided adaptive lighting is used to increase lighting when people are present.
- (d) Plaza and Gathering Area Lighting: Lighting levels shall be a minimum of 3 FC, with a uniformity ratio of 4:1 or better. 3 FC is required for events or gatherings. Lighting shall operate at 1 FC in normal usage, and may be reduced to 0.5 FC between 11:00 p.m. and 6:00 a.m., provided adaptive lighting is used to increase lighting when people are present.
- (e) Loading Zone Lighting: Lighting levels shall be a minimum of 30 FC, with a uniformity ratio of 4:1 or better. Lighting may be reduced to 0.5 FC when the loading dock is not in use, provided adaptive lighting is used to increase lighting when people are present.

#### 2.3.9.2 Site lighting shall be designed to follow Project Site landscape design concepts

- (a) All Project Site lighting shall be designed and constructed to at a minimum meet light level and uniformity requirements of the IESNA, except where the Project Transaction Documents require higher levels.
- (b) Project Site lighting shall be designed and constructed to meet the LEED 4.0 Requirements of Sustainable Sites: Light Pollution Reduction.
- (c) Light fixtures shall meet the Backlight, Uplight, Glare (BUG) ratings, in compliance with Illuminating Engineering Society (IES), Technical Memorandum TM-15, for the lighting zone of the site to limit light pollution. Accessible areas within the Project Site shall have a rating of LZ2. All other Areas shall have a rating of LZ0 unless otherwise determined by PGCPs.
- (d) Project Site lighting will be integrated with the BMS for photocell and time schedule control via relay panels.
- (e) Emergency and egress (safety) fixtures shall be coordinated with emergency power requirements and obtain approval from Designated Fire Marshal.
- (f) Lighting sources shall have a color rendering index of eighty (80) or better.

#### 2.3.9.3 Exterior Convenience Power and Data Points

Developer shall provide convenience power outlets and data distribution in accordance with the requirements set forth below:

General Site: Provide exterior grade lockable cover duplex receptacles distributed throughout the site to facilitate site maintenance and public use, including, but not limited to outdoor study, public performance activities, amplified music, food service, etc. Outlet distribution shall be planned based on outdoor space design, with higher density of outlets and circuits where higher activity levels are anticipated.

## **2.4 Building Performance Requirements**

### **2.4.1 General Requirements**

2.4.1.1 Developer shall design and construct the Buildings in accordance with the requirements of the Contract Documents, including, in respect of each Area with the Buildings, the requirements of the applicable Area Data Sheet.

### **2.4.2 Circulation Requirements**

#### **2.4.2.1 Specific Space and Accessibility Requirements**

- (a) The Buildings shall be designed to provide universal access and to conform to all ADA requirements.
- (b) Gender inclusive restrooms, changing rooms and showers.
  - i. For all Buildings, one gender inclusive, ADA compliant restroom shall be required on each floor that has gender specific restrooms.
  - ii. Gender inclusive, ADA compliant changing room shall be required in each Building where gender-specific locker rooms or changing rooms are provided, and shall be located within such locker room or changing room so the User need not leave the locker room or changing room to access such gender inclusive changing room;
  - iii. Gender inclusive, ADA-compliant showers shall be required in each Building in which gender-specific showers are provided. In the event such gender inclusive showers are to be located within a locker room or changing room, such gender inclusive showers shall be located so that the User need not leave the locker room or changing room to access such gender inclusive shower.

## **2.5 Buildings**

### **2.5.1 Structural Systems**

#### **2.5.1.1 General Requirements**

- (a) Building structural frames shall be designed to minimize impact on the Program and visual appearance of the interior of the Buildings. The columns and braces shall not be placed in a manner that will limit interior functional floor area or useable wall area.

#### **2.5.1.2 Foundations**

- (a) The foundations for all Buildings and structures shall be designed and constructed in conformance with the geotechnical investigation report.
- (b) Design and construct perimeter walls for lateral soil, hydrostatic and seismic soil pressures, as designated by Developer's geotechnical investigation report.
- (c) Provide subdrainage systems for below-grade walls to relieve hydrostatic pressure associated irrigation water, or stormwater. Permanent pumped dewatering systems to lower the groundwater table at the site shall not be permitted.

#### **2.5.1.3 Gravity Loads**

- (a) The structural frame of the Buildings shall conform to the design live loads set forth in Table 2.5.1.3-a.

<b>Live Load Requirements for Buildings Structural Design</b>	
<b>Area or Element</b>	<b>Minimum Design Live Load</b>
Laboratory	100 psf plus 35 psf for casework and partitions <sup>1</sup>
Area Types identified as Storage: General	150 psf
Area Types identified as Stairwells	100 psf
All other spaces	80 psf plus 20 psf for partition loads
Rooftop mechanical spaces	Weight of equipment plus 30 psf. Snow loading, including snow drift loading shall be included per ASCE 7-10, with a minimum drift load of 35 psf

**Table 2.5.1.3-a**

- (b) All other design gravity loads shall conform to applicable Law.

### **2.5.2 Minimum Floor-To-Floor Heights**

**2.5.2.1** Floor-to-floor heights shall be designed and constructed to accommodate structural frame and Facility System components concealed within ceiling space in accordance with these Technical Requirements. Maintenance space above ceilings shall not require any special equipment or demolition of ceiling for access.

2.5.2.2 Ceiling height shall be defined as the minimum clear distance between the dominant floor surface, excluding lecture platforms or daises and the dominant ceiling plane. Soffits, beams, light fixtures and fire sprinklers may penetrate below the plane by up to three (3) inches, provided they do not interfere with sightlines or overall room performance, and provided a minimum safe clearance underneath is maintained. Soffits and beams may not comprise more than eight percent (8%) of the total ceiling area.

- (a) For rooms with exposed structure and utilities, the dominant ceiling plane shall be defined as the underside of the lowest element, except that soffits, beams, light fixtures and fire sprinklers may penetrate below the plane by up to three (3) inches.
- (b) For rooms with multiple ceiling planes, the dominant ceiling plane shall be defined as the underside of the lowest ceiling plane, except that soffits, beams, light fixtures and fire sprinklers may penetrate below the plane by up to three (3) inches.
- (c) Ceiling mounted equipment, such as projectors may be located below the dominant ceiling plane, provided they do not interfere with sightlines or overall room performance, and provided a minimum safe clearance underneath is maintained. Acoustic clouds or other treatment may not be placed below the dominant ceiling plane
- (d) Pendant (Direct/Indirect) light fixtures may be used, provided ceiling heights are increased to ensure that the overall appearance and operation of the space is maintained. In general, for ceilings heights of less than twelve (12) feet, ceiling heights will be required to increase by two (2) feet. Ceiling heights from twelve (12) to fourteen (14) will need to increase by one (1) foot.

### 2.5.3 Floor Systems

2.5.3.1 Slab on grade:

- (a) All slabs on grade shall be constructed with under slab vapor barriers with a water vapor permeance no greater than 0.010 perms (0.6 ng/(s m<sup>2</sup> Pa).
- (b) Moisture or waterproofing shall be provided at all slabs subject to ground water
- (c) Physical (non-chemical) termite barriers shall be provided at all slabs where termite activity is possible and where there is a potential for damage to building fabric
- (d) The site shall be evaluated for the presence of Radon or other soil gasses, and appropriate measures shall be implemented including passive or active systems in accordance with ANSI CC-1000 if indicated.

2.5.3.2 All slabs shall be constructed to be suitable for the intended floor finish, and to protect the finish from failure or accelerated deterioration. This shall include

- (a) moisture control, including limiting slab moisture, moisture testing and moisture barriers
- (b) surface smoothness, including elimination of trowel marks and ridges
- (c) crack control through control joints

2.5.3.3 Finish surfaces to the following tolerances, according to ASTM E 1155 (ASTM E 1155M), for a randomly trafficked floor surface:

- (a) For slabs-on-grade, overall values of flatness, F(F) 35; and of levelness, F(L) 25; with minimum local values of flatness, F(F) 24; and of levelness, F(L) 17

- (b) For suspended slabs, overall values of flatness, F(F) 30; and of levelness, F(L) 20; with minimum local values of flatness, F(F) 24; and of levelness, F(L) 15
- (c) Finish and measure surface so gap at any point between concrete surface and an unlevelled, freestanding, 10-ft.- long straightedge resting on two high spots and placed anywhere on the surface does not exceed 1/8 inch.

#### **2.5.4 Building Envelope**

##### **2.5.4.1 General Design Principles**

- (a) Building envelope shall be designed for efficiency, maintainability, security, and privacy.
- (b) All exterior surfaces shall be treated to be readily cleansable from graffiti.
- (c) Building envelope shall be designed to accommodate thermal movement across the range of temperatures normally experienced in Maryland, including solar radiative heating.
- (d) Cladding shall be designed for snow and freeze resistance.
  - i. Provide wall protection at areas where snow might accumulate. Wall protection shall be waterproof and resistant to moisture or freeze/thaw damage.
  - ii. Eliminate thermal bridging at attached exterior elements.
  - iii. Provide snow melt in gutters or other elements subject to damage from repeated freeze/thaw cycles.
- (e) Provide covered or recessed entries at all buildings.

##### **2.5.4.2 General Requirements**

- (a) Exterior cladding shall be designed to provide very high levels of passive thermal performance, including:
  - i. Minimizing air, moisture and vapor leakage
  - ii. Elimination of thermal bridges: provision of continuous layer of insulation
  - iii. Use of high performance glazing with high visual light transmission to reduce lighting loads, and efficient solar shading

##### **2.5.4.3 Building Façade**

- (a) All exterior cladding shall be designed in accordance with Developer's Integrated Pest Management plan, and shall at a minimum:
  - i. ensure that facilities do not provide potential attraction or habitat for pests
  - ii. be designed to exclude pests
  - iii. be designed to facilitate inspection and monitoring of pest activities
- (b) Developer shall utilize structural and procedural modifications to reduce food, water, harborage, and access used by pests.
- (c) All exterior cladding shall be designed to limit dirt/dust accumulation, and to allow cleaning either from ground boom-lift equipment or from roof mounted staging.
- (d) Where sun control devices are used, operable and fixed sun control devices must be used, which allow for ease of maintenance, repair, and replacement. Window washing systems used for the facility must also be compatible with any sunscreens or sun control devices.
- (e) The facilities must have provisions for cleaning the interior and exterior surfaces of all windows, skylights, and other glazed openings. Demonstrate that cleaning and maintenance

of interior glazing surfaces can be achieved without extraordinary means and methods.  
Submit this information with the construction documents.

## **2.5.5 Interior Finishes**

PR1	
PR2	

**Table 2.5.7.1-a**

### **2.5.5.1 General Partitions Requirements**

Any material selected by Developer for partitions, including movable unitized partitions or any other type of partition selected by Developer, shall conform to all requirements, including load requirements, of the Contract Documents.

2.5.5.2 Provide, impact protection as required to protect against scratches, dents, and other surface damage. Wall protection may include use of high impact resistant construction (masonry, etc.) or use of bumper rails, floor bumper rails, corner guards or wall paneling. Impact protection shall be stainless steel, Acrovyn or similar. Impact resistance shall protect the full height of the wall from surface damage. Surface damage is defined as any damage that breaks or deflects the surface finish or reduces its functional or visual performance.

## **2.5.6 Autoclaves and Sterilizers**

2.5.6.1 The Developer shall install the autoclaves and sterilizers noted in the Area Data Sheets and Equipment Lists.

2.5.6.2 Steam supply shall be at the developer's discretion. Developer may install a building level steam boiler and provide steam to autoclaves and sterilizers, or may use local steam generators. Where local steam generators are used they shall not use Assignable Area. Local generators may be located within an autoclave's footprint, or additional room area may be provided.

2.5.6.3 Provide vented hoods at all autoclaves, sterilizers, glass wash/dryers and other heat producing equipment.

2.5.6.4 Provide valved cold water supply to drain outlets to allow for automatic waste water temperature control.

## **2.5.7 Vertical Circulation**

### **2.5.7.1 General Requirements**

- (a) Elevators shall conform to "Division 14 – Conveying Equipment" of PGCP's Building Construction Standards

- (b) Elevators are inspected by the State of Maryland, Elevator Inspectors, Accommodate all associated requirements for design, construction and inspections.

#### 2.5.7.2 Piping

- (a) Sanitary line sloping shall be 2% for piping connected to 1.2 GPF water closets and/or 1.0 GPF urinals

#### 2.5.7.3 Fixtures

- (a) All fixtures shall be low flow and WaterSense labeled. Except for service/utility sinks, dormitories and kitchen/breakrooms, faucets and other water supply devices shall be motion sensor activated wherever possible, or shall include other automatic shut off. Flush valves shall be low flow manually operated flushometers.
- (b) Toilets: Toilets shall be wall hung, vitreous china, siphon jet action, Maximum Performance (MaP) tested by IAPMO to exceed 500g capacity.
- (c) Urinal: Urinals shall be wall hung, vitreous china.
- (d) Lavatory: Wall hung, vitreous china, 20-inch by 18-inch. Sanitary waste traps for equipment shall be "P" type, 17 gauge, cast brass, slip joint nuts, cast brass escutcheons, and cleanout plug. Visible traps shall be chrome plated.
- (e) Sink (Counter Mounted): 18 gauge, type 304 stainless steel sink counter mounted, single bowl, 19-inch by 18-inch by 10-inch deep stainless steel. Deck mounted low flow faucet, lever handle, gooseneck, rigid spout plain outlet. 17 gauge chrome plated 1-1/2-inch by 1-1/2-inch trap.
- (f) Fixtures with metal finishes exposed to and visible by Users shall have a polished chrome finish.
- (g) All fixtures shall be lead free, regardless of if usage is for consumption or not.
- (h) All fixtures shall be vandal resistant.

#### 2.5.7.4 Sewage Systems

- (a) All toilet rooms, laundry rooms and first floor Trash/Recycling rooms shall have floor drains.
- (b) Make all cleanouts accessible. If cleanouts are installed in an accessible ceiling space, the cleanout shall be extended through the floor above. Use graphite on all cleanouts with all threads being thoroughly greased after acceptable pressure test.

#### 2.5.7.5 Emergency Plumbing Fixtures

- (a) Emergency eye or eye/facewash equipment (including appropriate drainage) shall be provided in accordance with the Area Data Sheets. This equipment must meet the performance and installation requirements of American National Standards Institute (ANSI) Z358.1 1998.
- (b) A combination eyewash/emergency shower shall be provided in accordance with the Area Data Sheets. The combination unit must be located so that the travel distance is no more than 10 seconds or 100 feet with no obstructions and only one door to pass through to reach the unit.
- (c) Hand held drench hoses shall not be considered eyewash units. In some cases, a sink-mounted eyewash and a drench hose may be installed in lieu of a combination



eyewash/safety shower. Such cases shall be discussed by Developer's Authorized Representative and the Owner's Authorized Representative.

- (d) All emergency plumbing fixtures shall be:
  - i. supplied by domestic tempered water
  - ii. readily visible and accessible to the laboratory or work site. The unit shall be located as close to the hazard as possible and cannot be blocked by building structures, cabinets, supplies or equipment;
  - iii. provided with an activation device, such as stay open ball valve, that allows the user full movement of both hands after the valve is turned on;
  - iv. identified with a highly visible sign; and
  - v. located so as not to pose an electrical shock hazard. No electrical outlets shall be permitted within six (6) feet unless such electrical outlets are GFI protected.
- (e) In addition to the requirements set forth in Section 2.5.12.10 (d), all eyewash units shall be:
  - i. regulated to provide a spray force of 0.4 gallons per minute at 30 psi;
  - ii. mounted such that the water nozzles are 33 inches to 53 inches from the floor level; height shall also comply with ADA requirements; and
  - iii. mounted so that spray nozzles, when activated, are no more than 18 inches from the counter front when located above work counters or benches.
- (f) In addition to the requirements set forth in Section 2.5.12.10 (d), emergency shower units shall be:
  - i. Installed and located so both the shower and eyewash can be used at the same time by one person;
  - ii. Adequately supplied with potable water to meet the requirements of each component. The shower must be able to deliver a minimum of 20 gallons per minute. The diameter of the water pattern of the shower measured 60 inches above the surface on which the user stands must be a minimum of 20 inches. The center of the spray pattern shall be located at least 16 inches from any obstruction; and
  - iii. Installed so that the shower head is not less than 82 inches or more than 96 inches from the surface on which the user stands.
  - iv. Include floor drains.

#### 2.5.7.6 Rainwater Management

- (a) Open faced downspouts may be used for building rainwater management, provided downspouts along public areas:
  - i. are connected to sub surface storm water systems;
  - ii. occur at articulated corners of the Buildings;
  - iii. are complementary to the architectural style and Building aesthetic in terms of location, profile and color;
  - iv. do not exceed 8" in any dimension; and
  - v. are not used to drain large contiguous and flat roof areas over 18,000 square feet.
- (b) Where downspouts discharge onto paved areas, water flows shall be managed to limit volume and rate of flow to eliminate nuisance flooding. Standing water shall not be

permitted. Sheet flowing water depths shall not exceed 1/8 inch at any point for pedestrian paving and 1/4 inch for vehicular paving.

## **2.5.8 Mechanical Systems**

### **2.5.8.1 General Design Elements**

- (a) HVAC systems for all community spaces (gym, multipurpose room, etc.), health suite, instrumental storage, and main office areas shall be zoned to be able to operate efficiently outside normal school hours, and without requiring operation of other portions of the building. If connected to the central plant, central plant shall be able to be operated efficiently under the lower load. These spaces are often utilized outside of normal school hours and should have systems to limit energy consumption during this time.
- (b) Each classroom shall be a separate thermostatic zone.
- (c) Zones that require powered exhaust by code shall not be grouped with other zones to protect the air balance in the building.
- (d) Buildings shall be balanced to provide 10-15% positive pressurization of all outside air.

### **2.5.8.2 General Requirements**

- (a) Comply with PGCPs Design and Construction Standards
- (b) Developer shall comply with the following Manuals and Guidelines in performing the Work in respect of mechanical systems and associated support system designs:
  - i. ANSI - American National Standards Institute, Inc.;
  - ii. FM - Factory Mutual;
  - iii. UL - Underwriter's Laboratories, Inc.; and
  - iv. SMACNA – Sheet Metal Developer's National Association.
- (c) The Buildings shall also be designed to comply with the following Manuals and Guidelines, except where relevant codes exceed the requirements of the Manuals and Guidelines:
  - i. ASHRAE 55-2017;
  - ii. ASHRAE 62.1-2019; and
  - iii. ASHRAE 90.1-2019.
- (d) The installation or utilization of mechanical systems that use chlorofluorocarbons or hydrochlorofluorocarbons shall not be permitted.

### **2.5.8.3 Ventilation**

- (a) Outdoor air rates shall be the larger of:
  - i. Approved State Building Codes; or
  - ii. ASHRAE Standard 62.1 rates at the breathing level (per LEED EQ credit Enhanced Indoor Air Quality Strategies).
- (b) Outdoor air measurement and control and/or CO<sub>2</sub> sensors are required in accordance with LEED EQ credit Minimum Indoor Air Quality Performance and Enhanced Indoor Air Quality Strategies and Building Code.
- (c) Operable windows shall not be the sole source of ventilation for any occupied space.
- (d) Systems relying on infiltration drawn in by negative pressure from exhaust systems shall not be permitted.

#### 2.5.8.4 General Exhaust Systems

- (a) Exhaust systems shall meet the rates listed in ASHRAE Standard 62.1 except the following higher rates shall be used:
  - i. Toilet rooms (both public and private): 50 cfm per fixture;
  - ii. Shower rooms: 20 cfm per shower head; and
  - iii. Printer/Copy Rooms and rooms with chemical handling shall be exhausted to the outdoors sufficient to maintain a 0.05 inches negative pressure per LEED EQ 5 (Enhanced Indoor Air Quality Strategies). With a minimum of 1 cfm/ft<sup>2</sup>.

#### 2.5.8.5 Filtration

- (a) Air handlers shall include:
  - i. Two (2) inch MERV 8 pleated prefilter. This filter shall serve as a construction filter and be permanently removed post-construction; and
  - ii. Fifteen (15) inch MERV 13 bag filter.
  - iii. Static pressure for central units shall be designed accordingly.
- (b) Fan-coils and other air handlers serving lab areas shall be protected with minimum four (4) inch MERV 8 pleated filters.
- (c) Fan coils serving rooms such as telecom, electrical rooms, utility spaces shall be protected with a minimum two (2) inch MERV 8 pleated filters

#### 2.5.8.6 HVAC Zoning

- (a) All areas of a Building shall be zoned as required to prevent non-uniform temperatures due to variable heat gain from factors including outdoor exposure or variation in people density. Each zone shall have its own thermostat(s) and terminal unit.
- (b) All interior zones shall have heating capability to prevent overcooling except for the following:
  - i. spaces with high internal loads;
  - ii. spaces that are not considered livable per the Approved State Building Codes, such as MDF/IDF rooms and small storage rooms

### 2.5.9 Building Management System

Developer shall install a comprehensive building management system. The BMS installed by Developer shall comply with PGCPs Construction Standards Division 23.

### 2.5.10 Electrical and Lighting Systems

- (c) Floor set power outlets:
  - i. In-floor power outlets shall be recessed or flush as noted in the ADS. Raised or monument outlets shall not be permitted.
  - ii. All flush floor outlets shall have captive/hinged covers that can be held closed by turn screw or similar positive latching mechanism.
  - iii. Recessed outlet boxes shall have hinged covers with wire slots and be large enough to fully enclose any standard 120V plugs, such that the lids close fully when outlets are in use.
  - iv. All outlet boxes and covers shall be corrosion resistant construction and liquid-tight where likely to be exposed to liquid.

#### 2.5.10.1 Generator System

- (a) Emergency Generators shall be installed when required by MEMA Regulations.
- (b) Standby Generators shall be provided to support non-emergency essential loads as noted in the Program Data sheets for a minimum of 24 hours. Essential non-emergency loads include, but are not limited to:
  - i. Security systems, including ACAMS, locks and readers, cameras, etc
  - ii. Alarm and annunciation systems
  - iii. Communications systems, including phones, VOIP, WiFi, Mas Notification, DAS/ERRC/BDA, etc.
  - iv. IT and data systems
  - v. Cafeteria food storage
- (c) MEMA emergency generators and required standby generators may be used to support code mandated emergency loads (emergency lighting, etc). Where such loads are carried by the generator, they shall be included in the fuel capacity calculation such that all connected loads can operate with no load shedding for 24 hours.
- (d) Where installed, generators and associated emergency power systems shall be in full compliance with PGCPs Standard Specification Division 26 for diesel generators
- (e) The emergency and standby generator system must consist of one or more central engine generators and a separate distribution system with automatic transfer switches, distribution panels, lighting panels, and, where required, dry-type transformers feeding 208Y/120V panels.
- (f) The engine generators must be sized to serve approximately 100% of the design load and to run at a maximum of 60% to 80% of their rated capacities after the effect of the inrush current declines. When sizing the generators, the initial voltage drop on generator output due to starting currents of loads must not exceed 15%. Day tanks must be sized for a minimum capacity of 24 hours of generator operation and shall be double-walled. Provide direct fuel oil supply and fuel oil return piping to the on-site storage tank. Care must be exercised in sizing fuel oil storage tanks by taking into account that the bottom 10% of the tank is unusable and that the tank is normally not full (normally at a 70% level) before the operation of the generator.
- (g) Engines and generator sets shall be new
- (h) Generator alarms must be provided on the exterior wall of the generator room. All malfunctions must be transmitted to the BAS. In all buildings, with or without BAS, a generator alarm annunciator must be located within the fire command center. The generator output breaker must have a contact connected to the BAS indicating output breaker position, to allow annunciation of the open position on the BAS.
- (i) Automatic transfer switches must include a bypass isolation switch that allows manual bypass of the normal or emergency source to ensure continued power to emergency circuits in the event of a switch failure or required maintenance.

#### 2.5.10.2 Power Monitoring Systems

- (a) All Facilities shall incorporate power monitoring systems to monitor the total electrical demand load at the service entrance of the Facility.

## 2.5.11 Fire Protection Systems

### 2.5.11.1 Fire Sprinkler Systems

Developer shall design, construct and install a fire sprinkler system that includes, at a minimum, a complete hydraulically calculated automatic wet pipe sprinkler system for entire buildings, in accordance with NFPA 13, Approved State Building Codes and FM Global Fire Code. The system shall also conform to PGCPs design and technical standards.

FP1	
FP2	
FP3	

Table 2.5.16.1-a

### 2.5.11.2 Specific Fire Sprinkler Requirements

- (a) Developer to verify and coordinate requirements by building type with the Fire Authority prior to or with required fire suppression system shop drawing review.
- (b) Coordinate with the overall architectural design to ensure sprinkler head layout addresses interferences and or obstructions requiring special protection, additional piping and heads, or drains. Sprinkler heads shall be placed, as far as possible, within the architectural grid or pattern of the design, and coordinate with the overall architecture of all spaces. Sprinklers shall be symmetrically placed, centered in ceiling tiles, and equidistant between lights, diffusers, and other elements. Sprinklers may be spaced closer than the maximum spacing allowed so that symmetry and even spacing are achieved.
- (c) The maximum permissible flow velocity through automatic sprinkler piping shall be 15.0 feet per second. The minimum starting pressure at the most remote sprinkler head shall be not less than 7 psi.
- (d) Paint all exposed fire sprinkler piping to match wall/ceiling paint color.
- (e) Coordinate routing of sprinkler piping with the other trades for the Project. Main piping runs shall be organized within utility zones where possible to ensure ease of access, renovation or alteration.
- (f) Identify valves and label piping in accordance with NFPA 13 and PGCPs standards. Install stickers applied to the fire sprinkler piping indicating the direction of flow
- (g) Valves in the ceiling or interstitial space shall be located so they are easily accessible by ladder without removing the ceiling grid to access the valves.
- (h) Design shall comply with the Owner's Insurance Underwriters' requirements.

### 2.5.11.3 Sprinkler Heads

- (a) Provide high temperature sprinkler heads in all electrical rooms or other areas with elevated temperatures such as mechanical rooms. Avoid running sprinklers and piping over electrical equipment and electrical panels.
- (b) Provide recessed sprinkler heads in all area. Semi-recessed sprinkler heads are not permitted.

- (c) Provide sprinkler head protection for all heads at exposed ceilings or in areas where heads may be vulnerable to impact from activities in the area below.
- (d) Provide stainless steel or other corrosion resistant heads in all high humidity areas, such as shower rooms and locker rooms and in concealed locations.
- (e) Provide upright type sprinklers for exposed piping, or pendent type heads for concealed piping.
- (f) Use of flexible connectors is permitted. Connector must be UL rated and supported by bracket system connected to the ceiling grid.
- (g) Sidewall Locations: Where required and where approved by the Designated Fire Authority. Sidewall sprinklers are desired for exterior protection to avoid the use of exposed pipe and the requirement for freeze protection.
- (h) Finished Ceilings: Located at all ceilings with lay in acoustical tile ceiling and at plaster or gypsum board type ceilings; Semi recessed sprinkler.
- (i) Ceilings in exterior of Building: Provide sidewall fire sprinkler heads and escutcheons to match ceiling color.
- (j) Where fire sprinkler heads are located in rooms with surfaced mounted lights, provide 2 piece adjustable sprinkler escutcheon, with adjustment from 1-7/8 inches to 3-1/8 inches below finished ceilings. Fire sprinkler drop nipple shall be mounted 2-1/4 inches below the finished ceiling surface.

#### 2.5.11.4 Fire Protection Specialties

- (a) Install drains on main rises and auxiliary drains at all low points in the system. Drains shall be plumbed to the exterior at a location approved by the Designated Fire Authority and in accordance with CDPHE policy.
- (b) One Inspector's test drain shall be installed for each sprinkler system. Drains and Inspector's tests shall be at locations approved by Designated Fire Authority. Inspectors test drains shall be located at a remote location from the riser to facilitate removal of air from the system.
- (c) Provide drain line to sanitary sewer standpipe and P-trap assembly. Drain valves shall be of the angle type. Main drains are to be run into the sanitary sewer, not all drains. The drain shall be sized to accommodate the full flow of the main drain.
- (d) Pipe drain valves to a floor sink or to the other receptors. Discharge shall be visible from sight drain fittings or open end drain pipe. Provide flushing connections at ends of all cross mains. Inspectors test valves and main drains shall not be run into floor sinks. Auxiliary drains may be run into floor sinks, but not drains requiring flow tests such as main drains and inspector's test valves.
- (e) Freeze protection must be provided for all exterior pipes and any pipe that is located in exterior soffits or spaces that do not insulate the sprinkler pipe from freezing.
- (f) Combined standpipe systems (Class I Standpipes combined with a wet fire sprinkler riser): The 2 1/2" fire department outlets that are accessible to the public shall be provided with Knox caps.
- (g) Fire sprinkler risers shall not be located in custodial spaces or storage rooms.

## **2.5.12 Fire Protection and Life Safety Alarm System**

- (a) Fire Protection and Life Safety Systems Components
  - i. Developer shall design, construct and implement a fire protection and life safety system (a “**Fire Alarm System**”) that includes, at a minimum, the following components:
    - 1. fire alarm control panel;
    - 2. initiating devices;
    - 3. fire alarm notification devices;
    - 4. mass notification devices;
    - 5. fireman’s remote annunciator panel (FRAP) with remote microphone; and
    - 6. fire alarm auxiliary equipment control.
- (b) Systems with Connections to the Fire Alarm System
  - i. The following systems, at a minimum, shall be connected to the Fire Alarm System:
    - 1. Automatic extinguishing systems alarm system flow switches, valve monitors and post indicating valves;
    - 2. elevator controllers for recall;
    - 3. door hold-open/closure devices without integral smoke detectors;
    - 4. fire barrier roll-down and shutters;
    - 5. fire/smoke dampers;
    - 6. fire pump controller to monitor status;
    - 7. duct mounted smoke detectors and programmable relays;
    - 8. Gas detection systems or any hazardous materials monitoring systems; and
    - 9. Flow alarms to emergency showers.
- (c) Fire Alarm System shall meet all requirements of PGCPs Technical Standards.
- (a) Fire Protection and Life Safety Alarm System: General Requirements The Fire Alarm system shall be in full compliance with PGCPs Standard Specification 284600 Fire Detection and Alarm System

## **2.5.13 Mass Notification Requirements**

### **2.5.13.1 General Requirements**

The Mass Notification System shall include the following:

- (a) The system shall be capable of the reproduction of prerecorded, synthesized, and live messages with voice intelligibility from two (2) locations; within each building and from Campus Dispatch. Two-way communications systems are not required.
- (b) The system shall provide Layer 1 (in-building emergency communication system) and Layer 2 (wide area MNS) in accordance with NFPA 72.
- (c) The system design shall be based on a risk analysis and assessment by a third party in collaboration with the Designated Fire Official and Public Safety with consideration of each building's use and risks, as well as any exterior spaces such as parking lots, outdoor assembly areas, etc. Prior to system design, the Risk Analysis must be reviewed and approved by the Designated Fire Official and Public Safety.

- (d) The system shall provide seamless, integrated operation from Campus Dispatch with the capabilities of issuing an individual building message or simultaneously delivering a campus-wide message (Layer 1 and Layer 2 simultaneously) for the existing and new portions of the campus.
- (e) The MNS shall be compatible with existing equipment in Central Plant and Campus Dispatch.
- (f) The Designated Fire Official shall approve the sequence of operation for the MNS prior to final design.
- (g) The system shall be integrated with any developer provided PA or other sound reinforcement system in such a manner that it can over-ride or mute audio signals. The system shall also provide input feed for any Owner-provided PA or sound reinforcement system.

## **2.5.14 Security Systems and Infrastructure**

### **2.5.14.1 Access Control and Alarm Monitoring Systems (ACAMS)**

- (h) Developer shall develop and implement a Security System that utilizes an ACAMS platform that utilizes the same software versions being currently utilized in the Existing Campus.
- (i) The ACAMS system shall be in full compliance with PGCPs Standard Specification 281000 Access Control

### **2.5.14.2 Video Surveillance System**

- (a) Developer shall procure and install video monitoring in accordance with the Area Data Sheets to provide comprehensive video surveillance. The locations and positioning of the video surveillance cameras shall be determined in consultation with the Owner during the design review process, but shall include, at a minimum the areas noted in section the education specifications
- (b) Video Surveillance System shall be in full compliance with PGCPs Standard Specification 280000 Electronic Safety and Security

### **2.5.14.3 Emergency Responder Radio Coverage (ERRC)/Bi Directional Amplifiers (BDA)/Distributed Antenna System (DAS)**

- (a) Developer shall provide emergency responder radio coverage (ERRC) for all Facilities in accordance with Approved State Building Codes. The ERRC shall be provided by installation of an amplified distributed antenna system, bi directional amplifier, or other acceptable signal amplification technology approved by code or by the Designated Campus Fire Marshal.



## PGCPS ACF TECHNOLOGY PACKAGES

Updated 8/19/2020

Type	Item	Purc	Coord	Install	O&M	Notes
Building Service (Data and Phone)	Incoming Services - Coordinate with IT	D	D	V	P	
Building Service	Rigid conduit to MDF x 4 inch	D	D	D	D	
Building Service	TV Service	D	D	V	P	
Building Service	TV Distribution System	D	D	D	D	
Building Service	Back-up generator (fly wheel)	D	D	D	D	
Energy Management	BAS Controllers	D	D	D	D	Coordinate with PGCPs maintenance for product.
Energy Management	Cabling for BAS	D	D	V	P	
Multi-purpose rooms AV (Cafetorium/Music/Dance/Media center/Gym/Choral)	Cabling	D	D	D	D	
Multi-purpose rooms AV (Cafetorium/Music/Dance/Media center/Gym/Choral)	Electronics	D	D	D	D	
Phones	Rack	P	D	V	P	
Phones	Cabling	D	D	V	P	
Phones	Jacks	D	D	V	P	
Phones	Faceplates	D	D	V	P	
Misc.	Computers	P	P	V	P	
Misc.	Copiers	P	P	V	P	
Misc.	PoE Clock	D	D	V	P	
Category 6A Cabling	Category 6A Cabling	D	D	V	P	
Category 6A Cabling	Conduits	D	D	D	D	
Category 6A Cabling	Patch Panels	D	D	V	P	
Category 6A Cabling	Jacks	D	D	V	P	
Category 6A Cabling	Faceplates	D	D	V	P	
Category 6A Cabling	Patching	D	D	V	P	
Fiber	Multi-Mode Fiber	D	D	V	P	
Fiber	Connectors	D	D	V	P	
Fiber	Fiber Enclosures	D	D	V	P	
Fiber	Patching	D	D	V	P	
Closet	Rack	D	D	V	P	
Closet	Ladder Runway	D	D	V	P	
Closet	Vertical Wire Managers	D	D	V	P	
Closet	Servers	P	P	V	P	
Network Equipment	Controller	D	D	V	P	
Network Equipment	Network Switches	D	D	V	P	
Network Equipment	Wireless Access Points	D	D	V	P	
Network Equipment	Programming	D	D	V	P	
Network Equipment	UPS	D	D	V	P	
AV	Bell System	D	D	D	P	
AV	PA System	D	D	D	P	
AV	Audio Enhancement System	D	D	V	P	
AV	Cabling (Audio Enhancement)	D	D	V	P	
AV	Interactive Panels	D	D	V	P	
AV	Cabling (Interactive Panels)	D	D	V	P	
AV	Projectors	D	D	V	P	
AV	Non-Interactive Displays	D	D	V	P	
CCTV	Cameras	D	D	D	D	Genetech certified installer.
CCTV	Switches	D	D	V	P	
CCTV	Programming	D	D	D	D	Genetech certified installer.
Access Control	Door Contacts	D	D	D	D	Genetech certified installer.
Access Control	Card Readers	D	D	D	D	Genetech certified installer.

## PGCPS ACF TECHNOLOGY PACKAGES

Updated 8/19/2020

Type	Item	Purc	Coord	Install	O&M	Notes
Access Control	Electronic Strike	D	D	D	D	Genetech certified installer.
Access Control	Proximity Exit Sensor	D	D	D	D	Genetech certified installer.
Access Control	Motion Sensor	D	D	D	D	Genetech certified installer.
Intercom	Intercom	D	D	D	D	Front Door.
Intercom	Cabling	D	D	V	D	
MDF/IDF	Conduits	D	D	D	D	
MDF/IDF	Cabling	D	D	V	D	

### Key

D	Developer
V	Required Vendor
P	PGCPS

**FF&E LIST**

**Introduction**



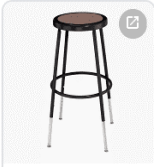



PGCPS does not currently have an adopted furniture standard. The tabs in this spreadsheet should provide some guidance to the type and quality of the movable furniture PGCPS expects. Pictures are provided as visual examples but should not be construed to represent a particular vendor or model. All furniture will be purchased through a PGCPS vapproved vendor.





The first four tabs provide guidance on the most common furniture items. These items should be consistent through the school and across schools.







The remaining tabs address unique furniture or movable equipment and are arranged according to the sections in the educational specification.





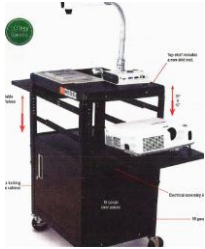
Every attempt has been made to identify all the furniture or movable equipment in the educational specification; however, if an item has been overlooked, the educational specification supercedes this document and must be provided.



On occasion, a furniture item may be more efficiently provided as a built-in. This is acceptable as long as the requirements listed are met.

Chairs	Example	Requirements	Where	In addition	comments
Student chair		Smooth Cantilever Chair 15 gauge steel tubing base with textured enamel shell seat; flex back; no chair baskets for PK-5.	All classrooms and small group rooms		PreK 13" height Grades 1-4 15" height Grades 5-8 18" height
Swivel chair		Swivel chair; 19 1/4 " with no wheels or lockable wheels	Computer work stations		No swivel chairs in PK-K
Stool		Adjustable height stool; 15 gauge steel tubing base	Art and Stem Labs		Adjustable height swivel chair for Science Teacher
Teacher chair		Swivel/tilt adjustable height; integral arms; consider 19" mesh back	All classrooms and small group rooms		
Admin chair (ergonomic)		Swivel/tilt adjustable height; integral arms; consider 27" mesh back	All offices and conference rooms		






Chairs	Example	Requirements	Where	In addition	comments
Principal Chair		Swivel/tilt adjustable height; integral arms; 27" back; Leather	Principal office		
Side or guest chair		15 gauge steel tubing base with textured seat and back and integral arm; 17 1/2 to seat height; medium to dark color	Most offices and reception		
Music posture chair		16 gauge tube frame with molded polypropylene seat; 18 1/2 " seat; folding tablet arm	Music classrooms		Wenger preferred
Stackable chair		23.0"D x 21.0"W x 32.25"H	Cafetorium		Chair cart match to chair option
Soft seating		Medium to dark colors; wood or no arms; no loose cushions	media center and teacher lounge		
Alternative seating		Swivel (no wheels) seating for high top tables or benches; ball seats for computer work stations; rocking stools	Throughout the school		



Tables and Desks	Example	Requirements	Where	In addition	comments
Student desks		25x27x18 top Adjust. height	All classrooms and small group rooms	Standing desks	
Science Lab desk		72" Height x 36" Width x 18" Depth	Science labs		May be option for STEAM lab
Art table		Four person 54w x64l x33.75h; Wood block top; storage below; on casters	Art Room STEAM	Note: Elementary art tables are two person tables with adjustable legs	
Work Tables		High wear laminate top with integrated edges; 36"x 72"; adjustable legs	Classrooms, admin area		42" diameter laminate top
Computer Workstations		30d X60l X 28h	Resource rms, media center		optional use in STEAM lab






Tables and Desks	Example	Requirements	Where	In addition	comments
Media Center tables		15 Gauge steel base with high impact laminate top in a variety of shapes	Media Center		Consider a couple of high top tables and bench tops (maybe at windows)
Cafeteria tables		Folding uniframe with seats attached; on casters; may be round or rectangular	Dining Area		Some cafeteria tables must be for K-3 children who typically eat together as a class (24-26)
Printer Table					
Mobile teacher's cart			Classrooms		






Tables and Desks	Example	Requirements	Where	In addition	comments
Horseshoe table		adjustable table legs; lamine top w/ 15 gauge metal legs	PK-5 classrooms and small group areas		
Primary grades table		48' X 24"; adjustable table legs; lamine top w/ 15 gauge metal legs	PK-K classrooms and small group areas; Optional tables vs chairs in Grade 1		








Admin Desks	Example	Requirements	Where	In addition	comments
teacher desk		Rectangular work surface with mobile file pedestal; 30" x 66"; casters with modesty panel	Classrooms, small group spaces		
admin desk #1		Desk (30"X66"); Return (24" X 42"); mobile pedestal box (right or left)	Offices unless otherwise specified		
admin desk #2		Conference L shaped desk; Height: 730mm, Width: 2100mm; note; right or left flexibility	Assistant principals and guidance counselors		An alternative would be a desk and small circular table
principal's desk		Office suite - wood - desk, bookshelf, small conference table	Principal's office		
Side table		20x20x20	Teacher's lounge, reception, guidance		

Conference table		60x144x42x29h; with electric and data connections	Conf rooms with one table		36x84 or 42 X 83; 16 gage base with laminate top for flexible configurations
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Casework	Example	Requirements	Where	In addition	comments
Teacher wardrobe		Metal or wood laminate or built-in 36"W x 22"D x 72-84"H; lockable	All classrooms, small group rooms		May be built-in
Cabinets		Metal or wood laminate or built-in 36"W x 18"D x 72-84"H; adjustable shelves, lockable	Science, art		See science tab for glass front cabinet
Bookcases		Metal or wood laminate or built-in; Size to fit room design	Classrooms, small group areas, offices		May be built-in
File cabinets		Metal - four drawer vertical	Classrooms, small group areas, offices		Fire safe files in record storage; lateral files only in low use settings; leveled at installation
Cubbies		Wood -11" cubbies; 14" deep X 52" H for PK and K; 14" deep X 60" H for Grades 1-5	All classrooms - PK-5		Cubbies may be built-in casework

Main Office and Guidance	Example	Requirements	Where	In addition	comments
Display Case		Safety glass with adj. shelves	Both Lobbies		
Electronic display		75" - 86" wall signage	Both Lobbies		
Two drawer under desk file cabinet		metal, two draw on casters	Reception		See typical admin desk configuration as an option
Display Rack			Reception		
Small safe		3-4 Cu. Ft.; fire resistant	Main office		

# Health Suite Space and School Based Health Center

	Example	Requirements	Where	In addition	comments
Changing Table	TBD				
Cots		72" L x 20" H x 29" W. 300 lbs. capacity	Health suite		
Exam Table		Seamless upholstery ; one step adjustable back	Health suite		
Lamps		Reading lamp; metal, LED	Health suite		
Privacy Curtains		mesh top/solid panel; flame retardant, antimicrobial polyester	Health suite		
Refrigerator		Full size refrigerator with ice maker	Health suite		

**Built-In Fixtures**

<b>Kitchen</b>	<b>Requirements/Representative Example</b>
<b>Description</b>	
Hand Sink	
Soap & Towel Dispenser	
Walk In Cooler/Freezer	
Cooler Refrigeration System	
Freezer Refrigeration System	
Prep Sink	
Floor Trough	
Tilting Skillet 30-Gallon	Items #20 and #21 below
Comb Oven	Items #16 and #17 below
Convection Oven	Items #3, #4, #5, and #6 below
Counters for serving with Cashier's Stand	
Pot Washing Sink	

**Loose Furnishings**

<b>Kitchen</b>	<b>Requirements/Representative Example</b>
<b>Description</b>	
Utility Cart, Mobile	
Dunnage Rack	
Shelving, Mobile	
Can Rack, Mobile	
Worktable	Item #22 below
Pan Rack Cart, Mobile	
Reach-Refrigerator, Mobile	Item #12 below
Pass-Thru Heated Cabinet, Mobile	Item #1 below
Pass-Thru Refrigerator, Mobile	Item #11 below
Milk Cooler, Mobile	Items #7, #8, #9, and #10 below
Refrigerated Display Merchandiser	
Cash Register	
Condiment Counter, Mobile	
Pot & Pan Shelving, Mobile	
Railing	

ITEM NUMBER	ITEM DESCRIPTION
1	<b>Metro heated cabinet. Model number C569-SDS-UA.</b> Provide heated cabinet with top-mounted Controls. Cabinet Material: Type 304 stainless steel; 20-gauge polished exterior; 22-gauge interior. • Insulation: Full perimeter, 2.5" thick, high-density fiberglass. R Value=9.9 • Casters: Four casters with 6" donut neoprene wheel, double ball bearing swivel, ball bearing axle, nickel plated, two with brake. Doors: Solid Dutch doors fully insulated, double-panel construction. • Hinges: Self-closing, lift-off, double hinged, with long-life nylon bearings. • Gaskets: High temperature, cabinet mounted, Santoprene gaskets. • Latches: Two chrome plated, high-strength magnetic pull latches with lever-action release. • Handles: Four built-in polymer handles. • Universal Slides: Universal wire slides; 1 /4" diameter nickel chrome wire adjustable on 11 /2" increments. Type 304, stainless steel vertical uprights. • Display and Controls: Analog cabinet thermometer with independent thermostat control knob. • Heat Generation System: Thermostatically controlled 1950 Watt heating element, ball bearing blower motor, and ducted air system. • Cord: 71 /2' cord with NEMA 5-20P plug. Cord mounted on top • Thermal Performance: 200° F maximum temperature. Unit shall come with 2-year parts and labor warranty. Unit shall be ENERGY STAR compliant
2	<b>Continental 1 section pass-thru warmer with half doors. Model number DL1W-PT-HD.</b> Provide 1 section pass-thru warmer with 4 half doors, Stainless Steel Interior and Exterior including doors, Self-Contained Performance-Rated Heating System, 90°F to 180°F Temperature Range, Unique Air Flow Distribution Ducts, Top Mounted Heating Plenum "Plug" with Circulating Fan, 3" Non-CFC Polyurethane Foam Insulation, Smooth, Polished Chrome Workflow Door Handles, Cam-Action, Lift-Off Hinges, Tray Slides (9 top, 6 bottom), Stainless Steel Strip Heaters (Located at the Base of the Interior), Magnetic Snap-In Door Gasket, Cylinder Lock in Each Door, 6" Locking Casters, Self-Closing Doors, Automatic Interior Lighting, Electronic Controller w/Digital Display & Hi-Low Alarm, 26” wide, 83 ¼ Height. Unit shall come with 3 year parts and labor warranty.
3	<b>Southbend single stack electric convection oven. Model number KLES/10SC.</b> Provide standard sized Energy Star compliant electric convection oven, 11kW high efficiency heating elements, standard depth. Single deck convection oven is 55” in height with legs and casters, Patented “plug-in, plug-out” control panel, Slide out control panel for full view servicing, Stainless Steel front, sides and top, Dependent 2-piece stainless steel glass doors (Full 180° opening),Energy saving high efficiency glass windows, Heat keeping dual door seal system, Coved, fastener-free, porcelain interior, Stay cool heavy duty door handle, Two speed, 1/2 hp, fan motor, 11-position rack guides and 5 plated oven racks, Solid state thermostat and 60 minute mechanical cook timer, Forced cool down fan mode, Oven “heat” light cycles with burners, Two 40 watt interior high temperature recessed lamps, Manual reset high limit temperature control, Control Panel located on front, at right side of oven, away from heat zone, unit shall come installed with 26” Stainless steel, triangular legs with 6” locking casters. Unit shall have 3 year parts and labor warranty and 5 year door warranty. <b>280/408</b>
4	<b>Southbend double stack electric convection oven. Model number KLES/20C.</b> Provide standard sized Energy Star compliant double stack electric convection oven, 11kW high efficiency heating elements, standard depth. Double deck convection oven is 64.8” in height with casters, Patented “plug-in, plug-out” control panel, Slide out control panel for full view servicing, Stainless Steel front, sides and top, Dependent 2-piece stainless steel glass doors (Full 180° opening),Energy saving high efficiency glass windows, Heat keeping dual door seal system, Coved, fastener-free, porcelain interior, Stay cool heavy duty door handle, Two speed, 1/2 hp, fan motor, 11-position rack guides and 5 plated oven racks, Solid state thermostat and 60 minute mechanical cook timer, Forced cool down fan mode, Oven “heat” light cycles with burners, Two 40 watt interior high temperature recessed lamps, Manual reset high limit temperature control, Control Panel located on front, at right side of oven, away from heat zone, unit shall come installed with 6” locking casters. Unit shall have 3 year parts and labor warranty and 5 year door warranty. <b>280/408</b>





5	<b>Southbend single stack gas convection oven. Model number KLGS/17SC .</b> Provide standard sized Energy Star compliant single stack gas convection oven with 3 ft. ¾ inch quick-connect flex gas hose. Oven shall have patented, high efficiency, non-clog Inshot burners, 53,000 BTU (NAT or LP), standard depth single deck convection oven is 57-1/2” in height with 6” casters, “plug-in, plug-out” control panel, easy to service slide out control panel for full view servicing, stainless steel front, top and sides, dependent glass doors (Full 180° opening), energy saving high efficiency glass windows , heat keeping dual door seal system, coved, fastener-free, porcelain interior, stay cool heavy duty door handle, soft air, two speed, 1/2 hp, fan motor, 11-position rack guides and 5 plated oven racks, electronic ignition with solid state temperature controls, 140°F to 500°F solid state thermostat and 60 minute mechanical cook timer. Forced cool down fan mode, oven “heat” light cycles with burners, interior oven lights, Unit shall have 3 years parts and labor warranty and 5 year door warranty, Unit shall come installed with 26” Stainless steel, triangular legs with 6” locking casters. Unit shall come with ¾ inch, 3 ft. quick disconnect flexible gas hose.
6	<b>Southbend double stack gas convection oven. Model number KLGS/27SC.</b> Provide standard sized Energy Star compliant double stack gas convection ovens with 3 ft. ¾ inch quick-connect flex gas hose. Both compartments shall have patented, high efficiency, non-clog Inshot burners, 53,000 BTU (NAT or LP), standard depth single deck convection oven is 66.8” in height with 6” casters, “plug-in, plug-out” control panel, easy to service slide out control panel for full view servicing, stainless steel front, top and sides, dependent glass doors (Full 180° opening), energy saving high efficiency glass windows , heat keeping dual door seal system, coved, fastener-free, porcelain interior, stay cool heavy duty door handle, soft air, two speed, 1/2 hp, fan motor, 11-position rack guides and 5 plated oven racks, electronic ignition with solid state temperature controls, 140°F to 500°F solid state thermostat and 60 minute mechanical cook timer. Forced cool down fan mode, oven “heat” light cycles with burners, interior oven lights, Unit shall have 3 years parts and labor warranty and 5 year door warranty, Unit shall come installed with 6” locking casters. Unit shall come with ¾ inch, 3 ft. quick disconnect flexible gas hose for each unit
7	<b>Continental 34" single access forced air milk cooler. Model number MC3-SS-S.</b> Provide 34” single access, forced air milk cooler. Unit must NSF approved. Milk Cooler shall have stainless steel exterior and interior, heavy-duty stainless-steel lid, door hinges, latches, with reinforced stainless-steel floor. Unit shall come with forced air, performance-rated refrigeration system, environmentally-safe R134a refrigerant, easily serviceable, bottom mounted compressor, and built-in, electric condensate evaporator. Cabinet shall consist of 2” high-density, non-CFC polyurethane foamed-in place insulation, snap-in door and lid gasket, non-corrosive, heavy-duty, epoxy-coated steel wire floor racks, door cylinder security lock, and 5” swivel caster with front locking brakes. Unit shall have electronic controller with digital display and hi-low alarm, floor drain with connected floor drain hose, have a 10 ft. long cord with plug, and unique forced air flow curtain. Unit will come with a 3 year parts and labor warranty and a 5 year compressor warranty
8	<b>Continental 34" dual access forced air milk cooler with low profile evaporator. Model number MC3-SS-D.</b> Provide 34” dual access, forced air milk cooler. Unit must NSF approved. Milk Cooler shall have stainless steel exterior and interior, heavy-duty stainless steel lids, door hinges, latches, with reinforced stainless steel floor. Unit shall come with forced air, performance-rated refrigeration system, environmentally-safe R134a refrigerant, easily serviceable, bottom mounted compressor, and built-in, electric condensate evaporator. Cabinet shall consist of 2” high-density, non-CFC polyurethane foamed-in place insulation, snap-in door and lid gasket, non-corrosive, heavy-duty, epoxy-coated steel wire floor racks, door cylinder security lock, and 5” swivel caster with front locking brakes. Unit shall have electronic controller with digital display and hi-low alarm, floor drain with connected floor drain hose, have a 10 ft. long cord with plug, and unique forced air flow curtain. Unit will come with a 3 year parts and labor warranty and a 5 year compressor warranty
9	<b>Continental 49" single access forced air milk cooler. Model number MC4-SS-S.</b> Provide 49” single access, forced air milk cooler. Unit must NSF approved. Milk Cooler shall have stainless steel exterior and interior, heavy-duty stainless-steel lid, door hinges, latches, with reinforced stainless steel floor. Unit shall come with forced air, performance-rated refrigeration system, environmentally-safe R134a refrigerant, easily serviceable, bottom mounted compressor, and built-in, electric condensate evaporator. Cabinet shall consist of 2” high-density, non-CFC polyurethane foamed-in place insulation, snap-in door and lid gasket, non-corrosive, heavy-duty, epoxy-coated steel wire floor racks, door cylinder security lock, and 5” swivel caster with front locking brakes. Unit shall have electronic controller with digital display and hi-low alarm, floor drain with connected floor drain hose, have a 10 ft. long cord with plug, and unique forced air flow curtain. Unit will come with a 3 year parts and labor warranty and a 5 year compressor warranty











10	<b>Continental 49" dual access forced air milk cooler with low profile evaporator. Model number MC4-SS-D.</b> Provide 49" dual access, forced air milk cooler. Unit must NSF approved. Milk Cooler shall have stainless steel exterior and interior, heavy-duty stainless-steel lids, door hinges, latches, with reinforced stainless-steel floor. Unit shall come with forced air, performance-rated refrigeration system, environmentally-safe R134a refrigerant, easily serviceable, bottom mounted compressor, and built-in, electric condensate evaporator. Cabinet shall consist of 2" high-density, non-CFC polyurethane foamed-in place insulation, snap-in door and lid gasket, non-corrosive, heavy-duty, epoxy-coated steel wire floor racks, door cylinder security lock, and 5" swivel caster with front locking brakes. Unit shall have electronic controller with digital display and hi-low alarm, floor drain with connected floor drain hose, have a 10 ft. long cord with plug, and unique forced air flow curtain. Unit will come with a 3 year parts and labor warranty and a 5 year compressor warranty
11	<b>Continental 1 Section (2 Section) pass-thru refrigerator with half doors. Model number 1(2)RNSSPTH.</b> Provide and install 1-section(2-Section) Energy Star qualified pass-thru refrigerator. Unit shall have stainless steel interior and exterior including doors, self-contained, performance-rated "plug" refrigeration system, environmentally-safe R-290 refrigerant, top of cabinet refrigeration system accessibility, 3" non-CFC polyurethane foam insulation, smooth, polished chrome workflow door handles, cam-action, lift-off hinges, 11 tray slides per half section, automatic hot gas condensate evaporator, expansion valve system, magnetic snap-in door gasket, cylinder lock in each door, 5" casters, self-closing doors, LED interior lighting, electronic controller w/digital display & Hi-Low alarm, 21 cu.ft, 26" wide, 38-3/4 in. deep, 82-1/4 in. high, 4 half doors, 10 ft attached cord with plug, Unit shall come with 3 year parts and labor warranty and 5 year compressor warranty.
12	<b>Continental 2 section reach in refrigerator. Model number 2RNSS.</b> Provide and install 2-section Energy Star qualified 2 section reach in refrigerator with 2 full doors with condensate pan. Unit shall have stainless steel interior, exterior, and doors, Self-Contained, Performance-Rated "Plug" Refrigeration System, Environmentally-Safe R-290 refrigerant, top of cabinet refrigeration system accessibility, 3" Non-CFC Polyurethane Foam Insulation Smooth, Polished Chrome Workflow Door Handles, Cam-Action, Lift-Off Hinges, 6 Heavy-Duty, Epoxy-Coated Steel Shelves, Automatic, Electric Condensate Evaporator, Magnetic Snap-In Door Gaskets, Cylinder Lock in Each Door, 5" Casters, Self-Closing Doors, LED Interior Lighting, Electronic Controller w/Digital Display & Hi-Low Alarm, 48 cu. ft, 52" wide, 35-3/8 in. deep, 82-1/4 in. in height with 5" casters, 10 ft attached cord with plug, Unit shall come with 3 year parts and labor warranty and 5 year compressor warranty.
13	<b>Continental 2 section reach in freezer. Model number 2F-SS.</b> Provide and install 2-section Energy Star qualified 2 section reach in freezer with 2 full doors with condensate pan Unit must be NSF approved. Unit shall have two full size doors and a minimum net capacity of at least 46 cubic feet. The interior and exterior including the doors shall be stainless steel and will have polyurethane insulation throughout. Each door will have an integrated handle, spring assisted self-closing hinges. The unit shall have LED lighting with proximity door switches and 3 epoxy coated wire shelves per cabinet section. The refrigeration system shall be hermetically sealed, air cooled, and located on top of the cabinet. All condensate water will be disposed of with a non-electric condensate evaporator. Unit shall feature an LED temperature indicator an audio/visual alarms for temperature, power interruption, door ajar. Unit will go into energy saving mode when the doors have not been opened for four hours. Unit shall come mounted on 4" casters. Unit will come with a 3 year parts and labor warranty and a 5 year warranty for the compressor
14	<b>Cleveland 2 compartment gas steamer. Model number 25CGA10.2ES.</b> Unit shall be a two compartment gas steamer with SteamSaver™ Technology and Energy Star approved, Independent steam generators, 50,000 BTU's input per compartment. "SureCook" electro mechanical timer with load compensating feature. Gas valve and water level control system. Exclusive remote probe-type water level controls. Exclusive Brass "Steam Jet" distribution system. Two-piece free-floating compartment door. Pullout service drawer for controls and Gemini Drain/Power Control System. Cooking Capacity for up to ten 12" x 20" x 2 1/2" deep Hotel Pans, five each compartment. Cabinet exterior and cooking compartments shall be 14 gauge, 304 stainless steel. Unit shall come with quick-connect flex ¾ inch, 3 ft. gas hose and water filtration system specific to water composition based on test results conducted and provided by vendor. Unit will come with at least 2 year parts and labor warranty

15	<b>Cleveland 2 compartment electric steamer. Model number 24CEA10.</b> Unit shall be a two compartment floor model electric steamer with twin electric atmospheric steam generator, 32 KW input. Remote probe type water level controls Steam generator with automatic water fill on start-up. Automatic generator blowdown, 2 each 16.5 KW fire bar heating elements. Cold water condenser design. Unit must distribute steam through high velocity jets without using fans. Cabinet exterior and cooking compartments shall be Type 430 stainless steel. Unit shall come with water filtration system specific to water composition based on test results conducted and provided by vendor. Unit will come with 2 year parts and labor warranty. <b>208/480</b>
16	<b>Rational combination gas convection oven/steamer. Model number SCC-102-G.</b> Unit shall be an Energy Star Qualified combination convection oven / steamer with simple to operate programmable controls for Hot Air, Convection Steam, and Combination cooking modes, slow cooking capabilities, multiple cooking stage programs, stored recipe library, multipoint core temperature probe, one step recipe start buttons, smart key for selecting option settings. Five speed auto reversing convection fan. Delta T cooking. Quiet high efficiency power burner heating system; door with antibacterial hygienic door handle. Must have the capacity to hold up to ten 12" x 20" x 2 ½" pans. Unit shall come with hands free automatic compartment washing system, stand, provided water filtration system specific to water composition based on test results conducted by vendor, ¾ in, 3 ft. quick connect flex gas hose, 10 wire racks, and sheet tray adapter bar. WiFi diagnostic capability. Unit will come with 2 year parts and labor warranty and 5 year generator warranty
17	<b>Rational combination electric convection oven/steamer. Model number SCC-102-E.</b> Unit shall be an Energy Star Qualified combination convection oven / steamer with simple to operate programmable controls for Hot Air, Convection Steam, and Combination cooking modes, slow cooking capabilities, Multiple cooking stage programs, stored recipe library, multipoint core temperature probe, one step recipe start buttons, smart key for selecting option settings. Five speed auto reversing convection fan. Delta T cooking, Quiet high efficiency power burner heating system; door with antibacterial hygienic door handle. Must have the capacity to hold up to ten 12" x 20" x 2 ½" pans. Unit shall come with hands free automatic compartment washing system, stand, provided water filtration system specific to water composition based on test results conducted by vendor, at least 10 wire racks, and sheet tray adapter bar. WiFi diagnostic capability. Unit will come with 2 parts and labor warranty and 5 year generator warranty. <b>240/480</b>
18	<b>Garland heavy duty electric range . Model number 36E.</b> Unit be a heavy duty electric range with boiling plate top. Top will consist of two 18" boiling plates with four heat zones, each controlled by three-heat switch. Full Sized oven is controlled by a heavy duty electromechanical thermostat. Oven interior shall be approximately 13" high x 26" wide x 29" deep with removable four-position chrome plated rack guides and one oven rack, front and rear stainless steel grease troughs. Oven body will have stainless steel front and sides. Unit shall have four polyurethane swivel casters with front brakes. Manufacturer training (repair and maintenance) provided for County equipment maintenance employees. Unit will come with 2 year parts and labor warranty
19	<b>Southbend heavy duty open burner gas range. Model number S24C.</b> The unit shall be a 24-3/8" wide restaurant style range with four (4) 28,000 BTU NAT (24,000 BTU LP) open-top burners with four (4) removable cast iron grate tops. The exterior of the unit shall be constructed of stainless steel and have a 4" stainless steel front rail with closed, welded end caps. The unit shall have 6" casters. The unit shall come with a 10" high stainless-steel flue riser. The unit shall come with a factory installed regulator and ¾" 3 ft. quick disconnect flexible gas hose. The unit shall come with an aluminized cabinet base with doors. Must have one unit available in-house for immediate delivery defined as within 72 hours of receipt of Purchase Order. Unit will come with 2 year parts and labor warranty
20	<b>Cleveland 30 gallon gas tilt skillet. Model number SGL-30-T1</b> Complete with Dual Power Setting, Normal and High Power Cooking Controls, Power Burner (Forced-Air) Gas Combustion System, Automatic Ignition, Splash-Proof Construction, Spring Assist Cover with Vent, Gallon/Liter Markings, 5/8" Stainless Steel Clad Cooking Surface with Bead Blasted Finish, Easy to use Manual Hand Tilt with Enclosed Permanently Lubricated Gearbox, Adjustable Feet with Rear Flanged and Front Bullet Style. Shall also include the following: 2" (50 mm) Tangent Draw-Off Valve (TD2SK), left side only • Single Pantry Faucet (SPS14), includes Faucet Mounting Bracket • Faucet Bracket (FBKT1) • Hot & Cold Water Pre-Rinse Spray Head with Hose (PRS-S)

21	<b>Cleveland 30 gallon electric tilt skillet. Model number SEL-30-T1.</b> Complete with Thermostatic and Safety Controls, Gallon/Liter Markings, 5/8" Stainless Steel Clad Cooking Surface with Bead Blasted Finish, Easy to use Manual Hand Tilt with Enclosed Permanently Lubricated Gearbox, Spring Assist Cover with adjustable Vent, Adjustable Feet with Rear Flanged and Front Bullet Style, Gallon/Liter Markings and Splash Proof Controls. Shall also include the following: 2" (50 mm) Tangent Draw-Off Valve (TD2SK), left side only • Single Pantry Faucet (SPS14), includes Faucet Mounting Bracket • Faucet Bracket (FBKT1) • Hot & Cold Water Pre-Rinse Spray Head with Hose (PRS-S) • Protective Control Cover (CP-PCB-T1) <b>240/480 V</b>
22	<b>Advance Tabco stainless steel work table. Model number SS-306 or approved equal.</b> Provide fully assembled work table, 72"L x 30"W x 34H" Work Height, 14 gauge 304 stainless steel flat top with bull nose edge, 18 gauge stainless steel undershelf installed 10" above the floor, stainless steel legs & adjustable bullet feet, NSF, two year warranty.

Media Center	Example	Requirements	Where	In addition	comments
Book Case on Casters		48" includes casters	Commons		
Peripheral Book case		37x12x60; adjustable, solid 1/4" wood shelving	Commons		Linear FT total for 12,000 volumes
Flat files			workroom		
Circulation Desk		modular - or	Commons		Typically Casework
Head End Room	Consult PGCPs instructional technology for detailed list		Head end room		Snowier Thrower, Ariens, 520E (Oracle #6832); gammet racks

Media Center	Example	Requirements	Where	In addition	comments
Charging Station/tables		outlets for up to 3 devices; counter edge standing height	catetorium, media center, colaborative areas in corridors		
Picture Book Shelvs on casters			Primary Library		
Seating for PK-2		Alternative seating 13-15" height	Primary Library		tables are optional

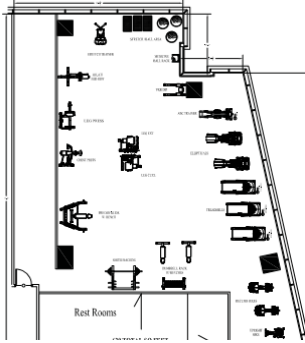

Multi-Media (\$30,000 Cap)	Example	Requirements	Where	In addition	comments
Audio and Video Mixer and recording package		All-in-one turnkey digital TV studio system (sound mixer, audio and video switchers, computer with double monitor and speakers, SSD recording, earphones, microphones (handheld and lapel)	control room		
Studio camera		Includes a teleprompter	studio	w/ Tripod on wheels	A minimum of two
Lights		Fresnel lantern - 200 W	studio		A minimum of two
Zoom LiveTrak L-8 2-Person Podcasting Kit with 8-Channel Mixer					
Tricast Mini		HD4			
Achor Desk'	Space for three students				








Studio set-up for live production (news, interviews, small performances) includes green screen, over head lighting grid, and mobile furniture .






The control booth (pictured) has a digital mixer with the ability to do multitrack recording and a video switcher for live production. This technology in the control booth allows those creating media projects to direct the production in the multimedia studio






Physical Education	Example	Requirements	Where	In addition	comments
Display cases and electronic board - see admin tab			Lobby		
Portable sound system		Microphone, amp, speakers for gymnasium	Gym		
Fitness equipment		treadmill (3), elliptical (2),stationary bikes (3), dumbbell rack and benches(2), Precor glide w/ bench, chest press, leg curl, leg ext., leg press, high lat/mid row, arc trainer, VKR dip, medicine ball rack, kettle ball rack, stretch ball rack	Wellness Lab		
Heavy Duty washer (top load)		5.3 Cu Ft.	laundry		
Heavy Duty Dryer		8 Cu Ft.	laundry		
Ice machine		75 pound capacity	laundry		



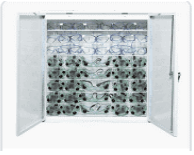






Performing Arts	Example	Requirements	Where	In addition	comments
Portable Acoustical Shell			Performing art/stage		
Keyboard stands			Choral		
Music stands		Deck height: 13.5" Deck Width: 20" Heights range from 25" x 49"	performing arts		
piano		Digital; Height: 44 1/2" (113 cm) Width: 59" (150 cm) Depth: 24" (61 cm)	choral		
podium		Base: 43"W x 38"d x 6"H Upper: 32" W x 38" D x 6" H	performing arts		



Performing Arts	Example	Requirements	Where	In addition	comments
Sheet music storage		32" w x 14" d x 23" h	performing arts		
Sound equipment cart		for recording and replay equipment; on casters; typically 40" X 18-21"; adjustable shelving	performing arts		
Risers		Light weight, eay fold, on wheels; 150 lb per SF load	choral		





Athletics	Example	Requirements	Where	In addition	comments
Goal Posts and Nets (Soccer and lacrosse)		8' X24' (soccer) 6'X6' (lacrosse)	Generic field		
Backstops			Baseball and softball		
Home plate			Baseball and softball		
Team and spectator benches			Baseball, softball and soccer/football		
Manual score boards					
Security fencing					

Science	Example	Requirements	Where	In addition	comments
Storage Cabinet		36" W X 84" H; One with glass front, one with solid door - both lockable	Lab		
Chemical Storage		One per school - lockable for acids	Prep Room		
Flamable Storage		one per school - lockable and vented to the outside; single door	Prep Room		
Fire Blanket		18" W x 16" H x 5¼" D	Lab		
First Aid kit		For 50 people	Lab		





Science	Example	Requirements	Where	In addition	comments
Fire Extinguisher			Lab		
Duckless fume hood		one per school	Prep Room		
Goggle Storage and Sanitizer			Lab		
Glassware Drying Rack		for beakers and other glassware	Prep Room		
High heat oven (optional)		one per school	Prep Room		
Mobile Demonstration Table with utilities		Tables are 28"x48" and 36" high	Lab		



Science	Example	Requirements	Where	In addition	comments
Under Counter Refrigerator		Width: 23.625" Height: 34.125" Depth: 23.75"	Prep Room		
Shower and eye wash station		ADA-Compliant (tamper proof cord to avoid students activating unless authorized)	Lab		




STEAM	Example	Requirements	Where	In addition	comments
Tote Tray Cabinet		Tray dimensions: 19" W x 14 1/2" D x 3 1/2" H	STEAM Lab		
Work Benches		24" X 72"; peripheral	STEAM Lab		
Mobile work table		48" X 60"; wood; on casters	STEAM Lab		Tables need access to electricity
Goggle storage - see science					

Special Education	Example	Requirements	Where	In addition	comments
Rifton positioning Chair					Equivalent to 'Rifton' considered
Changing Table		height adjustable; up to 300 lbs.			privacy curtain in not in the restroom
Hoyer Lift		height adjustable; up to 450 lbs			
Mobile art cabinet					



Visual Ars	Example	Requirements	Where	In addition	comments
Cabinet Drying Rack		30"H x 20"W x 15"D.	art room		
Display panels		72" W x 38" H	art room		
Kiln		Model e23T-3 Easy-Fire Automatic Kiln with with Multi-Program Three-Zoned DynaTrol mounted in an easy-open cool-firing piggy-back control panel that is angled for easy viewing of control. Kiln comes with hard ceramic element holders, protected thermocouples, strong solid-top stand, easy-lift spring hinge, and solid peephole plugs. 22-3/8" diameter by 27" high (6.7 cubic feet). 3" K23 brick. NEMA 6-50 single phase or 15-50 three phase 6 foot power cord included. C-MET-us listed in the USA & Canada. Cone 10 for all voltages.	kiln room		minmum of 2 per school
Greenware Shelves			kiln room		
Prject Storage - See STEAM		Trays: 10" x 15" x 20")			

Visual Ars	Example	Requirements	Where	In addition	comments
Light table			art room		
Project Storage		3D storage 10" high X 15 " deep (30); and flat storage (30 min.)			

Site	Example	Requirements	Where	In addition	comments
Flag Pole		40-45 ' tall	Front of school		
School Marquee Sign		Signs should be in full color and not black & white, double-sided for visibility by both directions of traffic and include software for school updating of information & include broadband communication	By the school entrance	2018 Quote: \$36 K - sign only	Additional wayfinding signs with PGCPs Format
Bike Racks		Stainless Steel Grid Rack; 60"x43x31" for a 10 bike rack	Visiable from the school (main entrance) and near student walkways; a covered overhang would be ideal.		Racks should support a minimum of 40 bikes

Lockers	Example	Requirements	Where	In addition	comments
Lockers corridor		Double high, 12" X 12" X30"; HDPE (high-density polyethylene) lockers; external locking	Classroom corridors		Space saver Day Locker (metal) 24" or 36" high
Lockers PE		Locker size 12"x12" X 15" deep; venting; external locks	PE locker room		
Adult Lockers		Metal 24"	Kitchen and Maintenance		

**EXHIBIT T-2**

**EDUCATIONAL SPECIFICATIONS FOR HYATTSVILLE MIDDLE SCHOOL**

## EXHIBIT T-2 (EDUCATIONAL SPECIFICATIONS FOR HYATTSVILLE MIDDLE SCHOOL)

1. For the purposes of the Project Agreement, the Educational Specifications for Hyattsville Middle School means, collectively, the following documents:
  - (a) the negotiating period design development summary identified in Part A of this Exhibit T-2 Educational Specifications for Hyattsville Middle School (the "**Exhibit T-2 Negotiation Period Summary**"); and
  - (b) the PGCPs technical specification documents identified in Part B of this Exhibit T-2 Educational Specifications for Hyattsville Middle School (collectively, the "**Exhibit T-2 PGCPs Educational Specification Documents**").
2. In the event of any ambiguities, conflicts or inconsistencies between or among any of the documents comprising the Exhibit T-2 PGCPs Educational Specifications and the Exhibit T-2 Negotiation Period Summary, the Exhibit T-2 Negotiation Period Summary shall prevail in all matters; and
3. For greater certainty, where any element, sketch, feature or other document or item contained in any part of the Exhibit T-2 PGCPs Educational Specifications is modified, superseded, qualified, conflicts with or is otherwise amended by the Exhibit T-2 Negotiation Period Summary, the Exhibit T-2 Negotiation Period Summary shall prevail.

PART A

EXHIBIT T-2 NEGOTIATION PERIOD SUMMARY

## NEGOTIATED DESIGN SPECIFICATION CHANGES (2020.11.19)

NO.	DESCRIPTION
1	Stand-alone mass notification system not required.
2	<p>For the following spaces, electrical outlets shall be placed on teaching walls at a minimum of six feet (6') on center and on the other walls twelve feet (12'):</p> <ul style="list-style-type: none"><li>• Academic Core Space: Academic Classrooms/Learning Studios</li><li>• Academic Core Space: Science Classroom / Lab</li><li>• Generic Language for all Autism: Special Needs Classroom/Studio</li><li>• Generic Language for all Emotionally Disabled Programs: Special Needs Classroom/Studio</li></ul> <p>For all other spaces, electrical outlets/duplexes shall be placed on perimeter walls at twelve feet (12').</p>
3	Double-tier corridor lockers are acceptable to meet the requirement for total number of corridor lockers.



PART B

EXHIBIT T-2 PGCPS EDUCATIONAL SPECIFICATIONS



**Prince George's County Public Schools  
Educational Specifications  
For Hyattsville  
Middle School**



**Revised August 2020**

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**Performance Requirements**

**General Planning Principles**

**Design for Learning**

PGCPS considers the entire school grounds as a teaching opportunity, with a central space as the 'outdoor learning area or classroom'. The developer shall include formal and informal learning spaces throughout the campus, including, but not limited to:

- (a) Structured outdoor classroom areas, with appropriate site furniture and physical layout
- (b) Learning gardens
- (c) Indoor and outdoor colloquy and small group spaces for gathering and instruction.
- (d) Educational displays and instructional material in community and public spaces
- (e) Display space for student projects, artwork and awards

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## Performance Requirements

### Equity and Accessibility

#### Accessibility

The entire facility shall be accessible for students, staff, and visitors, including community users. This will be accomplished through judicious use of ramping and elevators with enough internal clearances for circulation, convenient bus/van loading and unloading, and nearby handicapped parking spaces.

All elements of the Americans with Disabilities Act must be complied with, including

- (a) 'wayfinding' and signage,
- (b) appropriate use of textures, lighting, and other sensory cues, and
- (c) universal accessibility of all indoor and outdoor school facilities.

#### Students with Special Needs

The developer shall integrate special education facilities throughout the school to support the concepts of inclusion and the specialized requirements for the students. Special attention will be given to accessibility of all facilities and an integrated learning program.

Facilities shall be designed and constructed to address students needs, including sensory indicators.

Attention shall be paid to lighting, color, ambient acoustics, etc.

#### Restrooms, shower and changing facilities and other private accommodation

PGCPS respects and supports students' desire for both privacy and inclusiveness regarding restrooms, shower and changing facilities, and other private accommodations. In addition to the typical gender-based group restrooms near the gymnasium and cafeteria, the developer shall provide gender neutral bathroom clusters in the classroom wings to include the following:

- (a) Single-occupancy, lockable student toilet rooms (quantity per code)
- (b) Hand-washing facilities adjacent to each toilet room or row of rooms
- (c) Design/placement that allows direct adult supervision of student ingress and egress from the corridor or public area

#### Special Programs

Each middle school has a 'cluster program' serving students with similar disabilities. Specifics for each program are in Appendix A and B of this document.

#### Language Access

Provide dual language signage at Adelphi Area Middle School and at other campuses as required



### **Community Use**

The facility shall be designed and constructed to facilitate community use both during and outside regular school hours. It is assumed that the community will use the building for recreation, meetings and educational functions.

Design elements shall include:

- (a) Zoning and security layering to allow for selective use of space. Layering shall include both passive (gates and fencing) and active (intrusion detection) measures
- (b) Placement of facilities and circulation to provide direct access from outside to community spaces, and to minimize mixing of traffic
- (c) Zoning of MEP systems to allow for selective use of space.

**Student, Staff and Visitor Safety**

The developer shall apply the principles of Crime Prevention Through Environmental Design (CPTED), a multidisciplinary approach to deterring criminal behavior that relies on both passive and active measures. CPTED's main principles include "natural surveillance," which gives legitimate users opportunities in the course of their ordinary activities to keep an eye on the place and the people around them; "natural access control," which directs users to enter through observable areas (single point of entry); and "territorial reinforcement," which encompasses a variety of strategies for signaling that a place is occupied and cared for. One main idea of designing safety is to create several layers of security, or concentric rings of access, starting with the perimeter and then working inward into the school. If there is an intruder, each layer of security is designed to delay him or her until first responders can arrive.

Site Perimeter: School sites shall have perimeter security fencing around the building/campus preventing access to walkways and courtyards when facility is not occupied but allow for public use of exterior athletic facilities.

Fencing and landscape leading up to the entrance. Create a perimeter where everyone must walk up on foot, so that people inside the school can easily see who is coming.

Building Perimeter: Exterior doors shall prevent unauthorized entry by minimizing key locks and hardware on doors which would not be used for the purpose of entry but are installed for emergency egress.

All student spaces shall have interior vision glazing in the form of interior windows, door vision panels, and/or sidelights to allow for passive supervision and monitoring of space, except where noted in the Area Data Sheets, or where required for privacy. Glazing shall be designed to minimize concealed spaces, while limiting the potential for distraction.

Transparency from the classrooms into the hallways will increase supervision and encourage use of the space for learning. However, the height, opacity, and amount of windows must be balanced against distraction to students and staff in classrooms.

**Interior Spaces**

- (a) Locate administrative and teacher preparation with good visual contact of major circulation areas (i.e., corridors, cafeteria, bus drop-off, parking)
- (b) Locate areas likely to have significant community use close to parking and with zoned access

**Egress and Life Safety**

- (a) All doors into classrooms, offices and support areas must have a clear safety glass window with blinds for control of views into the classroom; doors should be able to lock from the inside allowing the ability to shelter in place

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## Performance Requirements

- (b) Provide emergency generator capability, where appropriate, in compliance with MEMA regulations
- (c) Provide standby/back-up generator capability to support essential non-emergency load, including, but not limited to full IT, security and data functionality, kitchen food storage, etc. Standby generator capacity shall be designed to operate for 24 hours at full load
- (d) Provide outside lock box for police and fire departments to be provided. (Knox Box system)

### Types of Building Materials

- (a) Incorporate pitched roofs which inhibit roof entry and are aesthetically pleasing
- (b) Install non-slip floors at point of entry
- (c) Design windows to provide security from intrusion while maximizing daylight as required in the Area Data Sheets, and allowing for student egress in emergency.
- (d) Use durable wall surfaces that are easy to clean so graffiti can be removed

### Uses of Technology: The developer shall provide:

- (a) A PGPS approved Visitor Management system which enables schools to issue visitor badges with names, pictures and reasons for the visit, and time and date printed on them; to monitor volunteer and visitor hours; and instantly check all visitors against registered sexual offender databases in all 50 states.
- (b) Card access and video intercom at the main entrance, cafeteria, and hallway entry-exit points.
- (c) Building-wide all-call designed to be heard throughout the school and on the playfields
- (d) Key systems that track users
- (e) DMP Control Panel and keypads for burglar alarm system control
- (f) DMP wireless panic buttons at the secretary desk and administration offices
- (g) Tri-Tech passive infrared and microwave Doppler radar detection with cover tamper and anti-masking including normally open alarm circuit
- (h) Phones in every instructional and support area
- (i) Genetec VMS monitoring Axis IP cameras installed inside and outside of the building
- (j) Bosch TriTech+ detectors in all classroom and instructional spaces

### Security Camera Requirements

- (a) Access Coverage: Provide CCTV coverage of all entrances/access points to monitor persons entering or exiting space in the following locations. Developer shall design camera locations and install cameras to ensure video capture of the faces of persons entering or exiting space.
  - i. exterior of the main entrance
  - ii. entrance of the main office
  - iii. any data outlets located on the exterior of the building or in any outdoor spaces
  - iv. every exterior entrance to the building

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**Performance Requirements**

- (b) Full Coverage: Provide CCTV coverage of entire area with multiple (minimum 2) view angles of entire space and all entrances/access points. Developer shall design camera locations and install cameras to ensure video capture of the faces of persons entering or exiting space.
- i. main entrance vestibule
  - ii. interior of the main entrance and lobby
  - iii. In all hallways, Place cameras at no less than one (1) camera every 50 (fifty) feet, with cameras on opposite walls facing different directions so as to provide coverage of the hallway in both directions
  - iv. In stairwells
  - v. In gymnasiums, cafeterias, media centers, and all other spaces with a capacity larger than 50 (fifty) people, Provide no less than one (1) camera in each of the four corners of the space
  - vi. In the Digital Media Suite, Provide no less than one (1) camera to provide coverage of the production multi-media studio, one (1) camera to provide coverage of the control room, and one (1) camera to provide coverage of the media lab.
  - vii. courtyard spaces
  - viii. every exterior corner of the building
  - ix. each outdoor classroom or outdoor learning area

## **Sustainability Criteria**

### **Energy and Environmental Design**

The Secretary of the Maryland Department of General Services approved the following guidelines

“The school shall be designed and constructed to meet requirements of the Maryland High Performance Green Building Program with the exception of obtaining an independent, third-party certification as an element of one of the proprietary rating systems described in the Program. The architect or engineer of record shall indicate in the construction documents, the selected high-performance rating system used for design and construction with which, the project is compliant. The LEA may obtain a Letter of Opinion from an Independent Third Party to be submitted as a compliance document.”

### **Energy Dashboard**

The developer shall install an Energy Dashboard system, including all necessary hardware (including sub-metering and data connections) and software required to measure and report on energy consumption in the dashboard module. The dashboard system will be defined prior to construction using best available tools at the time of implementation. A sample system for reference is the Lucid Building Dashboard System

### **Ergonomics Requirement**

A 2007 study compared adjustable furniture in schools to traditional fixed furniture. Students using adjustable furniture were found to have higher grades than those in the control group using traditional school furniture. Characteristics of furniture that promote good posture should be considered as well as adjustable desks and chairs to allow students of varying sizes and body types to improve their comfort levels when sitting for long periods of time.

Note: All furniture and equipment shall meet the GREEN USGBC LEED requirements for new schools and major renovations.

### **Wayfinding and Orientation**

The campus layout shall be designed to provide clear wayfinding and orientation without relying solely on signage. The building massing and orientation shall be designed to focus on key circulation elements.

- (a) Every school shall have a monument sign and a mounted building sign. The monument sign is a free-standing, durable sign that has the name and address of the school with a non-electric, protected message board. It shall be located on the site to be visible by cars on the main road in front of the school. The school name building sign must be located above the main entrance visible from the visitor parking
- (b) From the parking and walking access areas, all visitors must be able to identify a 'single point of entry' to the school.

Immediately upon entry, universal signage and visual cues shall guide visitors to a main lobby area with seating and access to the main office staff. Visitors are required to enter the welcome center before proceeding into the rest of the school.

Registration and family services shall be located near the main office. The other administrative offices and guidance services may be decentralized to increase security and supervision throughout the campus.

Site Design Requirements

**Exterior Site Security Requirements**

**Exterior Mass Notification System**

- (a) Exterior Mass Notification systems are not required.

**Landscaping**

- (a) Developer shall comply with the PGCPs Design and Construction Standards and design and construct landscaping to allow good visibility for personal security and to eliminate areas of concealment.
- (b) Planting at Utility Devices that require access, including fire hydrants, backflow preventers, and such like, shall be installed as to allow a minimum of three (3) feet of clear access between the edge of plant when mature and the utility element on all sides, and clear access to roads or pathway. Planting at such elements shall not have thorns be bee attractants, or in any other way pose a hazard to people accessing the Utility Device.



**Project Site Circulation**

**Vehicle & Pedestrian Circulation****Site Circulation**

Developer shall design and construct a circulation system for the Project that is planned to provide safe mobility for all road users, including bicyclists, pedestrians, transit vehicles, deliveries, and motorists. The circulation system must serve multi-modal movement within the site and integrate into the campus via seamless, convenient, and inviting connections to existing transportation facilities. The system shall be context sensitive and meet transportation goals in harmony with campus goals and the natural environment.

On and Off-Site Circulation shall be planned to ensure that facility can be in full compliance with the requirements of COMAR Article 13A.06.07 Student Transportation at all times.

**Site Circulation Functional Requirements**

- (a) School bus loading and unloading areas shall be separated from parent drop-off areas and from staff parking.
- (b) All areas shall be clearly identified. Use signage, curb striping and other pavement markings to direct parent pick-up/drop-off lanes and to prohibit unauthorized vehicles from entering the school bus loops. Signage and bumpers for parking spaces shall be provided by the Developer.
- (c) Non-bus riders who walk and/or bike to school shall be isolated from all types of vehicular traffic and provided adequate pathways to and from the school building. Bike racks shall be provided with visibility from the main office.
- (d) Adequate space is shall be provided to load and unload students who have physical disabilities. For Adelphi Area MS identify a school bus loading and unloading area closest to a door that is accessible for students who have physical disabilities to reduce the distance from the school building to the bus.
- (e) Bus loops shall accommodate both immediate and future needs to allow for expansion of programs and an increase in bus ridership that will result in more buses.

Pedestrian Walkways and Bicycle Paths shall be designed to adequately support pedestrian and bicycle circulation. Width shall be commensurate with the level of pedestrian activity projected within the particular location of such pedestrian.

- (a) All paths of travel shall meet ADA requirements, and at a minimum, shall be wide enough to accommodate two-way pedestrian and wheelchair traffic.
- (b) Design official pathways to minimize creation of ad-hoc paths.

**Fire Access Lanes**

Fire access lanes shall be designed in accordance with the PGCPs code requirements:

[https://library.municode.com/md/prince\\_george's\\_PGCPs/codes/code\\_of\\_ordinances?nodeId=PTIITI17PULOLAPRGECOMA\\_SUBTITLE\\_11FISA\\_DIV4FIPRCO\\_S11-276REACFIAP](https://library.municode.com/md/prince_george's_PGCPs/codes/code_of_ordinances?nodeId=PTIITI17PULOLAPRGECOMA_SUBTITLE_11FISA_DIV4FIPRCO_S11-276REACFIAP)

### **Project Site Roadway Signage**

Developer shall provide all required signage for safe operations and wayfinding for all roadways, parking, pedestrian walkways, and bicycle paths. All pavement markings and roadway signage for circulation roadways shall conform to the requirements of the current edition of the MUTCD.

### **Bicycle Facilities Requirements**

Developer shall design and construct the Facilities to adequately support bicycle circulation and storage at the Facilities

### **Parking and Circulation**

Bus parking shall be designed and constructed in accordance with the following principles

- (a) All buses for Arrival and Dismissal shall be accommodated on site with no off-site stacking. On-site stacking is permitted. All buses are scheduled to arrive at the same time to the school for the dismissal bell time.
- (b) No backing of buses on school grounds as per the county's Transportation Operating Procedures Handbook.
- (c) Bus doors shall open towards the school building.
- (d) Wheelchair loading/unloading zone shall be provided.

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**Performance Requirements**
**Bus and Parking Volumes**

	Avg. number of busses	Parking Spaces	Comments
Adelphi Area MS	20	134	The Regional Special Education program will include wheelchair bound students. A designated loading area is needed for 5 orthopedic buses.
Drew MS	23	134	School should have separate vehicular entrance and parking from Suitland HS.
Hyattsville MS	27	134	A bus loop is ideal rather than a turnaround. If it is not possible to stage all buses in separate area, the parking should be designed in a way to be able to stack additional buses for use during dismissal only.
Kenmoor MS	37	134	It is not recommended to have bus access from 82 <sup>nd</sup> Ave. Transportation analysis suggests reviewing and possibly creating access from Barlowe Road. A Barlowe Road connection would increase walkers. Ideally the bus parking lot should be positioned to serve the new Kenmoor Middle and Kenmoor ECC and, if possible, the old Kenmoor Middle when used as a swing space school.
Southern Area PK-8	44	220	
Walker Mill MS	30	134	

**General Parking Requirements**

The Developer shall design and construct the Facilities to include a parking system that adequately supports the Program, complies with ADA regulations,

**Sports Fields**

The sports fields at Adelphi and Hyattsville shall have an Artificial Turf playing surface. Sports fields at other schools may be natural grass or artificial turf at the developer's discretion.

Where artificial turf is installed:

- (a) Artificial turf shall be FieldTurf ([fieldturf.com](http://fieldturf.com)) or similar system.
- (b) Artificial turf shall be installed in full compliance with manufacturer's specifications and guidelines to provide a uniform and weed free surface that is suitable for planned use in all respects. For sports surfaces, specific models, designs and systems shall be selected to provide optimal playing surface for anticipated sports and other activities. Installation shall include all subgrade preparation and drainage.
- (c) All artificial turf surfaces shall be designed to accommodate active pedestrian and recreation use, even where planned use differs.

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**Performance Requirements**

- (d) All artificial turf areas shall include automatic sprinkler systems as required to allow for all required water usage and maintenance.

**Trash/Recycling Handling Yard, Service Areas and Loading Zones**

Developer shall design and construct Trash/Recycling Handling Yard, Service Areas and Loading Zones in accordance with the following requirements:

- (a) The Trash/Recycling Handling Yard, and Service Areas & Loading Zones Areas shall be placed such that traffic use does not interfere with pedestrian, bicycle or vehicular traffic flow or safety. Particular attention shall be paid to vehicle maneuvering and reversing.
- (b) On street loading shall not be permitted.
- (c) Trash/Recycling Handling, Yards and Service & Loading Zone Areas must be large enough to accommodate delivery trucks and trailers, such that vehicles do not encroach into traffic lanes or emergency access lanes.

**Circulation Requirements**

The Buildings shall be designed to provide universal access and to conform to all ADA requirements.

**Furnishings, Equipment and Technology**

**Educational Technology**

The implementation of a voice, data, and video telecommunications system throughout schools is standard across the country. Appropriate and strategically designed and installed technology greatly enhances the teaching and learning of basic skills and positions a school to take advantage of technological developments in the future. All classrooms shall be multi-use/multi-purpose with invisible technological support. There should be a seamless web of technology to support the classroom management between administration, teachers, students, and the home.

Technology requirements in the building:

- (a) Voice: Developer shall provide telephone (IP) and voice communications in every classroom and throughout the entire building as well as to other persons in the school system and external resources including parents and community members.
- (b) Data: Developer shall provide wired broadband and wireless data retrieval capabilities in every classroom and throughout the entire building as well as network capabilities district-wide and to other external databases.
- (c) Video: Developer shall provide video distribution in every classroom and throughout the entire building with interactive video capabilities to support whole and small group instruction, distance learning, and providing access to a wide range of internal and external resources.
- (d) A two-way voice communication system shall be installed that will provide communication between the administrative area and each teaching station or support area, with a telephone in every room. This same system should have the potential to carry an auditory signal automatically controlled and located in the administrative area. Provision should be made for these signals to reach all teaching and support areas including the outdoor activity area. The public address system shall be integrated with the telephone system with a Call Back (CB) feature from the classrooms and support areas to the main office.

**All Teaching Stations**

- (a) Each learning studio (classroom, lab, resource room, conference room) will be equipped for multimedia presentation. The choice of equipment will be verified one year prior to school opening and will represent the best available teaching and learning tools at that moment.
- (b) Interactive panels shall be mounted in all classrooms, labs and small group areas. Mobile interactive boards will be used in the media center, gymnasium and in Grades PK-2 teaching stations.
- (c) All playback devices and accessories in classrooms are placed in a lockable A/V cart situated near teacher's desk. All devices are permanently connected to the display panel and the teacher can control the operation by remote control at the desk.

**General Requirements**

- (a) Developer shall comply with PGCPs Design and Construction Standards and construct IT specific spaces in each Building including MDF rooms and IDF rooms (collectively, the **"IT Rooms"**) in accordance with the PGCPs specification Division 27

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**Performance Requirements**

- (b) Within these education specifications, the term Data Drop has the same meaning as in the PGCPs Specification. A data drop comprises 3 active Cat 6A cables with ports at a single faceplate.
- (c) Within these education specifications, the term Data Outlet means a single active Cat 6A cable, port and faceplate. Where multiple outlets are specified at a single location, outlets can be combined into a single faceplate.

**Audiovisual Systems**

- (a) Developer shall design and install Audiovisual (AV) systems at the Facilities in accordance with the requirements of Division 27 of the PGCPs Specifications
- (b) Developer shall design and construct the Facilities to accommodate the Indicative AV Equipment Package for each Area Type.
- (c) Developer shall be responsible for any power outlets required in connection with the AV Equipment are in addition to the outlets required for convenience power shown in the Area Data Sheets.
- (d) Developer shall design and install Integrated sound system speakers, including in-wall and in-ceiling speakers. Speaker number, distribution and location shall be determined by Developer and shall be sufficient to provide uniform sound levels within the room with no distortion, feedback or echo
- (e) Developer shall be responsible for the interface between AV control systems and building systems, including the room lighting control systems and Building Management Systems, and including any conduit, wiring and programming required at the lighting control or the Building Management System (herein referred to as "AV/Building System Interface").
- (f) Developer shall procure, and coordinate with the Required Subcontractor to install, commission and test all AV Equipment detailed in the Area Data Sheets and the AV Equipment Packages including any mounting walls or ceilings. AV Equipment shall be installed to provide a complete, functional system.
- (g) Developer shall refer to the Area Data Sheets for the proper design loads of flat surfaces within a room or Area for the proper installation of AV Equipment.
- (h) Any telecom service provided to installed AV Equipment shall be routed to the NEMA box by the rack and terminated to the switch installed in the AV rack. This switch will connect to main network service in the IDFs and MDFs.
- (i) All AV Infrastructure and the associated IT Infrastructure shall meet ADA requirements, including assistive listening systems, visual access, and other accommodations, as required by applicable Law.
- (j) Control panels for lighting, window coverings, AV/Building System Interface controls, and thermostats shall be located as a group in each room.

The Developer shall furnish and install active and passive components of the Educational Technology system. The developer shall furnish and install all surface mounted terminal devices within the base contract. Moveable terminal devices shall be furnished by the developer in accordance with the furnishing and equipment terms of the Project Agreement

Passive infrastructure is defined as:

- (a) Conduit, raceways, or other cable pathways to provide complete indoor and outdoor pathways from the point of connection to Campus IT Infrastructure to the faceplates and



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## Performance Requirements

terminal devices. All pathway infrastructure should be designed to be readily accessible to allow for upgrades to infrastructure over the life of the facilities.

- (b) Wiring and/or fiber from provider to building Main Point of Entry (MPOE)/Building Distribution Frame (BDF), and distribution from MPOE to faceplate/point of use. All wiring shall be tested and certified to meet data ratings.
- (c) Faceplates and data outlets, including mounting locations, backer plates and boxes
- (d) Racks and frames in IT rooms/closets, including cable management and power modules
- (e) All power supply, power conditioning, emergency power and UPS infrastructure to support IT systems as noted in the technical requirements, including any power supply required for Power Over Ethernet (POE), or at terminal points.
- (f) All Mechanical systems required to support IT systems.
- (g) All physical supports, framing, backers, back boxes, bracing, gasketing to support installation of built-in, mounted or moveable terminal devices
- (h) All built-in system components, such as ceiling mounted speakers, room controllers, etc.
- (i) Wireless Access Devices

Active Systems are defined as:

- (a) All electronics required to support data systems, including hubs, routers, switches, servers, etc.
- (b) All electronics required to support AV and educational data, including amplifiers, audio processors, assistive listening systems, room lighting controllers, consoles, matrix switches, etc.

Terminal Devices are defined as:

- (a) Moveable or surface mounted components of the Educational Technology, including smart boards, computer terminals, telephones, etc.

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**Performance Requirements**

**Furnishing, Fittings and Equipment (FF&E)**

Developer provided FF&E includes all built-in and loose furniture (identified in the individual data sheets), fittings, and equipment needed to provide a fully functional project.

**Procurement and Installation of FF&E**

- (a) Developer shall procure, place and install, as applicable, all FF&E in the Areas in consultation with the Owner.
- (b) Developer shall provide all framing, supports, restraints, gasketing and sealants, and all connections to building systems for FF&E. FF&E shall be placed or installed, as applicable, to allow for easy access for maintenance, repair, cleaning and replacement.
- (c) Developer shall keep an inventory and a record of all FF&E placed or installed within each Facility. The FF&E records shall include an item number and location. The FF&E records and related information shall be included in the PMCS.

**Owner Review and Approval of FF&E**

- (a) Developer shall submit proposed FF&E designs, layouts and model numbers to the County for approval prior to procurement.
- (b) FF&E shall be included in all required mock-ups
- (c) In the event the materials, products, millwork or finishes to be provided by Developer offer multiple color palettes, textures or finishes, Developer shall provide the County with a minimum of three (3) options for such color palettes, textures or finishes for County's selection and approval. County approval of colors, textures and finishes shall be at the County's absolute discretion, provided cost is not materially affected.

**Individual Data Sheet Performance Requirements**

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**Performance Requirements**
**Acoustic Performance Requirements**

Design spaces to the acoustic performance specified in the individual data sheets as follows:

Acoustics	
AC1	Performance or Lecture Space: Space suitable for performance or lectures. Interior space acoustically designed to manage reflection and reverberation.
AC2	Classroom, Conference Room or Confidential Space: Space suitable for teaching, confidential conversations and high speech intelligibility.
AC3	Closed office: Space suitable for private conversations.
AC4	Open office and Workroom office:
AC5	Labs and Workshops:
AC6	Not Used
AC7	Public Space: Space suitable for public use, with moderate to high internal noise generation. High acoustic isolation to sound sensitive spaces. Interior space acoustically planned to absorb noise and manage reflection and reverberation.
AC8	Utility Space: High internal noise generation. Space perimeter designed to limit transmission of air or structure borne noise to other spaces.

Name	NC	STC		Max Reverb	
AC1	30	60/45		1.0	
AC2	35	50/35		0.6	
AC3	40	45/30		0.6	
AC4	NA	NA		NA	
AC5	NA	NA limit transmitted from within space to 30dBA		NA	
AC6	30	50/35		0.4	
AC7	40	N/A		0.6	
AC8	NA	NA		NA	

Areas specified in an Area Data Sheet shall conform to:

- The maximum Noise Criteria (NC) requirements specified in the applicable Area Data Sheet. NC ratings shall be as measured within the space following completion, and shall include all noise sources, including transient external noise;
- The minimum designed/laboratory assembly Sound Transmission (STC) ratings of perimeter specified in the applicable Area Data Sheet. The first number in the table above is the designed STC value for the fixed elements (walls, floors, ceilings, including glazing). The second number is the STC value for the complete assembly including doors, openings and penetrations. The as-built field measured STC rating may not be more than 5dBA lower than the specified designed STC rating;
- The maximum reverberation time (RT60) as specified in the Area Data Sheets. The reverberation time shall be the time taken for a given audio signal to fall by 60dB. Sound

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**Performance Requirements**

reflection shall also be managed with appropriate acoustic absorbing material, or non-parallel surfaces regardless of the specified reverberation time to ensure speech intelligibility and elimination of echoes; and

Acoustic separations shall continue above the ceiling plane and shall include any penetrations or joints. For areas with an STC rating of sixty (60) or greater, doors shall be fully gasketed doors with automatic door bottoms.

**Fenestration****Shades**

Developer shall comply with the following requirements as specified in the Area Data Sheets:

<b>Shading</b>	
S1	<b>Window blinds or Roller Shades, 5% Open:</b> Roller shades, manual operated, unless integrated with Daylighting
S1A	<b>Window blinds or Roller Shades, 5% Open and Manually Operated Blackout Shades:</b> (S1) plus manually operated blackout shades. Blackout shades on exterior and interior glazing
S2	<b>Window blinds or Roller Shades, 5% Open and Motorized Blackout Shades:</b> (S1) plus motorized blackout shades, coordinated with AV where appropriate. Blackout shades on exterior and interior glazing
S3	<b>Vertical Louver Blinds</b>

### **Interior Glazing**

#### General requirements

- (a) Interior glazing and frames shall be rated as required by wall assemblies. Glazing shall also be tempered or laminated as required for impact and crash protection and building codes. Wired glass shall not be permitted for fire rating or impact resistance.
- (b) Glazing shall be clear glass and be mounted at vision height to maximize views from interior spaces, except where noted as transom/clerestory height. The top of above-door transoms shall be no higher than the top of exterior windows in the opposite wall. Where possible, glazing shall be installed adjacent to doors to function as a sidelight.
- (c) Interior glazing frames shall match adjacent door and glazing frames in material and appearance. Wood window frames shall not be permitted.

### **Design Temperature and Humidity**

Summer outside air design temperature and humidity shall be consistent with the most stringent conditions for Washington, DC per ASHRAE Fundamentals Handbook (latest volume: 2017). Winter outside air design temperature shall be 11° DB, with low ambient conditions being designed to 0° DB.

Prince George's County Government requires all entities to keep setpoints at 78° DB in the summer and 68° DB in the winter. The design parameters below take these numbers into consideration along with keeping our facilities comfortable when true outside air temperatures exceed ASHRAE design standards.

Occupied spaces shall be designed to meet the following dry bulb temperature (DB) and relative humidity (RH) requirements:

- Summer: 72°F DB, 50% RH (Occupied setpoint: 76° DB; no higher than 78° DB)
- Winter: 72°F DB, 40% RH (Occupied setpoint: 70° DB; no lower than 68° DB)



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**Performance Requirements**
**Lighting Systems**

Design spaces to lighting performance specified in the individual data sheets as follows:

Lighting	
L1	Typical for classrooms, laboratories, large meeting rooms: 25 FC ambient and at work surfaces and teaching displays with multiple sets. Laboratory spaces shall be 50 FC
L2	Typical for offices & other work spaces: 30 FC ambient and at work surfaces
L3	Typical for conference rooms: 30 FC ambient and at work surfaces and walls
L5	Typical for circulation, stairwells, public areas: 50 FC ambient with focus lighting areas
L6	Typical for service & utility: 40 FC ambient, 70 FC at any service points or equipment
L7	Typical for restrooms, locker rooms: 10 FC ambient

**Lighting Quality**

- (a) Luminance Balance: Illuminance uniformity and balance shall not exceed 3 to 1 for task to immediately surrounding areas and 40 to 1 at any point in any space.
- (b) Color Appearance: The color corrected temperature (CCT) shall be 3,500K. The color rendering index shall be 80 or greater.
- (c) Illumination levels: Illumination levels shall be as specified in the area data sheets. Minimum surface reflectance levels shall be 80% for ceilings, 50% for walls, and 20% for floors.

**Lighting Layers and Controls**

- (a) Lighting Layers: Developer shall provide multiple lighting layers, including general room lighting and functional lighting as appropriate for room uses. Functional layers include focus lighting, downlights, wall illumination, task lighting and such like. Lighting layers shall be controlled through the lighting control system and individual occupant controls as required by room function.

**Wireless Requirements**

Design spaces for wireless as specified in the individual data sheets as follows:

Wireless Devices	
TW1	Assume (1) wireless devices per person (based on maximum occupancy) with a coverage at 5GHz with measured reception no less than -65DBm.
TW2	Assume (2) wireless devices per person (based on maximum occupancy) with a coverage at 5GHz with measured reception no less than -65DBm.
TW3	Assume (3) wireless devices per person with a coverage at 5GHz with measured reception no less than -65DBm.
TW4	Assume (3) wireless devices per person (based on maximum occupancy) with a coverage at 5GHz with measured reception no less than -65DBm.



### Capacity Calculation

Table 1 shows the breakout of classrooms by subject area and the associated State Rated Capacity (SRC). Based on scheduling data, average class sizes vary from 20 in the reading language arts rooms to over 30 in the electives.

The SRC assumes that classrooms will be used 85% of the school day.

The 1200 student middle school is designed around 3 teams per grade - each with approximately 125 students. The core classes include reading language arts, math, social studies, and science. It is common to have double periods of language arts and/or intensive level classes with smaller class sizes. The number of world language, reading, or other electives varies from school to school and will be identified during the development of a site-specific educational specification.

STATE RATED CAPACITY SUMMARY

	# of Rooms	# Students/ Room	Capacity
Academic Classrooms/Skills Labs (Reading Language Arts 10; Math 10; Social Studies 9; Other 6*; Health 2)	37	25	925
Gym/PE (or Dance)	3	25	75
Performing Art (Band/ Chorus/ Orchestra/Drama)	3	25-50	75
Science Lab	9	25	225
Special Education/ Self-contained Classrooms	3-4	8-10	30
STEAM Lab	1	25	25
Visual Arts	2	25	50
Total	58		1405
Total at 85% (SRC)			1194

\* World language, additional language arts or math, ESL, AVID

### Space Requirements Square Footage Tables

#### Space Requirements Summary

Base Required Space	Square Footage
Academic/Science	54,760
Administrative/ Guidance/ Health	6,475
Maintenance & Custodial Services	1,350
Media Center	5,600
PE/Indoor	13,250
Performing Arts	12,545
Special Education (See Appendix A)*	4,640
Student Dining & Food Service	10,120
Visual Arts	3,100
Building Support Areas [corridors, bathrooms, storage, stairwells, elevators] Includes 1260 (630 double-tier) corridor lockers	37,944
Total	149,784
Community Use (Wellness Clinic) Appendix B	1,600
+Construction factor	163,408

**Academic Core Space Requirements**

Space	Design Guideline			Comments
	Qty.	Sq.Ft.	Total	
Academic Classroom/ Studios	36	900	32,400	Includes ISS, AVID
Collaborative Learning Areas (informal)		varies	3,060	Independent and informal learning areas; 1 per grade level
Outdoor Learning Areas (patios, porches, green roofs)		varies	0	In addition to outdoor classroom; 1 per grade level
Science Classroom/ Lab	9	1,200	10,800	
Science Prep	3	300	900	1 per grade level
Small Group Instruction/ Resource Rooms	6	400	2,400	Resource areas
Special Needs Classroom/ Studios			0	See Appendix A
Speech/OT/PT Room	1	300	300	
STEAM Lab	1	2,200	2,200	
Student Services Offices	6	150	900	
Teacher Support Rooms	3	400	1,200	1 per grade level
Technology Storage	3	200	600	1 per floor/ learning community
Total			54,760	

**Administrative Space Requirements**

Space	Design Guideline			Comments
	Qty.	Sq.Ft.	Total	
Lobby (Main)	1			Part of gross SF
Reception/ Waiting Area	1	600	600	Includes coat closet
Principal's Office	1	230	230	Includes toilet
Administrative Assistant's Office	1	120	120	
Administrative Workroom	1	200	200	
Business Manager's Office	1	150	150	
Conference Room	1	300	300	Adj. to principal
Mail Room	1	150	150	
Security Center/ Office Suite	1	200	200	
Staff Break Room	1	800	800	Includes bathrooms
Supply (General)/ Administrative Storage	1	250	250	
Text Book Room	1	800	800	
Lactation Room	1	80	80	
Toilet (Adult)	1	50	50	
Total			3,930	

**Guidance/Student Services Space Requirements**

Space	Design Guideline			Comments
	Qty.	Sq.Ft.	Total	
Guidance/ Student Services Suite				
Reception/ Welcome Center	1	300	300	
Conference/Testing Rooms	1	250	250	
Guidance Offices	6	120	720	
Parent Resource Center	1	300	300	
Records Storage	1	150	150	May be in admin. Suite
Toilet (Adult)	1	50	50	
Total			1,770	

**Health Suite Space Requirements**

Space	Design Guideline			Comments
	Qty.	Sq.Ft.	Total	
Health Suite				
Reception/ Waiting Area	1	200	200	
Cot Rooms	2	100	200	
Exam Room/ Treatment Area	1	125	125	
Office	1	100	100	
Storage	1	50	50	
Toilet	2	50	100	
Total			775	

**Maintenance & Custodial Space Requirements**

Space	Design Guideline			Comments
	Qty.	Sq.Ft.	Total	
Receiving and storage	1	600	600	
Custodial Office	1	150	150	
Custodial Storage	1	300	300	
Toilet/Shower/Lockers	2	150	300	
Total			1,350	

**Media Center Space Requirements**

Space	Design Guideline			Comments
	Qty.	Sq. Ft.	Total	
Media Commons	1	3,200	3,200	
Equipment Storage	1	150	150	
Head End Room	1	190	190	
Digital Media Suite			1760	
Production Multi-media Studio	1	460		
Control Room	1	100		
Editing/Learning Studio	1	800		
Media Lab	1	400		
Toilet (Staff)	1	50	50	
Workroom/Office	1	250	250	
<b>Total</b>			<b>5,600</b>	

**Performing Arts Space Requirements**

Space	Design Guideline			Comments
	Qty.	Sq.Ft.	Total	
General Music				
Band Room	1	1,800	1,800	
Orchestra/ Guitar	1	1,400	1,400	
Choral/ Keyboard	1	1,900	1,900	
Choral Practice Rooms	2	100	200	For SmartMusic or similar tool
Instrument Storage	2	350	700	
Instrumental Practice Rooms	4	80	320	For SmartMusic or similar tool
Stage	1	1,200	1,200	
Stage Sound and Light Control Room	1	75	75	
Stage Storage	1	450	450	
Drama Lab and small performance space/ storage/office	1	2,600	2,600	
Dance Room	1	1,800	1,900	
Office	1	100		
Bathrooms w/ changing area	2		0	Take from total allowance
Office	1	100		Take from total allowance
<b>Total</b>			<b>12,545</b>	



**Physical Education Space Requirements**

Space	Design Guideline			Comments
	Qty.	Sq.Ft.	Total	
Lobby	1	1,000	1,000	in addition to regular circulation
Gymnasium Bleacher Seating (600)	1	5,800 2,400	8,200	Jr High Court size Seating is ½ of Student Capacity
Wellness Lab	1	900	900	Between health classrooms
Laundry	1	100	100	
Offices (Department/ Athletic)	3	150	450	Includes toilet and shower
P.E. Locker Rooms/Shower	2	850	1,700	Male and female
Storage	3	varies	900	
Partner Office (optional)	0	200	0	
<b>Total</b>			<b>13,250</b>	

**Site Requirements/Athletics**

Outdoor Educational and Support Spaces	Square Footage
Basketball Courts (4) Optional	
Bus parking/circulation (may be used as play space during the school day)	
Exterior Grounds Equipment Storage [secure – w/ roll-up door]	400 SF
Fields for football, soccer and lacrosse (if feasible), Baseball, Softball, Practice	
Gardens and outdoor learning spaces	
Parking	

**Student Dining & Food Service Space Requirements**

Space	Design Guideline			Comments
	Qty.	Sq.Ft.	Total	
Cafeteria/Commons	1	6,000	6,000	Cafeteria Seating is 1/3 of Student Capacity; Auditorium Seating is ½ of Student Capacity
Chair Storage	1	600	600	
Kitchen	1	2,000	2,000	
Serving Area	1	1,000	1,000	
Office	1	120	120	
Receiving/ Maintenance Closet	1	200	200	
Toilet/Shower/ Locker area	2	100	200	
<b>Total</b>			<b>10,120</b>	

Visual Art Space Requirements

Space	Design Guideline			Comments
	Qty.	Sq.Ft.		Qty.
Multi-Purpose Art Studios	2	1,300	2,600	
Kiln Room	1	100	100	
Storage	2	200	400	
Total			3,100	

The following pages detail the required elements for each space with regards to room environment, built-in or loose furniture and equipment, and special finishes or utilities.

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**Academic Core Space**

**ACADEMIC CLASSROOMS/LEARNING STUDIOS****QUANTITY:**

36 classrooms (Includes 1 Health Lab with sink)

**CAPACITY:**

15-32 students

1-2 staff members

Guest speakers and volunteers

**SIZE:**

900 SF

**SPATIAL RELATIONSHIPS:**

Near science lab

Near teacher support spaces

Within the learning communities near informal learning spaces

**GOAL:**

To create a learning environment that is comfortable, well lit, and acoustically designed for small and large group learning.

To provide a learning environment that frees teachers and students to customize the classroom daily – different seating set-ups, wireless mobile computing, and various teaching/presentation options.

To provide flexible space and layout to accommodate any of the core academic disciplines, such as English, mathematics, and social studies

To help students become critical thinkers, problem solvers, and lifelong learners

**PROGRAM ACTIVITIES:**

Computer simulations

Computerized instruction

Data collection and analysis

Hands-on activities

Large and small group instruction

Oral presentations

Team teaching

**SPACE REQUIREMENTS**

Construction:	
Min Ceiling Height:	10'-0"
Acoustics:	AC2 - High Performance: Conference Room or Confidential Space
Window shading:	S1A -Blinds/Shades and Manually Operated Blackout Shades
Power & Lighting	
User Convenience (excludes outlets for AV, security, etc.):	<ul style="list-style-type: none"> <li>One (1) outlet for control of the classroom projector/interactive board</li> <li>One (1) outlet for telephone at the teacher station</li> </ul>

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**Academic Core Space**

	<ul style="list-style-type: none"> <li>• One (1) outlet for the intercom system</li> <li>• Two (2) outlets at the teacher station for a teacher's computing device and accessory</li> <li>• Two (2) outlets for wireless network</li> <li>• Four (4) outlets for student use</li> <li>• Additional twenty (20) ampere circuit, or additional as required, to support computers, printer, and typical classroom equipment shall be in each classroom. Electrical outlets shall be placed on teaching walls at min six feet (6') on center and on other walls at twelve feet (12').</li> </ul>
Lighting level	L1 - 50 FC at work surfaces and teaching displays with multiple sets
Telecommunications	
Outlet (excludes outlets for AV, security, etc.):	<ul style="list-style-type: none"> <li>• One (1) data outlet for control of the classroom projector/interactive board</li> <li>• One (1) data outlet for telephone at the teacher station</li> <li>• One (1) data outlet for the intercom system</li> <li>• Two (2) data outlets, and one (1) voice outlet at the teacher station for a teacher's computing device and accessory</li> <li>• Two (2) data outlets for wireless network</li> <li>• One (1) data outlet for the PoE clock</li> </ul>
Sound Reinforcement	Every classroom will be wired for teacher audio enhancement and the audio system should be integrated into the intercom system. The mixed sound will be amplified and sent through the speakers (preferably ceiling mounted).
Wireless Requirements:	TW2 - 2 wireless devices per occupant (based on maximum occupancy)

**ADDITIONAL REQUIREMENTS**

Classrooms shall be grouped in clusters to allow for team teaching.

Provide doors between classrooms

Provide operable partition between a pair of classrooms at each grade level

Uniform lighting with multi-level switching

Window treatment to darken room for AV presentations

Windows (some operable) to provide natural light and egress

Include one sink and 6' of base cabinet in one classroom to function as a Health Education Lab

**BUILT-IN FIXTURES:**

2 Dry, white eraser-board (4' x 20' on two different walls) on track; all eraser-boards shall be installed with a marker tray, map rails with tack strip above

Clock (on side walls instead of rear walls)

Tack board (4' x 20') minimum; tack strips on all walls

**LOOSE FURNISHINGS:**

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**Academic Core Space**

1 work table  
2 file cabinets w/lock, 4-drawer  
28 student chairs  
28 student desks (trapezoid or square)  
Adjustable height bookshelves (24 LF)  
Teacher wardrobe (lockable) with coat rod; tall cabinet w/ shelving (may be one unit)  
Teacher's desk/workstation and chair  
Teachers' Mobile Cart for Technology

**AUDIO VISUAL EQUIPMENT**

See Educational Technology Requirements

**COLLABORATIVE LEARNING AREAS****QUANTITY:**

Minimum One (1) per grade level

**CAPACITY:**

3 to 60 persons

**SIZE:**

Total Square Footage 3,060 that can divided per grade level or designed as one large space incorporated into corridors or lobbies

**SPATIAL RELATIONSHIPS:**

Collaboration areas may be as small as an alcove outside of a classroom in the corridor or a place for large group activities to include such amenities as tiered seating, platform stage, large screens, etc. The space should be intentional and have appropriate fixtures and furniture. No loose furniture is allowed in the right-of-way.

**GOALS:**

To provide a space for small group instruction, students working independently or in small groups  
To provide informal learning space for pull-out instruction

**PROGRAM ACTIVITIES:**

Collaborative Learning Areas are intended to provide a space for small group instruction, students working independently or in small groups, and to provide informal learning space for pull-out instruction

**SPACE REQUIREMENTS**

Construction:	
Min Ceiling Height:	9'-0"
Acoustics:	AC2 - High Performance: Conference Room or Confidential Space
Window shading:	S1A -Blinds/Shades and Manually Operated Blackout Shades
Power & Lighting	
User Convenience (excludes outlets for AV, security, etc.):	Duplex on perimeter walls at twelve feet (12'), recessed floor quad at 1 per 100 ASF.
Power density:	PW2 - 3W/ASF
Lighting level	L3 - 35 FC at work surfaces and walls
Lighting control	LC8 - Public Space
Telecommunications	
Outlet (excludes outlets for AV, security, etc.):	Standard Data drops
Wireless Requirements:	TW2 - 2 wireless devices per occupant (based on maximum occupancy)

**ADDITIONAL REQUIREMENTS**

Uniform lighting with multi-level switching

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**Academic Core Space**

Portions of lobbies and circulation shall be designed to foster interaction and informal scholarly gatherings. Spaces in the design shall provide a range of sizes to accommodate varying needs, from small gatherings and discussions to larger structured sessions. Spaces shall be distributed and adjacent to other academic uses.

The spaces may be normally open to corridors or circulation areas.

**BUILT-IN FIXTURES:**

- Built-in seating
- Dry, white eraser-board
- Locked storage
- Projection Screen
- Tack board

**LOOSE FURNISHINGS:**

**AUDIO VISUAL EQUIPMENT**

See Educational Technology Requirements



**OUTDOOR LEARNING AREAS (not including outdoor classroom)**

**QUANTITY:**

Varies

**CAPACITY:**

3 to 60 persons

**SIZE:**

Total Square Footage 1,000 that can divided or designed as one large space

**SPATIAL RELATIONSHIPS:**

Outdoor learning areas may be as small as a patio outside of a classroom or a covered area with tables or a place for large group activities to include such amenities as tiered seating, platform stage, etc. The space should be intentional and have appropriate fixtures and furniture.

**GOALS:**

To provide a space for small group instruction, students working independently or in small groups  
To provide informal learning space for pull-out instruction

**PROGRAM ACTIVITIES:**

Oral presentations  
Small group activities  
Students working on projects  
Tutoring

**PROGRAM ACTIVITIES:**

N/A

**SPACE REQUIREMENTS**

N/A

**ADDITIONAL REQUIREMENTS**

The space shall be intentional and have appropriate fixtures and furniture.  
Spaces shall have clear spatial boundaries such as hedges or fences.  
Spaces shall have access to power and wireless data, with a minimum of one lockable exterior duplex receptacle at the instructor location and TW-2 level of wireless service.

**BUILT-IN FIXTURES:**

None

**LOOSE FURNISHINGS:**

1 park bench  
1 picnic table

**AUDIO VISUAL EQUIPMENT**

None

**OUTDOOR ENVIRONMENTAL CLASSROOM****QUANTITY:**

1

**CAPACITY:**15-32 students1-2 staff members

Guest speakers and volunteers

**SIZE:**

1,000 SF

**SPATIAL RELATIONSHIPS:**

Connection to the Overall School Site: The outdoor classroom learning area, shall be clearly defined, but with a possibility for expansion of activities beyond into garden plots nearby. The outdoor classroom shall be in a controlled and secure location but not isolated from view. The exit from the school shall be accessible by all classes, e.g., not through a doorway in a classroom. The location should capitalize on any site features. For instance, create a clear connection to an on-site stream.

**GOALS:**

To create an exterior learning environment that is comfortable and designed for small and large group learning.

To provide a learning environment that frees teachers and students to customize the classroom daily.

To help students become critical thinkers, problem solvers, and lifelong learners

**PROGRAM ACTIVITIES:**

Outdoor teaching

**PROGRAM ACTIVITIES:**

N/A

**SPACE REQUIREMENTS**

N/A

**ADDITIONAL REQUIREMENTS**

Accessibility: The pathway connecting the school, outdoor classroom, and any specifically programmed teaching areas associated with the classroom shall be clearly delineated and constructed of a solid material. All outdoor areas should be fully accessible to students of different mobility. For instance, at least some garden beds should be raised 18"-24" to be easily access from a wheelchair (if garden beds are built). Refer to the current ADA standards for minimum design requirements in this capacity. Apply these standards to any student garden areas, or other programmatic spaces associated with the outdoor classroom, as well.

Layout: Provide a station for the teacher to work from where he/she can see each student. Seating can be either fixed or flexible, depending on the site, but should accommodate up to 35 students.

Orientation of the teacher and students should be along a north/south axis, so neither is looking into the sun during instruction times.

Maintenance: The outdoor classroom should be designed to be low maintenance and Developer shall provide a specific maintenance plan for each site's outdoor classroom. The school maintenance supervisor should be made aware of any special aspects and confident in his/her ability to care for the space.

Materials: The outdoor classroom should be built with natural materials like wood or stone. Limit the use of concrete and even then, only in high traffic areas, for example the walkway connecting the school and the outdoor classroom. Consider the albedo (reflectivity) of materials used, since glare can hinder the students' ability to focus. Permeable paving of any material is encouraged, including pervious concrete.

Plants: When choosing plant material, preference should be given to native shade trees and low maintenance shrubs. Choose plant species based on how the mature size would fit into the landscape. Also, plants should be chosen with all 4 seasons in mind. When choosing plant material for the school site, use a variety of species as appropriate.

**Required Site Elements:**

- Duplex Electrical outlet at the 'teachers station'
- Wi-Fi access
- Exterior water hose hook-up
- Point of access for larger vehicles and supplies
- Built-in seating for one class (35 students)
- Shade, either by a shade structure or by trees
- Tool shed for manual garden tools (shovels, hoes, rakes- provided by PGCPs)

**Potential Site Elements:**

- Composting area
- Greenhouse (Kenmoor MS has a greenhouse that must be relocated to the new site)
- Interactive water and energy usage learning station
- Managed meadow
- Pollinator garden, with space and paths for students to get in and investigate
- Rain garden
- School arboretum
- Vegetable/community garden plots/raised beds

Solar aspect/shade: The teaching area must be shaded, but the nearby areas for potential expansion with garden plots should receive 6-8 hours of sunshine a day

Spaces shall have access to power and wireless data, with a minimum of one lockable exterior duplex receptacle at the instructor location and TW-2 level of wireless service.

**BUILT-IN FIXTURES:**

None

**LOOSE FURNISHINGS:**

- 1 park bench
- 1 picnic table

**AUDIO VISUAL EQUIPMENT**

None

**SCIENCE CLASSROOM / LAB****QUANTITY:**

9 lab/classrooms

**CAPACITY:**

24 students

1-2 staff members

Guest speakers and volunteers

**SIZE:**

1,200 SF

**SPATIAL RELATIONSHIPS:**

Accessible to students from Learning community

Adjacent to Science Prep/Storage

Lab stations should not cause students to have backs to the room

**GOAL:**

Help students become critical thinkers, problem solvers, and lifelong learners

Lab will be combination classroom/lab

Provide flexible space and layout to support delivery of entire science curriculum

Teach students to become reasonable caretakers of their bodies and environment

**PROGRAM ACTIVITIES:**

Computerized instruction &amp; simulations

Data collection and analysis

Hands-on activities

Large and small group instruction

Oral presentations (teacher, student, group)

Team teaching

**SPACE REQUIREMENTS**

Construction:	
Min Ceiling Height:	10'-0"
Acoustics:	AC2 - High Performance: Conference Room or Confidential Space
Window shading:	S1A -Blinds/Shades and Manually Operated Blackout Shades
Plumbing:	
Fixture Type:	Lab sinks along wet wall, Access to eyewash / safety shower (EWSS) as per Technical Requirements Section 3.8.10.2.3
Piped services:	Industrial hot & cold water, potable cold water
Special drains:	Acid waste drain at lab sinks, floor drains
Power & Lighting	
User Convenience (excludes outlets for AV, security, etc.):	<ul style="list-style-type: none"> <li>One (1) outlet for control of the classroom projector/interactive board</li> <li>One (1) outlet for telephone at the teacher station</li> </ul>

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**Academic Core Space**

	<ul style="list-style-type: none"> <li>• One (1) outlet for the intercom system</li> <li>• Two (2) outlets at the teacher station for a teacher's computing device and accessory</li> <li>• Two (2) outlets for wireless network</li> <li>• Four (4) outlets for student use</li> <li>• Additional twenty (20) ampere circuit, or additional as required, to support computers, printer, and typical classroom equipment shall be in each classroom. Electrical outlets shall be placed on teaching walls at min six feet (6') on center and on other walls at twelve feet (12').</li> </ul>
Lighting level	L1 - 50 FC at work surfaces and teaching displays with multiple sets
Telecommunications	
Outlet (excludes outlets for AV, security, etc.):	<ul style="list-style-type: none"> <li>• One (1) data outlet for control of the classroom projector/interactive board</li> <li>• One (1) data outlet for telephone at the teacher station</li> <li>• One (1) data outlet for the intercom system</li> <li>• Two (2) data outlets, and one (1) voice outlet at the teacher station for a teacher's computing device and accessory</li> <li>• Two (2) data outlets for wireless network</li> <li>• One (1) data outlet for the PoE clock</li> </ul>
Sound Reinforcement	Every classroom will be wired for teacher audio enhancement and the audio system should be integrated into the intercom system. The mixed sound will be amplified and sent through the speakers (preferably ceiling mounted).
Wireless Requirements:	TW2 - 2 wireless devices per occupant (based on maximum occupancy)
SPECIALTIES	
Special features:	<p>30' Built in base cabinets with epoxy counter top and lockable cupboard/drawer units at perimeter</p> <p>6 Each Epoxy lab sinks in perimeter cabinetry, paper towel holder, soap dispenser. Sinks to have central water shut off at instructor station.</p> <p>Sink pedestal at instructor workstation, with epoxy sink and top and base cabinets</p>

**ADDITIONAL REQUIREMENTS**

Consider future technology needs; build-in flexibility to retain options

Rooms designed for ease of movement and accessibility; Students need to be able to move around the labs with chemicals, etc., in a safe way.

Window treatment to darken room for AV presentations

Windows to provide natural light and egress

Flooring:

Moisture and stain-resistant finishes

**Counter/Table Tops:**

Heat and chemical-resistant (to acids, etc.)

Acid waste is required at all sinks and floor drains to the point of connection to main drain system.

Neutralization tanks are not required, unless required by authority having jurisdiction or utility provider.

**BUILT-IN FIXTURES:**

2 Dry, white eraser-board (4' x 20' on two different walls) on track; all eraser-boards shall be installed with a marker tray, map rails with tack strip above

Clock (on side walls instead of rear walls)

Projection screen, as needed

Tack board (4' x 20') minimum; tack strips on all walls

Towel/Soap Dispenser

**LOOSE FURNISHINGS:**

12, 2-person adjustable height science tables

2 tall cabinets for equipment storage -one with glass front (both lockable)

24 student chairs

Adjustable height stool for teacher

Digital science instrumentation

Extra tables and chairs for flexibility

Fire blanket

Fire extinguisher (ABC type), first aid kit

Goggle storage and sanitizer cabinet

Mobile demonstration table with utilities

Teachers' Mobile Cart for Technology

**AUDIO VISUAL EQUIPMENT**

See Educational Technology Requirements

**SCIENCE PREP ROOM****QUANTITY:**

3 rooms

**CAPACITY:**

1 or 2 staff members

Student assistants

**SIZE:**

300 SF

**SPATIAL RELATIONSHIPS:**

One per grade level community

Central to science labs

**GOAL:**

To allow for lab preparation

**PROGRAM ACTIVITIES:**

General lab preparation

Store equipment

Set up experiments

**SPACE REQUIREMENTS**

Construction:	
Min Ceiling Height:	9'-0"
Acoustics:	AC5 - Labs and Workshops
Window shading:	No preference
Plumbing:	
Fixture Type:	Deep lab sinks, Eye Wash/Safety Shower
Piped services:	Industrial hot & cold water, potable cold water
Special drains:	Acid waste drain at lab sinks, floor drains
Power & Lighting	
User Convenience (excludes outlets for AV, security, etc.):	Duplex at counters at max 2' on center, on walls at twelve feet (12')
Lighting level	L4 - 25/75 FC bi-level ambient and at all work locations
Telecommunications	
Outlet (excludes outlets for AV, security, etc.):	One data drop on perimeter walls at max 12' on center.
Wireless Requirements:	TW2 - 2 wireless devices per occupant (based on maximum occupancy)
SPECIALTIES	
Special features:	Built in casework at perimeter of room with lockable cupboard/drawer base cabinets and epoxy counter tops. Provide two knee space workstations with adjustable height countertops. 1 Each 4' ductless chemical fume hoods



	2 Each epoxy lab sinks, counter mounted, paper towel holder, soap dispenser One (1) 24" single door autoclave, one high temperature oven, one glassware washer and dryer, sized to accommodate lab area served (autoclave, oven and washer/drier only required in one room per school) Pure Water/Distilling station capable of generating 2 gallons per hour at 1 MegaOhm
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**ADDITIONAL REQUIREMENTS****Flooring:**

Moisture and stain-resistant finishes

**Counter/Table Tops:**

Heat and chemical-resistant (to acids, etc.)

Acid waste is required at all sinks and floor drains to the point of connection to main drain system.

Neutralization tanks are not required, unless required by authority having jurisdiction or utility provider.

**BUILT-IN FIXTURES:**

See Space Requirements

**LOOSE FURNISHINGS:**

2 file cabinets on mobile pedestals

2 workstations

1 Chemical (acid) storage cabinets (lockable)

1 Flammable cabinet - one per school on upper floor – vented to the outside

Ductless fume hood – one per school

Drying rack (glassware)

Stools

**AUDIO VISUAL EQUIPMENT**

See Educational Technology Requirements

**SMALL GROUP INSTRUCTION/ RESOURCE ROOMS****QUANTITY:**

6

**CAPACITY:**

Up to 15 students

1 staff member

**SIZE:**

400-499 SF

**SPATIAL RELATIONSHIPS:**

Two per learning community

**GOAL:**

To provide flexible space to accommodate any of the special small group instruction needs

**PROGRAM ACTIVITIES:**

Computerized instruction

Hands-on activities

Small group instruction

Team teaching

**SPACE REQUIREMENTS**

Construction:	
Min Ceiling Height:	10'-0"
Acoustics:	AC2 - High Performance: Conference Room or Confidential Space
Window shading:	S1A -Blinds/Shades and Manually Operated Blackout Shades
Power & Lighting	
User Convenience (excludes outlets for AV, security, etc.):	<ul style="list-style-type: none"> <li>One (1) outlet for control of the classroom projector/interactive board</li> <li>One (1) outlet for telephone at the teacher station</li> <li>One (1) outlet for the intercom system</li> <li>Two (2) outlets at the teacher station for a teacher's computing device and accessory</li> <li>Two (2) outlets for wireless network</li> <li>Four (4) outlets for student use</li> <li>Additional twenty (20) ampere circuit, or additional as required, to support computers, printer, and typical classroom equipment shall be in each classroom. Electrical outlets shall be placed on perimeter walls at twelve feet (12').</li> </ul>
Lighting level	L1 - 50 FC at work surfaces and teaching displays with multiple sets

Telecommunications	
Outlet (excludes outlets for AV, security, etc.):	<ul style="list-style-type: none"> <li>One (1) data outlet for control of the classroom projector/interactive board</li> <li>One (1) data outlet for telephone at the teacher station</li> <li>One (1) data outlet for the intercom system</li> <li>Two (2) data outlets, and one (1) voice outlet at the teacher station for a teacher's computing device and accessory</li> <li>Two (2) data outlets for wireless network</li> <li>One (1) data outlet for the PoE clock</li> </ul>
Wireless Requirements:	TW2 - 2 wireless devices per occupant (based on maximum occupancy)
Sound Reinforcement	Every classroom will be wired for teacher audio enhancement and the audio system should be integrated into the intercom system. The mixed sound will be amplified and sent through the speakers (preferably ceiling mounted).

**ADDITIONAL REQUIREMENTS**

Comfortable rooms with pleasant décor  
Window treatment to darken room for AV presentation  
Windows to provide natural light and egress

**BUILT-IN FIXTURES:**

1 Dry, white eraser-board (4' x 16') on track; eraser-board shall be installed with a marker tray, map rails with tack strip above  
Clock (on side walls instead of rear walls)  
Tack board (4' x 8') minimum; tack strips on all walls

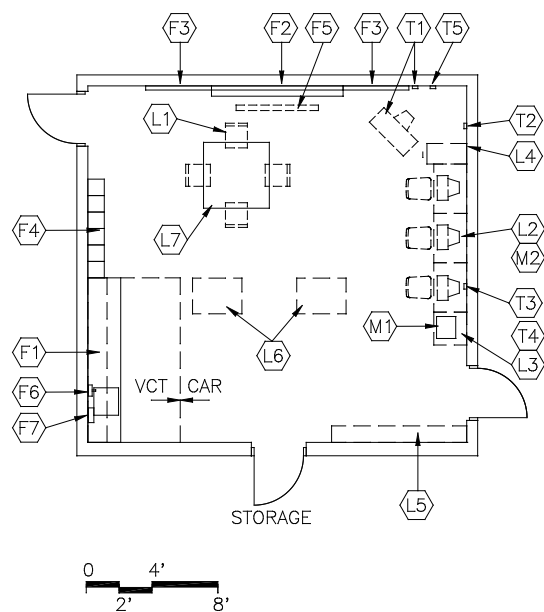
**LOOSE FURNISHINGS:**

1 file cabinet w/lock, 4-drawer  
3 computer workstations  
10 student desks and chairs  
Adjustable height bookshelves (12 LF)  
Lockable teacher wardrobe with coat rod; tall cabinet w/ shelving (may be one unit)  
Teacher's desk/workstation and chair

**AUDIO VISUAL EQUIPMENT**

See Educational Technology Requirements

SPEECH/ OCCUPATIONAL/ PHYSICAL THERAPY



QUANTITY:

1

CAPACITY:

Up to 3 students  
Up to 2 staff

SIZE:

300 SF

SPATIAL RELATIONSHIPS:

Near Special Needs Classrooms

GOAL:

To provide private functional mobility training for students

PROGRAM ACTIVITIES:

Assistive technology evaluation  
Exercise  
Occupational and Physical Therapy

SPACE REQUIREMENTS

Construction:	
Min Ceiling Height:	9'-0"
Acoustics:	AC3- Office
Window shading:	S1 - Roller Shades, 5% Open
Plumbing:	

Fixture Type:	Counter mounted sink
Power & Lighting	
User Convenience (excludes outlets for AV, security, etc.):	<ul style="list-style-type: none"> <li>One (1) outlet for control of the classroom projector/interactive board</li> <li>One (1) outlet for telephone at the teacher station</li> <li>One (1) outlet for the intercom system</li> <li>Two (2) outlets at the teacher station for a teacher's computing device and accessory</li> <li>Two (2) outlets for wireless network</li> <li>Four (4) outlets for student use</li> <li>Additional twenty (20) ampere circuit, or additional as required, to support computers, printer, and typical classroom equipment shall be in each classroom. Electrical outlets shall be placed on perimeter walls at twelve feet (12').</li> </ul>
Lighting level	L3 - 35 FC at work surfaces and walls
Telecommunications	
Outlet (excludes outlets for AV, security, etc.):	<ul style="list-style-type: none"> <li>One (1) data outlet for control of the classroom projector/interactive board</li> <li>One (1) data outlet for telephone at the teacher station</li> <li>One (1) data outlet for the intercom system</li> <li>Two (2) data outlets, and one (1) voice outlet at the teacher station for a teacher's computing device and accessory</li> <li>Two (2) data outlets for wireless network</li> <li>One (1) data outlet for the PoE clock</li> </ul>
Wireless Requirements:	TW1 - 1 wireless device per occupant (based on maximum occupancy)
Sound Reinforcement	Every classroom will be wired for teacher audio enhancement and the audio system should be integrated into the intercom system. The mixed sound will be amplified and sent through the speakers (preferably ceiling mounted).

**ADDITIONAL REQUIREMENTS**

**Loading Capacity:** the floor shall have a loading capacity of 100 psf; permanent walls shall have the capacity to support 100 pounds point load and 200 pounds over any four (4) feet; ceiling or structure above shall have unistrut or similar grid framing at maximum 4 feet on center, with the ability to support 300 pounds at any point and 300 pounds in any four (4) feet by four (4) feet bay. Ceiling grid shall be laterally braced to the building structure for the full design load, and capable of providing lateral bracing to imposed load.

Adequate ventilation

Auditory privacy

Environmental sound control:

Wall minimum: STC 45

Ceiling minimum: CAC 35

Reinforce structure to support equipment such as a trapeze  
Wheelchair accessibility

**BUILT-IN FIXTURES:**

- F1 Casework: Wall/base cabinets for sink
- F2 Marker board (8 LF)
- F3 Tack board (8 LF)
- F5 Manual projection screen
- F6 Soap dispenser
- F7 Towel dispenser

**LOOSE FURNISHINGS:**

- L1 4 chairs
- L2 1 computer workstation furniture
- L4 4-drawer file cabinet
- L5 Bookshelves
- L6 OT/PT Therapy equipment (Provided by PGCPs Staff)
- L7 Work table

**AUDIO VISUAL EQUIPMENT**

See Educational Technology Requirements

**STEAM (Science, Technology, Engineering, Art, Math) LAB****QUANTITY:**

1

**CAPACITY:**28 students2 teachers**SIZE:**

2,200 SF (includes finishing room, tool and supply storage and material storage alcove adjacent to the fabrication area of the main laboratory)

**SPATIAL RELATIONSHIPS:**

Three (3) areas: 1) the Seated Instructional area, 2) the Fabrication area, and 3) the Modular Instructional Units area.

**GOALS:**

Flexible space and layout to accommodate student learning through active interaction with technology systems

**PROGRAM ACTIVITIES:**

Computer simulations and instruction  
 Data collection and analysis  
 Hands-on activities  
 Large and small group instruction  
 Team teaching

**SPACE REQUIREMENTS**

Construction:	
Min Ceiling Height:	10'-0"
Acoustics:	AC5 - Labs and Workshops
Window shading:	S1A -Blinds/Shades and Manually Operated Blackout Shades
Power & Lighting	
User Convenience (excludes outlets for AV, security, etc.):	See Additional Requirements
Lighting level	L4 - 25/75 FC bi-level ambient and at all work locations
Telecommunications	
Outlet (excludes outlets for AV, security, etc.):	<ul style="list-style-type: none"> <li>One (1) data outlet for control of the classroom projector/interactive board</li> <li>One (1) data outlet for telephone at the teacher station</li> <li>One (1) data outlet for the intercom system</li> <li>Two (2) data outlets, and one (1) voice outlet at the teacher station for a teacher's computing device and accessory</li> <li>Two (2) data outlets for wireless network</li> </ul> One (1) data outlet for the PoE clock

Wireless Requirements:	TW2 - 2 wireless devices per occupant (based on maximum occupancy)
SPECIALTIES	
Special features:	See Additional Requirements in Education Specifications

**ADDITIONAL REQUIREMENTS**

The STEAM Lab contains multiple spaces and rooms:

Main teaching space containing three distinct learning areas:

the Seated Instructional area,  
the Fabrication area, and  
the Modular Instructional Units area

finishing room,

tool and supply storage and

material storage alcove adjacent to the fabrication area of the main laboratory

Finishing room and storage areas shall open directly on to the Main teaching space

**Access**

Lab shall have a clear path of travel to exterior loading areas to allow for movement of large or heavy objects. For planning purposes, largest object size to be accommodated shall be 4' x 4' in plan and 7' in height. Path of travel may be from upper floor via elevator.

**Structure**

Loading Capacity: the floor shall have a concentrated load loading capacity of 1,000 pounds;

**Cabinetry**

Provide acid resistant epoxy workbenches in fabrication area, min 12' length

**Plumbing**

Provide one counter sink with hot and cold water and one deep stainless steel lab sink with hot and cold water

Provide storage with shelves below sinks in cabinets with a minimum of 2-drawers on each side.

Provide clay and plaster traps at deep sink.

Provide emergency shower and eyewash station

**HVAC**

Provide OSHA compliant dust extract and exhaust system at fabrication area with dust collection and exhaust direct to outside. Provide adequate make-up air and position room supply and return registers and grilles appropriately to ensure exhaust flow towards hood.

**Electrical systems**

Provide retractable overhead power reels in fabrication area. Allow one reel per 36 SF.

In addition to outlets noted on ADS, provide power outlets at 2' on center on workbenches

Workbench and overhead reels to have be controlled by a single Emergency Power Off switch



OSHA requirements maintained

Rooms designed for ease of movement and accessibility; Students need to be able to move around the worktables

Consider future technology needs; build-in flexibility to retain options.

Dust collection, and exhaust systems to meet ASHRAE standards.

Windows to provide natural light and egress

Finishes:

Flooring:

Moisture and stain-resistant finishes

Counter/Table Tops:

Heat and chemical-resistant (to acids, etc.)

#### **BUILT-IN FIXTURES:**

Seated Instructional area:

Clock

Lockable teacher wardrobe with coat rod; tall cabinet w/ shelving (may be one unit)

Permanently-mounted projection screen (not in front of the white eraser board) or interactive board

Tack board (4' x 16') minimum; tack strips on all walls

Fabrication area:

1 Dry, white eraser-board (4' x 8') on track

2 work benches 24 X 72 should be along wall

48" wide lockable tote tray cabinet and 35" wide tall cabinet with adjustable shelves

Goggle storage and sterilization with adequate ventilation.

Tack board (4' x 16') minimum

Modular Instructional Units area

None

#### **LOOSE FURNISHINGS:**

Seated Instructional area:

1 Dry, white eraser-board (4' x 8') on track;

1 work table

2, file cabinets w/lock, 4-drawer

28 student desks and chairs or 14, 2-person lab tables

Adjustable height bookshelves (24 LF)

Teacher's desk/workstation and chair

Teachers' Mobile Cart for Technology

Fabrication area:

Furniture and Equipment

4-6 mobile work tables (48" x 60")

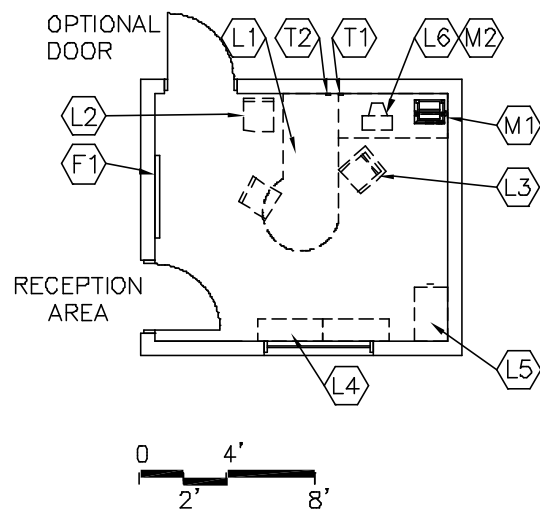
Modular Instructional Units area

Modular Instruction units - Provided by PGCPs

**AUDIO VISUAL EQUIPMENT**

See Educational Technology Requirements

STUDENT SERVICES OFFICES



QUANTITY:

6

CAPACITY

1 staff member (Assistant Principals, social workers, instructional specialists, etc.)  
Up to 3 visitors

SIZE

150 SF

SPATIAL RELATIONSHIPS:

Located centrally within each community

GOAL

To provide an office for the staff to perform administrative functions

PROGAM ACTIVITES

Coordination of school and support services  
Meeting with parents, students, and staff  
Telephone communications (private)

SPACE REQUIREMENTS

Construction:	
Min Ceiling Height:	9'-0"
Acoustics:	AC3 - Medium Performance: Closed Office
Window shading:	S1 - Roller Shades, 5% Open
Power & Lighting	

**Academic Core Space**

User Convenience (excludes outlets for AV, security, etc.):	2 duplex outlets per wall on two side walls
Lighting level	L2 - 35 FC at work surfaces
Telecommunications	
Outlet (excludes outlets for AV, security, etc.):	One standard data drop on two side walls
Wireless Requirements:	TW2 - 2 wireless devices per occupant (based on maximum occupancy)

**ADDITIONAL REQUIREMENTS**

Auditory privacy

Environmental sound control:

Wall minimum: STC 45

Ceiling minimum: CAC 35

Windows to provide natural light

Uniform lighting

None

**BUILT-IN FIXTURES:**

F1 Tack board (4 LF)

**LOOSE FURNISHINGS:**

L1 Desk with conference table

L2 2 guest chairs

L3 Ergonomic task chair

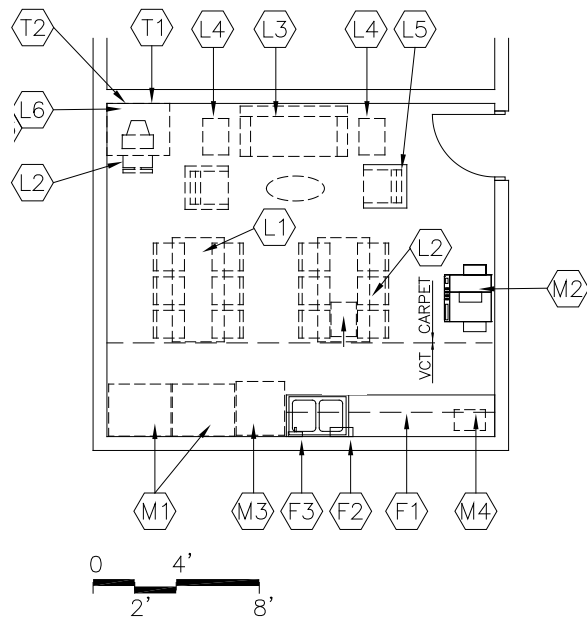
L4 Adjustable height bookshelves (12 LF)

L5 1, 4-drawer locking file cabinet

L6 Computer workstation

**AUDIO VISUAL EQUIPMENT**

See Educational Technology Requirements

**TEACHER SUPPORT ROOMS****QUANTITY:**

3 (1 per grade level)

**CAPACITY:**

6-36 teachers

**SIZE:**

400 SF

**SPATIAL RELATIONSHIPS:**

- Access from Corridor
- Located near individual restrooms
- Located within Grade Level areas
- One per grade level community

**GOAL:**

To provide space for teachers to carry out their administrative duties, prepare materials for class, access the Internet, lock up personal items, and to socialize and relax.

**PROGRAM ACTIVITIES:**

- Eating lunch
- Enter and access data
- Grade papers
- Prepare lessons using computer, video, and other resources.
- Store files (floating or shared department files)

**SPACE REQUIREMENTS**

Construction:	
Min Ceiling Height:	9'-0"
Acoustics:	AC3 - Office
Window shading:	S1 - Roller Shades, 5% Open
Plumbing:	
Fixture Type:	double bowl deep sink with hot and cold water
Piped services:	hot and cold water
Special drains:	None
Power & Lighting	
User Convenience (excludes outlets for AV, security, etc.):	Duplex on perimeter walls at twelve feet (12'), 2 recessed floor quad
Lighting level	L2 - 35 FC at work surfaces
Telecommunications	
Outlet (excludes outlets for AV, security, etc.):	Standard data drops on perimeter walls at max 12' on center
Wireless Requirements:	TW2 - 2 wireless devices per occupant (based on maximum occupancy)
SPECIALTIES	
Special features:	Base cabinet and counter top, min 12' length

**ADDITIONAL REQUIREMENTS**

None

**BUILT-IN FIXTURES:**

- F1 Casework: Base cabinets and shelving
- F2 Sink w/soap dispenser
- F3 Towel dispenser
- Tack board (4 LF)

**LOOSE FURNISHINGS:**

- L1 2 Tables
- L2 12-13 chairs
- L3 Sofa (optional)
- L4 End Tables (optional)
- L5 Soft Chairs (optional)
- L6 Computer workstation with ergonomic task chair

provided by owner

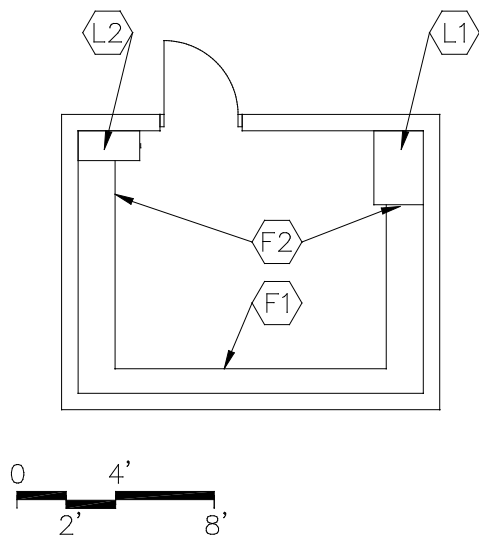
- M1 Vending machines
- M2 Printer/ Copier/ Scanner/ Fax
- M3 Refrigerator
- M4 2 Microwaves

**AUDIO VISUAL EQUIPMENT**

See Educational Technology Requirements



TECHNOLOGY STORAGE



QUANTITY:

3

SIZE:

200 SF

SPATIAL RELATIONSHIP:

- One per learning community
- One per floor

GOAL:

To provide a safe and secure area for storage of equipment and supplies

SPACE REQUIREMENTS

Construction:	
Min Ceiling Height:	9'-0"
Acoustics:	AC8 - Utility Space
Window shading:	None
Power & Lighting	
User Convenience (excludes outlets for AV, security, etc.):	Duplex on perimeter walls, one per wall
Lighting level	L6 - 40 FC ambient, 70 FC at any service points or equipment
Telecommunications	
Outlet (excludes outlets for AV, security, etc.):	1 standard data drop per room
Wireless Requirements:	TW1 - 1 wireless device per occupant (based on maximum occupancy)



**ADDITIONAL REQUIREMENTS**

None

**BUILT-IN FIXTURES:**

F1 Storage shelving (12" deep)

F2 Storage shelving (18" deep)

**LOOSE FURNISHINGS:**

L1 Adjustable height shelving (24" deep)

L2 4-drawer file cabinet (legal)

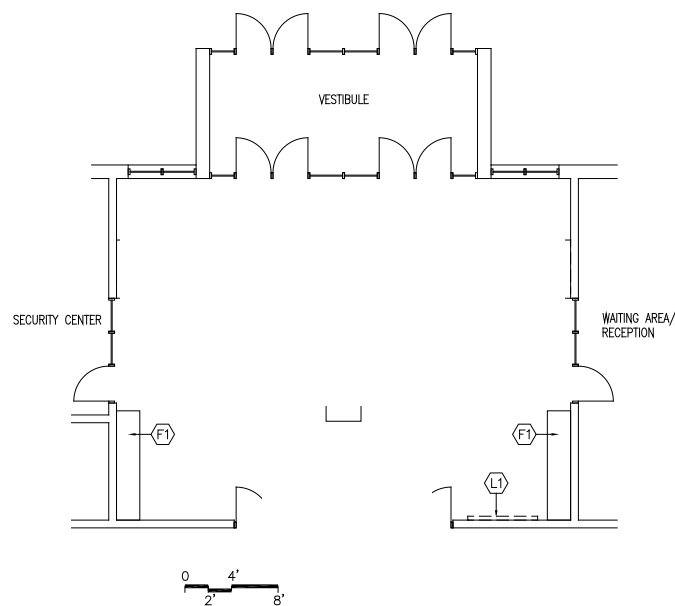
**AUDIO VISUAL EQUIPMENT**

None

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**Administrative Space**

LOBBY (MAIN)



QUANTITY:

1

SIZE:

Part of general circulation

SPATIAL RELATIONSHIP:

- Adjacent and access to Main Office
- Adjacent and access to Security Office

GOAL:

To immediately greet visitors with a welcoming atmosphere and to provide easy accessibility for the public

SPACE REQUIREMENTS

Construction:	
Min Ceiling Height:	12'
Acoustics:	AC7 - Public Space
Power & Lighting	
User Convenience (excludes outlets for AV, security, etc.):	Duplex on perimeter walls at twelve feet (12'). One outlet per CCTV camera position
Lighting level	L5 - 25 FC ambient with focus lighting areas
Telecommunications	
Outlet (excludes outlets for AV, security, etc.):	None
Wireless Requirements:	TW2 - 2 wireless devices per occupant (based on maximum occupancy)

**ADDITIONAL REQUIREMENTS**

**Lobby & Reception:**

The lobby and reception areas shall be inviting, well lit and comfortably furnished.

Entry doors shall include a large vestibule for weather protection, with adequate capacity to handle large traffic volumes

Lobby and reception areas shall have built-in or moveable display areas, with the ability to provide focus lighting on specific objects

Reception shall open directly from the lobby and shall include seating areas for waiting

Reception area shall have 18' reception/transaction counter, and back-counter with base and wall cabinets. Counter shall be bi-level for ADA access.

**Security Layering**

Lobby and reception provide the first interior layer of security against intruders. All doors leading from lobby and reception shall be lockable with electronic ACAMS controls.

The morning student entrance may be located near the dining area.

The teachers' entrance may be near staff parking and must be pass key protected for controlled access at all times.

**BUILT-IN FIXTURES:**

F1 Display cases

L1 Electronic board

Security desk/counter with workstation

**LOOSE FURNISHINGS:**

**AUDIO VISUAL EQUIPMENT**

See Educational Technology Requirements

**RECEPTION/ WAITING AREA****QUANTITY:**

1

**CAPACITY:**

10 people

**SIZE:**600 SF (includes 50 SF coat closet)**SPATIAL RELATIONSHIPS:**

- Adjacent to Lobby
- Easy to locate and identify
- Maximize view to Lobby and entry

The attendance area will have a lockable window to the corridor with a counter.

**GOAL:**

- To provide a welcoming atmosphere and to serve as an information area for those coming into the school

**PROGRAM ACTIVITIES:**

Greeting people and directing them to the proper location or person  
Waiting area for visitors and staff members

**SPACE REQUIREMENTS**

Construction:	
Min Ceiling Height:	10'-0"
Acoustics:	AC4 - Medium Performance: Open Office and Workroom Office
Window shading:	S1 - Roller Shades, 5% Open
Power & Lighting	
User Convenience (excludes outlets for AV, security, etc.):	Duplex on perimeter walls at twelve feet (12'), power to electrified workstations
Lighting level	L2 - 35 FC at work surfaces
Telecommunications	
Outlet (excludes outlets for AV, security, etc.):	Standard data drop on perimeter walls at max 12' on center, data to electrified workstations
Wireless Requirements:	TW2 - 2 wireless devices per occupant (based on maximum occupancy)

**ADDITIONAL REQUIREMENTS****Lobby & Reception:**

The lobby and reception areas shall be inviting, well lit and comfortably furnished.

Entry doors shall include a large vestibule for weather protection, with adequate capacity to handle large traffic volumes

Lobby and reception areas shall have built-in or moveable display areas, with the ability to provide focus lighting on specific objects

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**Administrative Space**

Reception shall open directly from the lobby and shall include seating areas for waiting  
Reception area shall have 18' reception/transaction counter, and back-counter with base and wall cabinets. Counter shall be bi-level for ADA access.

**Security Layering**

Lobby and reception provide the first interior layer of security against intruders. All doors leading from lobby ad reception shall be lockable with electronic ACAMS controls.

**BUILT-IN FIXTURES:**

18' minimum reception counter (two level for handicapped access) with adjustable shelf storage on the inside

Counter and base cabinets along back wall; space for master intercom console

Tack board (8 LF)

**LOOSE FURNISHINGS:**

Desk/Workstations for 2 staff

2 ergonomic chairs

2 under the desk file cabinets

6-8 Visitor chairs

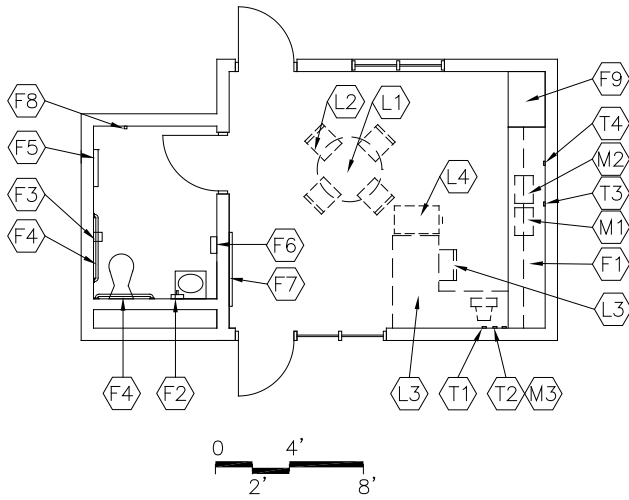
2 End tables

Display rack

**AUDIO VISUAL EQUIPMENT**

See Educational Technology Requirements

### PRINCIPAL'S OFFICE



#### QUANTITY:

1

#### CAPACITY:

Up to 5 people

#### SIZE:

230 SF (includes 50 SF private toilet)

#### SPATIAL RELATIONSHIPS:

Adjacent to Administrative Assistant's Office  
Near Conference Room

#### GOAL:

To serve as the home base for the principal from which he/she can provide instructional leadership in a personal, flexible, and organized environment for students, staff, and community

#### PROGRAM ACTIVITIES:

Administrative paperwork  
Computer input  
Conferences with staff and other visitors  
Interaction with students  
Planning  
Telephone calls

#### SPACE REQUIREMENTS

Construction:	
Min Ceiling Height:	9'-0"
Acoustics:	AC3 - Medium Performance: Closed Office
Window shading:	S1 - Roller Shades, 5% Open
Plumbing:	

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**Administrative Space**

Fixture Type:	Lavatory and Water Closet
Piped services:	Hot and Cold Water
Special drains:	None
<b>Power &amp; Lighting</b>	
User Convenience (excludes outlets for AV, security, etc.):	2 duplex per wall on three of four walls in the office, single GFI/Shaver outlet in restroom
Lighting level	L2 - 35 FC at work surfaces
<b>Telecommunications</b>	
Outlet (excludes outlets for AV, security, etc.):	One standard data drop on two walls
Wireless Requirements:	TW2 - 2 wireless devices per occupant (based on maximum occupancy)
<b>SPECIALTIES</b>	
Special features:	None
<b>ADDITIONAL REQUIREMENTS</b>	
The office must be directly connected to a single-user restroom (Restroom: Gender Inclusive). Assignable Area includes both office space (180 ASF) and restroom space (50 ASF)	

**ADDITIONAL REQUIREMENTS**

None

**BUILT-IN FIXTURES:**

- F1 Casework: Base/wall cabinets and shelving
- F2 Soap dispenser
- F3 Toilet tissue holder
- F4 36" and 42" grab bars
- F5 24" x 60" mirror
- F6 Towel dispenser
- F7 Tack board (4 LF)
- F8 Coat hook

**LOOSE FURNISHINGS:**

- L1 Conference table
- L2 4 side chairs
- L3 Desk and chair
- L4 Four-drawer locking file cabinet

Miscellaneous Equipment (provided by owner):

- M1/2 Fax/Printer
- M3 Computer

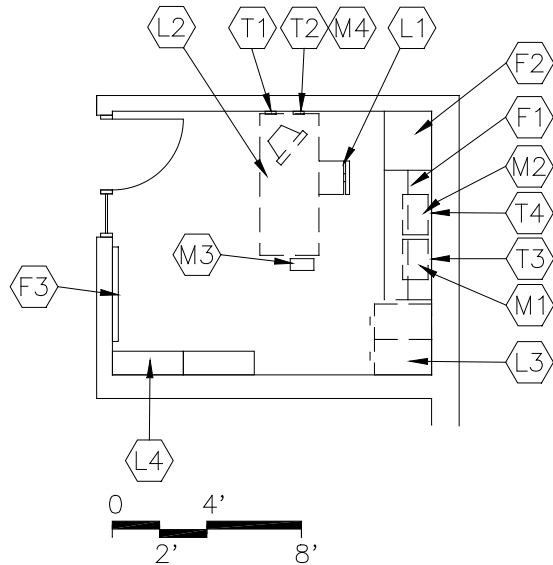
**AUDIO VISUAL EQUIPMENT**

See Educational Technology Requirements





## ADMINISTRATIVE ASSISTANT'S OFFICE



### QUANTITY:

1

### CAPACITY:

Up to 2 people

### SIZE:

120 SF

### SPATIAL RELATIONSHIPS:

Adjacent and access to Waiting Area/Reception  
 Visual access to Waiting Area/Reception  
 Adjacent to Principal's Office

### GOAL:

To serve as an area from which the secretary can effectively provide administrative support

### PROGRAM ACTIVITIES:

Answering telephone  
 Data input and retrieval  
 Duties of confidential secretary  
 Financial accounting and bookkeeper functions  
 General office work

**SPACE REQUIREMENTS**

Construction:	
Min Ceiling Height:	9'-0"
Acoustics:	AC3 - Medium Performance: Closed Office
Window shading:	S1 - Roller Shades, 5% Open
Power & Lighting	
User Convenience (excludes outlets for AV, security, etc.):	2 duplex outlets per wall on two side walls
Lighting level	L2 - 35 FC at work surfaces
Telecommunications	
Outlet (excludes outlets for AV, security, etc.):	One standard data drop on two side walls
Wireless Requirements:	TW2 - 2 wireless devices per occupant (based on maximum occupancy)

**ADDITIONAL REQUIREMENTS****BUILT-IN FIXTURES:**

- F1 Casework:
  - Base cabinets and shelving
- F3 Tack board (4 LF)
- F2 Casework: Wardrobe

**LOOSE FURNISHINGS:**

- L2 Desk
- L1 Ergonomic chair
- L3 4-drawer locking file cabinet
- L4 Bookcases

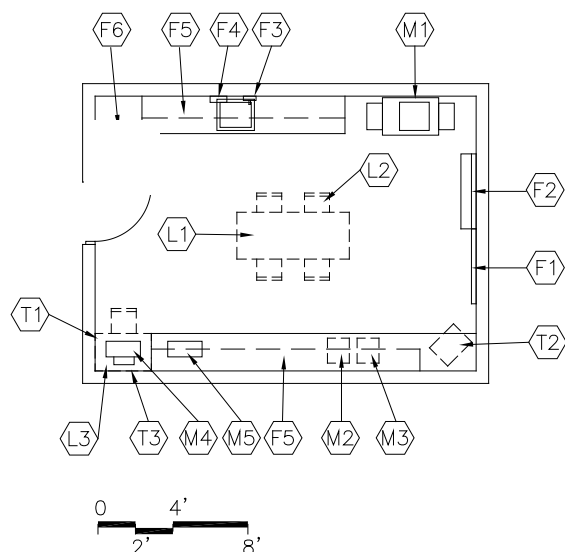
Miscellaneous Equipment (provided by owner):

- M2 Printer
- M4 Computer
- M1 FAX

**AUDIO VISUAL EQUIPMENT**

See Educational Technology Requirements

### ADMINISTRATIVE WORKROOM



#### QUANTITY:

1

#### CAPACITY:

Up to 4 people

#### SIZE:

200 SF

#### ANCILLARY SPACES:

Supply/ Storage Room

Toilet (Adult)

#### SPATIAL RELATIONSHIPS:

Near Reception/ Waiting Area

#### GOAL:

To provide an area for office projects to be completed

#### PROGRAM ACTIVITIES:

Binding reports

Collating

Copying

Laminating

Preparing communications for mailing

Sorting of files

Telephone communications

**SPACE REQUIREMENTS**

Construction:	
Min Ceiling Height:	9'-0"
Acoustics:	AC4 - Medium Performance: Open Office and Workroom Office
Window shading:	S1 - Roller Shades, 5% Open
Plumbing:	
Fixture Type:	Kitchen sink
Piped services:	Hot and Cold Waer
Special drains:	None
Power & Lighting	
User Convenience (excludes outlets for AV, security, etc.):	Duplex on perimeter walls at twelve feet (12'), 2 recessed floor quad
Lighting level	L2 - 35 FC at work surfaces
Telecommunications	
Outlet (excludes outlets for AV, security, etc.):	Standard data drops on perimeter walls at max 12' on center
Wireless Requirements:	TW2 - 2 wireless devices per occupant (based on maximum occupancy)

**ADDITIONAL REQUIREMENTS**

None

**BUILT-IN FIXTURES:**

- F1 Tack board (4 LF)
- F2 Marker board (4 LF)
- F3 Sink w/soap dispenser
- F4 Towel dispenser
- F5 Casework: Base cabinets and shelving

**LOOSE FURNISHINGS:**

- L1 Work table
- L2 4 chairs
- L3 Computer workstation with ergonomic task chair

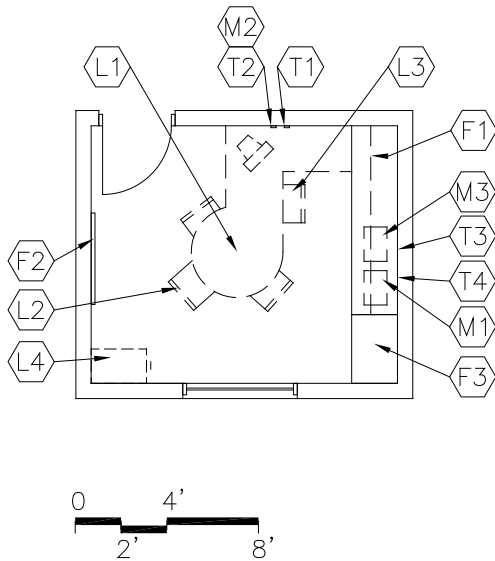
Miscellaneous Equipment (provided by owner):

- M1 Copier
- M2 Paper cutter
- M3 Laminating machine
- M4 Computer
- M5 Printer

**AUDIO VISUAL EQUIPMENT**

See Educational Technology Requirements

## BUSINESS MANAGER'S OFFICE



### QUANTITY:

1

### CAPACITY:

Up to 4 people

### SIZE:

150 SF

### SPATIAL RELATIONSHIPS:

Adjacent to Administrative Assistant's Office  
Near Main Office

### GOAL:

To serve as the home base for administrators from which he/she can provide leadership in a personal, flexible, and organized environment for students, staff, and community

### PROGRAM ACTIVITIES:

Administrative paperwork  
Computer input  
Meetings with parents, students, and staff  
Planning  
Student counseling  
Telephone calls

**SPACE REQUIREMENTS**

Construction:	
Min Ceiling Height:	9'-0"
Acoustics:	AC3 - Medium Performance: Closed Office
Window shading:	S1 - Roller Shades, 5% Open
Power & Lighting	
User Convenience (excludes outlets for AV, security, etc.):	2 duplex outlets per wall on two side walls
Lighting level	L2 - 35 FC at work surfaces
Telecommunications	
Outlet (excludes outlets for AV, security, etc.):	One standard data drop on two side walls
Wireless Requirements:	TW2 - 2 wireless devices per occupant (based on maximum occupancy)

**ADDITIONAL REQUIREMENTS**

None

**BUILT-IN FIXTURES:**

- F1 Casework: Base cabinets and shelving
- F2 Tack board (4 LF)
- F3 Casework: Wardrobe

**LOOSE FURNISHINGS:**

- L1 Desk
- L2 Side chairs
- L3 Ergonomic Chair
- L4 4-drawer locking file cabinet

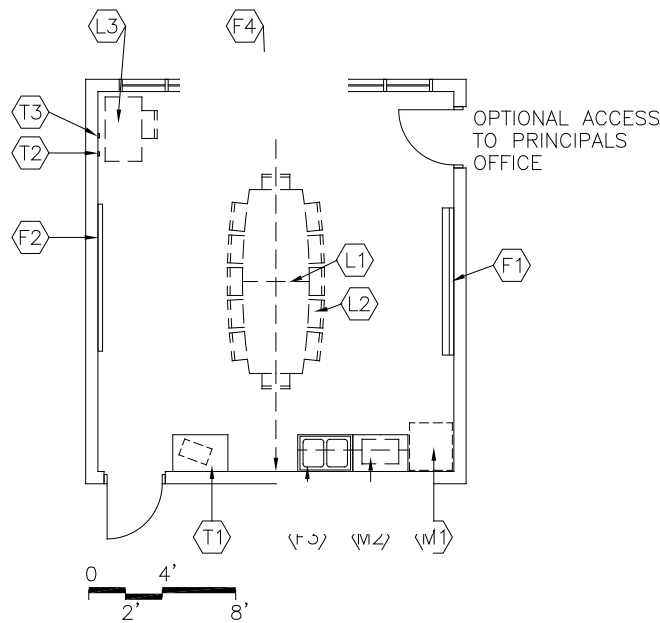
Miscellaneous Equipment (provided by owner):

- M1 Printer
- M2 Computer
- M3 Fax (optional)

**AUDIO VISUAL EQUIPMENT**

See Educational Technology Requirements

CONFERENCE ROOM



QUANTITY:

1

CAPACITY:

Up to 20 people

SIZE:

300 SF

SPATIAL RELATIONSHIPS:

In administrative suite

GOAL:

To provide an area adequate for small and medium group conferences

PROGRAM ACTIVITY:

Meetings/conferences  
Staff collaboration

SPACE REQUIREMENTS

Construction:	
Min Ceiling Height:	9'-0"
Acoustics:	AC2 - High Performance: Conference Room or Confidential Space
Window shading:	S2 - Roller Shades, 5% Open and Motorized Blackout Shades
Power & Lighting	
User Convenience (excludes outlets for AV, security, etc.):	Duplex on perimeter walls at twelve feet (12'), Three (3) recessed floor quad boxes



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**Administrative Space**

Lighting level	L3 - 35 FC at work surfaces and walls
Telecommunications	
Outlet (excludes outlets for AV, security, etc.):	1 standard data drop on two walls and 1 recessed floor box with standard (2) data outlets
Wireless Requirements:	TW2 - 2 wireless devices per occupant (based on maximum occupancy)
SPECIALTIES	
Special features:	None
ADDITIONAL REQUIREMENTS	
Conference Room Technology – All administrative conference rooms will have two on-table computer connections to a video display screen and be internet capable. Two lighting/multi-media control panel shall be table mounted and one wall mounted.	

**ADDITIONAL REQUIREMENTS**

None

**BUILT-IN FIXTURES:**

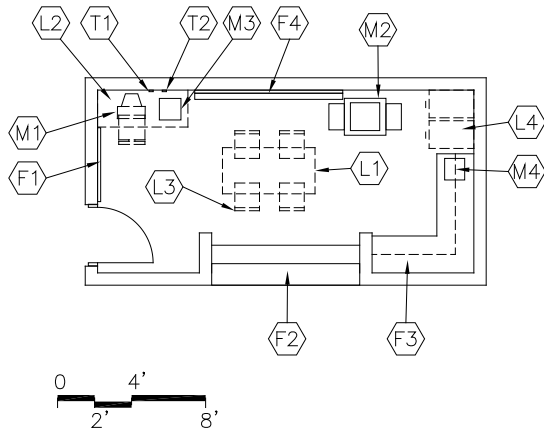
- F1 Marker board (8 LF)
- F2 Tack board (8 LF)

**LOOSE FURNISHINGS:**

- L1 Conference table
- L2 Chairs
- L3 Computer workstation furniture

**AUDIO VISUAL EQUIPMENT**

See Educational Technology Requirements

**MAILROOM****QUANTITY:**

1

**SIZE:**

150 SF

**SPATIAL RELATIONSHIP:**

Located within/adjacent to the administrative suite

**GOAL:**

To provide adequate space and equipment for office work projects and an area to disseminate incoming mail to staff members

**PROGRAM ACTIVITIES:**

Collating materials  
 Copying  
 Delivery of general mail  
 General office work  
 Storing of pertinent files

**SPACE REQUIREMENTS**

Construction:	
Min Ceiling Height:	9'-0"
Acoustics:	AC4 - Medium Performance: Open Office and Workroom Office
Power & Lighting	
User Convenience (excludes outlets for AV, security, etc.):	Duplex at counters at max 4' on center, on walls at twelve feet (12')
Lighting level	L2 - 35 FC at work surfaces
Telecommunications	
Outlet (excludes outlets for AV, security, etc.):	One standard data drop per wall: locate data drops to avoid built in cabinetry

---

**Administrative Space**

Wireless Requirements:	TW1 - 1 wireless device per occupant (based on maximum occupancy)
<b>SPECIALTIES</b>	
Special features:	Built in base cabinet and work counter, 30" deep, 16' min Pass through mail slots sized to accommodate a minimum of 110% of staff

**ADDITIONAL REQUIREMENTS**

None

**BUILT-IN FIXTURES:**

- F1 Tack board (4 LF)
- F2 Casework: 2sided mail slots for 110% of staff with base cabinets below
- F3 Casework: Base/wall cabinets
- F4 Marker board (8 LF)

**LOOSE FURNISHINGS:**

- L1 Work table
- L2 Computer workstation with ergonomic task chair
- L3 2-4 Chairs
- L4 2, 4-drawer file cabinets

Miscellaneous Equipment (provided by owner):

- M1 Computer (optional)
- M2/3 Printer/copier (optional)
- M4 FAX (optional)

**AUDIO VISUAL EQUIPMENT**

None

**SECURITY CENTER/ OFFICE SUITE****QUANTITY:**

1

**CAPACITY:**

Up to 4 person

**SIZE:**

200 SF

**SPATIAL RELATIONSHIPS:**

Near entrance to main Corridor

Near student entrance if different

Suite needs three activity areas

Work/meeting space for team

Breakout/quiet area (100 SF)

Camera monitor area w/ privacy screen

**GOAL:**

To serve as an area from which the school resource officers can perform their administrative and law enforcement functions

**PROGRAM ACTIVITIES:**

Complete reports

Meet with parents, staff, and other law enforcement officials

Monitor surveillance equipment

Perform counseling

**SPACE REQUIREMENTS**

Construction:	
Min Ceiling Height:	9'-0"
Acoustics:	AC3 - Medium Performance: Closed Office
Window shading:	S1 - Roller Shades, 5% Open
Power & Lighting	
User Convenience (excludes outlets for AV, security, etc.):	2 duplex per wall on three of four walls
Lighting level	L2 - 35 FC at work surfaces
Telecommunications	
Outlet (excludes outlets for AV, security, etc.):	One standard data drop on two side walls
Wireless Requirements:	TW2 - 2 wireless devices per occupant (based on maximum occupancy)

**ADDITIONAL REQUIREMENTS**

None

**BUILT-IN FIXTURES:**

**LOOSE FURNISHINGS:**

Work tables

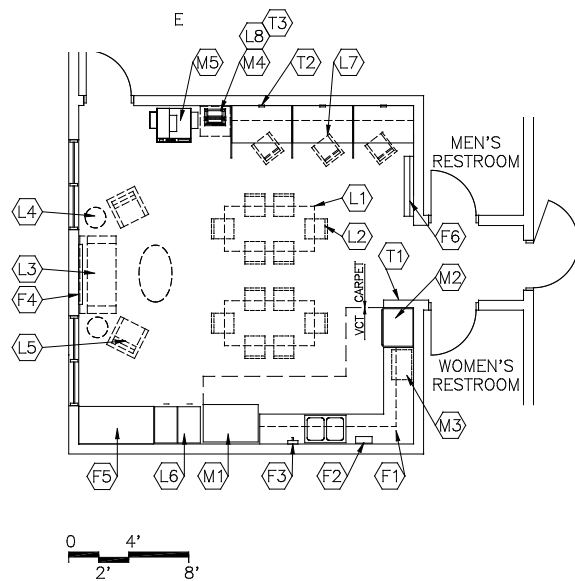
2-4 chairs

Desks/workstation and chair

**AUDIO VISUAL EQUIPMENT**

See Educational Technology Requirements

## STAFF BREAK ROOM



### QUANTITY:

1 room

### CAPACITY:

6-36 teachers

### SIZE:

800 SF (including bathrooms)

### ANCILLARY SPACES:

Men's and Women's Restrooms

### SPATIAL RELATIONSHIPS:

Access from Corridor  
Near Dining  
Restrooms within or near

### GOAL:

To provide an area for staff to relax and prepare for classes.

### PROGRAM ACTIVITIES:

Eating  
Interacting with peers  
Prepare lessons using computer, video, and other resources.  
Relaxing  
Using the telephone

**SPACE REQUIREMENTS**

Construction:	
Min Ceiling Height:	8'-0"
Acoustics:	AC7 - Public Space
Window shading:	S1 - Roller Shades, 5% Open
Plumbing:	
Fixture Type:	Double kitchen sink
Piped services:	HW, CW
Special drains:	Sink drain
Power & Lighting	
User Convenience (excludes outlets for AV, security, etc.):	Duplex on perimeter walls at twelve feet (12'), 2' on center at counter; dedicated circuits for appliances
Power density:	PW3 - 5W/ASF
Lighting level	L2 - 35 FC at work surfaces
Lighting control	LC8 - Public Space
Telecommunications	
Outlet (excludes outlets for AV, security, etc.):	Standard data drops on perimeter walls at max 12' on center
Wireless Requirements:	TW2 - 2 wireless devices per occupant (based on maximum occupancy)

**ADDITIONAL REQUIREMENTS**

Adequate ventilation/exhaust

Auditory Privacy:

Wall minimum: STC 45

Ceiling minimum: CAC 35

Consider future technology needs, build-in flexibility to retain options

Uniform lighting with multi-level switching

Windows to provide natural light and egress

**BUILT-IN FIXTURES:**

- F1 Casework: Base/wall cabinets
- F2 Towel dispenser
- F3 Soap dispenser
- F4 Tack board (4 LF)
- F5 Casework: Wardrobe for floating teachers
- F6 Marker board (4 LF)

**LOOSE FURNISHINGS:**

- L1 2 Rectangular tables
- L2 12 Chairs
- L3 Sofa
- L4 End tables
- L5 Lounge chairs
- L6 2-3, 2-drawer locking file cabinet for floating teachers
- L7 2-3 Workstations for floating teachers with ergonomic task chairs

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**Administrative Space**

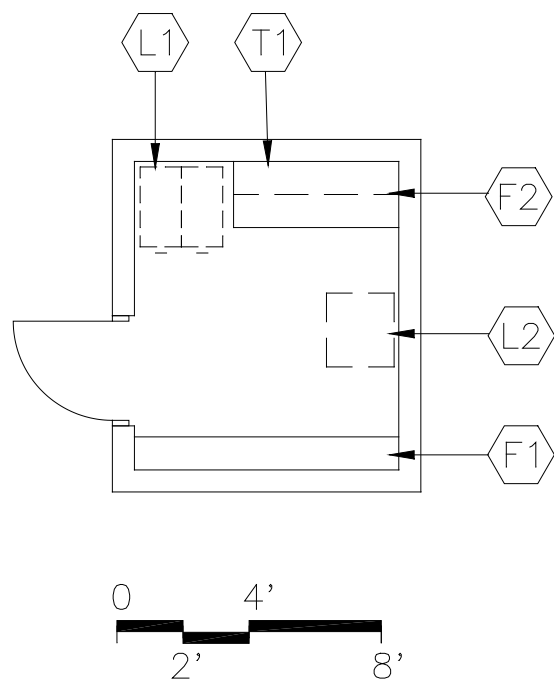
- L8 Printer table
- M1 Vending machine
- M2 Refrigerator
- M3 Microwave

**AUDIO VISUAL EQUIPMENT**

See Educational Technology Requirements



SUPPLY (General)/ ADMINISTRATIVE STORAGE



QUANTITY:

1

SIZE:

250 SF

SPATIAL RELATIONSHIPS:

Adjacent and access to Administrative Workroom

GOAL:

To provide adequate and secure storage for office supplies

PROGRAM ACTIVITY:

Storing of office supplies, forms, and files

SPACE REQUIREMENTS

Construction:	
Min Ceiling Height:	9'-0"
Acoustics:	AC8 - Utility Space
Window shading:	None
Power & Lighting	
User Convenience (excludes outlets for AV, security, etc.):	Duplex on perimeter walls, min one per wall
Lighting level	L6 - 40 FC ambient, 70 FC at any service points or equipment

**Administrative Space**

Telecommunications	
Outlet (excludes outlets for AV, security, etc.):	None
Wireless Requirements:	TW1 - 1 wireless device per occupant (based on maximum occupancy)

**ADDITIONAL REQUIREMENTS**

None

**BUILT-IN FIXTURES:**

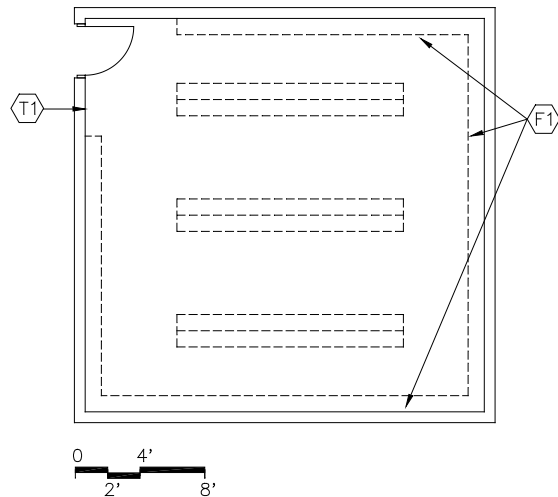
- F1 Shelving
- F2 Lockable cabinets

**LOOSE FURNISHINGS:**

- L1 2, 4-drawer file cabinet
- L2 Small safe

**AUDIO VISUAL EQUIPMENT**

None

**TEXT BOOK ROOM****QUANTITY:**

1

**SIZE:**

800 SF (2,000 LF of shelving)

**SPATIAL RELATIONSHIPS:**

Near Administration

**GOAL:**

To provide secure storage for teaching materials

**PROGRAM ACTIVITY:**

Storage of textbooks and teaching supplies and forms  
Inventory

**SPACE REQUIREMENTS**

Construction:	
Min Ceiling Height:	9'-0"
Acoustics:	AC8 - Utility Space
Window shading:	None
Power & Lighting	
User Convenience (excludes outlets for AV, security, etc.):	Duplex on perimeter walls, min one per wall
Power density:	PW1 - 1W/ASF
Lighting level	L6 - 40 FC ambient, 70 FC at any service points or equipment
Lighting control	LC6 - Workrooms / Utility
Telecommunications	
Outlet (excludes outlets for AV, security, etc.):	None

**Administrative Space**

Wireless Requirements:	TW1 - 1 wireless device per occupant (based on maximum occupancy)
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**ADDITIONAL REQUIREMENTS**

None

**BUILT-IN FIXTURES:**

F1 Adjustable shelving (2,000 LF)  
Mobile shelving on casters

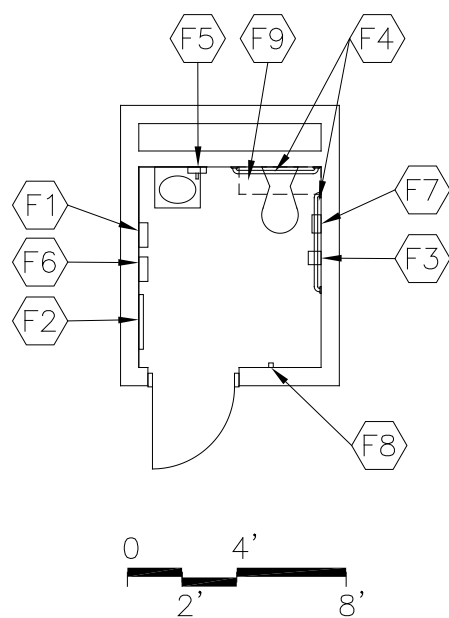
**LOOSE FURNISHINGS:**

None

**AUDIO VISUAL EQUIPMENT**

None

TOILET (Adult)



QUANTITY:

1

CAPACITY:

Up to 1 person

SIZE:

50 SF

SPATIAL RELATIONSHIPS:

Adjacent to Administrative Workroom

SPACE REQUIREMENTS

Construction:	
Min Ceiling Height:	8'-0"
Acoustics:	AC7 - Public Space
Window shading:	None
Plumbing:	
Fixture Type:	Toilet, lavatory w/sensor control faucet
Piped services:	HW, CW
Special drains:	Drain connection to fixtures
Power & Lighting	
User Convenience (excludes outlets for AV, security, etc.):	GFI Duplex at lavatory, one per room
Lighting level	L7 - 25 FC ambient
Telecommunications	

**Administrative Space**

Outlet (excludes outlets for AV, security, etc.):	None
Wireless Requirements:	TW1 - 1 wireless device per occupant (based on maximum occupancy)

**ADDITIONAL REQUIREMENTS**

None

**BUILT-IN FIXTURES:**

- F1 Towel dispenser
- F2 24" x 60" mirror
- F3 Toilet tissue holder
- F4 36" and 42" grab bars
- F5 Soap dispenser
- F6 Sanitary dispenser
- F7 Sanitary disposal
- F8 Coat hook
- F9 Casework: Wall cabinet

**LOOSE FURNISHINGS:**

None

**AUDIO VISUAL EQUIPMENT**

None

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**Guidance/ Student Services Space**

**RECEPTION AND WELCOME CENTER****QUANTITY:**

1

**CAPACITY:**

Parents  
Staff  
Students  
Visitors

**SIZE:**

300 SF

**SPATIAL RELATIONSHIPS:**

Locate near entrance  
Glass into the corridor for security and visibility

**GOAL:**

To provide a space designated to help students and the public feel welcome and to provide information  
Waiting area for counselor services

**PROGRAM ACTIVITIES:**

Administrative activities  
Greeting visitors  
Waiting area for students

**SPACE REQUIREMENTS**

Construction:	
Min Ceiling Height:	10'-0"
Acoustics:	AC3 - Office
Window shading:	S1 - Roller Shades, 5% Open
Power & Lighting	
User Convenience (excludes outlets for AV, security, etc.):	Duplex on perimeter walls at twelve feet (12'), power to electrified workstations
Lighting level	L2 - 35 FC at work surfaces
Telecommunications	
Outlet (excludes outlets for AV, security, etc.):	Standard data drop on perimeter walls at max 12' on center, data to electrified workstations
Wireless Requirements:	TW2 - 2 wireless devices per occupant (based on maximum occupancy)

**ADDITIONAL REQUIREMENTS**

None

**BUILT-IN FIXTURES:**



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**Guidance/ Student Services Space**

Tack board (4 LF)  
Reception counter (optional)

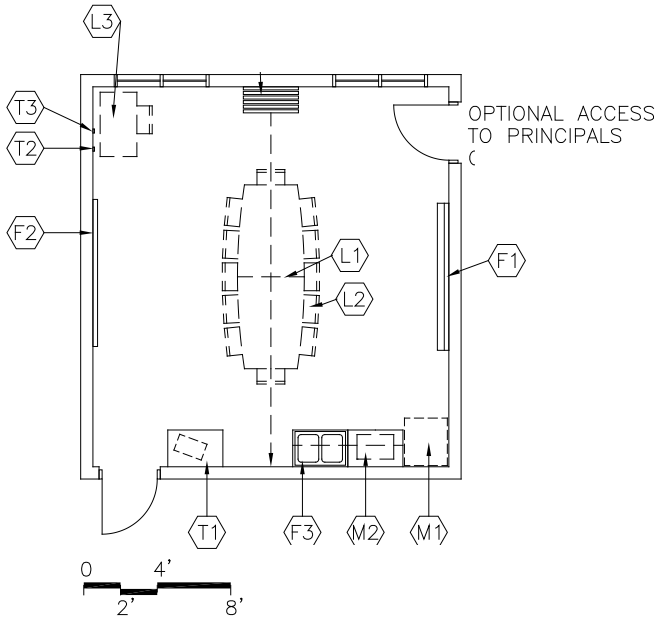
**LOOSE FURNISHINGS:**

4 visitor chairs  
Desk  
End table  
Ergonomic task chair  
Information kiosk/display

**AUDIO VISUAL EQUIPMENT**

See Educational Technology Requirements

### CONFERENCE/ TESTING ROOMS



**QUANTITY:**

1

**CAPACITY:**

Up to 16 people

**SIZE:**

250 SF

**SPATIAL RELATIONSHIPS:**

In student services/ guidance suite

**GOAL:**

- To provide an area adequate for small and medium group conferences
- To provide an area for testing

**PROGRAM ACTIVITY:**

- Meetings/conferences
- Staff collaboration

**SPACE REQUIREMENTS**

Construction:	
Min Ceiling Height:	9'-0"
Acoustics:	AC2 - High Performance: Conference Room or Confidential Space
Window shading:	S1A -Blinds/Shades and Manually Operated Blackout Shades
Power & Lighting	
User Convenience (excludes outlets for AV, security, etc.):	Duplex on perimeter walls at twelve feet (12'), 2 recessed floor quad

**Guidance/ Student Services Space**

Lighting level	L3 - 35 FC at work surfaces and walls
Telecommunications	
Outlet (excludes outlets for AV, security, etc.):	1 standard data drop on two walls and 1 recessed floor box with standard (2) data outlets
Wireless Requirements:	TW2 - 2 wireless devices per occupant (based on maximum occupancy)
SPECIALTIES	
Special features:	None
ADDITIONAL REQUIREMENTS	
Conference Room Technology –Conference rooms will have one on-table computer connections to a video display screen and be internet capable. One lighting/multi-media control panel shall be table mounted and one wall mounted.	

**ADDITIONAL REQUIREMENTS****BUILT-IN FIXTURES:**

- F1 Marker board (8 LF)
- F2 Tack board (8 LF)

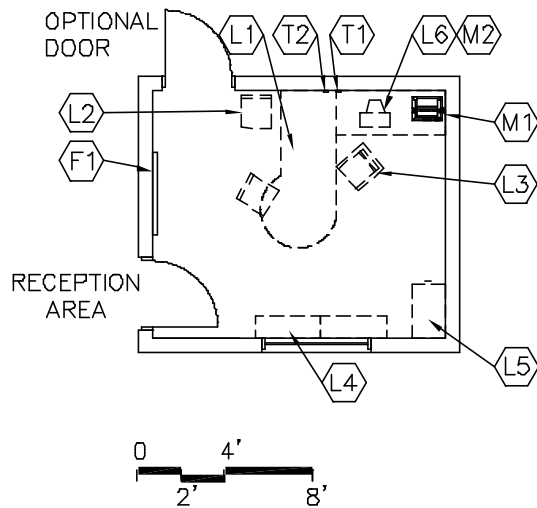
**LOOSE FURNISHINGS:**

- L1 Conference table
- L2 16 Chairs
- L3 Computer workstation with ergonomic task chair

**AUDIO VISUAL EQUIPMENT**

See Educational Technology Requirements

## GUIDANCE OFFICES



### QUANTITY:

6

### CAPACITY:

1 Staff person  
Up to 3 people

### SIZE:

120 SF

### GOAL:

To provide an office for counselors and the registrar to perform administrative functions and meet with parents and students

### PROGRAM ACTIVITIES:

Conferencing with parents, students, and staff  
Coordination of school and support services  
Telephone communications (private)

### SPACE REQUIREMENTS

Construction:	
Min Ceiling Height:	9'-0"
Acoustics:	AC3 - Medium Performance: Closed Office
Window shading:	S1 - Roller Shades, 5% Open
Power & Lighting	
User Convenience (excludes outlets for AV, security, etc.):	2 duplex outlets per wall on two side walls
Lighting level	L2 - 35 FC at work surfaces
Telecommunications	

Outlet (excludes outlets for AV, security, etc.):	One standard data drop on two side walls
Wireless Requirements:	TW2 - 2 wireless devices per occupant (based on maximum occupancy)

**ADDITIONAL REQUIREMENTS****BUILT-IN FIXTURES:**

- F1 Tack board (4 LF)

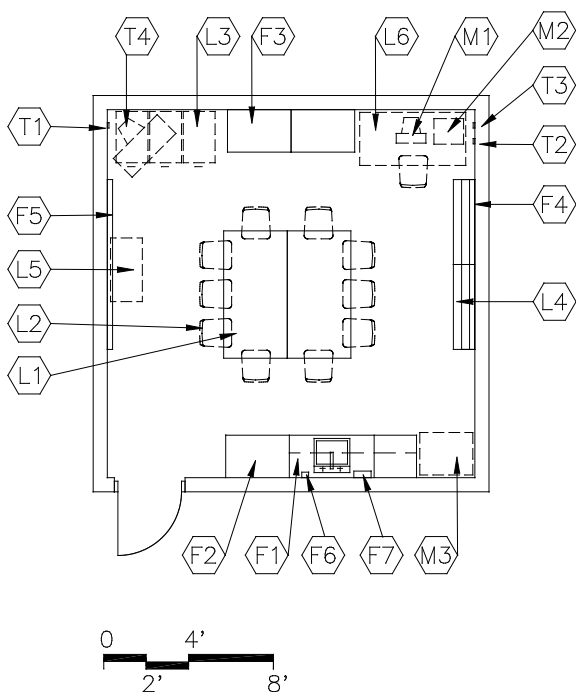
**LOOSE FURNISHINGS:**

- L1 Desk with conference table
- L2 2 guest chairs
- L3 Ergonomic task chair
- L4 Adjustable height bookshelves (12 LF)
- L5 1, 4-drawer locking file cabinet
- L6 Computer workstation

**AUDIO VISUAL EQUIPMENT**

See Educational Technology Requirements

## PARENT RESOURCE CENTER



### QUANTITY:

1

### CAPACITY:

Up to 12 People  
Parents  
PTO/PTA members  
Volunteers

### SIZE:

300 SF

### SPATIAL RELATIONSHIPS:

Near Reception/ Welcome Center  
Near Main Lobby Entrance  
Near Public Restrooms

### GOALS:

To provide a place for parents to meet and work when they volunteer at school  
To provide a place for parents to store their personal belongings  
To provide a place for the PTSA to store their materials  
To provide space for parents to check-out and use parenting sources

**PROGRAM ACTIVITIES:**

Parent training  
 Small group meetings  
 Storage for personal items  
 Storage of fundraising materials (PTO/PTA)  
 Work area

**SPACE REQUIREMENTS**

Construction:	
Min Ceiling Height:	9'-0"
Acoustics:	AC4 - Medium Performance: Open Office and Workroom Office
Window shading:	S1 - Roller Shades, 5% Open
Plumbing:	
Fixture Type:	Kitchen sink
Power & Lighting	
User Convenience (excludes outlets for AV, security, etc.):	Duplex on perimeter walls twelve feet (12'), 2 recessed floor quad
Lighting level	L2 - 35 FC at work surfaces
Telecommunications	
Outlet (excludes outlets for AV, security, etc.):	Standard data drops on perimeter walls at max 12' on center
Wireless Requirements:	TW2 - 2 wireless devices per occupant (based on maximum occupancy)

**ADDITIONAL REQUIREMENTS**

None

**BUILT-IN FIXTURES:**

F1 Casework: Base/wall cabinets  
 F2 Casework: Wardrobe cabinet  
 F3 Casework: Storage cabinets  
 F4 Marker board (8 LF)  
 F5 Tack board (8 LF)  
 F6 Soap dispenser  
 F7 Towel dispenser

**LOOSE FURNISHINGS:**

L1 2 tables (36" x 72")  
 L2 10 chairs  
 L3 4-drawer file cabinet  
 L4 Adjustable height bookshelves (20 LF)  
 L6 Computer workstation

Miscellaneous Equipment (provided by owner):

M1 Computer  
 M2 Printer

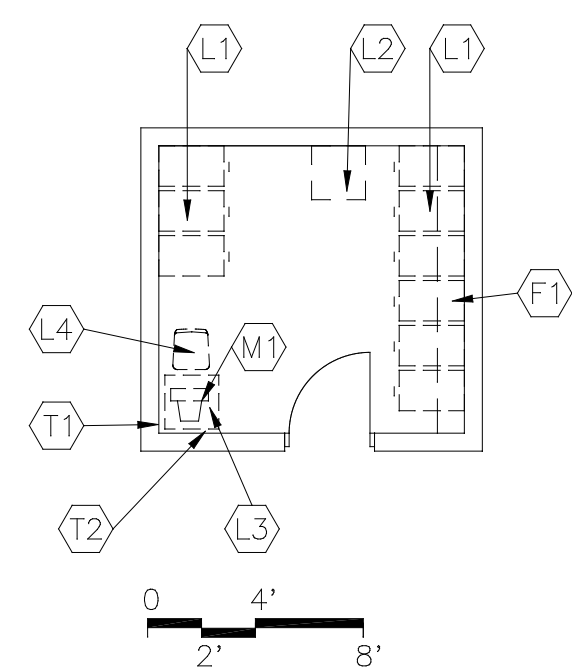
M3 Refrigerator with ice maker

**AUDIO VISUAL EQUIPMENT**

See Educational Technology Requirements



RECORDS STORAGE ROOM



QUANTITY:

1

CAPACITY:

Staff Up to 1

SIZE:

150 SF

SPATIAL RELATIONSHIPS:

Near Business Manager’s Office

GOAL:

To provide secure, fireproof, and adequate storage for money, records, and other valuable items

PROGRAM ACTIVITIES:

- Accessible to administration staff
- Storage of files and records
- Storing of money and other valuable items

SPACE REQUIREMENTS

Construction:	
Min Ceiling Height:	9'-0"
Acoustics:	AC8 - Utility Space
Window shading:	None

Power & Lighting	
User Convenience (excludes outlets for AV, security, etc.):	Duplex on perimeter walls, min one per wall
Lighting level	L6 - 40 FC ambient, 70 FC at any service points or equipment
Telecommunications	
Outlet (excludes outlets for AV, security, etc.):	None
Wireless Requirements:	TW1 - 1 wireless device per occupant (based on maximum occupancy)

**ADDITIONAL REQUIREMENTS****BUILT-IN FIXTURES:**

F1 Casework: Wall shelving

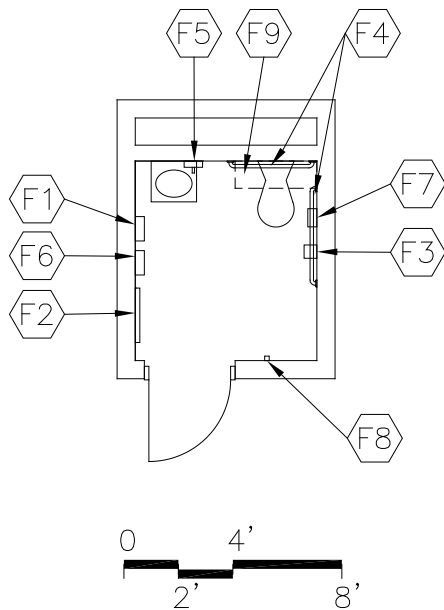
**LOOSE FURNISHINGS:**

- L1 8-10, 4-drawer file cabinets (fireproof)
- L2 Small safe
- L3 Small table
- L4 Chair

**AUDIO VISUAL EQUIPMENT**

None

## TOILET (Adult)



### QUANTITY:

- 2

### CAPACITY:

- Up to 1 person

### SIZE:

- 50 SF

### SPATIAL RELATIONSHIPS:

- Located within Health Suite adjacent to the Cot Area

### PROGRAM ACTIVITY:

- Changing clothing
- Personal and health needs for the health suite

### SPACE REQUIREMENTS

Construction:	
Min Ceiling Height:	8'-0"
Acoustics:	AC7 - Public Space
Window shading:	None
Plumbing:	
Fixture Type:	Toilet, lavatory w/sensor control faucet
Power & Lighting	
User Convenience (excludes outlets for AV, security, etc.):	GFI Duplex at lavatory, one per room

**Guidance/ Student Services Space**

Lighting level	L7 - 25 FC ambient
Telecommunications	
Outlet (excludes outlets for AV, security, etc.):	None
Wireless Requirements:	TW1 - 1 wireless device per occupant (based on maximum occupancy)

**ADDITIONAL REQUIREMENTS**

None

**BUILT-IN FIXTURES:**

- F1 Towel dispenser
- F2 24" x 60" mirror
- F3 Toilet tissue holder
- F4 36" and 42" grab bars
- F5 Soap dispenser
- F6 Sanitary dispenser
- F7 Sanitary disposal
- F8 Coat hook
- F9 Casework: Wall cabinet

**LOOSE FURNISHINGS:**

None

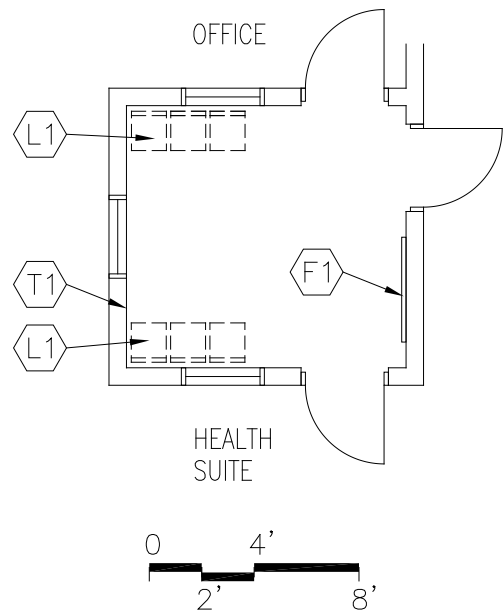
**AUDIO VISUAL EQUIPMENT**

None

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Health Suite Space

RECEPTION/ WAITING AREA



QUANTITY:

1

CAPACITY:

Up to 6 people

SIZE:

200 SF

SPATIAL RELATIONSHIPS:

- First space one enters in Health Suite
- Ground floor
- May include Nurse’s desk and work station (see Office for description of F&E)

GOAL:

To provide an area for students waiting to see the nurse or for parent pick-up

SPACE REQUIREMENTS

Construction:	
Min Ceiling Height:	9'-0"
Acoustics:	AC3 - Medium Performance: Closed Office
Window shading:	S1 - Roller Shades, 5% Open
Power & Lighting	
User Convenience (excludes outlets for AV, security, etc.):	Duplex on perimeter walls at twelve feet (12')
Lighting level	L5 - 25 FC ambient with focus lighting areas
Telecommunications	

**Health Suite Space**

Outlet (excludes outlets for AV, security, etc.):	Standard data drop on perimeter walls at max 12' on center, data to electrified workstations
Wireless Requirements:	TW1 - 1 wireless device per occupant (based on maximum occupancy)
ADDITIONAL REQUIREMENTS	
Waiting room shall provide visual privacy for people waiting	

**ADDITIONAL REQUIREMENTS**

None

**BUILT-IN FIXTURES:**

F1 Tack board  
Brochure rack

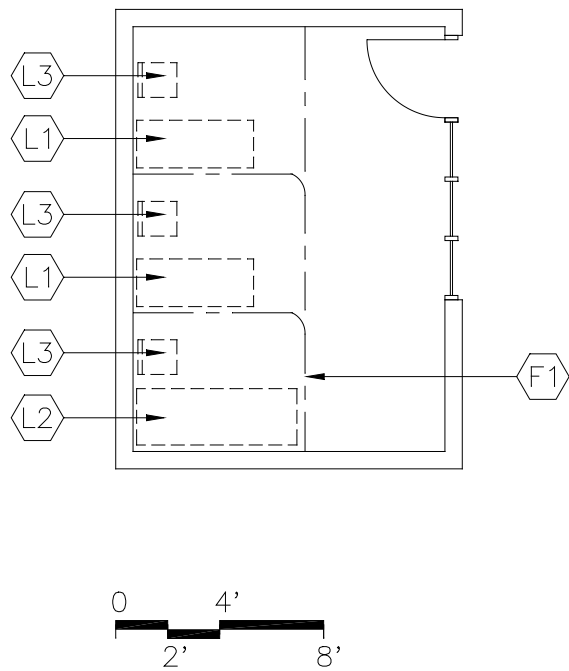
**LOOSE FURNISHINGS:**

L1 4-6 visitor chairs  
2 Side tables w/ lamps

**AUDIO VISUAL EQUIPMENT**

See Educational Technology Requirements

COT ROOMS



QUANTITY:

2

CAPACITY:

1 person per cot

SIZE:

100 SF

ANCILLARY SPACES:

Toilet adjacent to each cot area

SPATIAL RELATIONSHIPS:

Located within Health Suite

GOAL:

To provide a place for students and staff to lie down when feeling ill

PROGRAM ACTIVITIES:

Resting

SPACE REQUIREMENTS

Construction:	
Min Ceiling Height:	9"-0"
Acoustics:	AC3 - Medium Performance: Closed Office



Window shading:	None
<b>Power &amp; Lighting</b>	
User Convenience (excludes outlets for AV, security, etc.):	Duplex on perimeter walls at twelve feet (12'), outlets for computer charting station and vital station height.
Lighting level	L8 - 15 FC ambient
<b>Telecommunications</b>	
Outlet (excludes outlets for AV, security, etc.):	Standard data drop on perimeter walls at max 12' on center
Wireless Requirements:	TW1 - 1 wireless device per occupant (based on maximum occupancy)

**ADDITIONAL REQUIREMENTS**

Adequate ventilation  
 Audio and visual privacy  
 Separate Male and Female Cot areas visible to the Office and Waiting Area  
 Visual access to Waiting Area/Reception or Welcome Center

**BUILT-IN FIXTURES:**

F1 Cubical curtain

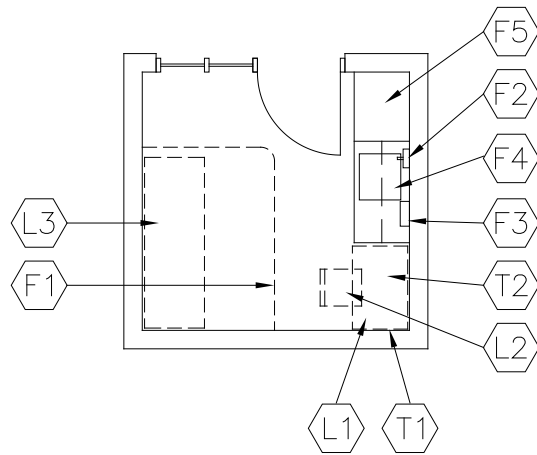
**LOOSE FURNISHINGS:**

L1 2 small cots  
 L2 1 large cot  
 L3 3 chairs

**AUDIO VISUAL EQUIPMENT**

See Educational Technology Requirements

**EXAM ROOM/ TREATMENT AREA**



**QUANTITY:**

1

**CAPACITY:**

Up to 2 people

**SIZE:**

125 SF

**ANCILLARY SPACES:**

Storage Area

**SPATIAL RELATIONSHIPS:**

Located within Health Suite and adjacent to Treatment Area

Near Waiting Area

**GOAL:**

To provide school based health services

**PROGRAM ACTIVITIES:**

- Administrative paperwork
- Consultation with students
- First aid
- Health screening
- Medical treatments
- Medication administration

**SPACE REQUIREMENTS**

Construction:	
Min Ceiling Height:	9'-0"
Acoustics:	AC2 - High Performance: Conference Room or Confidential Space
Window shading:	S1A -Blinds/Shades and Manually Operated Blackout Shades
Plumbing:	
Fixture Type:	Lavatory w/sensor control faucet
Power & Lighting	
User Convenience (excludes outlets for AV, security, etc.):	Duplex on perimeter walls at twelve feet (12'), outlets for computer charting station and vital station height.
Lighting level	L6 - 40 FC ambient, 70 FC at any service points or equipment
Telecommunications	
Outlet (excludes outlets for AV, security, etc.):	Two (2) data drop per wall on two walls.
Wireless Requirements:	TW2 - 2 wireless devices per occupant (based on maximum occupancy)
SPECIALTIES	
Special features:	4' base cabinet; 4' wall mounted cabinet; handwash sink; wall mounted medical computer desk, curtains on windows, Privacy curtains, paper towel holder, soap dispenser

**ADDITIONAL REQUIREMENTS**

Sink with hot and cold water/gooseneck with paddle handles

Visual access to Waiting Area/Reception

Wheelchair area within space

Note: Nurse should have visual control over the cots and reception area even while in the treatment area.

**BUILT-IN FIXTURES:**

F1 Cubical curtain

F2 Soap dispenser

F3 Towel dispenser

F4 Casework: Base/wall cabinets

F5 Casework: Student-access medicine cabinet (see staff for space and design requirements)

**LOOSE FURNISHINGS:**

L1 Desk

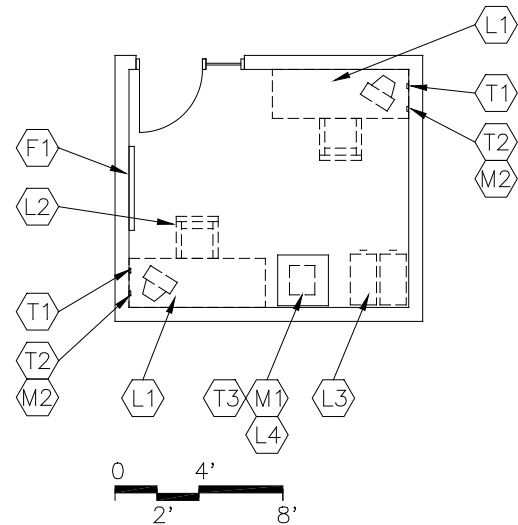
L2 Ergonomic chair

L3 Cot or exam table

**AUDIO VISUAL EQUIPMENT**

See Educational Technology Requirements

OFFICE



QUANTITY:

1

CAPACITY:

Up to 2 people

SIZE:

100 SF

SPATIAL RELATIONSHIPS:

Adjacent and visual into Waiting Area/Reception

GOAL:

To provide an office for the staff to perform clerical functions

PROGRAM ACTIVITIES:

- Computer input
- Conferences with staff and other visitors
- Paperwork
- Planning
- Telephone calls

SPACE REQUIREMENTS

Construction:	
Min Ceiling Height:	9'-0"
Acoustics:	AC3 - Medium Performance: Closed Office
Window shading:	S1 - Roller Shades, 5% Open
Power & Lighting	

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**Health Suite Space**

User Convenience (excludes outlets for AV, security, etc.):	2 duplex per wall on three of four walls
Lighting level	L2 - 35 FC at work surfaces
Telecommunications	
Outlet (excludes outlets for AV, security, etc.):	One standard data drop on two side walls
Wireless Requirements:	TW2 - 2 wireless devices per occupant (based on maximum occupancy)

**ADDITIONAL REQUIREMENTS**

None

**BUILT-IN FIXTURES:**

F1 Tack board

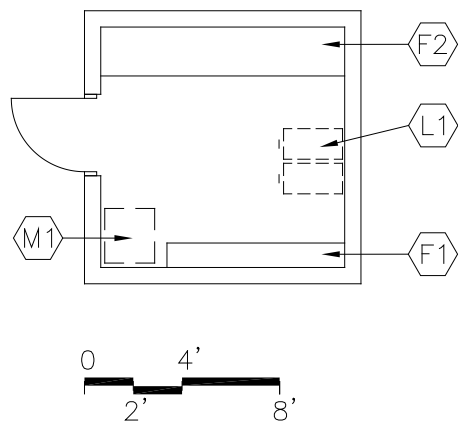
**LOOSE FURNISHINGS:**

- L1 1 desk
- L2 1 ergonomic task chair
- L3 1 4-drawer file cabinet
- L4 Printer table
- Guest chair

**AUDIO VISUAL EQUIPMENT**

See Educational Technology Requirements

STORAGE AREA



QUANTITY:  
1

CAPACITY:  
Up to 1 person

SIZE:  
50 SF

SPATIAL RELATIONSHIPS:  
Adjacent and access to Treatment Area

GOAL:  
To provide storage for medical supplies and equipment

PROGRAM ACTIVITIES:  
Storage

SPACE REQUIREMENTS

Construction:	
Min Ceiling Height:	9'-0"
Acoustics:	AC8 - Utility Space
Plumbing:	
Fixture Type:	Cconnection for ice maker
Piped services:	Cold water
Special drains:	Drain connection to fixtures
Power & Lighting	
User Convenience (excludes outlets for AV, security, etc.):	Duplex on perimeter walls, one per wall
Power density:	PW1 - 1W/ASF
Lighting level	L6 - 40 FC ambient, 70 FC at any service points or equipment
Lighting control	LC6 - Workrooms / Utility

Telecommunications	
Outlet (excludes outlets for AV, security, etc.):	1 standard data drop per room
Wireless Requirements:	TW1 - 1 wireless device per occupant (based on maximum occupancy)

**ADDITIONAL REQUIREMENTS**

None

**BUILT-IN FIXTURES:**

- F1 Storage shelving - 12" deep
- F2 Storage shelving - 24" deep

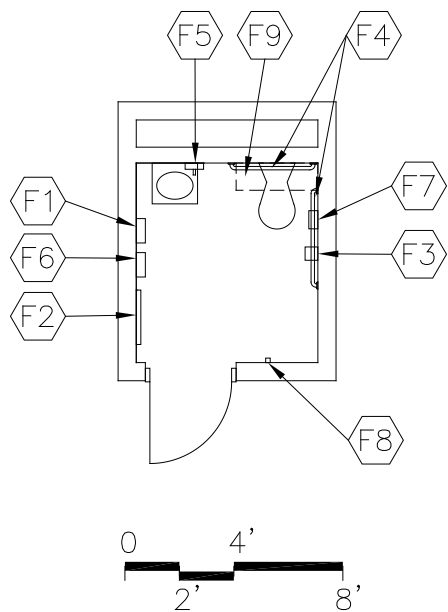
**LOOSE FURNISHINGS:**

- L1 File cabinets
- M1 Refrigerator (lockable) with ice maker

**AUDIO VISUAL EQUIPMENT**

None

TOILET



QUANTITY:

2

CAPACITY:

Up to 1 person

SIZE:

50 SF

SPATIAL RELATIONSHIPS:

Located within Health Suite adjacent to the Cot Area

PROGRAM ACTIVITY:

Changing clothing  
Personal and health needs for the health suite

SPACE REQUIREMENTS

Construction:	
Min Ceiling Height:	8'-0"
Acoustics:	AC7 - Public Space
Window shading:	None
Plumbing:	
Fixture Type:	Toilet, lavatory w/sensor control faucet
Power & Lighting	
User Convenience (excludes outlets for AV, security, etc.):	GFI Duplex at lavatory, one per room



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**Health Suite Space**

Lighting level	L7 - 25 FC ambient
Telecommunications	
Outlet (excludes outlets for AV, security, etc.):	None
Wireless Requirements:	TW1 - 1 wireless device per occupant (based on maximum occupancy)

**ADDITIONAL REQUIREMENTS**

None

**BUILT-IN FIXTURES:**

- F1 Towel dispenser
- F2 24" x 60" mirror
- F3 Toilet tissue holder
- F4 36" and 42" grab bars
- F5 Soap dispenser
- F6 Sanitary dispenser
- F7 Sanitary disposal
- F8 Coat hook

**LOOSE FURNISHINGS:**

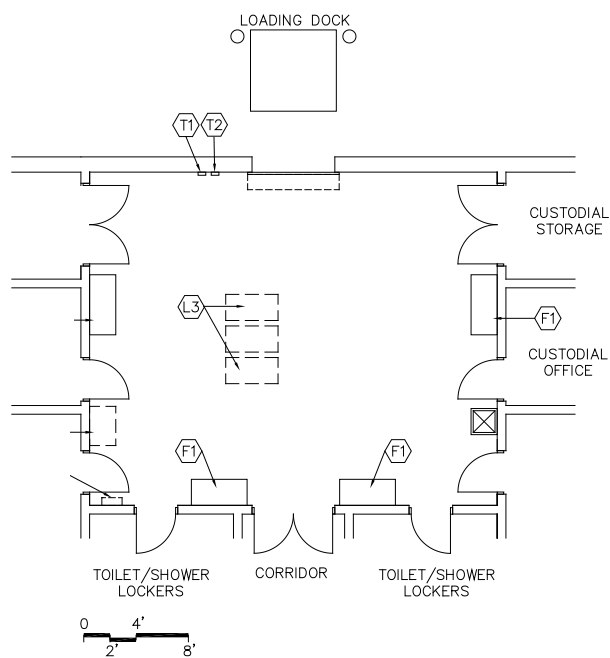
None

**AUDIO VISUAL EQUIPMENT**

None

Maintenance & Custodial Space

RECEIVING AND STORAGE



QUANTITY:

1

SIZE:

600 SF

SPATIAL RELATIONSHIPS:

- Access to a main corridor
- Access to loading dock area

GOAL:

To serve as the central point for delivery and shipping of bulk commodities and equipment and provide adequate storage for supplies and materials

PROGRAM ACTIVITIES:

- Loading and unloading
- Storage of furniture, equipment, and general supplies

SPACE REQUIREMENTS

Construction:	
Min Ceiling Height:	10'-0"
Acoustics:	AC8 - Utility Space
Window shading:	
Power & Lighting	

---

**Maintenance and Custodial Space**

User Convenience (excludes outlets for AV, security, etc.):	Duplex on perimeter walls, min one per wall
Lighting level	L6 - 40 FC ambient, 70 FC at any service points or equipment
Telecommunications	
Outlet (excludes outlets for AV, security, etc.):	One data drop on perimeter walls at max 6' on center.
Wireless Requirements:	None

**ADDITIONAL REQUIREMENTS**

Double doors with removable mullions to corridor  
 Electrical outlets for equipment  
 High ceiling  
 Staging area with insulated overhead door large enough for forklift access

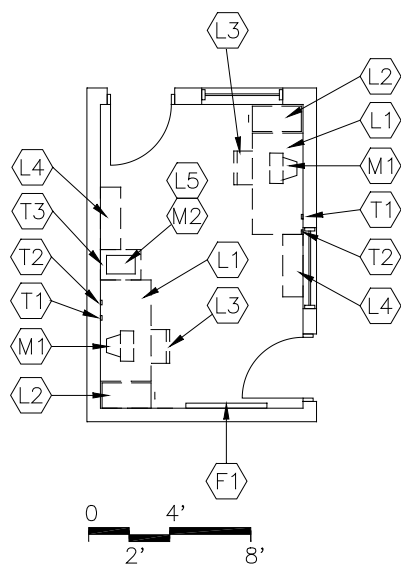
**BUILT-IN FIXTURES:****LOOSE FURNISHINGS:**

Mobile Equipment  
 Lawn maintenance equipment  
 Floor/building maintenance equipment

**AUDIO VISUAL EQUIPMENT**

None

CUSTODIAL OFFICE



QUANTITY:

1

CAPACITY:

Up to 2 People

SIZE:

150 SF

ANCILLARY SPACES:

Toilet/Shower/Lockers

SPATIAL RELATIONSHIPS:

- Adjacent and access to Custodial Storage
- Adjacent and access to Receiving
- Near corridor

GOAL:

To provide an area for the maintenance manager, staff, and building engineer to provide supervision of the physical plan

PROGRAM ACTIVITIES:

- Conferences with staff and other visitors
- Paperwork
- Telephone calls

SPACE REQUIREMENTS

Construction:	
Min Ceiling Height:	9'-0"

## Maintenance and Custodial Space

Acoustics:	AC3 - Medium Performance: Closed Office
Window shading:	S1 - Roller Shades, 5% Open
Power & Lighting	
User Convenience (excludes outlets for AV, security, etc.):	2 duplex per wall on three of four walls
Lighting level	L2 - 35 FC at work surfaces
Telecommunications	
Outlet (excludes outlets for AV, security, etc.):	One standard data drop on two side walls
Wireless Requirements:	TW2 - 2 wireless devices per occupant (based on maximum occupancy)

### ADDITIONAL REQUIREMENTS

None

### BUILT-IN FIXTURES:

F1 Book shelves

### LOOSE FURNISHINGS:

- L1 2 desks
- L2 2, 4-drawer file cabinets
- L3 2 ergonomic task chairs
- L4 Adjustable height bookshelves (12 LF)
- L5 Printer table

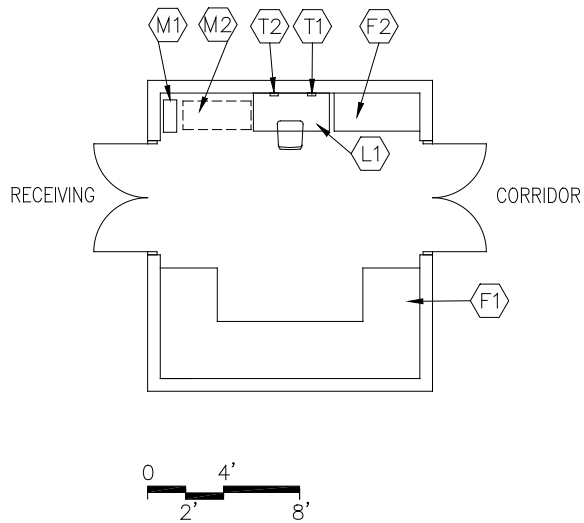
Miscellaneous Equipment (provided by owner):

- M1 2 Computers
- M2 1 Printer

### AUDIO VISUAL EQUIPMENT

None

## CUSTODIAL STORAGE



### QUANTITY:

1

### SIZE:

300 SF

### SPATIAL RELATIONSHIP:

Adjacent to Receiving  
Easy access to a main corridor  
Near Custodial Office

### GOAL:

To serve as the central point for storage of bulk commodities and equipment

### PROGRAM ACTIVITIES:

Storage of materials for special events, paper, and general supplies

### SPACE REQUIREMENTS

Construction:	
Min Ceiling Height:	10'-0"
Acoustics:	AC8 - Utility Space
Window shading:	None
Power & Lighting	
User Convenience (excludes outlets for AV, security, etc.):	Duplex on perimeter walls, min one per wall
Lighting level	L6 - 40 FC ambient, 70 FC at any service points or equipment
Telecommunications	

**Maintenance and Custodial Space**

Outlet (excludes outlets for AV, security, etc.):	One standard data drop
Wireless Requirements:	TW1 - 1 wireless device per occupant (based on maximum occupancy)

**ADDITIONAL REQUIREMENTS**

Double doors with removable mullions to  
Receiving and Corridor  
High ceilings  
Uniform lighting

**BUILT-IN FIXTURES:**

F1 Storage shelving (40 LF): 84" high x 36" deep  
F2 Storage shelving: 84" high x 24" deep

**LOOSE FURNISHINGS:**

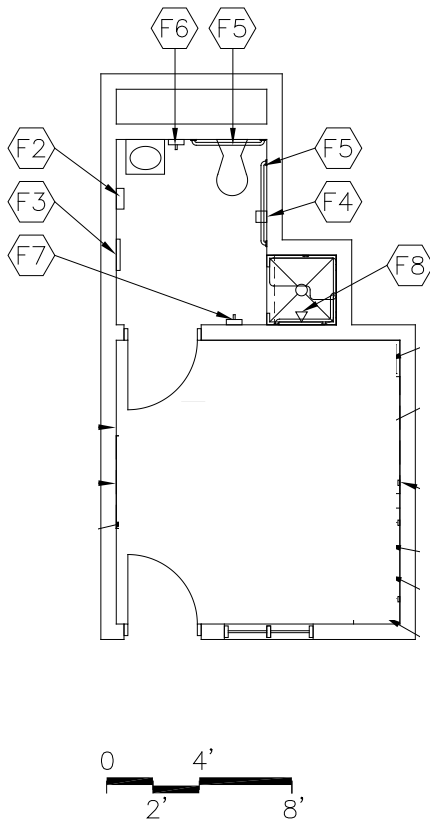
L1 Desk and chair  
M2 Metal cabinet for flammables

**AUDIO VISUAL EQUIPMENT**

None



**TOILET/ SHOWER/ LOCKERS**



**QUANTITY:**

2

**CAPACITY:**

Custodial Staff

**SIZE:**

150 SF

**SPATIAL RELATIONSHIP:**

Adjacent to Custodial Receiving Area  
Separate Male and Female rooms

**GOAL:**

To provide an area for custodial staff to change and clean-up when needed.

**PROGRAM ACTIVITIES:**

Changing  
Showering

---

**Maintenance and Custodial Space**
**SPACE REQUIREMENTS**

Construction:	
Min Ceiling Height:	8'-0"
Acoustics:	AC7 - Public Space
Window shading:	None
Plumbing:	
Fixture Type:	Toilet, lavatory, shower
Power & Lighting	
User Convenience (excludes outlets for AV, security, etc.):	1 duplex outlet per sink
Lighting level	L7 - 25 FC ambient
Telecommunications	
Outlet (excludes outlets for AV, security, etc.):	None
Wireless Requirements:	TW1 - 1 wireless device per occupant (based on maximum occupancy)
SPECIALTIES	

**ADDITIONAL REQUIREMENTS**

None

**BUILT-IN FIXTURES:**

- F2 Towel dispenser
- F3 24" x 60" mirror
- F4 Toilet tissue holder
- F5 36" and 42" grab bars
- F6 Soap dispenser
- F7 Towel rack
- Vanity Counter and mirror

**LOOSE FURNISHINGS:**

Benches and lockable lockers

**AUDIO VISUAL EQUIPMENT**

None

**LIBRARY COMMONS****QUANTITY:**

1

**CAPACITY:**

100 students

150 persons for community or staff meeting

Media Specialist

Media Assistant

**SIZE:**3,200 SF (including Independent and on-line learning of 800 SF)**ANCILLARY SPACES:**

Equipment Storage (150 SF)

Head End Room (250 SF)

Office (150 SF)

Staff Toilet (50 SF)

Workroom (300 SF)

**SPATIAL RELATIONSHIPS:**

Three (3) activity areas:

Individual Research and Reading around periphery where stacks are located

Interactive and Small Group areas

Independent/ On-line Learning area

Good sight lines to all ancillary spaces

Mobile circulation desk located centrally

Locate standing card catalog station next to information desk

Mobility for all free-standing furniture including book shelves

**GOAL:**

To provide a place for social interaction and multi-media production and presentation

To provide students, staff, and community with access to paper and digital information

**PROGRAM ACTIVITIES:**

Reading, storytelling, speakers

Circulation of materials and resources

Whole group and small group instruction

Meetings for staff and parents

**SPACE REQUIREMENTS**

Construction:	
Min Ceiling Height:	12'-0"
Acoustics:	AC2-1 - High Performance: Classroom, Conference Room or Confidential Space (Large volume space)
Window shading:	None

**Media Center Space**

<b>Power &amp; Lighting</b>	
User Convenience (excludes outlets for AV, security, etc.):	Duplex on perimeter walls at twelve feet (12'), recessed floor quad boxes, 1 per 400 SF
Lighting level	L1 - 50 FC at work surfaces and teaching displays with multiple sets
<b>Telecommunications</b>	
Outlet (excludes outlets for AV, security, etc.):	Standard data outlets on wall at 6' on center
Wireless Requirements:	TW3 - 3 wireless devices per occupant (based on maximum occupancy)

**ADDITIONAL REQUIREMENTS**

Adequate ventilation

Ceiling height in proportion to room dimensions

Lighting appropriate to task with switches to dim separate zones of media center

☐ Security of school when center is in use after school hours

☐ Window treatment to darken room for AV presentations

☐ Windows to provide natural light and egress

Space, furniture and equipment layout shall encourage the full range of uses including individual study, story telling, group activity and large group meetings

Flooring: Carpet

**BUILT-IN FIXTURES:**

Book stacks mostly peripheral (quantity site specific); some low shelving (36") on castors (12,000 volumes – fiction and non-fiction)

Independent workstations distributed around the periphery (w/outlets); comfortable chairs

Modular mobile circulation desk combination

Book Return

Three locking drawers

Check-out module

**LOOSE FURNISHINGS:**

Individual research and reading area:

10 lounge chairs (mobile)

5 end tables (mobile)

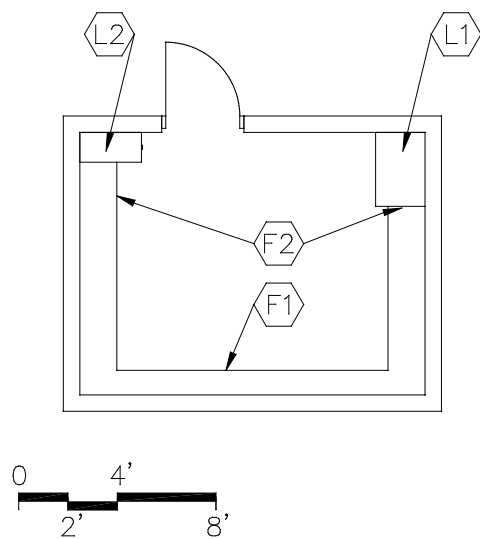
Interactive and Small Group area

10-12 four-person tables and chairs (mobile); consider different heights and alternative seating/standing choices (outlets at every location)

**AUDIO VISUAL EQUIPMENT**

See Educational Technology Requirements

EQUIPMENT STORAGE



QUANTITY:

1

SIZE:

150 SF

SPATIAL RELATIONSHIP:

Adjacent and access to the workroom

GOAL:

To provide a safe and secure area for storage of equipment and supplies

SPACE REQUIREMENTS

Construction:	
Min Ceiling Height:	9'-0"
Acoustics:	AC8 - Utility Space
Window shading:	None
Power & Lighting	
User Convenience (excludes outlets for AV, security, etc.):	Duplex on perimeter walls, min one per wall
Lighting level	L6 - 40 FC ambient, 70 FC at any service points or equipment
Telecommunications	
Outlet (excludes outlets for AV, security, etc.):	None
Wireless Requirements:	TW1 - 1 wireless device per occupant (based on maximum occupancy)

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**ADDITIONAL REQUIREMENTS**

None

**BUILT-IN FIXTURES:**

F1 Storage shelving (12" deep)

F2 Storage shelving (18" deep)

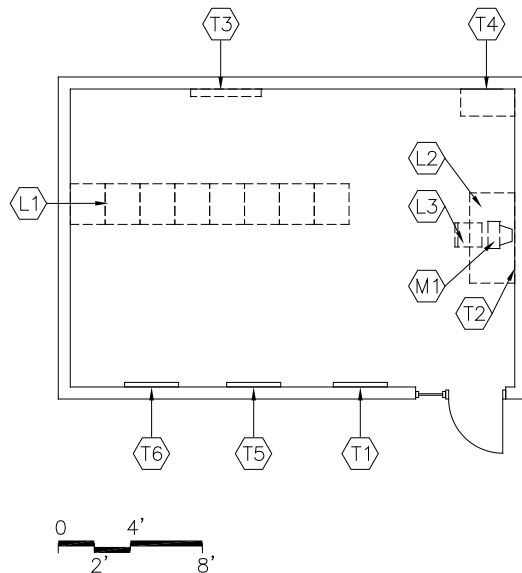
**LOOSE FURNISHINGS:**

L1 Adjustable height shelving (24" deep)

L2 4-drawer file cabinet (legal)

**AUDIO VISUAL EQUIPMENT**

None

**HEAD END (Telecommunications) ROOM****QUANTITY:**

1

**SIZE:**

250 SF

**GOALS:**

To provide a secure area to serve as the information hub of the school. File servers will serve the buildings computer network

To provide satellite up and down links that will send and receive voice, video, and data. Fiber optic cable will serve the telephone, fax, and video of the school and other district buildings

**PROGRAM ACTIVITIES:**

- Cable and CATV reception and broadcasting
- Network management
- Security system location
- Telephone wiring entry and distribution
- Voice, video, data reception and distribution

**SPACE REQUIREMENTS**

Construction:	
Min Ceiling Height:	9'-0"
Acoustics:	AC8 - Utility Space
Window shading:	None
Power & Lighting	
User Convenience (excludes outlets for AV, security, etc.):	See Additional Requirements
Lighting level	L6 - 40 FC ambient, 70 FC at any service points or equipment
Telecommunications	

**Media Center Space**

Outlet (excludes outlets for AV, security, etc.):	See Additional Requirements. Wall phone next to exit door(s).
Wireless Requirements:	TW2 - 2 wireless devices per occupant (based on maximum occupancy)

**ADDITIONAL REQUIREMENTS**

The Room shall be constructed in full accordance with the PGCPs specification Division 27

**Walls**

Provide fire treated plywood 3/4 " to all walls

**Racks**

Provide equipment racks consisting of seven (7) feet high by nineteen (19) inches wide open (2-channel) equipment racks and double-sided vertical cabling managers.

Provide equipment cabinets that are thirty (30) inches wide by forty-two (42) inches deep (minimum) with 42U of internal work space. Quantity of cabinets shall be consistent for every BDF room unless noted otherwise.

Provide overhead cable management in the form of cable runway or cable tray at least twelve (12) inches wide and placed at ninety (90) inches above finished floor to coincide with the top of the equipment racks and cabinets. Define the actual size of the cable runway or cable tray based on supported cable-fill quantity. Provide proper clearance from top of ladder rack and HVAC ducting and other building support components.

Provide cable support, such as vertically installed cable runway to support cables entering the room from floor sleeves, slots, and conduit. Provide cable drop-outs where cables transition from vertical to horizontal cable management.

**Electrical**

Provide an electrical panel in IT Room. The panel shall only serve circuits within IT Room including racks, cabinets, mechanical systems, lighting, and security equipment panels. Do not feed convenience outlets from these panels. Ensure twenty percent (20%) spare breaker slots are available in panel after building occupancy acceptance. The estimated electrical load of room(s) it serves shall not exceed eighty percent (80%) of its capacity. Such panel shall remain unlocked at all times.

One 120VAC/20A (NEMA 5-200 quad electrical circuit, one 120VAC/30A (NEMA L5-30) electrical circuit and one 208VAC/30A (NEMA L6-30) electrical circuit shall be provided above each equipment rack/cabinet.

Place 120VAC/15A (NEMA 5-15) convenience outlets every six (6) feet along the walls, with a minimum of one per wall.

**Cable Management/Pathway**

Provide cable pathways for MPOE for telephone, data and Satellite dish/Cable TV connection

**BUILT-IN FIXTURES:**



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**Media Center Space**

L1 four (4) two-post network equipment racks and three (3) server cabinets, including power units (3kW per rack and 10kW per server)

**LOOSE FURNISHINGS:**

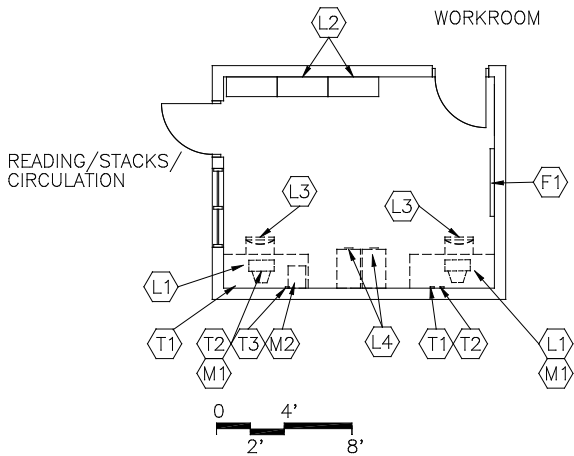
L2 Computer workstation/M1 computer

L3 Ergonomic task chair

**AUDIO VISUAL EQUIPMENT**

None

OFFICE



QUANTITY:

1

CAPACITY:

Media Specialist

SIZE:

150 SF

SPATIAL RELATIONSHIPS:

- Adjacent and access to Reading/ Stacks/ Circulation
- Adjacent and access to Workroom
- Near Circulation desk

GOAL:

To provide a private work area for the media specialist, easy access to the circulation desk, media production area, and computer resource area

PROGRAM ACTIVITIES:

- Ordering
- Scheduling
- Cooperative learning
- Administrative work (preparing budget, reports, etc.)
- Processing and repairing books, videos, discs, etc.

SPACE REQUIREMENTS

Construction:	
Min Ceiling Height:	9'-0"
Acoustics:	AC3 - Medium Performance: Closed Office
Window shading:	S1 - Roller Shades, 5% Open
Power & Lighting	

## Media Center Space

User Convenience (excludes outlets for AV, security, etc.):	2 duplex outlets per wall on two side walls
Lighting level	L2 - 35 FC at work surfaces
Telecommunications	
Outlet (excludes outlets for AV, security, etc.):	One standard data drop on two side walls
Wireless Requirements:	TW2 - 2 wireless devices per occupant (based on maximum occupancy)

### ADDITIONAL REQUIREMENTS

#### BUILT-IN FIXTURES:

F1 Tack board (4 LF)

#### LOOSE FURNISHINGS:

- L1 1-2 Computer workstations
- L2 Adjustable height bookshelves (24 LF)
- L3 1-2 Ergonomic task chairs
- L4 2, 4-drawer file cabinets

#### Miscellaneous Equipment

- M1 Computer
- M2 Printer/ copier/ fax (optional)

#### AUDIO VISUAL EQUIPMENT

See Educational Technology Requirements

**PRODUCTION/ MULTI-MEDIA STUDIO****QUANTITY:**

1

**CAPACITY:**

4 students

1 teacher

**SIZE:**

460 SF Studio (includes 100 SF Control Room)

800 SF Editing Learning Studio

100 SF Storage

400 SF Media Lab

**SPATIAL RELATIONSHIPS:**

Accessible to and near the Library Commons

Door from the corridor

**GOAL:**

To provide a soundproof, properly lighted room for video productions, audio productions, publication purposes, and multimedia productions using computer accessories and peripherals such as scanners, digital cameras, etc.

**PROGRAM ACTIVITIES:**

Closed circuit TV production

Creative writing

Digitizing

Newspaper production

Scanning

Video creation/production

Voice over/dubbing

**SPACE REQUIREMENTS: STUDIO, CONTROL ROOM & LAB**

Construction:	
Min Ceiling Height:	10'-0"
Acoustics:	AC1 - Very High Performance: Performance or Lecture Space
Window shading:	See Additional Requirements
Power & Lighting	
User Convenience (excludes outlets for AV, security, etc.):	Powered raceway (wiremold or similar), with duplex outlets at 2' on center on two walls, duplex on other walls at twelve feet (12')
Lighting level	L6 - 40 FC ambient, 70 FC at any service points or equipment
Telecommunications	
Outlet (excludes outlets for AV, security, etc.):	One data drop on perimeter walls at max 6' on center.

Wireless Requirements:	TW1 - 1 wireless device per occupant (based on maximum occupancy)
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**ADDITIONAL REQUIREMENTS**

## Finishes:

**Flooring:** Studio floor shall be medium gray tiles, and the Control Room shall have VCT.

**Walls/ Ceilings:** Shall be painted flat black.

## Control room glazing

Dual glass windows (typically 6' x 3') required between the studio and control room, angled for acoustics and glare

## Electrical Features:

Lighting bar or grid with dimmer board in Control Room

Provide a medium duty cyclorama I-beam supplied for "walk along" operation.

Special lighting for video production

High bandwidth connection to Head-end room

## HVAC Features:

Separate HVAC control from the Media Center

**BUILT-IN FIXTURES:**

## Built-in Fixtures (studio/control booth):

Counter along window between and facing control room.

Dry erase board (16')

Manual projection screen or interactive white board

Hanging Green Screen

Lighting grid (apx. 12' X 12' but dependent on configuration of studio)

## Built-in Fixtures (Lab):

2 Dry, white eraser-board (4' x 20' on two different walls) on track; all eraser-boards shall be installed with a marker tray, map rails with tack strip above

Clock (on side walls instead of rear walls)

Tack board (4' x 20') minimum; tack strips on all walls

Storage area

Adjustable shelving on three walls

**LOOSE FURNISHINGS:**

Loose Furnishings (Studio/Control booth) \$30,000 cap for studio equipment

Recommend a 'turnkey integrated package' to include: Audio mixer and audio and video switching equipment; Digital recording and sending equipment with ancillary microphones (3-4), and speakers

Studio cameras (2)

Studio lights (2-3)

Pod cast and tricast equipment

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**Media Center Space**

Anchor desk  
Work table

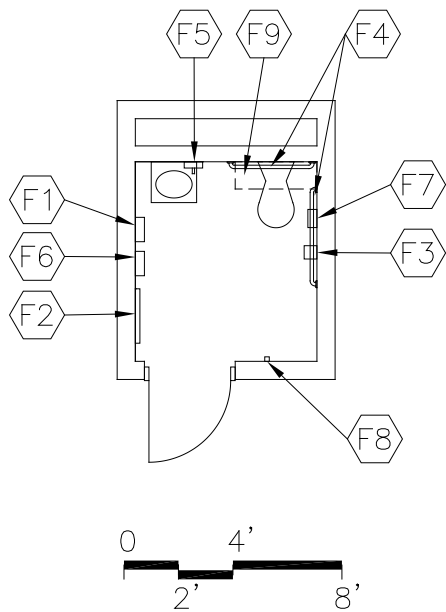
Loose Furnishings (Lab):

- 2 work table
- 2 file cabinets w/lock, 4-drawer
- 24 student chairs
- 24 student desks (trapezoid or square)
- Adjustable height bookshelves (24 LF)
- Teacher wardrobe (lockable) with coat rod; tall cabinet w/ shelving (may be one unit)
- Teacher's desk/workstation and chair

**AUDIO VISUAL EQUIPMENT**

See Educational Technology Requirements

TOILET



**QUANTITY:**  
1

**CAPACITY:**  
Up to 1 person

**SIZE:**  
50 SF

**SPATIAL RELATIONSHIPS:**  
Located within Media Center near the Office and Workroom

**SPACE REQUIREMENTS**

Construction:	
Min Ceiling Height:	8'-0"
Acoustics:	AC7 - Public Space
Window shading:	None
Plumbing:	
Fixture Type:	Toilet, lavatory w/sensor control faucet
Power & Lighting	
User Convenience (excludes outlets for AV, security, etc.):	GFI Duplex at lavatory, one per room
Lighting level	L7 - 25 FC ambient
Telecommunications	
Outlet (excludes outlets for AV, security, etc.):	None

**Media Center Space**

Wireless Requirements:	TW1 - 1 wireless device per occupant (based on maximum occupancy)
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**ADDITIONAL REQUIREMENTS**

**BUILT-IN FIXTURES:**

- F1 Towel dispenser
- F2 24" x 60" mirror
- F3 Toilet tissue holder
- F4 36" and 42" grab bars
- F5 Soap dispenser
- F6 Sanitary dispenser
- F7 Sanitary disposal
- F8 Coat hook
- F9 Casework: Wall cabinet

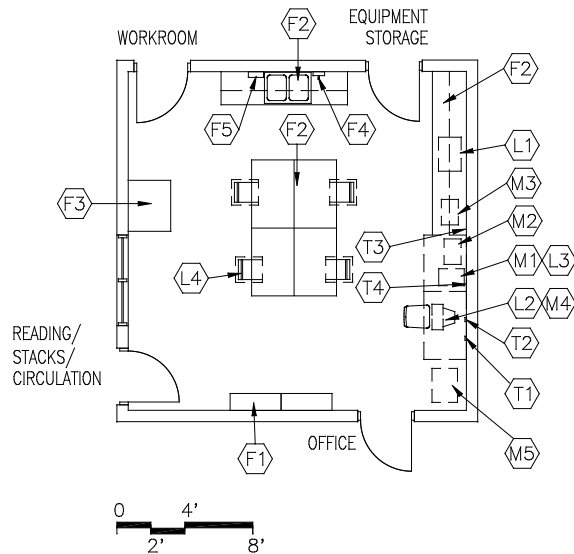
**LOOSE FURNISHINGS:**

None

**AUDIO VISUAL EQUIPMENT**

None



**WORKROOM****QUANTITY:**

1

**CAPACITY:**

Media specialist  
Student assistants

**SIZE:**

250 SF

**SPATIAL RELATIONSHIPS:**

Adjacent and access to Office  
Adjacent and access to Reading/Stacks/Circulation  
Behind circulation desk

**GOAL:**

To provide space for the management and organization of media resources and processing of incoming materials

**PROGRAM ACTIVITIES:**

Receiving, processing, and duplicating library materials  
Repairing damaged or worn materials  
Scanning and digitizing

**SPACE REQUIREMENTS**

Construction:	
Min Ceiling Height:	9'-0"
Acoustics:	AC3 - Medium Performance: Open Office and Workroom Office
Window shading:	S1 - Roller Shades, 5% Open

**Media Center Space**

<b>Plumbing:</b>	
Fixture Type:	Kitchen sink
<b>Power &amp; Lighting</b>	
User Convenience (excludes outlets for AV, security, etc.):	Duplex on perimeter walls at twelve feet (12'), 2 recessed floor quad
Lighting level	L2 - 35 FC at work surfaces
<b>Telecommunications</b>	
Outlet (excludes outlets for AV, security, etc.):	Standard data drops on perimeter walls at max 12' on center
Wireless Requirements:	TW2 - 2 wireless devices per occupant (based on maximum occupancy)

**ADDITIONAL REQUIREMENTS**

None

**BUILT-IN FIXTURES:**

- F1 Storage shelving: video video (24 LF)
- F2 Casework: Base/wall cabinets around sink
- F3 Casework: Tall storage (36" X 22" X 84")
- F4 Soap dispenser
- F5 Towel dispenser

**LOOSE FURNISHINGS:**

- L1 Paper cutter
- L2 Computer workstation furniture
- L3 Equipment table
- L4 Admin Chair
- Teachers' Mobile Cart for Technology

**Miscellaneous Equipment:**

- M1 Fax
- M2 Printer
- M3 Scanner
- M4 Computer
- M5 Video distribution equipment

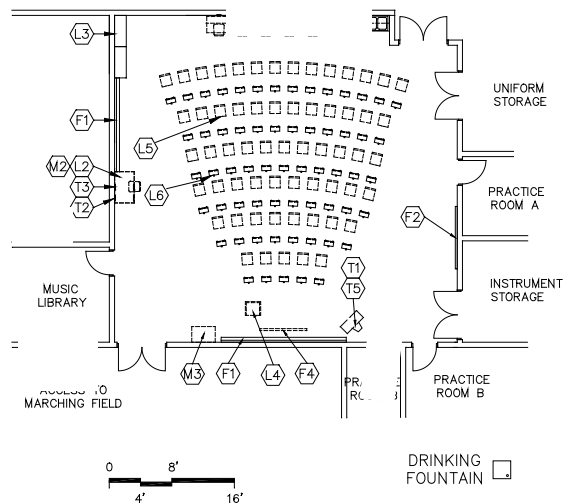
**AUDIO VISUAL EQUIPMENT**

TBD



**Performing Arts Space**

## BAND/ ORCHESTRA ROOM/DRAMA



### QUANTITY:

2

### CAPACITY:

Up to 60 students

Teacher

### SIZE:

1,800 SF (includes 100 SF office alcove)

1,400 SF

### ANCILLARY SPACES:

Instrument Storage

Practice Rooms

### GOAL:

To serve as the learning and practice area for instrument classes

### SPATIAL RELATIONSHIPS:

Adjacent and access to Practice Rooms

Adjacent and access to Instrument Storage

### PROGRAM ACTIVITIES:

Independent study

Individual and small group practice

Jazz and chamber ensembles

Performance

Teaching and learning to read music

**SPACE REQUIREMENTS**

Construction:	
Min Ceiling Height:	14'-0"
Acoustics:	AC1 - Very High Performance: Performance or Lecture Space
Window shading:	S1A -Blinds/Shades and Manually Operated Blackout Shades
Power & Lighting	
User Convenience (excludes outlets for AV, security, etc.):	<ul style="list-style-type: none"> <li>One (1) outlet for control of the classroom projector/interactive board</li> <li>One (1) outlet for telephone at the teacher station</li> <li>One (1) outlet for the intercom system</li> <li>Two (2) outlets at the teacher station for a teacher's computing device and accessory</li> <li>Two (2) outlets for wireless network</li> <li>Four (4) outlets for student use</li> <li>Duplex on walls at twelve feet (12'), recessed floor quad at 10' on center</li> </ul>
Lighting level	L1 - 50 FC at work surfaces and teaching displays with multiple sets
Telecommunications	
Outlet (excludes outlets for AV, security, etc.):	<ul style="list-style-type: none"> <li>One (1) data outlet for control of the classroom projector/interactive board</li> <li>One (1) data outlet for telephone at the teacher station</li> <li>One (1) data outlet for the intercom system</li> <li>Two (2) data outlets, and one (1) voice outlet at the teacher station for a teacher's computing device and accessory</li> <li>Two (2) data outlets for wireless network</li> <li>One (1) data outlet for the PoE clock</li> </ul>
Sound Reinforcement	Every classroom will be wired for teacher audio enhancement and the audio system should be integrated into the intercom system. The mixed sound will be amplified and sent through the speakers (preferably ceiling mounted).
Wireless Requirements:	TW2 - 2 wireless devices per occupant (based on maximum occupancy)

**ADDITIONAL REQUIREMENTS**

8' high double doors throughout this area - no mullions  
 Non-parallel surfaces (walls/ceiling) for acoustical benefits  
 Sound proof HVAC system (under 35 dBa)  
 Sound seals on doors  
 Uniform multi-level lighting

**BUILT-IN FIXTURES:**

F1 Marker board (24 LF)- 1/2 with staff lines  
 F2 Tack board (12-16 LF)  
 F3 Casework: Base/wall cabinets (8 LF)

F4 Interactive White board  
Clock (on side walls instead of rear walls)

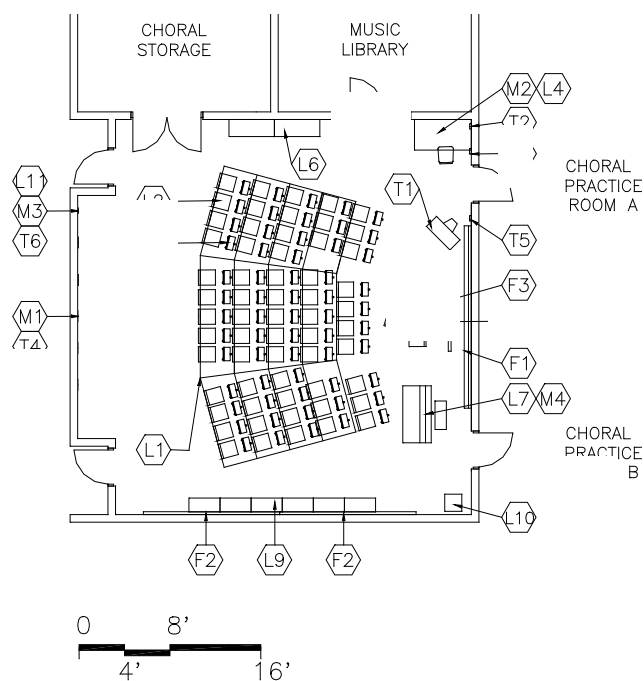
**LOOSE FURNISHINGS:**

L2 Teacher desk and chair  
L3 Sheet music cabinet (150 concert sized folio capacity)  
L4 Conductors podium/stand/chair  
L5 60 Music posture chairs  
L6 60 music stands  
Teacher wardrobe (lockable) with coat rod; tall cabinet w/ shelving (may be one unit)  
Sound recording equipment cart  
Teachers' Mobile Cart for Technology  
M3 Band/orchestra sound system  
with sound recording/editing equipment and microphone connection

**AUDIO VISUAL EQUIPMENT**

See Educational Technology Requirements

## CHORAL/ KEYBOARD/ GUITAR ROOM



### QUANTITY:

1

### CAPACITY:

Up to 40 students

Teacher

### SIZE:

1,900 SF

### ANCILLARY SPACES:

Choral Storage

### GOAL:

To provide a space that will serve as the learning/ practice area for choral, keyboard, and guitar classes

### PROGRAM ACTIVITIES:

Practice for sectional groups

Rehearsals

Solos

**SPACE REQUIREMENTS**

Construction:	
Min Ceiling Height:	14'-0"
Acoustics:	AC1 - Very High Performance: Performance or Lecture Space
Window shading:	S1A -Blinds/Shades and Manually Operated Blackout Shades
Power & Lighting	
User Convenience (excludes outlets for AV, security, etc.):	<ul style="list-style-type: none"> <li>One (1) outlet for control of the classroom projector/interactive board</li> <li>One (1) outlet for telephone at the teacher station</li> <li>One (1) outlet for the intercom system</li> <li>Two (2) outlets at the teacher station for a teacher's computing device and accessory</li> <li>Two (2) outlets for wireless network</li> <li>Four (4) outlets for student use</li> <li>Duplex on walls at twelve feet (12'), recessed floor quad at 10' on center</li> </ul>
Lighting level	L1 - 50 FC at work surfaces and teaching displays with multiple sets
Telecommunications	
Outlet (excludes outlets for AV, security, etc.):	<ul style="list-style-type: none"> <li>One (1) data outlet for control of the classroom projector/interactive board</li> <li>One (1) data outlet for telephone at the teacher station</li> <li>One (1) data outlet for the intercom system</li> <li>Two (2) data outlets, and one (1) voice outlet at the teacher station for a teacher's computing device and accessory</li> <li>Two (2) data outlets for wireless network</li> <li>One (1) data outlet for the PoE clock</li> </ul>
Sound Reinforcement	Every classroom will be wired for teacher audio enhancement and the audio system should be integrated into the intercom system. The mixed sound will be amplified and sent through the speakers (preferably ceiling mounted).
Wireless Requirements:	TW2 - 2 wireless devices per occupant (based on maximum occupancy)

**ADDITIONAL REQUIREMENTS**

Higher than normal ceiling height, possibly sloped  
 Non-parallel surfaces (walls/ceiling) for acoustical benefits  
 Quiet HVAC system (under 35 dBa)  
 Sound seals on doors

**BUILT-IN FIXTURES:**

F1 Marker board (24 LF)- 1/2 with staff lines  
 F2 Tack board (16 LF minimum)  
 F3 Interactive White board  
 Clock (on side walls instead of rear walls)



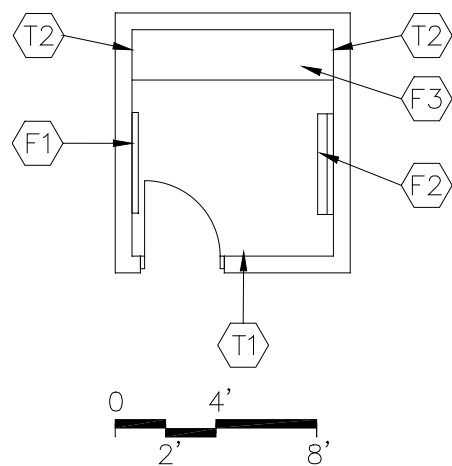
**LOOSE FURNISHINGS:**

- L1 Portable standing choral risers
- L2 40 musical posture chairs
- L4 Teacher desk and chair
- L5 Conductor's podium, chair, and stand
- L6 Sheet music cabinet (150 concert sized folio capacity)
- L7 Upright digital piano
- L8 40 music stands
- L9 Adjustable height bookshelves (48 LF)
- L10 Sound recording/editing equipment cabinet
- L11 Printer table
- M3 Printer
- 15 music keyboard tables
- Teachers' Mobile Cart for Technology

**AUDIO VISUAL EQUIPMENT**

See Educational Technology Requirements

CHORAL PRACTICE ROOM



QUANTITY:  
2

CAPACITY:  
Up to 3 students  
Teacher

SIZE:  
100 SF

SPATIAL RELATIONSHIP:  
Adjacent and access to Choral Room

GOAL:  
To provide an area for individual student practice and rehearsals

PROGRAM ACTIVITY:  
Practice/rehearsals

SPACE REQUIREMENTS

Construction:	
Min Ceiling Height:	9'-0"
Acoustics:	AC1 - Very High Performance: Performance or Lecture Space
Window shading:	None
Power & Lighting	
User Convenience (excludes outlets for AV, security, etc.):	2 duplex per wall on three of four walls
Lighting level	L2 - 35 FC at work surfaces
Telecommunications	
Outlet (excludes outlets for AV, security, etc.):	Two (2) data drop per wall on one wall.

Wireless Requirements:	TW2 - 2 wireless devices per occupant (based on maximum occupancy)
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**ADDITIONAL REQUIREMENTS**

**BUILT-IN FIXTURES:**

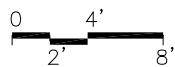
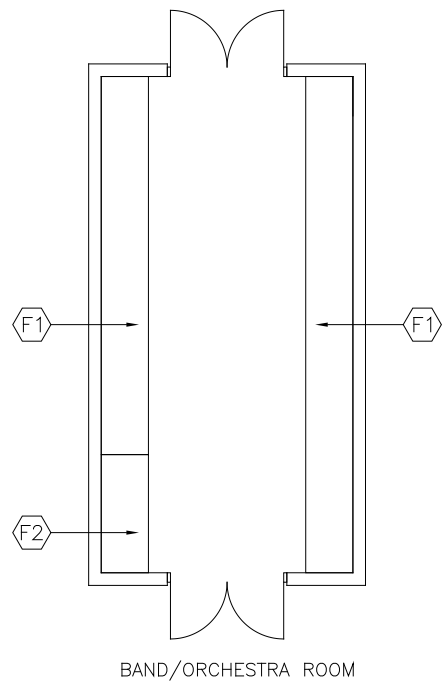
- F1 Tack board (4 LF)
- F2 Marker board (4 LF)
- F3 Casework: Base cabinets (6 LF)
- Electronic keyboard
- Clock

**LOOSE FURNISHINGS:**

**AUDIO VISUAL EQUIPMENT**

See Educational Technology Requirements

INSTRUMENT STORAGE



QUANTITY:

2

SIZE:

350 SF

SPATIAL RELATIONSHIP:

- Adjacent and access to Band/Orchestra Room
- Provide entrance and separate exit to the Band/Orchestra Room

GOAL:

- To provide secure and adequate storage for instruments

PROGRAM ACTIVITY:

- Storage of instruments

SPACE REQUIREMENTS

Construction:	
Min Ceiling Height:	9'-0"
Acoustics:	AC8 - Utility Space
Window shading:	None
Power & Lighting	

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**Performing Arts Space**

User Convenience (excludes outlets for AV, security, etc.):	Duplex on perimeter walls, min one per wall
Lighting level	L6 - 40 FC ambient, 70 FC at any service points or equipment
Telecommunications	
Outlet (excludes outlets for AV, security, etc.):	None
Wireless Requirements:	TW1 - 1 wireless device per occupant (based on maximum occupancy)

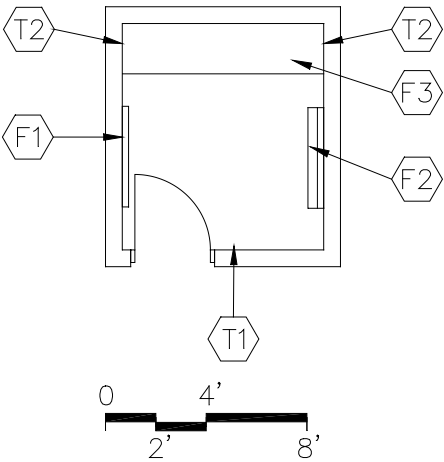
**ADDITIONAL REQUIREMENTS****BUILT-IN FIXTURES:**

- F1 Storage shelving: Instrument storage w/ open grille doors
- F2 Casework: Tall cabinets

**LOOSE FURNISHINGS:****AUDIO VISUAL EQUIPMENT**

None

INSTRUMENTAL PRACTICE ROOMS



QUANTITY:  
4

CAPACITY:  
Up to 3 students  
Teacher

SIZE:  
80 SF

SPATIAL RELATIONSHIP:  
Adjacent and access to Band/Orchestra Room  
May be modular

GOAL:  
To provide an area for individual student practice and rehearsals

PROGRAM ACTIVITY:  
Instrumental practice/rehearsals

SPACE REQUIREMENTS

Construction:	
Min Ceiling Height:	9'-0"
Acoustics:	AC1 - Very High Performance: Performance or Lecture Space
Window shading:	None
Power & Lighting	
User Convenience (excludes outlets for AV, security, etc.):	2 duplex per wall on three of four walls
Lighting level	L2 - 35 FC at work surfaces
Telecommunications	

**Performing Arts Space**

Outlet (excludes outlets for AV, security, etc.):	Two (2) data drop per wall on one wall.
Wireless Requirements:	TW2 - 2 wireless devices per occupant (based on maximum occupancy)

**ADDITIONAL REQUIREMENTS**

**BUILT-IN FIXTURES:**

- F1 Tack board (4 LF)
- F2 Marker board (4 LF)
- F3 Casework: Base cabinets (6 LF) (optional)
- Clock

**LOOSE FURNISHINGS:**

**AUDIO VISUAL EQUIPMENT**

See Educational Technology Requirements

**STAGE****QUANTITY:**

1

**SIZE:**

1,200 SF

**ANCILLARY SPACES:**

Shared Classroom/ Stage Support Space

**SPATIAL RELATIONSHIPS:**

Adjacent to Cafeteria/ Multi-purpose Room or Gymnasium

**GOAL:**

To provide space for student performances, guest speakers, assembly presentations

**SPACE REQUIREMENTS**

Construction:	
Min Ceiling Height:	See Additional Requirements
Acoustics:	AC1 - Very High Performance: Performance or Lecture Space
Window shading:	None
Power & Lighting	
User Convenience (excludes outlets for AV, security, etc.):	Duplex convenience outlets at twelve feet (12') on perimeter walls Stage power and lighting, including recessed floor boxes at stage
Lighting level	See Additional Requirements
Telecommunications	
Outlet (excludes outlets for AV, security, etc.):	Two (2) data drop per wall on one wall.
Wireless Requirements:	TW2 - 2 wireless devices per occupant (based on maximum occupancy)

**ADDITIONAL REQUIREMENTS**

Stage shall open on to Cafeteria or gymnasium with a proscenium opening

Provide access to stage from the cafeteria or gymnasium floor level, including stairs and wheelchair lift. Stairs and lift shall be recessed or otherwise placed to not encroach on to cafeteria footprint.

Stage ceiling height shall allow for full clear height for lights, curtain and scrim above the stage level

Flooring shall be wood or comparable stage material, ceilings shall be open, acoustically treated

Provide housekeeping lighting with a minimum level of 25 fc

**BUILT-IN FIXTURES:**

Motorized projection screen

Theater and stage equipment (lights, curtain, scrim)

Mobile folding risers for 40 students



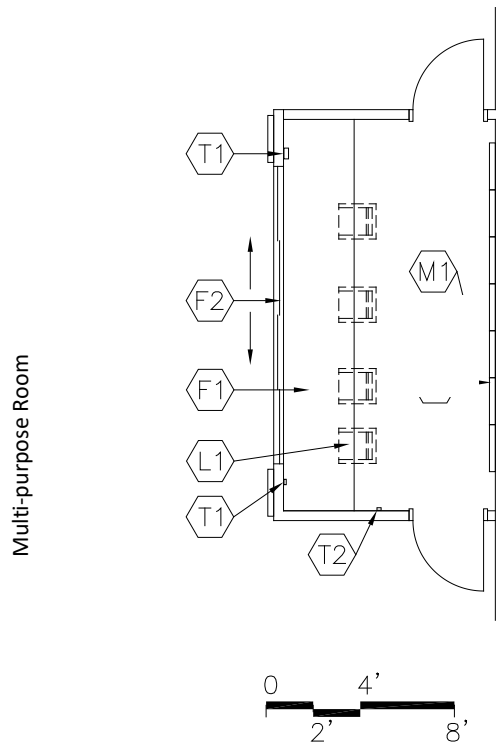
**LOOSE FURNISHINGS:**

Podium  
Upright piano

**AUDIO VISUAL EQUIPMENT**

See Educational Technology Requirements

## STAGE SOUND AND LIGHT CONTROL



### QUANTITY:

1

### SIZE:

75 SF

### ANCILLARY SPACES:

Cafeteria/Multi-purpose Room

### SPATIAL RELATIONSHIPS:

Facing stage

Adjacent to Cafeteria/ Multi-purpose Room or Gymnasium

### GOAL:

To provide space for the equipment needed to operate the sound, lighting, and projection equipment for the stage

### PROGRAM ACTIVITIES:

Operation of the technical support for performances

Teaching of Technical Theater

**SPACE REQUIREMENTS**

Construction:	
Min Ceiling Height:	10'-0"
Acoustics:	AC1 - Very High Performance: Performance or Lecture Space
Window shading:	See Additional Requirements
Power & Lighting	
User Convenience (excludes outlets for AV, security, etc.):	Powered raceway (wiremold or similar), with duplex outlets at 2' on center on two walls, duplex on other walls at twelve feet (12')
Lighting level	L6 - 40 FC ambient, 70 FC at any service points or equipment
Telecommunications	
Outlet (excludes outlets for AV, security, etc.):	One data drops on perimeter walls at max 6' on center.
Wireless Requirements:	TW1 - 1 wireless device per occupant (based on maximum occupancy)

**ADDITIONAL REQUIREMENTS**

Unobstructed view of stage at all times  
 Task lighting  
 Electrical outlets for equipment  
 Sliding glass windows, angled for acoustics and glare  
 Handicapped accessible  
 Intercom connection to stage manager station and stage wings

**BUILT-IN FIXTURES:**

F1 Casework: 36" deep plastic laminate counter top

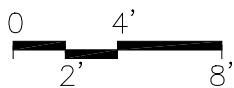
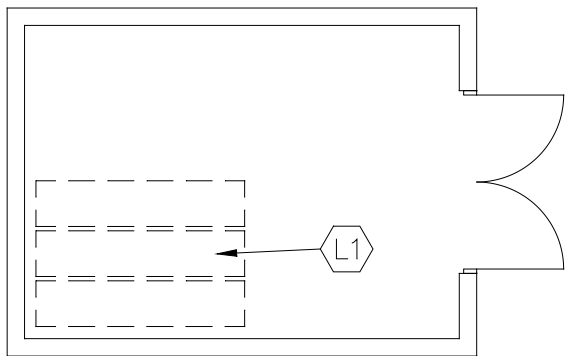
**LOOSE FURNISHINGS:**

L1 Three student stools

**AUDIO VISUAL EQUIPMENT**

See Educational Technology Requirements

STAGE STORAGE



QUANTITY:

1

SIZE:

450 SF

SPATIAL RELATIONSHIP:

- Access from stage
- Near/ adjacent to Shared Classroom/ Stage Support Space

GOAL:

To provide a secure area for storing the piano and other stage props

SPACE REQUIREMENTS

Construction:	
Min Ceiling Height:	9'-0"
Acoustics:	AC8 - Utility Space
Window shading:	None
Power & Lighting	
User Convenience (excludes outlets for AV, security, etc.):	Duplex on perimeter walls, min one per wall
Lighting level	L6 - 40 FC ambient, 70 FC at any service points or equipment
Telecommunications	
Outlet (excludes outlets for AV, security, etc.):	None
Wireless Requirements:	TW1 - 1 wireless device per occupant (based on maximum occupancy)

ADDITIONAL REQUIREMENTS

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**Performing Arts Space**

Smooth transition from stage to prevent piano jarring  
Wide double door opening

**BUILT-IN FIXTURES:**

None

**LOOSE FURNISHINGS:**

None

**AUDIO VISUAL EQUIPMENT**

None

**DANCE STUDIO****QUANTITY:**

1

**CAPACITY:**

25 Students

1 Teachers

**SIZE:**

1,800 SF

**ANCILLARY SPACES:**

Near PE Locker Rooms/Showers

Near stage

**GOAL:**

To support the Dance program

**PROGRAM ACTIVITIES:**

Ballet

Ethnic Dance

Modern Dance

Tap Dance

**SPACE REQUIREMENTS**

Construction:	
Min Ceiling Height:	25'-0"
Acoustics:	AC1 - Very High Performance: Performance or Lecture Space
Window shading:	S1A -Blinds/Shades and Manually Operated Blackout Shades
Power & Lighting	
User Convenience (excludes outlets for AV, security, etc.):	<ul style="list-style-type: none"> <li>One (1) outlet for control of the classroom projector/interactive board</li> <li>One (1) outlet for telephone at the teacher station</li> <li>One (1) outlet for the intercom system</li> <li>Two (2) outlets at the teacher station for a teacher's computing device and accessory</li> <li>Two (2) outlets for wireless network</li> <li>Four (4) outlets for student use</li> <li>Duplex on walls at twelve feet (12'), recessed floor quad at 10' on center</li> </ul>
Lighting level	L1 - 50 FC at work surfaces and teaching displays with multiple sets
Telecommunications	
Outlet (excludes outlets for AV, security, etc.):	<ul style="list-style-type: none"> <li>One (1) data outlet for control of the classroom projector/interactive board</li> </ul>

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**Performing Arts Space**

	<ul style="list-style-type: none"> <li>• One (1) data outlet for telephone at the teacher station</li> <li>• One (1) data outlet for the intercom system</li> <li>• Two (2) data outlets, and one (1) voice outlet at the teacher station for a teacher's computing device and accessory</li> <li>• Two (2) data outlets for wireless network</li> <li>• One (1) data outlet for the PoE clock</li> </ul>
Sound Reinforcement	Every classroom will be wired for teacher audio enhancement and the audio system should be integrated into the intercom system. The mixed sound will be amplified and sent through the speakers (preferably ceiling mounted).
Wireless Requirements:	TW2 - 2 wireless devices per occupant (based on maximum occupancy)

**ADDITIONAL REQUIREMENTS**

Adequate ventilation and ceiling fans  
 Ceiling Height (25' Minimum)  
 Drinking fountain in adjacent corridor  
 Electrical outlets for equipment  
 Flexibility of space  
 High windows to provide natural light is desirable  
 Multi-level lighting

Finishes:

Flooring:

Wooden floating sub floor

**BUILT-IN FIXTURES:**

Mirrors (6' high 6" from floor)  
 Tack board (16 LF) outside room  
 Marker board (16 LF) with electric outlet below  
 Ceiling fans  
 Student storage and bench near door (cubbies)  
 Adjustable/removable Barres (range 32"-34" up to 44"-46" from floor)

**AUDIO VISUAL EQUIPMENT**

See Educational Technology Requirements

**DRAMA LAB****QUANTITY:**

1

**CAPACITY:**

Students  
Teachers  
Parents/Volunteers  
Members of the community

**SIZE:**

2,600 SF

**ANCILLARY SPACES:**

Costume, prop storage (200)  
Office (120)  
Light booth (30)

**GOAL:**

To provide space for student instruction and rehearsal

**PROGRAM ACTIVITIES:**

Small and large group instruction  
Rehearsal  
Performances

**SPACE REQUIREMENTS**

Construction:	
Min Ceiling Height:	25'-0"
Acoustics:	AC1 - Very High Performance: Performance or Lecture Space
Window shading:	S1A -Blinds/Shades and Manually Operated Blackout Shades
Power & Lighting	
User Convenience (excludes outlets for AV, security, etc.):	<ul style="list-style-type: none"> <li>One (1) outlet for control of the classroom projector/interactive board</li> <li>One (1) outlet for telephone at the teacher station</li> <li>One (1) outlet for the intercom system</li> <li>Two (2) outlets at the teacher station for a teacher's computing device and accessory</li> <li>Two (2) outlets for wireless network</li> <li>Four (4) outlets for student use</li> <li>Duplex on walls at twelve feet (12'), recessed floor quad at 10' on center</li> </ul>
Lighting level	L1 - 50 FC at work surfaces and teaching displays with multiple sets
Telecommunications	



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**Performing Arts Space**

Outlet (excludes outlets for AV, security, etc.):	<ul style="list-style-type: none"> <li>• One (1) data outlet for control of the classroom projector/interactive board</li> <li>• One (1) data outlet for telephone at the teacher station</li> <li>• One (1) data outlet for the intercom system</li> <li>• Two (2) data outlets, and one (1) voice outlet at the teacher station for a teacher's computing device and accessory</li> <li>• Two (2) data outlets for wireless network</li> <li>• One (1) data outlet for the PoE clock</li> </ul>
Sound Reinforcement	Every classroom will be wired for teacher audio enhancement and the audio system should be integrated into the intercom system. The mixed sound will be amplified and sent through the speakers (preferably ceiling mounted).
Wireless Requirements:	TW2 - 2 wireless devices per occupant (based on maximum occupancy)

**ADDITIONAL REQUIREMENTS****HVAC:**

Quiet supply/return air system  
Independent temperature control

**Electrical:**

Duplex receptacles every  
12" on walls  
TVSS protected quad receptacle  
adjacent to each data and  
video port  
Multi-level 'house lights'  
General purpose 'house' lighting  
Light grid with quad outlets  
Clock

**BUILT-IN FIXTURES:**

Curtains on three walls  
Motorized projection screen  
Lighting grid of 1" steel in 3' squares with quad outlets  
Movable wall to cordon-off the classroom area when the larger space is not in use

**LOOSE FURNITURE**

Upright piano  
Student desks and chairs (25)  
Additional folding chairs (50)  
Folding tables (3)

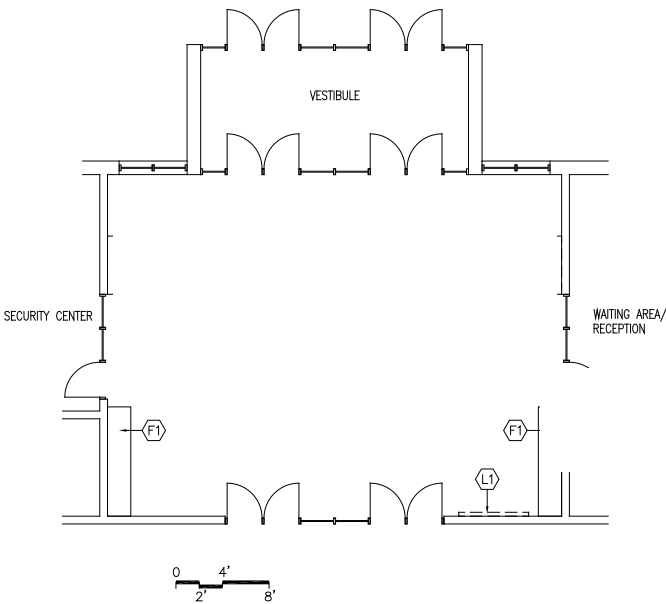
**AUDIO VISUAL EQUIPMENT**

See Educational Technology Requirements

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Physical Education Space

LOBBY



QUANTITY:

1

CAPACITY:

NA

SIZE:

1,000 SF

SPATIAL RELATIONSHIP:

- Adjacent and access to Gymnasium
- Access to group toilets
- Water Fountain
- Awning outside door for gathering during inclement weather

GOAL:

To provide a standing area before games and events.

SPACE REQUIREMENTS

Construction:	
Min Ceiling Height:	12'
Acoustics:	AC7 - Public Space
Power & Lighting	
User Convenience (excludes outlets for AV, security, etc.):	Duplex on perimeter walls at twelve feet (12'). One outlet per CCTV camera position
Lighting level	L5 - 25 FC ambient with focus lighting areas
Telecommunications	

**Physical Education Space**

Outlet (excludes outlets for AV, security, etc.):	None
Wireless Requirements:	TW2 - 2 wireless devices per occupant (based on maximum occupancy)

**ADDITIONAL REQUIREMENTS**

**BUILT-IN FIXTURES:**

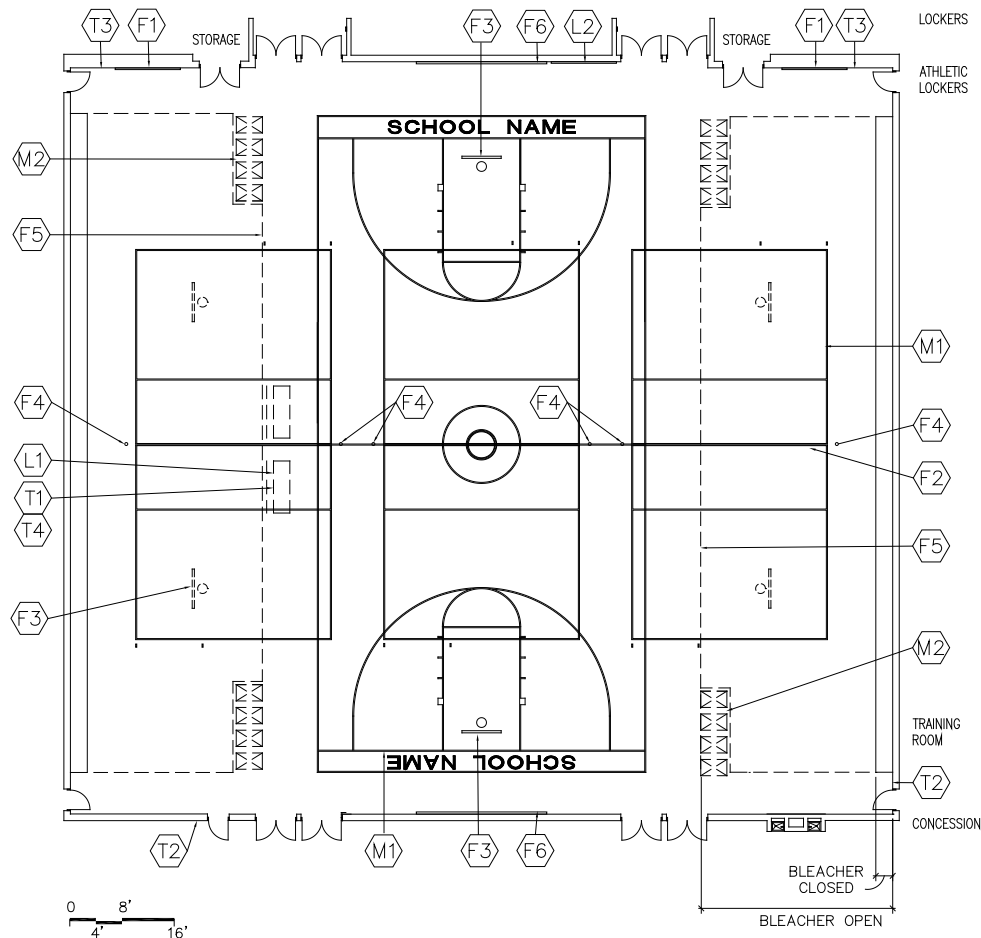
- F1 Display cases
- L1 Electronic board
- Security desk/counter with workstation (optional)

**LOOSE FURNISHINGS:**

**AUDIO VISUAL EQUIPMENT**

See Educational Technology Requirements

GYMNASIUM



QUANTITY:

1

CAPACITY:

50-600 Students  
2-4 Teachers

SIZE:

5,800 SF  
2,400 SF Bleachers

ANCILLARY SPACES:

PE Locker Rooms/Showers  
Storage

SPATIAL RELATIONSHIPS:

Direct access to outdoor athletic fields  
Near visitor parking and public

**PROGRAM ACTIVITIES:**

Community programs and activities, secured  
 Interscholastic competition and daily practices  
 Physical education classes

**SPACE REQUIREMENTS**

Construction:	
Min Ceiling Height:	25'-0" Full Clear height with no obstructions
Acoustics:	See Additional Requirements
Window shading:	S1A -Blinds/Shades and Manually Operated Blackout Shades
Plumbing:	
Fixture Type:	Drinking fountain in adjacent corridor
Power & Lighting	
User Convenience (excludes outlets for AV, security, etc.):	Duplex on walls at twelve feet (12')
Lighting level	See Additional Requirements
Telecommunications	
Outlet (excludes outlets for AV, security, etc.):	One data drop on perimeter walls at max 12' on center.
Wireless Requirements:	TW2 - 2 wireless devices per occupant (based on maximum occupancy)

**ADDITIONAL REQUIREMENTS**

Clear height of 25' from floor to nearest obstruction  
 Drinking fountain in adjacent corridor  
 Environmental sound control:  
 Wall minimum: STC 60 between gymnasium and any acoustically sensitive space such as classroom or office. In addition, design space to minimize transmission of impact noise  
 Maximum RT 60 (reverberation) of 1.5 seconds  
 Must be able to isolate the gymnasium from the rest of the school after hours  
 The architect shall work with the coach for specific location for data drop.  
 The walls and ceilings will require acoustical treatment.  
 Uniform lighting with multilevel controls

Finishes:

Flooring:

Wood strip flooring for athletic applications

M1 Court markings (minimum)

Basketball court (main/cross courts)

Volleyball court (main/cross courts)

Tennis court (cross courts)

The gymnasium includes a 50 x 94 ft. basketball court with 6' safety perimeter on the sides and 8' safety perimeter on the ends.

Must be able to isolate the gymnasium from the rest of the school after hours

Gymnasium Lighting

**BUILT-IN FIXTURES:**

A quality P/A sound system to service the gymnasium shall be provided.

Clock (with protective cage)

Padding on walls behind the goals and on the backboards shall be provided.

Provide block outs for three sets of volleyball standards and nets.

Provide dividing curtain to create two basketball courts when the bleachers are withdrawn

Some tack strips on the walls are required to fasten banners.

The bleacher seating shall be electrically operated & fold back to provide a flat surface.

The gymnasium will require a multi-sport scoreboard.

The gymnasium will require Glass lexan basketball backboard (2), with break-away rims, forward swing, main court, Fiberglass basketball backboard (4), forward swing, side, cross court. Each backboard (6) is to be raised and lowered electrically and shall retract away from bleachers.

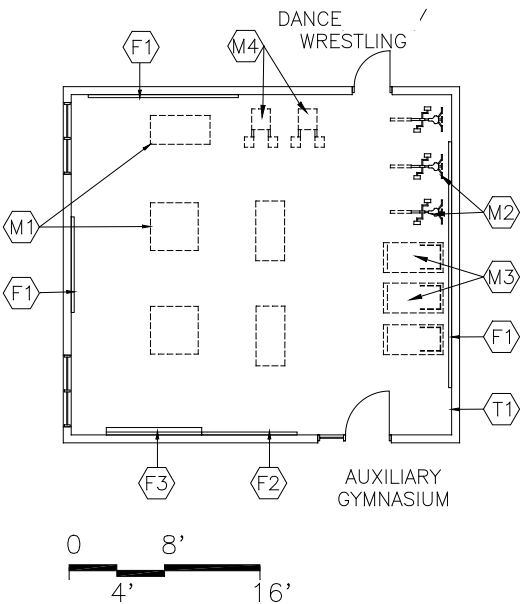
Two white boards with electrical outlets on either side of the curtain.

**LOOSE FURNISHINGS:**

**AUDIO VISUAL EQUIPMENT**

See Educational Technology Requirements

WELLNESS LAB



QUANTITY:

1

CAPACITY:

25 Students  
1 Teachers

SIZE:

900 SF

GOAL:

To serve as a wellness/workout area for the health curriculum

PROGRAM ACTIVITIES:

Physical education classes learning to develop muscular, respiratory, and cardiovascular systems  
Community and staff members learning to develop and maintain health and fitness

SPACE REQUIREMENTS

Construction:	
Min Ceiling Height:	9'-0"
Acoustics:	AC7 - Public Space
Window shading:	S1 - Roller Shades, 5% Open
Plumbing:	
Fixture Type:	Drinking fountain, water bottle filling station
Power & Lighting	
User Convenience (excludes outlets for AV, security, etc.):	Outlets in numbers, and spaced as needed for equipment.
Lighting level	L8 - 15 FC ambient



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**Physical Education Space**

Telecommunications	
Outlet (excludes outlets for AV, security, etc.):	One (1) data drop and one (1) duplex data outlet per floor box (15 per room).
Wireless Requirements:	TW1 - 1 wireless device per occupant (based on maximum occupancy)

**ADDITIONAL REQUIREMENTS**

Adequate ventilation  
Electrical outlets for equipment  
Flexibility of space  
Windows to provide natural light

Finishes:

Flooring:

Resilient athletic flooring

**BUILT-IN FIXTURES:**

F1 Mirrors  
F2 Tack board (8 LF)  
F3 Marker board (8 LF) with electric outlet  
Ceiling fans

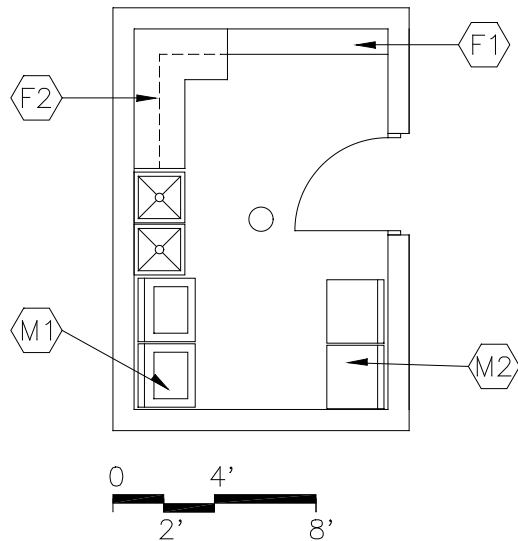
**LOOSE FURNISHINGS:**

M1 Exercise equipment (See Appendix D)  
M2-3 Aerobic Equipment (See Appendix D)

**AUDIO VISUAL EQUIPMENT**

See Educational Technology Requirements

**LAUNDRY**



**QUANTITY:**

1

**CAPACITY:**

1-2 Teachers

**SIZE:**

100 SF

**SPATIAL RELATIONSHIPS:**

Near PE Locker Room/Showers  
Near Athletic Lockers

**GOAL:**

To provide space to wash/dry athletic/PE garments, towels, etc.

**PROGRAM ACTIVITY:**

Washing and drying clothes

**SPACE REQUIREMENTS**

Construction:	
Min Ceiling Height:	9'-0"
Acoustics:	AC7 - Public Space
Plumbing:	
Fixture Type:	Utility sink
Piped services:	Potable hot & cold water, natural gas for driers, laundry hook-up
Special drains:	Floor drains; floors slope to drain
Power & Lighting	

---

**Physical Education Space**

User Convenience (excludes outlets for AV, security, etc.):	As needed for laundry equipment
Power density:	PW4 - 8W/ASF
Lighting level	L6 - 40 FC ambient, 70 FC at any service points or equipment
Lighting control	LC6 - Workrooms / Utility
Telecommunications	
Outlet (excludes outlets for AV, security, etc.):	None
Wireless Requirements:	TW1 - 1 wireless device per occupant (based on maximum occupancy)
<b>SPECIALTIES</b>	
Special features:	Built in base cabinet and work counter, 30" deep, 8' min length, paper towel holder, soap dispenser

**ADDITIONAL REQUIREMENTS**

Adequate ventilation/exhaust

**BUILT-IN FIXTURES:**

- F1 Rust-resistant 12" deep shelving
- F2 Casework: Base/wall cabinets and shelving

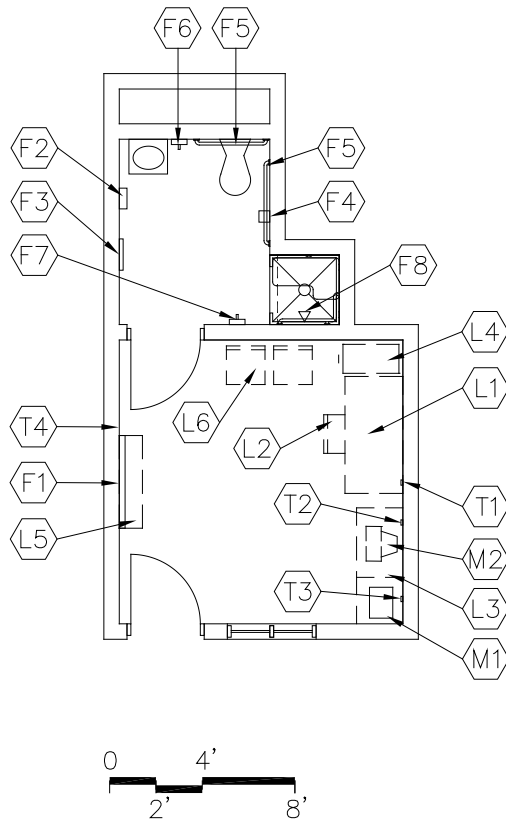
**LOOSE FURNISHINGS:**

- M1 Heavy Duty washers (1)
- M2 Heavy Duty dryers (1)
- Ice machine

**AUDIO VISUAL EQUIPMENT**

None

**OFFICES (DEPARTMENT/ ATHLETIC)**



**QUANTITY:**

3

**CAPACITY:**

1-2 Teachers  
Visitors

**SIZE:**

150 SF (including toilet/shower)

**SPATIAL RELATIONSHIP:**

Near Locker Rooms/Shower  
Window and door into the locker rooms (with shades)

**GOAL:**

To provide a work area for physical education teachers and staff to conduct administrative duties

**PROGRAM ACTIVITIES:**

Meeting  
Ordering  
Planning  
Scheduling

**SPACE REQUIREMENTS**

Construction:	
Min Ceiling Height:	9'-0"
Acoustics:	AC3 - Medium Performance: Closed Office
Window shading:	S1 - Roller Shades, 5% Open
Plumbing:	
Fixture Type:	Lavatory and Water Closet
Power & Lighting	
User Convenience (excludes outlets for AV, security, etc.):	2 duplex per wall on three of four walls in the office, single GFI/Shaver outlet in restroom
Lighting level	L2 - 35 FC at work surfaces
Telecommunications	
Outlet (excludes outlets for AV, security, etc.):	One standard data drop on two walls
Wireless Requirements:	TW2 - 2 wireless devices per occupant (based on maximum occupancy)
ADDITIONAL REQUIREMENTS	
The office must be directly connected to a single-user restroom (Restroom: Gender Inclusive w/shower). Assignable Area includes both office space (180 ASF) and restroom space (50 ASF)	

**ADDITIONAL REQUIREMENTS****BUILT-IN FIXTURES:**

- F1 Tack board (4 LF)
- F2 Towel dispenser
- F3 24" x 60" mirror
- F4 Toilet tissue holder
- F5 36" and 42" grab bars
- F6 Soap dispenser
- F7 Towel rack

**LOOSE FURNISHINGS:**

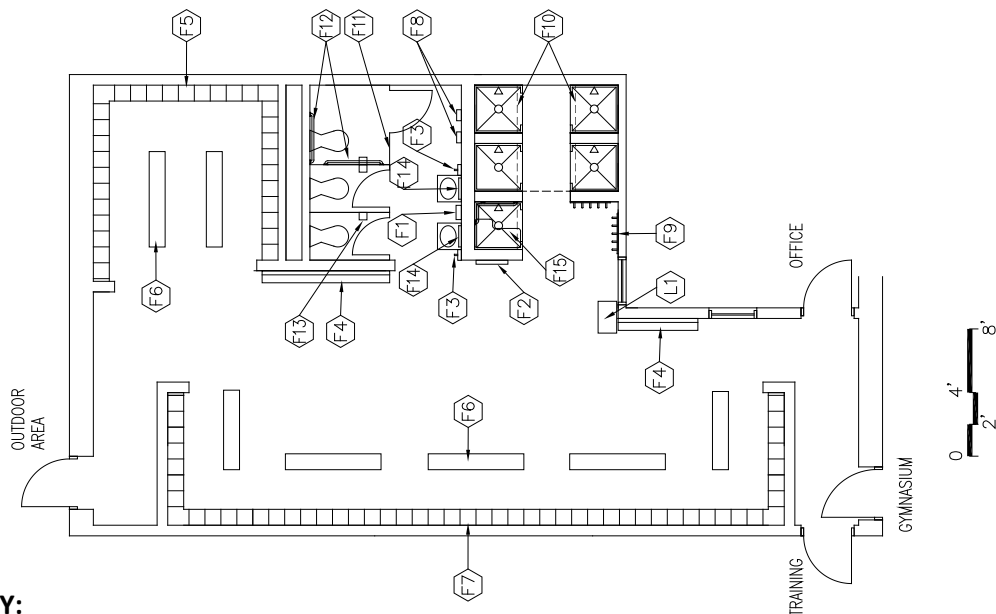
- L1 Desk
- L2 Ergonomic task chair
- L3 Computer workstation
- L4 4-drawer file cabinet
- L5 Adjustable height bookshelves (12 LF)
- L6 Guest chairs
- Teachers' Mobile Cart for Technology
- Miscellaneous Equipment (provided by owner):
  - M1 Printer
  - M2 Computer for teacher use

**AUDIO VISUAL EQUIPMENT**

See Educational Technology Requirements



PE LOCKER ROOM/SHOWERS



QUANTITY:

2

CAPACITY:

- 50 Students
- 1 Teachers

SIZE:

850 SF

ANCILLARY SPACES:

Adjacent and access to Gymnasium

SPATIAL RELATIONSHIP:

- Near Locker Rooms/Showers
- Window and door into the locker rooms (with shades)

GOAL:

To provide a safe and clean area for students to change, store clothes, and shower

PROGRAM ACTIVITIES:

- Change clothing
- Clothing storage
- Showering

SPACE REQUIREMENTS

Construction:	
Min Ceiling Height:	9'-0"
Acoustics:	AC7 - Public Space

---

**Physical Education Space**

<b>Power &amp; Lighting</b>	
User Convenience (excludes outlets for AV, security, etc.):	1 duplex outlet per sink
Lighting level	L7 - 25 FC ambient
<b>Telecommunications</b>	
Outlet (excludes outlets for AV, security, etc.):	One standard data drop per room
Wireless Requirements:	
<b>SPECIALTIES</b>	
Special features:	Partitions between changing areas

**ADDITIONAL REQUIREMENTS**

Adequate ventilation/exhaust  
 Cleanable building surfaces  
 Humidity controls  
 Locate lockers on wall outside of toilet shower room  
 Minimize isolated areas  
 Temperature controls in each area  
 Towel storage in adjacent area

**BUILT-IN FIXTURES:**

F1 Towel dispenser  
 F2 24" x 60" mirror  
 F3 Soap dispenser  
 F4 Narrow counter with mirror above  
 F5 Athletic lockers (30 athletic)  
 F6 Locker benches  
 F7 Athletic lockers (50 Phys Ed)  
 F8 Hand dryer  
 F9 Towel hooks  
 F10 Shower curtain and rod  
 F11 Toilet partitions  
 F12 36" x 42" grab bars  
 F13 Toilet tissue holders  
 F14 16" x 24" mirror  
 F15 ADA shower accessories (note: 2-3 individual showers)

**LOOSE FURNISHINGS:**

None

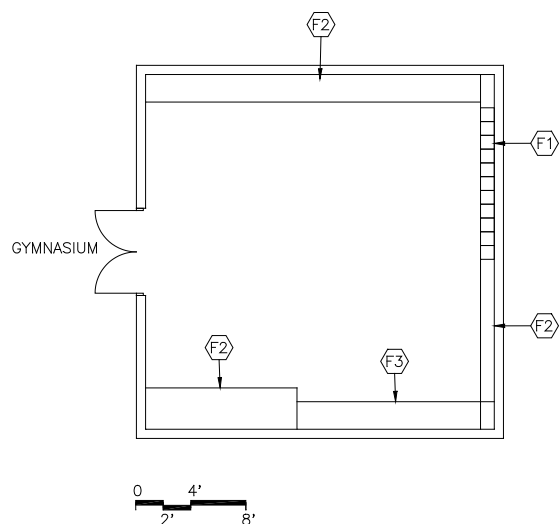
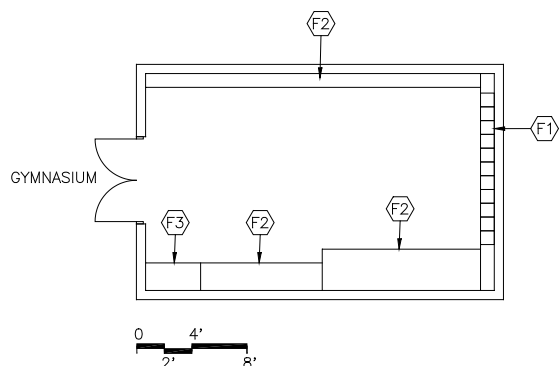
**AUDIO VISUAL EQUIPMENT**

See Educational Technology Requirements





## STORAGE



### QUANTITY:

3

### SIZE:

Varies (900 SF total)

### SPATIAL RELATIONSHIPS:

Adjacent and access to Gymnasium

Adjacent and access to Auxiliary Gymnasium (may be used for JROTC uniform storage)

Near PE areas

### GOAL:

To provide space to adequately store PE and athletic equipment (PE and athletic equipment needs to be stored separately)

### PROGRAM ACTIVITIES:

Storage for equipment

Storing sound system and other equipment in the physical education/athletic area

**SPACE REQUIREMENTS**

Construction:	
Min Ceiling Height:	9'-0"
Acoustics:	AC8 - Utility Space
Power & Lighting	
User Convenience (excludes outlets for AV, security, etc.):	Duplex on perimeter walls, min one per wall
Lighting level	L6 - 40 FC ambient, 70 FC at any service points or equipment
Telecommunications	
Outlet (excludes outlets for AV, security, etc.):	None
Wireless Requirements:	TW1 - 1 wireless device per occupant (based on maximum occupancy)

**ADDITIONAL REQUIREMENTS**

Climate control to dry uniforms and other equipment which get wet during use

Electrical outlets for equipment

Provide secure storage

Separate storage areas for inactive sports, physical education, and athletics

**BUILT-IN FIXTURES:**

F1 Pegboard

F2 12" shelving

F3 18" shelving

**LOOSE FURNISHINGS:****AUDIO VISUAL EQUIPMENT**

None

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**Student Dining/ Food Services Space**

**Student Dining & Food Service Space**

This area will be used for student dining, group activities, and community meetings. It is proposed through creative design that this area will effectively house multiple functions.

**Space Requirements**

Adjacency Requirements

Centrally located to Administration, Gymnasium, Main Academic, and Media Center

Near parking and main entry to building

**General**

The developer shall design and construct a complete and fully functional food service facility to serve up to 1,000 meals per mealtime, with 400 seated at any one time.

Food service shall be from multiple counters in a single food service area ("food court" style), with check-out Point of Sale (POS) positions at the exit from the food service area

The kitchen and food service shall be able to be closed off from the dining room/commons with lockable doors or grilles. Physical closure shall allow for community use of the dining room/commons concurrently with food preparation and/or food service preparation without disruption by noise, odors, etc.

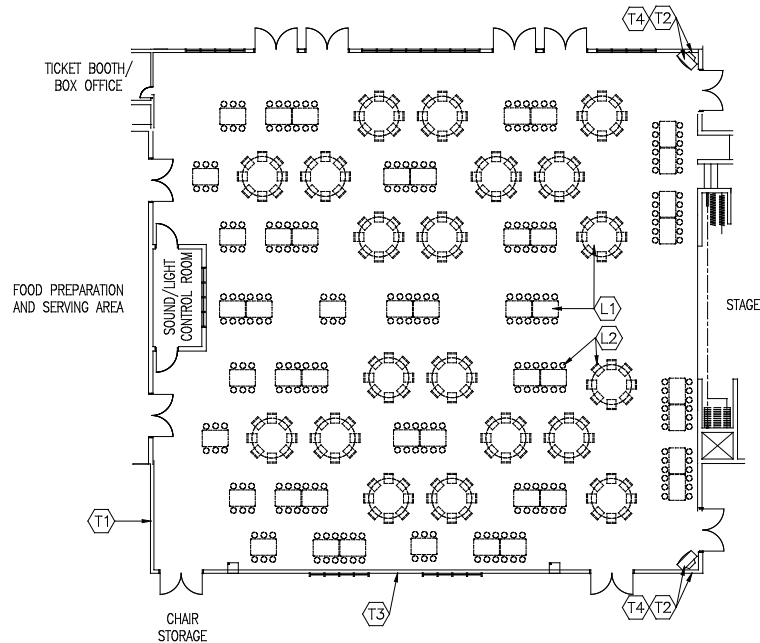
The cafeteria and serving lines shall be well lit with natural and artificial light. The ceiling height shall be balanced with the overall volume (14' minimum) and treated acoustically.

Provide a variety of seating options, including outside seating.

Provide electrical outlets for charging mobile devices around the room

Provide at least 2 permanently mounted, white boards and electrical outlets for mobile projectors would support 'break-out' discussions

## CAFETERIA / COMMONS



### CAPACITY:

Up to 400 people for meals

Up to 600 people for auditorium seating

### SIZE:

6,000 SF

### GOALS:

To provide a pleasant atmosphere for students to eat meals

To provide a flexible meeting space for groups if needed

### SPATIAL RELATIONSHIPS:

Adjacent and access to Kitchen

Centrally located to Administration, Gymnasium, Main Academic, and Media Center

Near parking and main entry to building

### SPACE REQUIREMENTS

Construction:	
Min Ceiling Height:	18'-0"
Acoustics:	AC7 - Public Space
Power & Lighting	
User Convenience (excludes outlets for AV, security, etc.):	
Lighting level	L5 - 25 FC ambient with focus lighting areas
Telecommunications	

---

**Student Dining/ Food Services Space**

Outlet (excludes outlets for AV, security, etc.):	One data drop on perimeter walls at max 12' on center
Wireless Requirements:	TW2 - 2 wireless devices per occupant (based on maximum occupancy)

**ADDITIONAL REQUIREMENTS**

Adjust space and materials to manage acoustics; provide sound system

Adjustable lighting

Cleanable building surfaces

Good sight lines to all areas of the room for supervision

Proportion ceiling to volume

Window treatment to darken room for AV presentations.

Windows to provide ample natural light

Good sight lines to all areas of the room for supervision

Identify 2 locations for presentations for up to 100 people (screen and electricity barrier-free)

Identify location and electricity for satellite salad bar w/ cash register

**BUILT-IN FIXTURES:****LOOSE FURNISHINGS:**

L1/2 Foldable Tables with attached seating (variety of shapes and heights) Consider some high top and bench seating

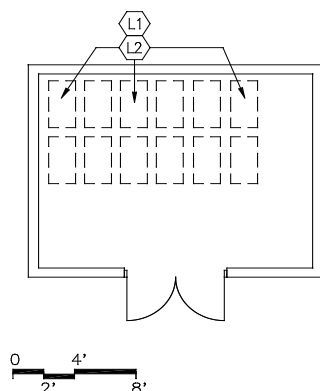
Portable sound system

Waste receptacles with lids

Recycling bins

**AUDIO VISUAL EQUIPMENT**

See Educational Technology Requirements

**CHAIR/ TABLE STORAGE****QUANTITY:**

1

**CAPACITY:**

600 Chairs

**SIZE:**

600 SF

**SPATIAL RELATIONSHIPS:**

Adjacent and access to Student Dining Area/Multipurpose

**GOAL:**

To provide convenient storage of dining chairs and tables to be used for meetings and performances

**PROGRAM ACTIVITY:**

Storage

**SPACE REQUIREMENTS**

Construction:	
Min Ceiling Height:	9'-0"
Acoustics:	AC8 - Utility Space
Power & Lighting	
User Convenience (excludes outlets for AV, security, etc.):	Duplex on perimeter walls, min one per wall
Lighting level	L6 - 40 FC ambient, 70 FC at any service points or equipment
Telecommunications	
Outlet (excludes outlets for AV, security, etc.):	None

---

**Student Dining/ Food Services Space**

Wireless Requirements:	TW1 - 1 wireless device per occupant (based on maximum occupancy)
------------------------	---

**ADDITIONAL REQUIREMENTS**

None

**BUILT-IN FIXTURES:**

None

**LOOSE FURNISHINGS:**

- L1 600 Stackable Chairs
- L2 Chair dollies per above count

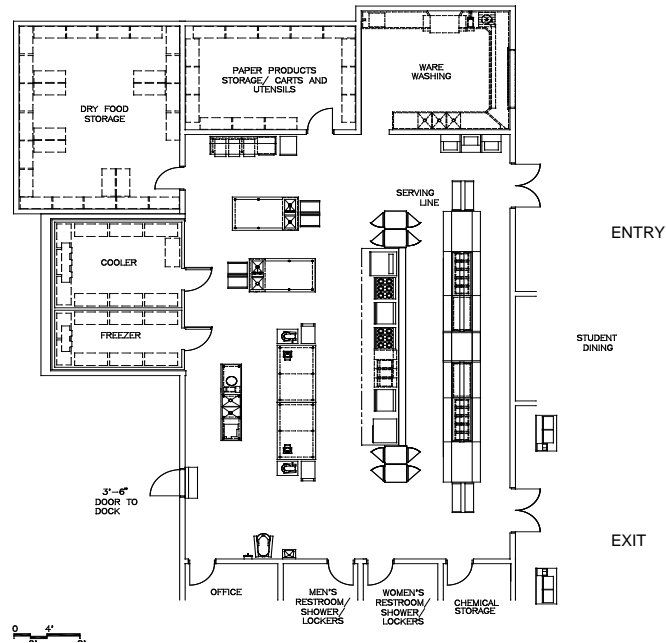
**AUDIO VISUAL EQUIPMENT**

None



**Student Dining/ Food Services Space**

**KITCHEN**



**QUANTITY:**

1

**CAPACITY:**

Up to 12 People

**SIZE:**

2,000 SF

**GOAL:**

To prepare and serve student meals (80% of 1200=960)

**PROGRAM ACTIVITIES:**

Preparing and serving food to students and staff  
Storage

**SPATIAL RELATIONSHIPS:**

Adjacent and access to Cafeteria/Commons  
Adjacent and access to Outdoor Loading Dock

**SPACE REQUIREMENTS**

See requirements included in Technical Performance Requirement

Features-(Specifications from PGCPs):

Kitchen

---

**Student Dining/ Food Services Space**

Food Preparation Area	900
Dry Food Storage	400
Freezer & Cooler	300
Pot/Tray Washing	300
Paper storage	100

**Plumbing Features:**

- Connections to food service equipment
- Floor drains
- Hand washing lavatory
- Plumbing and gas connections

**HVAC Features:**

- Air conditioning
- Independent temperature control
- Kitchen canopy exhaust system
- Supply/return air system

**ADDITIONAL REQUIREMENTS**

- Adequate ventilation
- Beginning of serving line should be located near entry door of Cafeteria/Commons
- Cleanable building surfaces
- Food service department, public health, code requirements, as applicable
- Queuing for serving should not conflict with tray return to dishwashing area.
- Uniform lighting

**BUILT-IN FIXTURES:**

- Hand Sink (5)
- Soap & Towel Dispenser (5)
- Walk in Cooler/Freezer
- Cooler Refrigeration System
- Freezer Refrigeration System
- Prep Sink
- Floor Trough
- Tilting Skillet 30-Gallon
- Comb Oven
- Convection Oven (2)
- Counters for serving with Cashier's Stand (3)
- Pot Washing Sink

**LOOSE FURNISHINGS:**

- Utility carts mobile (3)
- Dunnage Rack (3)
- Mobile shelving (14)
- Can Rack (2)

---

**Student Dining/ Food Services Space**

Worktables (3)

Reach In refrigerator (2)

Pass thru refrigerator, mobile (3)

Pass thru heated cabinet, mobile (3)

Milk cooler, mobile (3)

Refrigerated display (3)

Condiment Counter, mobile (2)

Pot and Pan shelving, mobile (2)

Railings for service lines (3)

Note: Model and vendor will be reviewed with kitchen consultant

**AUDIO VISUAL EQUIPMENT**

None

1

Up to 2 people

120 SF

Adjacent and visual to Kitchen or Receiving area

To provide an office for the staff to perform clerical functions

- Computer input
- Conferences with staff and other visitors
- Paperwork
- Planning
- Telephone calls

Construction:	
Min Ceiling Height:	9'-0"
Acoustics:	AC3 - Medium Performance: Closed Office
Window shading:	S1 - Roller Shades, 5% Open

---

**Student Dining/ Food Services Space**

<b>Power &amp; Lighting</b>	
User Convenience (excludes outlets for AV, security, etc.):	2 duplex per wall on three of four walls
Lighting level	L2 - 35 FC at work surfaces
<b>Telecommunications</b>	
Outlet (excludes outlets for AV, security, etc.):	One standard data drop on two side walls
Wireless Requirements:	TW2 - 2 wireless devices per occupant (based on maximum occupancy)

**ADDITIONAL REQUIREMENTS****BUILT-IN FIXTURES:**

F1 Tack board

**LOOSE FURNISHINGS:**

L1 1-2 desks

L2 1-2 ergonomic task chairs

L3 2 4-drawer file cabinets

L4 Printer table

Guest chair

Miscellaneous Equipment (provided by owner):

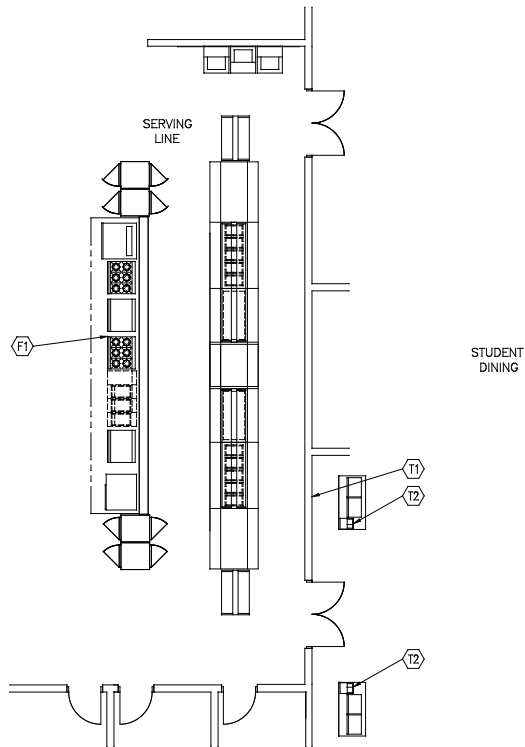
M1 Printer

M2 Computer

**AUDIO VISUAL EQUIPMENT**

See Educational Technology Requirements

**SERVING AREA**



**QUANTITY:**

1

**SIZE:**

1,000 SF

**SPATIAL RELATIONSHIPS:**

Adjacent and access to the Kitchen

Adjacent and access to the Cafeteria/ Commons

**GOAL:**

To provide space and equipment to serve student meals

**PROGRAM ACTIVITIES:**

Serve food

**SPACE REQUIREMENTS**

Identify location and electricity for satellite salad bar w/ cash register. Provide plumbing, power and data infrastructure to support future development. Plumbing shall include provision of hot and cold water service, sanitary waste and vent to proposed location, capped in a floor box or knock-out.

---

**Student Dining/ Food Services Space**

Power shall include provision of empty conduit home run to panelboard and inclusion of four spaces in the panelboard. Data shall include provision of empty conduit to base building raceway.

**DESIGN GUIDE:**

'Food court' serving lines: TBD

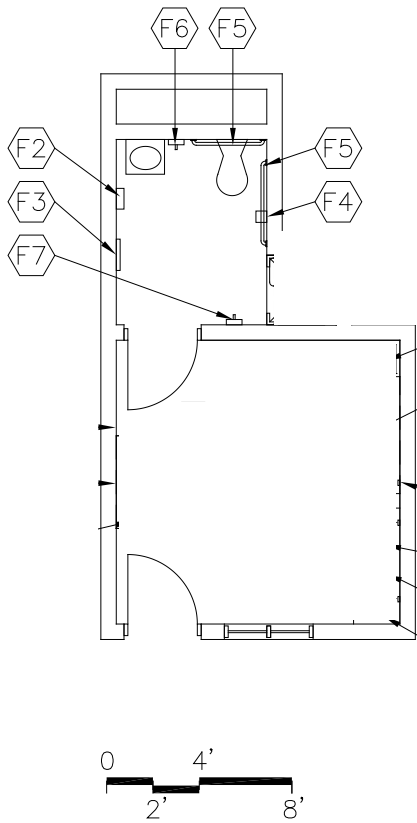
All lines have drinks and misc. items

Sample Lines and equipment needs below:



- Additional satellite services may be able to provide a salad bar or pre-made items

**TOILET/ LOCKER AREA**



**QUANTITY:**

2

**CAPACITY:**

Kitchen Staff: Separate Male and Female rooms

**SIZE:**

100 SF

**SPATIAL RELATIONSHIP:**

Adjacent to Kitchen/ Serving Area

**GOAL:**

To provide an area for kitchen staff to change and clean-up before and after work.

**PROGRAM ACTIVITIES:**

Changing  
Resting



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**Student Dining/ Food Services Space**
**SPACE REQUIREMENTS**

Construction:	
Min Ceiling Height:	9'-0"
Acoustics:	AC3 - Medium Performance: Closed Office
Plumbing:	
Fixture Type:	Lavatory and Water Closet
Power & Lighting	
User Convenience (excludes outlets for AV, security, etc.):	2 duplex per wall on three of four walls in the office, single GFI/Shaver outlet in restroom
Lighting level	L2 - 35 FC at work surfaces
Telecommunications	
Outlet (excludes outlets for AV, security, etc.):	One standard data drop on two walls
Wireless Requirements:	TW2 - 2 wireless devices per occupant (based on maximum occupancy)
ADDITIONAL REQUIREMENTS	
The office must be directly connected to a single-user restroom (Restroom: Gender Inclusive w/shower). Assignable Area includes both office space (180 ASF) and restroom space (50 ASF)	

**ADDITIONAL REQUIREMENTS****BUILT-IN FIXTURES:**

- F2 Towel dispenser
- F3 24" x 60" mirror
- F4 Toilet tissue holder
- F5 36" and 42" grab bars
- F6 Soap dispenser
- F7 Towel rack

**LOOSE FURNISHINGS:**

Benches and lockable lockers

**AUDIO VISUAL EQUIPMENT**

None

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Visual Arts Space

**MULTI-PURPOSE STUDIO****QUANTITY:**

2

**CAPACITY:**

28 Students

1 Staff member

**SIZE:**

1,300 SF

**ANCILLARY SPACES:**

Storage

**GOAL:**

To provide a learning environment where students can learn two dimensional art and create their own art pieces

**PROGRAM ACTIVITIES:**

Art history and culture  
 Computer graphics and internet access  
 Cooperative group work  
 Drawing/Painting  
 Viewing of slides/DVDs

Note: Second art room may be 3D, graphics, or other medium

**SPACE REQUIREMENTS**

Construction:	
Min Ceiling Height:	10'-0"
Acoustics:	AC5 - Labs and Workshops
Window shading:	S1A -Blinds/Shades and Manually Operated Blackout Shades
Power & Lighting	
User Convenience (excludes outlets for AV, security, etc.):	<ul style="list-style-type: none"> <li>One (1) outlet for control of the classroom projector/interactive board</li> <li>One (1) outlet for telephone at the teacher station</li> <li>One (1) outlet for the intercom system</li> <li>Two (2) outlets at the teacher station for a teacher's computing device and accessory</li> <li>Two (2) outlets for wireless network</li> <li>Four (4) outlets for student use</li> </ul> Duplex on walls at twelve feet (12'), recessed floor quad at 10' on center
Lighting level	L1 - 50 FC at work surfaces and teaching displays with multiple sets
Telecommunications	

Outlet (excludes outlets for AV, security, etc.):	<ul style="list-style-type: none"> <li>One (1) data outlet for control of the classroom projector/interactive board</li> <li>One (1) data outlet for telephone at the teacher station</li> <li>One (1) data outlet for the intercom system</li> <li>Two (2) data outlets, and one (1) voice outlet at the teacher station for a teacher's computing device and accessory</li> <li>Two (2) data outlets for wireless network</li> </ul>
Wireless Requirements:	One (1) data outlet for the PoE clock TW2 - 2 wireless devices per occupant (based on maximum occupancy)

**ADDITIONAL REQUIREMENTS****Access**

Studios shall have clear path of travel to exterior loading areas to allow for movement of large or heavy objects. For planning purposes, largest object size to be accommodated shall be 4' x 4' in plan and 7' in height. Access to exterior may be from second floor via elevator

**Daylighting**

Studios shall be oriented to provide maximum north light daylighting. Ceiling height and glazing shall be such as to provide a minimum of 10 footcandles (fc) and a maximum of 500 fc in a clear sky condition on September 21 at 9 a.m. and 3 p.m. for the full floor area.

**Plumbing**

Provide sink with hot and cold water, one island to hold four sinks, (54" x 54") overall dimensions, each sink cabinet bases with two sink bowls. Each sink bowl should be ten (10") deep x thirty-two (32") across and sixteen (16") wide with one faucet, each having a hot and cold water faucet.

Provide storage with shelves below sinks in cabinets with a minimum of 2-drawers on each side. Provide clay and plaster traps at each sink.

**Lighting**

Provide full spectrum adjustable ambient lighting

Provide track lighting on three of four walls. Each track shall support four (4) controllable circuits. Individual light fixtures shall be owner supplied and installed with the first display set.

**BUILT-IN FIXTURES:**

Marker board (16 LF)

Tack board (12-24 LF)

Tack strip on all walls at two heights (or trackable surface)

Casework: Base/wall cabinets and shelving

Paper storage

Vertical files (30" x 40" work)

Towel and soap dispenser

**LOOSE FURNISHINGS:**

7 worktables (seat 4)

4 Computer workstations (MACs)

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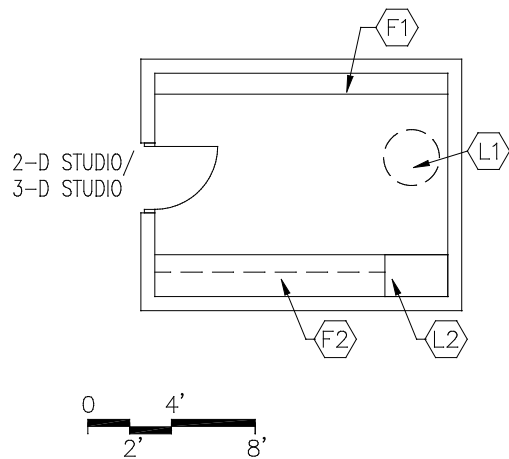
**Visual Arts Space**

28 stools  
Adjustable height bookshelves (24 LF)  
Project storage lockers (60 lockers for 3D and 2D)  
Teacher desk and chair  
Cabinets w/ drying racks  
Movable art display panels  
Light table  
Extra worktable

**AUDIO VISUAL EQUIPMENT**

See Educational Technology Requirements

KILN ROOM



QUANTITY:

1

SIZE:

100 SF

SPATIAL RELATIONSHIPS:

Adjacent and access to 3-D Studio

GOAL:

To provide a space to fire and store completed clay work and clay bins

PROGRAM ACTIVITIES:

- Firing the kiln
- Storing ceramics work

SPACE REQUIREMENTS

Construction:	
Min Ceiling Height:	16'-0"
Acoustics:	AC5 - Labs and Workshops
Power & Lighting	
User Convenience (excludes outlets for AV, security, etc.):	Duplex on walls at twelve feet (12')
Lighting level	L1 - 50 FC at work surfaces and teaching displays with multiple sets
Telecommunications	
Outlet (excludes outlets for AV, security, etc.):	One data drop on one wall
Wireless Requirements:	TW2 - 2 wireless devices per occupant (based on maximum occupancy)

**ADDITIONAL REQUIREMENTS**

This room will house the ceramic kilns for firing. A supply of moist clay in 50-pound boxes will be kept there. Two portable clay containers and the clay supply cart will be parked in this room. Projects ready for firing will be stored to dry on adjustable metal shelving located around the room. The storage of kiln shelves, shelf supports, cones, and kiln wash will be kept in a cabinet. A shop-type vacuum cleaner will be stored here. Above the kiln will be an exhaust ventilation hood adequate for effective ventilation direct to the outside when the kiln is in use. This door should have a lock with key. A damp cabinet should be placed in this room. The kiln room serves as both the kiln room and the supply storage.

Provide a heat exhaust system for the kiln room, including a canopy exhaust hood over kiln location and adequate make-up air supply to maintain acceptable room pressurization, temperature and humidity.

Provide storage racks to hold

- A supply of moist clay in 50-pound boxes
- Portable clay containers and the clay supply cart
- Projects ready for firing (greenware)
- Kiln shelves, shelf supports, cones, and kiln wash
- A damp cabinet should be placed in this room.

**BUILT-IN FIXTURES:**

- F1 Storage shelving (12" deep)
- F2 Casework: Base/wall cabinets and shelving

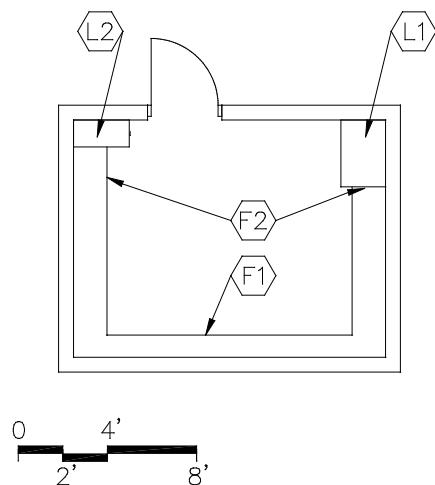
**LOOSE FURNISHINGS:**

- L1 2 Kiln
- L2 Greenware shelving

**AUDIO VISUAL EQUIPMENT**

None

STORAGE



QUANTITY:

2

SIZE:

200 SF

SPATIAL RELATIONSHIPS:

Adjacent and access to 3-D Studio

GOAL:

To provide secure and adequate space to store art supplies, portable equipment, technology peripherals, and materials

PROGRAM ACTIVITIES:

Storage of equipment, supplies, and projects

SPACE REQUIREMENTS

Construction:	
Min Ceiling Height:	9'-0"
Acoustics:	AC8 - Utility Space
Window shading:	None
Power & Lighting	
User Convenience (excludes outlets for AV, security, etc.):	Duplex on perimeter walls, min one per wall
Lighting level	L6 - 40 FC ambient, 70 FC at any service points or equipment
Telecommunications	
Outlet (excludes outlets for AV, security, etc.):	None



Wireless Requirements:	TW1 - 1 wireless device per occupant (based on maximum occupancy)
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**ADDITIONAL REQUIREMENTS**

**BUILT-IN FIXTURES:**

- F1 Storage shelving (12" deep)
- F2 Storage shelving (18" deep)

**LOOSE FURNISHINGS:**

- L1 Greenware Shelving
- L2 4-drawer file cabinet (legal)

**AUDIO VISUAL EQUIPMENT**

None

**Athletic Fields Space Specifications****A. GENERAL**

1. Provide 1 multipurpose field as a minimum. Optimum site development should include 1 softball field and 1 baseball field as well.
3. Provide grading of fields with a 1 percent to 1-1/2 percent slope.

**B. SOFTBALL FIELD**

1. Provide 200 feet to 225 feet softball field radius. See Figure B-1.
2. Provide a backstop having a 17-foot 6-inch overhang height and a 10-foot high by 20-foot wide back panel with 10-foot wide side panels. Locate backstop a minimum of 25 feet and a maximum of 30 feet behind home plate.
3. Provide 6-foot high chain link player protection fence when separate field is included.
4. Consider 8-foot high chain link outfield fencing, foul poles, and top rail protective pad for competition fields when separate field is included.
5. Provide player benches (2 X 60 LF), set back from side fence line.

**C. MULTIPURPOSE FIELD**

1. Grading is to crown at center of field and slope to sidelines.
2. Consider future underdrains and irrigation.
3. Provide portable or combination football/soccer goals.
4. Provide 195 feet wide by 360 feet long multipurpose field.
5. Provide player benches (2 X 60 LF), Spectator seating (120 LF)

**D. BASEBALL FIELD**

1. Verify radius required based on program use of field. Estimate of area needed is based on 360' radius to center field and 335' to right and left outfield.
2. Plan for infield area in compliance with High School Athletic Association guidelines.
3. Plan for 24-foot high backstop a minimum of 60 feet from home plate.
4. Plan for a protection fence that is 6-foot high chain link fence offset 60 feet from first and third base lines.

5. Consider outfield fencing that is 8-foot high chain link fence with top rail protective pad between foul lines for competition fields. Plan for foul poles.
6. Provide player benches (2 X 60 LF), set back from side fence line.
7. Provide room for future bleacher seating at competition fields.

### Generic Language for all Autism Programs (Kenmoor, Hyattsville, Drew Freeman, Southern Area MS)

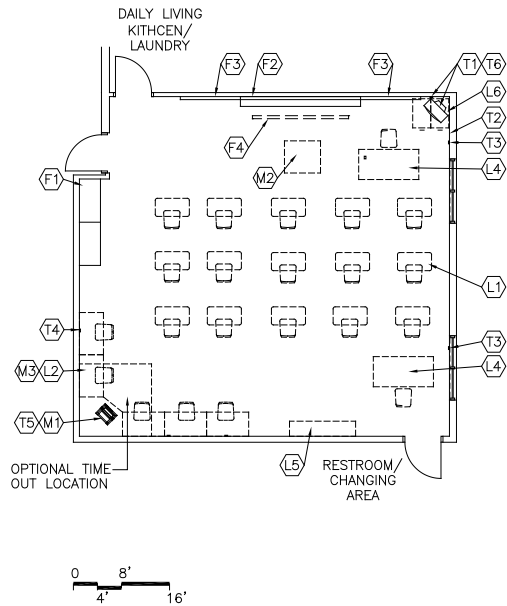
PGCPS offers a continuum of services to students with special needs. To the extent possible students are educated in their home school using co-teaching, occasional 'pull-out' focused on intervention, or self-contained classroom settings. The number of students and range of teaching options may vary from year to year and all classrooms should be designed to accommodate all students regardless of their disabilities.

Special education facilities will be integrated throughout the school to support the concepts of inclusion and the specialized requirements for the students. Special attention will be given to accessibility of all facilities and an integrated learning program.

This school will serve students with Autism in a self-contained environment. Their classrooms and support spaces should be in a quiet area of the school (or wing) but not be completely isolated from the regular school population. The learning environment should minimize extreme light conditions, noise from equipment, and dramatic colors. The architect should work with staff to identify alternative seating options.

Space	Design Guideline			Comments
	Qty.	Sq.Ft.	Total	
Classrooms	3	800	2,400	Two classrooms will have a movable wall; provide a half wall around the perimeter to allow for staff desks – see staff for details
	1	900	900	With toilet
Sensory Room	1	600	600	
Independent Support Room	1	200	200	
Office	1	140	140	Coordinator and Itinerant
Conference Room	1	300	300	
Toilets	2	50	100	
Total			4,640	
TOTAL # of SRC Rooms	4			

## SPECIAL NEEDS CLASSROOM/STUDIO



### QUANTITY:

- 3 generic classrooms
- 1 classroom with toilet

### CAPACITY:

- 2 or more staff
- 10 to 15 students

### SIZE:

800-900 SF

### SPATIAL RELATIONSHIPS:

- Accessible ingress/egress to the building and classroom
- One per grade level community

### GOAL:

- To provide a safe, accessible, and comfortable learning environment for students who are physically, mentally or emotionally challenged
- To provide classroom space and a flexible, specially-adapted learning environment that will meet the needs of students who have exhibited a need for more functional/ intensive services

### PROGRAM ACTIVITIES:

- Independent work
- Individual instruction
- Small group work

**SPACE REQUIREMENTS**

Construction:	
Min Ceiling Height:	10'-0"
Acoustics:	AC2 - High Performance: Conference Room or Confidential Space
Window shading:	S1A -Blinds/Shades and Manually Operated Blackout Shades
Power & Lighting	
User Convenience (excludes outlets for AV, security, etc.):	<ul style="list-style-type: none"> <li>One (1) outlet for control of the classroom projector/interactive board</li> <li>One (1) outlet for telephone at the teacher station</li> <li>One (1) outlet for the intercom system</li> <li>Two (2) outlets at the teacher station for a teacher's computing device and accessory</li> <li>Two (2) outlets for wireless network</li> <li>Four (4) outlets for student use</li> <li>Additional twenty (20) ampere circuit, or additional as required, to support computers, printer, and typical classroom equipment shall be in each classroom. Electrical outlets shall be placed on teaching walls at min six feet (6') on center and on other walls at twelve feet (12').</li> </ul>
Lighting level	L1 - 50 FC at work surfaces and teaching displays with multiple sets
Telecommunications	
Outlet (excludes outlets for AV, security, etc.):	<ul style="list-style-type: none"> <li>One (1) data outlet for control of the classroom projector/interactive board</li> <li>One (1) data outlet for telephone at the teacher station</li> <li>One (1) data outlet for the intercom system</li> <li>Two (2) data outlets, and one (1) voice outlet at the teacher station for a teacher's computing device and accessory</li> <li>Two (2) data outlets for wireless network</li> <li>One (1) data outlet for the PoE clock</li> </ul>
Sound Reinforcement	Every classroom will be wired for teacher audio enhancement and the audio system should be integrated into the intercom system. The mixed sound will be amplified and sent through the speakers (preferably ceiling mounted).
Wireless Requirements:	TW2 - 2 wireless devices per occupant (based on maximum occupancy)

**ADDITIONAL REQUIREMENTS**

In one of the programmed classrooms, provide a toilet room complying with the requirements of Data Sheet for Gender Inclusive Restroom within the programmed area of the classroom with door opening directly to classroom

Comfortable rooms with pleasant décor that contribute to an atmosphere conducive to creativity

**BUILT-IN FIXTURES:**

2 Dry, white eraser-board (4' x 20' on two different walls) on track; all eraser-boards shall be installed with a marker tray, map rails with tack strip above

Clock (on side walls instead of rear walls)

Tack board (4' x 20') minimum; tack strips on all walls

**LOOSE FURNISHINGS:**

L1 10 Student desks/tables and chairs

L2 3-5 Computer workstations (optional)

L3 Printer table

L4 Teacher desk/workstation and chair

L4 Workstation and chair for co-teacher/aide

L5 Adjustable height bookshelves (24 LF)

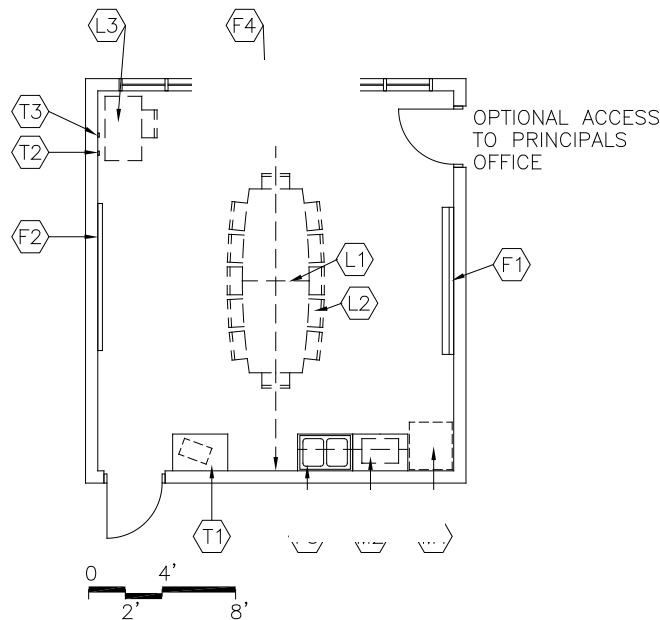
L6 2, file cabinets w/ lock, 4-drawer

1 Lockable teacher wardrobe with coat rod; tall cabinet w/ shelving (may be one unit)

**AUDIO VISUAL EQUIPMENT**

See Educational Technology Requirements

CONFERENCE ROOM



QUANTITY:

1

CAPACITY:

Up to 20 people

SIZE:

300 SF

SPATIAL RELATIONSHIPS:

In administrative suite

GOAL:

To provide an area adequate for small and medium group conferences

PROGRAM ACTIVITY:

Meetings/conferences  
Staff collaboration

SPACE REQUIREMENTS

Construction:	
Min Ceiling Height:	9'-0"
Acoustics:	AC2 - High Performance: Conference Room or Confidential Space
Window shading:	S1A -Blinds/Shades and Manually Operated Blackout Shades
Power & Lighting	
User Convenience (excludes outlets for AV, security, etc.):	Duplex on perimeter walls at twelve feet (12'), 2 recessed floor quad



Lighting level	L3 - 35 FC at work surfaces and walls
Telecommunications	
Outlet (excludes outlets for AV, security, etc.):	1 standard data drop on two walls and 1 recessed floor box with standard (2) data outlets
Wireless Requirements:	TW2 - 2 wireless devices per occupant (based on maximum occupancy)
SPECIALTIES	
Special features:	None
ADDITIONAL REQUIREMENTS	
Conference Room Technology –Conference rooms will have one on-table computer connections to a video display screen and be internet capable. One lighting/multi-media control panel shall be table mounted and one wall mounted.	

**ADDITIONAL REQUIREMENTS****BUILT-IN FIXTURES:**

- F1 Marker board (8 LF)
- F2 Tack board (8 LF)

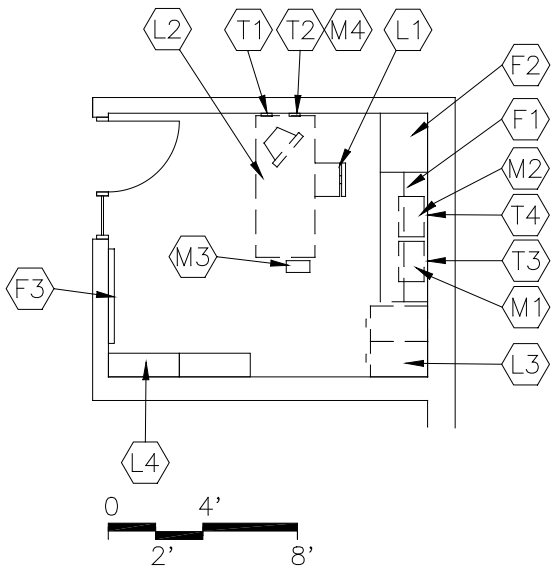
**LOOSE FURNISHINGS:**

- L1 Conference table
- L2 12 Chairs
- L3 Computer workstation furniture

**AUDIO VISUAL EQUIPMENT**

See Educational Technology Requirements

OFFICE



QUANTITY:

1

CAPACITY:

Up to 2 people

SIZE:

140 SF

SPATIAL RELATIONSHIPS:

Near conference room

GOAL:

To serve as an area from which staff can effectively provide administrative support

PROGRAM ACTIVITIES:

- Answering telephone
- Data input and retrieval
- Duties of confidential secretary
- General office work

SPACE REQUIREMENTS

Construction:	
Min Ceiling Height:	9'-0"
Acoustics:	AC3 - Medium Performance: Closed Office
Window shading:	S1 - Roller Shades, 5% Open
Power & Lighting	

User Convenience (excludes outlets for AV, security, etc.):	2 duplex outlets per wall on two side walls
Lighting level	L2 - 35 FC at work surfaces
Telecommunications	
Outlet (excludes outlets for AV, security, etc.):	One standard data drop on two side walls
Wireless Requirements:	TW2 - 2 wireless devices per occupant (based on maximum occupancy)

**ADDITIONAL REQUIREMENTS**

None

**BUILT-IN FIXTURES:**

- F1 Casework:  
Base cabinets and shelving
- F3 Tack board (4 LF)
- F2 Casework: Wardrobe

**LOOSE FURNISHINGS:**

- L2 Desk
- L1 Ergonomic chair
- L3 4-drawer locking file cabinet
- L4 Bookcases
- M1/2 Printer/Copier
- M4 Computer

**AUDIO VISUAL EQUIPMENT**

See Educational Technology Requirements

**SENSORY ROOM****QUANTITY:**

1

**CAPACITY:**

Up to 3-4 students

Up to 2 staff

**SIZE:**

600 SF

**SPATIAL RELATIONSHIPS:**

Near Special Needs Classrooms

**SPACE REQUIREMENTS**

Construction:	
Min Ceiling Height:	10'-0"
Acoustics:	AC3 - High Performance: Conference Room or Confidential Space
Window shading:	S1A -Blinds/Shades and Manually Operated Blackout Shades
Power & Lighting	
User Convenience (excludes outlets for AV, security, etc.):	<ul style="list-style-type: none"> <li>One (1) outlet for control of the classroom projector/interactive board</li> <li>One (1) outlet for telephone at the teacher station</li> <li>One (1) outlet for the intercom system</li> <li>Two (2) outlets at the teacher station for a teacher's computing device and accessory</li> <li>Two (2) outlets for wireless network</li> <li>Four (4) outlets for student use</li> <li>Additional twenty (20) ampere circuit, or additional as required, to support computers, printer, and typical classroom equipment shall be in each classroom. Electrical outlets shall be placed on perimeter walls at twelve feet (12').</li> </ul>
Lighting level	L1 - 50 FC at work surfaces and teaching displays with multiple sets
Telecommunications	
Outlet (excludes outlets for AV, security, etc.):	<ul style="list-style-type: none"> <li>One (1) data outlet for control of the classroom projector/interactive board</li> <li>One (1) data outlet for telephone at the teacher station</li> <li>One (1) data outlet for the intercom system</li> <li>Two (2) data outlets, and one (1) voice outlet at the teacher station for a teacher's computing device and accessory</li> <li>Two (2) data outlets for wireless network</li> </ul> One (1) data outlet for the PoE clock

Wireless Requirements:	TW2 - 2 wireless devices per occupant (based on maximum occupancy)
Sound Reinforcement	Every classroom will be wired for teacher audio enhancement and the audio system should be integrated into the intercom system. The mixed sound will be amplified and sent through the speakers (preferably ceiling mounted).

**ADDITIONAL REQUIREMENTS**

None

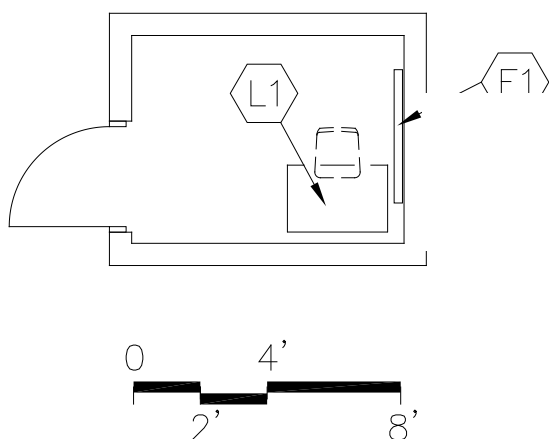
**BUILT-IN FIXTURES:**

**LOOSE FURNISHINGS:**

Provided by PGCPs – Fiber optic displays, bubble tubes, Sound system, platforms for multi-level seating

**AUDIO VISUAL EQUIPMENT**

See Educational Technology Requirements

**INDEPENDENT SUPPORT ROOM****QUANTITY:**

1

**CAPACITY:**

- 2-3 persons

**SIZE:**

- 200 SF

**PROGRAM ACTIVITIES:**

- For students requiring a quiet individual area.

**SPATIAL RELATIONSHIPS:**

- Close proximity to Special education classrooms

**SPACE REQUIREMENTS**

Construction:	
Min Ceiling Height:	9'-0"
Acoustics:	AC2 - High Performance: Conference Room or Confidential Space
Window shading:	None
Partitions and Finishes:	
Power & Lighting	
User Convenience (excludes outlets for AV, security, etc.):	2 duplex per wall on three of four walls
Lighting level	L2 - 35 FC at work surfaces
Telecommunications	
Outlet (excludes outlets for AV, security, etc.):	Two (2) data drop per wall on one wall.
Wireless Requirements:	TW2 - 2 wireless devices per occupant (based on maximum occupancy)

**ADDITIONAL REQUIREMENTS**

Room lighting to be dimmable and color adjustable (full spectrum)

Environmental sound control wall minimum STC 50 ceiling minimum CAC 35, NRC 0.65

Views into time out area from the corridor

Auditory privacy

**BUILT-IN FIXTURES:**

**LOOSE FURNISHINGS:**

L1 – Desk and chair

**AUDIO VISUAL EQUIPMENT**

See Educational Technology Requirements

### Generic Language for all Emotionally Disabled Programs (Walker Mill MS)

PGCPS offers a continuum of services to students with special needs. To the extent possible students are educated in their home school using co-teaching, occasional 'pull-out' focused on intervention, or self-contained classroom settings. The number of students and range of teaching options may vary from year to year and all classrooms should be designed to accommodate all students regardless of their disabilities.

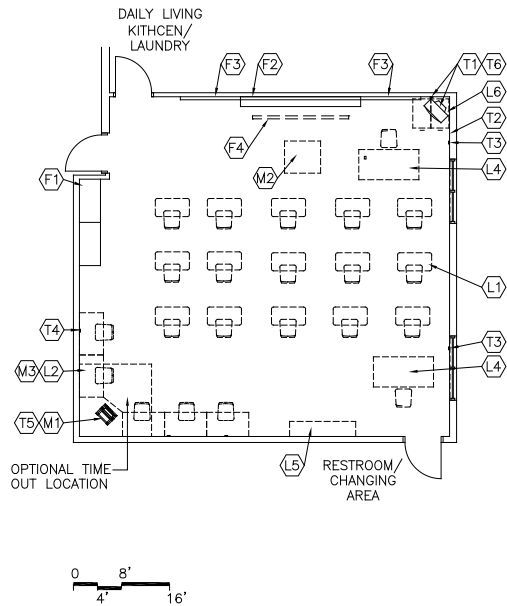
Special education facilities will be integrated throughout the school to support the concepts of inclusion and the specialized requirements for the students. Special attention will be given to accessibility of all facilities and an integrated learning program.

This school will serve students with emotional disabilities in a self-contained environment. Their classrooms and support spaces should be in a quiet area of the school (or wing) but not be completely isolated from the regular school population. Provide the following spaces in a contiguous block along a corridor shared with general education functions and spaces. Provide an interior access corridor to these spaces parallel to and accessed from the "main" corridor.

The architect should work with staff to identify alternative seating options.

Space	Design Guideline			Comments
	Qty.	Sq. Ft.	Total	
Classrooms	4	740	2,960	
			0	
Student Support Room	1	350	350	
Independent Support Room	2	80	160	
Office	3	140	420	Coordinator and Itinerant
Conference Room	1	300	300	
Teacher Support Room	1	150	150	
Program Transition Room	1	200	200	
Toilets	2	50	100	
<b>Total</b>			<b>4,640</b>	
<b>TOTAL # of SRC Rooms</b>	<b>4</b>			



**SPECIAL NEEDS CLASSROOM/STUDIO****QUANTITY:**

- 3 generic classrooms
- 1 classroom with toilet

**CAPACITY:**

- 2 or more staff
- 10 to 15 students

**SIZE:**

800-900 SF

**SPATIAL RELATIONSHIPS:**

- Accessible ingress/egress to the building and classroom
- One per grade level community

**GOAL:**

- To provide a safe, accessible, and comfortable learning environment for students who are physically, mentally or emotionally challenged
- To provide classroom space and a flexible, specially-adapted learning environment that will meet the needs of students who have exhibited a need for more functional/ intensive services

**PROGRAM ACTIVITIES:**

- Independent work
- Individual instruction
- Small group work

**SPACE REQUIREMENTS**

Construction:	
Min Ceiling Height:	10'-0"
Acoustics:	AC2 - High Performance: Conference Room or Confidential Space
Window shading:	S1A -Blinds/Shades and Manually Operated Blackout Shades
Power & Lighting	
User Convenience (excludes outlets for AV, security, etc.):	<ul style="list-style-type: none"> <li>One (1) outlet for control of the classroom projector/interactive board</li> <li>One (1) outlet for telephone at the teacher station</li> <li>One (1) outlet for the intercom system</li> <li>Two (2) outlets at the teacher station for a teacher's computing device and accessory</li> <li>Two (2) outlets for wireless network</li> <li>Four (4) outlets for student use</li> <li>Additional twenty (20) ampere circuit, or additional as required, to support computers, printer, and typical classroom equipment shall be in each classroom. Electrical outlets shall be placed on teaching walls at min six feet (6') on center and on other walls at twelve feet (12').</li> </ul>
Lighting level	L1 - 50 FC at work surfaces and teaching displays with multiple sets
Telecommunications	
Outlet (excludes outlets for AV, security, etc.):	<ul style="list-style-type: none"> <li>One (1) data outlet for control of the classroom projector/interactive board</li> <li>One (1) data outlet for telephone at the teacher station</li> <li>One (1) data outlet for the intercom system</li> <li>Two (2) data outlets, and one (1) voice outlet at the teacher station for a teacher's computing device and accessory</li> <li>Two (2) data outlets for wireless network</li> <li>One (1) data outlet for the PoE clock</li> </ul>
Sound Reinforcement	Every classroom will be wired for teacher audio enhancement and the audio system should be integrated into the intercom system. The mixed sound will be amplified and sent through the speakers (preferably ceiling mounted).
Wireless Requirements:	TW2 - 2 wireless devices per occupant (based on maximum occupancy)

**ADDITIONAL REQUIREMENTS**

In one of the programmed classrooms, provide a toilet room complying with the requirements of Data Sheet for Gender Inclusive Restroom within the programmed area of the classroom with door opening directly to classroom

Comfortable rooms with pleasant décor that contribute to an atmosphere conducive to creativity

**BUILT-IN FIXTURES:**

2 Dry, white eraser-board (4' x 20' on two different walls) on track; all eraser-boards shall be installed with a marker tray, map rails with tack strip above

Clock (on side walls instead of rear walls)

Tack board (4' x 20') minimum; tack strips on all walls

**LOOSE FURNISHINGS:**

L1 10 Student desks/tables and chairs

L2 3-5 Computer workstations (optional)

L3 Printer table

L4 Teacher desk/workstation and chair

L4 Workstation and chair for co-teacher/aide

L5 Adjustable height bookshelves (24 LF)

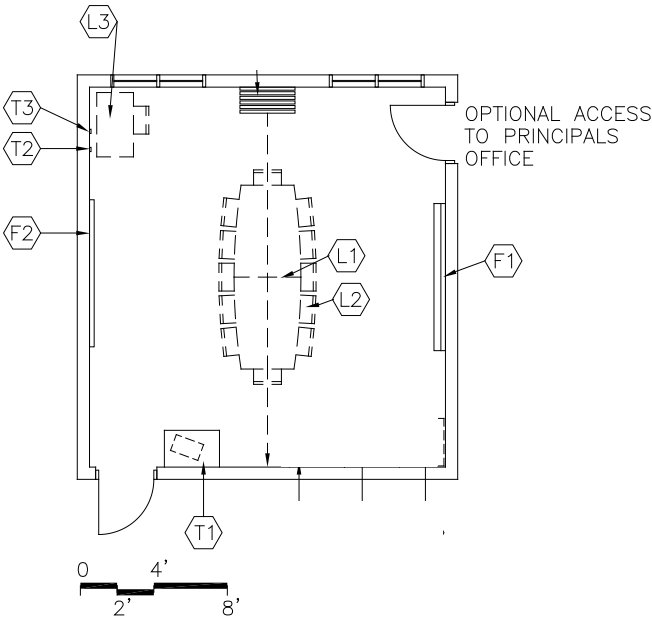
L6 2, file cabinets w/ lock, 4-drawer

1 Lockable teacher wardrobe with coat rod; tall cabinet w/ shelving (may be one unit)

**AUDIO VISUAL EQUIPMENT**

See Educational Technology Requirements

CONFERENCE ROOM



QUANTITY:

1

CAPACITY:

Up to 20 people

SIZE:

300 SF

SPATIAL RELATIONSHIPS:

In administrative suite

GOAL:

To provide an area adequate for small and medium group conferences

PROGRAM ACTIVITY:

Meetings/conferences  
Staff collaboration

SPACE REQUIREMENTS

Construction:	
Min Ceiling Height:	9'-0"
Acoustics:	AC2 - High Performance: Conference Room or Confidential Space
Window shading:	S1A -Blinds/Shades and Manually Operated Blackout Shades
Power & Lighting	

User Convenience (excludes outlets for AV, security, etc.):	Duplex on perimeter walls at twelve feet (12'), 2 recessed floor quad
Lighting level	L3 - 35 FC at work surfaces and walls
Telecommunications	
Outlet (excludes outlets for AV, security, etc.):	1 standard data drop on two walls and 1 recessed floor box with standard (2) data outlets
Wireless Requirements:	TW2 - 2 wireless devices per occupant (based on maximum occupancy)
<b>SPECIALTIES</b>	
Special features:	None
<b>ADDITIONAL REQUIREMENTS</b>	
Conference Room Technology –Conference rooms will have one on-table computer connections to a video display screen and be internet capable. One lighting/multi-media control panel shall be table mounted and one wall mounted.	

**ADDITIONAL REQUIREMENTS****BUILT-IN FIXTURES:**

- F1 Marker board (8 LF)
- F2 Tack board (8 LF)

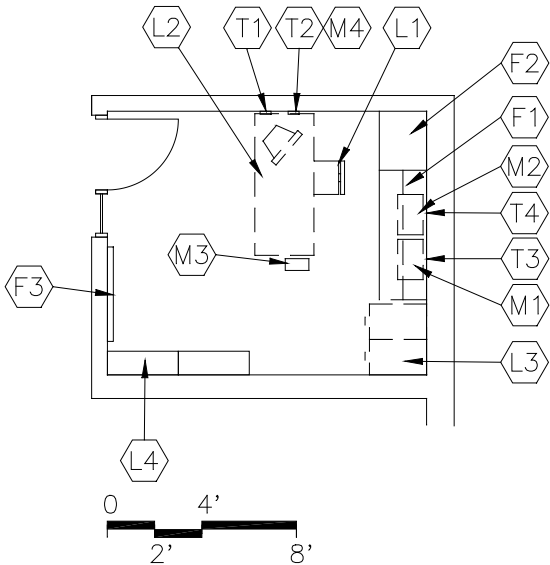
**LOOSE FURNISHINGS:**

- L1 Conference table
- L2 12 Chairs
- L3 Computer workstation furniture

**AUDIO VISUAL EQUIPMENT**

See Educational Technology Requirements

**\_OFFICE**



**QUANTITY:**

1

**CAPACITY:**

Up to 2 people

**SIZE:**

140 SF

**SPATIAL RELATIONSHIPS:**

Near conference room

**GOAL:**

To serve as an area from which staff can effectively provide administrative support

**PROGRAM ACTIVITIES:**

- Answering telephone
- Data input and retrieval
- Duties of confidential secretary
- General office work

**SPACE REQUIREMENTS**

Construction:	
Min Ceiling Height:	9'-0"
Acoustics:	AC3 - Medium Performance: Closed Office
Window shading:	S1 - Roller Shades, 5% Open
Power & Lighting	

User Convenience (excludes outlets for AV, security, etc.):	2 duplex outlets per wall on two side walls
Lighting level	L2 - 35 FC at work surfaces
Telecommunications	
Outlet (excludes outlets for AV, security, etc.):	One standard data drop on two side walls
Wireless Requirements:	TW2 - 2 wireless devices per occupant (based on maximum occupancy)

**ADDITIONAL REQUIREMENTS****BUILT-IN FIXTURES:**

- F1 Casework:  
Base cabinets and shelving
- F3 Tack board (4 LF)
- F2 Casework: Wardrobe

**LOOSE FURNISHINGS:**

- L2 Admin Desk
- L1 Ergonomic chair
- L3 4-drawer locking file cabinet
- L4 Bookcases
- M1/2 Printer/Copier
- M4 Computer

**AUDIO VISUAL EQUIPMENT**

See Educational Technology Requirements

**STUDENT SUPPORT ROOM****QUANTITY:**

1

**CAPACITY:**

Up to 3-4 students

Up to 2 staff

**SIZE:**

350 SF

**SPATIAL RELATIONSHIPS:**

Near Special Needs Classrooms

**SPACE REQUIREMENTS**

Construction:	
Min Ceiling Height:	10'-0"
Acoustics:	AC2 - High Performance: Conference Room or Confidential Space
Window shading:	S1A -Blinds/Shades and Manually Operated Blackout Shades
Power & Lighting	
User Convenience (excludes outlets for AV, security, etc.):	<ul style="list-style-type: none"> <li>One (1) outlet for control of the classroom projector/interactive board</li> <li>One (1) outlet for telephone at the teacher station</li> <li>One (1) outlet for the intercom system</li> <li>Two (2) outlets at the teacher station for a teacher's computing device and accessory</li> <li>Two (2) outlets for wireless network</li> <li>Four (4) outlets for student use</li> <li>Additional twenty (20) ampere circuit, or additional as required, to support computers, printer, and typical classroom equipment shall be in each classroom. Electrical outlets shall be placed on perimeter walls at twelve feet (12').</li> </ul>
Lighting level	L1 - 50 FC at work surfaces and teaching displays with multiple sets
Telecommunications	
Outlet (excludes outlets for AV, security, etc.):	<ul style="list-style-type: none"> <li>One (1) data outlet for control of the classroom projector/interactive board</li> <li>One (1) data outlet for telephone at the teacher station</li> <li>One (1) data outlet for the intercom system</li> <li>Two (2) data outlets, and one (1) voice outlet at the teacher station for a teacher's computing device and accessory</li> <li>Two (2) data outlets for wireless network</li> </ul>
	One (1) data outlet for the PoE clock



Wireless Requirements:	TW2 - 2 wireless devices per occupant (based on maximum occupancy)
Sound Reinforcement	Every classroom will be wired for teacher audio enhancement and the audio system should be integrated into the intercom system. The mixed sound will be amplified and sent through the speakers (preferably ceiling mounted).

**ADDITIONAL REQUIREMENTS**

None

**BUILT-IN FIXTURES:**

Casework: Wall/base cabinets for sink

**LOOSE FURNISHINGS:**

4-8 chairs

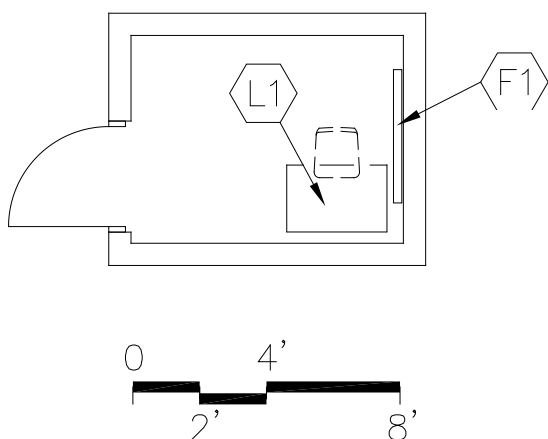
Bookshelves

1-2 Work table

Teacher desk and chair

**AUDIO VISUAL EQUIPMENT**

See Educational Technology Requirements

**INDEPENDENT SUPPORT ROOM****QUANTITY:**

2

**CAPACITY:**

1-2 persons

**SIZE:**

80-100 SF

**PROGRAM ACTIVITIES:**

For students requiring a quiet individual area.

**SPATIAL RELATIONSHIPS:**

Close proximity to Special education classrooms

**SPACE REQUIREMENTS**

Construction:	
Min Ceiling Height:	9'-0"
Acoustics:	AC2 - High Performance: Conference Room or Confidential Space
Power & Lighting	
User Convenience (excludes outlets for AV, security, etc.):	2 duplex per wall on three of four walls
Power density:	PW2 - 3W/ASF
Lighting level	L2 - 35 FC at work surfaces
Lighting control	See Additional Requirements
Telecommunications	
Outlet (excludes outlets for AV, security, etc.):	Two (2) data drop per wall on one wall.
Wireless Requirements:	TW2 - 2 wireless devices per occupant (based on maximum occupancy)

**ADDITIONAL REQUIREMENTS**

Environmental sound control wall minimum STC 50 ceiling minimum CAC 35, NRC 0.65

Views into time out area from the corridor

Auditory privacy

**BUILT-IN FIXTURES:**

None

**LOOSE FURNISHINGS:**

L1 – Desk and chair

**AUDIO VISUAL EQUIPMENT**

See Educational Technology Requirements

**PROGRAM TRANSITION ROOM****QUANTITY:**

1

**CAPACITY:**

Faculty and staff  
1-3 students

**SIZE:**

200 SF

**SPATIAL RELATIONSHIPS:**

Accessible from main corridor

**GOAL:**

To help students learn practical/hands-on social skills and daily living skills

**SPACE REQUIREMENTS**

Construction:	
Min Ceiling Height:	10'-0"
Acoustics:	AC2 - High Performance: Conference Room or Confidential Space
Window shading:	S1A -Blinds/Shades and Manually Operated Blackout Shades
Power & Lighting	
User Convenience (excludes outlets for AV, security, etc.):	<ul style="list-style-type: none"> <li>One (1) outlet for control of the classroom projector/interactive board</li> <li>One (1) outlet for telephone at the teacher station</li> <li>One (1) outlet for the intercom system</li> <li>Two (2) outlets at the teacher station for a teacher's computing device and accessory</li> <li>Two (2) outlets for wireless network</li> <li>Four (4) outlets for student use</li> <li>Additional twenty (20) ampere circuit, or additional as required, to support computers, printer, and typical classroom equipment shall be in each classroom. Electrical outlets shall be placed on perimeter walls at twelve feet (12').</li> </ul>
Lighting level	L1 - 50 FC at work surfaces and teaching displays with multiple sets
Telecommunications	
Outlet (excludes outlets for AV, security, etc.):	<ul style="list-style-type: none"> <li>One (1) data outlet for control of the classroom projector/interactive board</li> <li>One (1) data outlet for telephone at the teacher station</li> <li>One (1) data outlet for the intercom system</li> <li>Two (2) data outlets, and one (1) voice outlet at the teacher station for a teacher's computing device and accessory</li> <li>Two (2) data outlets for wireless network</li> </ul>

	One (1) data outlet for the PoE clock
Wireless Requirements:	TW2 - 2 wireless devices per occupant (based on maximum occupancy)
Sound Reinforcement	Every classroom will be wired for teacher audio enhancement and the audio system should be integrated into the intercom system. The mixed sound will be amplified and sent through the speakers (preferably ceiling mounted).

**ADDITIONAL REQUIREMENTS**

None

**BUILT-IN FIXTURES:**

Marker board (8 LF)

Tack board (8 LF)

**LOOSE FURNISHINGS:**

Small round table and 3 chairs

4-drawer file cabinet

Teacher desk chair

**AUDIO VISUAL EQUIPMENT**

See Educational Technology Requirements

### Generic Language for all Regional Special Education Programs (Adelphi Area MS)

PGCPS offers a continuum of services to students with special needs. To the extent possible students are educated in their home school using co-teaching, occasional 'pull-out' focused on intervention, or self-contained classroom settings. The number of students and range of teaching options may vary from year to year and all classrooms should be designed to accommodate all students regardless of their disabilities.

Special education facilities will be integrated throughout the school to support the concepts of inclusion and the specialized requirements for the students. Special attention will be given to accessibility of all facilities and an integrated learning program.

This school will serve students in the Regional Special Education program in a self-contained environment. The students often have multiple physical, medical, and instructional disabilities. Provide the following spaces in a contiguous block along a corridor shared with general education functions and spaces.

Space	Design Guideline			Comments
	Qty.	Sq.Ft.	Total	
Classrooms	3	900	2,700	
Toilet/Changing Rooms	3	100	300	
OT/PT	1	800	800	Includes extra equipment storage area
Life Skills Lab w/ Laundry	1	800	800	
Office	2	150	300	Coordinator and Itinerant
Conference Room	1	250	250	
Teacher Support Room	1	250	250	
<b>Total</b>			<b>5,400</b>	
<b>TOTAL # of SRC Rooms</b>	<b>3</b>			

**General Planning Considerations**

Rooms shall be clustered in traditional wing configuration with availability within the building to provide maximum contact between all students and staff. Support areas are to be located near the classrooms. All students in this program have Individual Education Plans (IEP), which specifies the services each student requires and the specific staffing that is required to implement their IEPs as indicated in the PGCPs Special Education Staffing Plan.

**Planned Activities**

- Motor Development/M.O.V.E. activities
- Total classroom group instruction
- Gross and fine motor activities
- Individualized instruction
- Arts and crafts activities
- Computer use
- Interdisciplinary instruction with classroom teacher and specialists
- Utilization of audiovisual equipment
- Vocational workshop activities

**Number of Participants**

- 21-28 Students with multiple disabilities
- 6-7 students per classroom

**Staff Required**

- Three to five (3-5) Teachers
- Three to five (3-5) Paraprofessionals
- One (1) Coordinator/Specialist
- One (1) Speech Therapist
- One (1) Health Technician

**Groupings**

- Small groups of 6-7 students
- Students working individually or in small groups

**Relationship to Other Activities**

- Convenient access to bus pick up and drop off point
- Direct access to middle school
- M.O.V.E./Motor/PT/OT Room should be situated closest to middle school
- Health Room should be adjacent to the school's health suite and coordinator's office (if adjacency is not feasible a larger separate health suite must be designed)

**Environmental Requirements**

- Thermal – Special consideration to ventilation in bathrooms and storage areas. Need special attention to on-floor activities.
- Acoustical – Particular attention to external equipment noise

**Display for each classroom**

One (1) Tack board 4' x 8'

One (1) Magnetic Marker board 4' x 8'

**Support Facilities**

Bathroom/Changing rooms directly accessible to each classroom

**Furniture and Equipment**

**Classroom**

Furniture and Equipment

4 ceiling hooks for suspended equipment

2 Rifton Positioning Chairs

2 teacher desks

3 teacher desk chairs

3 adult chairs w/wheels

1 rectangular height adjustable table

2 round height adjustable tables

2 file cabinets w/locks and four drawers

1 art cabinet with wheels

2 computer tables with 2 computers, 1 for students to share and 1 for teacher

3-6 student chairs as needed

3-6 student adjustable desks as needed

Full body-size wall mirror

Coat rack with 6-7 hooks

Mobile cart for Technology Equipment as outlined in all classes

Mat Table

Large Wedge with straps for positioning

Classroom Utilities

Ten (10) 115 volt duplex outlets per classroom

Sink with hot and cold water, wheelchair accessible

Minimum of five (5) computer outlets with isolated ground receptacles

Storage

The storage closets need to be long and narrow (about 5' to 6') with entrances on either end or folding partition for easy access

Built in cabinets on one (1) wall, w/locks accessible to teacher

Built in cabinets below sink and counter

Built in cabinets above sink

On one wall, two (2) shelves 15' long and 1' deep

On one wall, two (2) shelves 10' long and 2' deep

**Bathroom/Changing Room**

Furniture and Equipment

1 Rifton Blue Wave Toilet System



- 1 Height Adjustable Electric Changing table
- 1 Hoyer Lift
- 2 Handicap accessible adult toilets
- 1 Handicap accessible adult sink
- Built in cabinets below sink and counter
- Built in cabinets above sink

**Conference Room**

Furniture and Equipment

- 1 large conference table with 12 chairs
- 1 Tack Board 4' x 8'
- 1 White Markerboard

**Coordinator/Specialist Office**

Furniture and Equipment

- 3 teacher desks
- 3 adult desk chairs with wheels
- 3 filing cabinets

**Instructional Kitchen (life skills lab)**

Furniture and Equipment

- Sink: Split level sink accommodating students in wheelchairs and students who can stand
- Extended flat sided handles at the sink
- Extended faucet
- Wheel chair accessible work counter to include space for a microwave
- Stove: Knobs on the front, angled mirror above to reflect stove top surface
- Refrigerator: Side by side with roll out bins
- Mounted jar opener and can opener

Utilities

- Five (5) 115 volt duplex outlets
- Sink with hot and cold water, wheelchair accessible

Storage

- Cabinets: wheelchair accessible, drawers with slide out bins & shelves, drawer handles large enough for a hand to slip through

**Laundry Room (Life skills lab)**

Furniture and Equipment

- Washer & Dryer
- Sink with counter space and built in cabinets above and below sink

Utilities

- 100 and 220 volt as needed

**OT/PT Room**

**Furniture and Equipment**

- 4 ceiling hooks for suspended equipment
- Therapy equipment provided by PGCPs staff

**Utilities**

- Ten (10) 115 volt duplex outlets per classroom
- Sink with hot and cold water, wheelchair accessible
- Two (2) computer outlets with isolated ground receptacles
- CATV Outlets

**Storage**

- Built in cabinets on one (1) wall, w/locks accessible to teacher
- 1 large storage cabinet with locks
- Built in cabinets below sink and counter
- Built in cabinets above sink

**Special Education Regional Program Specification Notes**

- Automatic doors must be installed at proposed bus drop-off.
- Corridors near classrooms to have alcoves for wheelchairs with quick single lane parking, handles out.
- Parking area for 15-20 and 2 spaces for Parking for the Handicapped with easy access to Special Education Wing.

### Middle School Based Health Center Space Requirements

Space	Design Guideline			Comments
	Qty.	S.F.	Total	
Reception/ Waiting Area	1	150	150	
Exam Rms.#1	1	80	80	
Exam and Dental #2	1	160	160	
Lab/charting area	1	100	100	
Provider Offices	2	120	240	
Mental Health conference rm	1	200	200	
Storage	2	50/80	130	
Toilet	2	50	100	
Total			1,160	
@ 1.35			1,600	

The School Based Health Center should be located near the front entrance. During the day, all visitors must enter through the school security vestibule. However, an outside entrance is desirable so the clinic could operate when the school is closed. The design for this space must be flexible to allow for alternative uses if it is not used as a SBHC.

The following specifications indicate the full outfitting of the space. A final decision will be made prior to final furniture selection.

The clinics offer a variety of services to students including

- Immunizations
- Diagnosis and treatment of Minor/Acute/Chronic Health Problems
- Physical Examinations
- Laboratory Testing

#### Mental Health Services

- Individual Mental Health Assessment, Treatment, and Follow-up
- Group Counseling
- Substance Abuse Education/Counseling

#### Health Education Services

- Abstinence Education
- Weight Reduction and Healthy Living
- Diabetes Education/Management
- Asthma Education/Management

#### Dental Health Services

- Dental Assessments
- Dental Hygiene Education
- Dental Referrals for Restorations

### Adjacency Requirements

The School Based Health Center shall be located near the front entrance. During the day, all visitors must enter through the school security vestibule.

An outside entrance shall be provided so the clinic could operate when the school is closed.

**Design for Flexibility**

The design for this space must be flexible to allow for alternative uses if it is not used as a SBHC.

**Security and Layering**

The School Based Health Center shall be designed to provide an open and accessible public façade while maintaining high levels of security and privacy for Wellness operations:

Entry lobby shall have readily identified entrance. Lobby interior shall not be directly visible from outside to provide privacy for patients.

Secure areas within School Based Health Center Areas shall be separated from the public areas by keycard access. Secured areas shall be located together such that access from one secured area to any other will not require passing through a public area.

**Privacy**

In addition to the privacy requirements of HIPAA, Developer shall design the space to provide high levels of privacy and confidentiality.

In patient, treatment and counselling rooms, ensure occupants of rooms cannot be identifiable from outside the room.

**Safety**

Shouting in any patient, treatment or counseling room shall be audible from outside the room, while maintaining acoustical performance identified in the applicable Area Data Sheets.

**Patient Wellbeing & Infection Control**

Design the School Based Health Center using best practice in patient well-being and infection control, including:

- Provide comfortable and attractive settings based on evidence based design for healing environments;

- Provide comfortable and acoustically designed space when students need to work with an assistant or need voice recognition software to "read" their exams;

- Ensure air flow is managed in such a manner to minimize risk of cross-contamination and nosocomial infection;

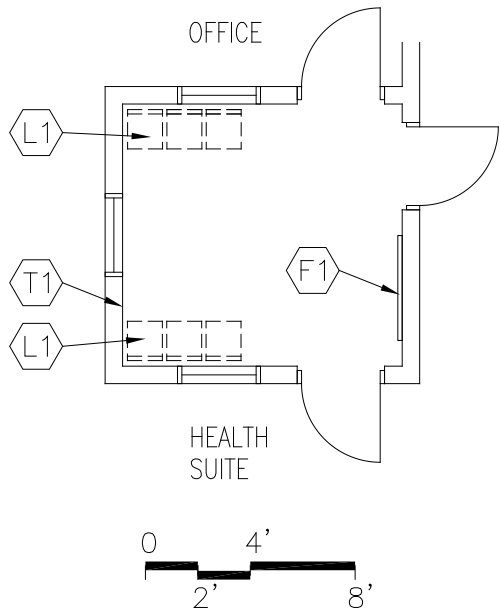
- Provide separated well and sick patient waiting areas with separated air systems. Design to manage patient flow to avoid contamination; and

- Provide handwashing and hand sanitization stations throughout the facility.

**Nurse Call System**

Design and install a complete nurse call system within the Student Life: Wellness Center, including initiation and reporting devices.

RECEPTION/ WAITING AREA



QUANTITY:

1

CAPACITY:

Up to 6 people

SIZE:

150 SF

SPATIAL RELATIONSHIPS:

- First space one enters in Health Suite
- Ground floor
- May include Nurse's desk and work station (see office for description of F&E)

GOAL:

To provide an area for students waiting to see the nurse or for parent pick-up

SPACE REQUIREMENTS

Construction:	
Min Ceiling Height:	9'-0"
Acoustics:	AC3 - Medium Performance: Closed Office
Window shading:	S1 - Roller Shades, 5% Open
Power & Lighting	
User Convenience (excludes outlets for AV, security, etc.):	Duplex on perimeter walls at twelve feet (12')
Lighting level	L5 - 25 FC ambient with focus lighting areas
Telecommunications	

Outlet (excludes outlets for AV, security, etc.):	Two (2) data drop per wall on one wall
Wireless Requirements:	TW1 - 1 wireless device per occupant (based on maximum occupancy)
<b>SPECIALTIES</b>	
Special features:	None
<b>ADDITIONAL REQUIREMENTS</b>	
Waiting room shall provide visual privacy for people waiting	

**ADDITIONAL REQUIREMENTS**

None

**BUILT-IN FIXTURES:**

F1 Tack board  
 Brochure rack

**LOOSE FURNISHINGS:**

L1 4-6 visitor chairs  
 2 Side tables w/ lamps  
 Teacher desk and chair  
 Mounted monitor for educational videos

**AUDIO VISUAL EQUIPMENT**

See Educational Technology Requirements

**EXAM ROOM #1****QUANTITY:**

2

**CAPACITY:**

Up to 3 people

**SIZE:**

80 SF

**GOAL:**

To provide school based health services

**PROGRAM ACTIVITIES:**

First aid

Health screening

Medical treatments

Medication administration

**SPATIAL RELATIONSHIPS:**

Located in the health clinic

Near Waiting Area

**SPACE REQUIREMENTS**

Construction:	
Min Ceiling Height:	9'-0"
Acoustics:	AC3 - Office
Window shading:	S1A -Blinds/Shades and Manually Operated Blackout Shades
Plumbing:	
Fixture Type:	Lavatory w/sensor control faucet
Power & Lighting	
User Convenience (excludes outlets for AV, security, etc.):	Duplex on perimeter walls at twelve feet (12'), outlets for computer charting station and vital station height.
Lighting level	L6 - 40 FC ambient, 70 FC at any service points or equipment
Telecommunications	
Outlet (excludes outlets for AV, security, etc.):	Two (2) data drop per wall on two walls
Wireless Requirements:	TW2 - 2 wireless devices per occupant (based on maximum occupancy)
SPECIALTIES	
Special features:	4' base cabinet; 4' wall mounted cabinet; handwash sink; wall mounted medical computer desk, curtains on windows, Privacy curtains, paper towel holder, soap dispenser

**ADDITIONAL REQUIREMENTS**

None

**BUILT-IN FIXTURES:**

Cubicle curtain

Soap dispenser

Towel dispenser

Casework: Base/wall cabinets around sink

**LOOSE FURNISHINGS:**

Provider Furnished

Ergonomic chair

Exam table

**AUDIO VISUAL EQUIPMENT**

See Educational Technology Requirements



**EXAM RM #2: DENTAL****QUANTITY:**

1

**CAPACITY:**

Up to 3 people

**SIZE:**

120 SF Operatory

30 SF storage

**GOAL:**

To provide school based dental services

**PROGRAM ACTIVITIES:**

Check-ups

Cleaning

Education

**SPATIAL RELATIONSHIPS:**

Located in the health clinic

Near Waiting Area

**SPACE REQUIREMENTS**

Construction:	
Min Ceiling Height:	9'-0"
Acoustics:	AC2 - High Performance: Conference Room or Confidential Space
Window shading:	S1A -Blinds/Shades and Manually Operated Blackout Shades
Plumbing:	
Fixture Type:	Lavatory w/sensor control faucet, plumbing for dental chair
Power & Lighting	
User Convenience (excludes outlets for AV, security, etc.):	Duplex on perimeter walls at twelve feet (12'), outlets for computer charting station and vital station height. Power for dental station
Lighting level	L6 - 40 FC ambient, 70 FC at any service points or equipment
Telecommunications	
Outlet (excludes outlets for AV, security, etc.):	Two (2) data drop per wall on two walls
Wireless Requirements:	TW2 - 2 wireless devices per occupant (based on maximum occupancy)
SPECIALTIES	
Special features:	4' base cabinet; 4' wall mounted cabinet; handwash sink; wall mounted medical computer desk, curtains on windows, Privacy curtains, paper towel holder, soap dispenser

**ADDITIONAL REQUIREMENTS**

None

**BUILT-IN FIXTURES:**

- Cubical curtain
- Soap dispenser
- Towel dispenser
- Casework: Base/wall cabinets around sink
- Lockable cabinets in the storage closet

**LOOSE FURNISHINGS:**

Provider Furnished:

- Dental chair with overhead light and sink attachments
- Dentist's stool
- Assistant's stool
- Refrigerator in the storage area

**AUDIO VISUAL EQUIPMENT**

See Educational Technology Requirements

**LAB/CHARTING AREA****QUANTITY:**

1

**CAPACITY:**

Up to 2 medical staff

**SIZE:**

100 SF

**SPATIAL RELATIONSHIPS:**

Near Waiting Area/Reception

Adjacent to toilet

**GOAL:**

To provide for lab test and storage

To provide a counter and plumbing for private chart maintenance

**SPACE REQUIREMENTS**

Construction:	
Min Ceiling Height:	9'-0"
Acoustics:	AC3 - Medium Performance: Closed Office
Window shading:	
Plumbing:	
Fixture Type:	Lavatory
Power & Lighting	
User Convenience (excludes outlets for AV, security, etc.):	Duplex at counters at max 2' on center, on walls at twelve feet (12')
Lighting level	L2 - 35 FC at work surfaces
Telecommunications	
Outlet (excludes outlets for AV, security, etc.):	Two (2) data drops at counters at max 2' on center, on walls at max 6' on center
Wireless Requirements:	TW2 - 2 wireless devices per occupant (based on maximum occupancy)
SPECIALTIES	
Special features:	Nurse station units (base cabinet and shelving), 12' long, paper towel holder, soap dispenser

**ADDITIONAL REQUIREMENTS**

None

**BUILT-IN FIXTURES:**

Tack board (4 LF)

Sink w/soap dispenser

Towel dispenser

Specimen door to toilet

Casework:

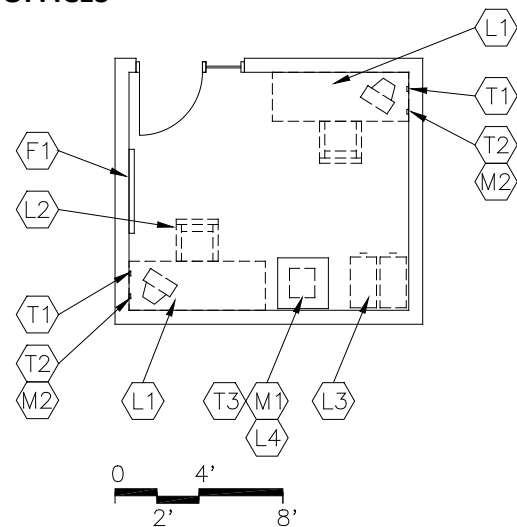
Base cabinets and shelving along one wall

**LOOSE FURNISHINGS:**

**AUDIO VISUAL EQUIPMENT**

See Educational Technology Requirements

**OFFICES**



**QUANTITY:**

2

**CAPACITY:**

Up to 2 people

**SIZE:**

120 SF (includes 50 SF adult toilet)

**SPATIAL RELATIONSHIPS:**

- Adjacent and visual into Waiting Area/Reception

**GOAL:**

To provide an office for the staff to perform clerical functions

**PROGRAM ACTIVITIES:**

- Computer input
- Conferences with staff and other visitors
- Paperwork
- Planning
- Telephone calls

**SPACE REQUIREMENTS**

Construction:	
Min Ceiling Height:	9'-0"
Acoustics:	AC3 - Medium Performance: Closed Office
Window shading:	S1 - Roller Shades, 5% Open
Power & Lighting	
User Convenience (excludes outlets for AV, security, etc.):	2 duplex per wall on three of four walls

Lighting level	L2 - 35 FC at work surfaces
Telecommunications	
Outlet (excludes outlets for AV, security, etc.):	One standard data drop on two side walls
Wireless Requirements:	TW2 - 2 wireless devices per occupant (based on maximum occupancy)

**ADDITIONAL REQUIREMENTS**

None

**BUILT-IN FIXTURES:**

F1 Tack board

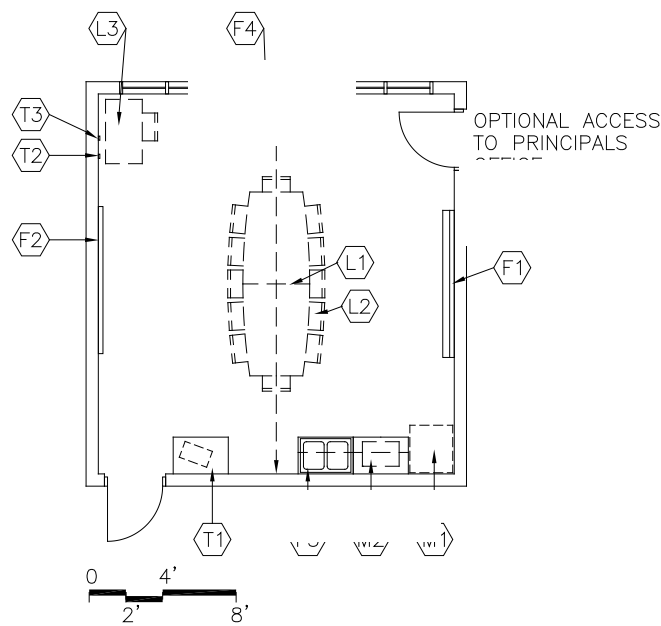
**LOOSE FURNISHINGS:**

- L1 1 desk
- L2 1 ergonomic task chair
- L3 1, 4-drawer file cabinet
- L4 Printer table
- Guest chair
- M1 Printer
- M2 Computer

**AUDIO VISUAL EQUIPMENT**

See Educational Technology Requirements

MENTAL HEALTH CONFERENCE ROOM



QUANTITY:  
1

CAPACITY:  
Staff  
Teachers  
Visitors

SIZE:  
200 SF

SPATIAL RELATIONSHIPS:  
Near Mental Health Office

GOAL:  
To provide an area adequate for small and medium group conferences  
To provide an area for testing.

PROGRAM ACTIVITIES:  
Group counseling and mediation  
Staff collaboration

SPACE REQUIREMENTS

Construction:	
Min Ceiling Height:	9'-0"
Acoustics:	AC2 - High Performance: Conference Room or Confidential Space
Window shading:	S1A -Blinds/Shades and Manually Operated Blackout Shades

Power & Lighting	
User Convenience (excludes outlets for AV, security, etc.):	Duplex on perimeter walls at twelve feet (12'), 2 recessed floor quad
Lighting level	L3 - 35 FC at work surfaces and walls
Telecommunications	
Outlet (excludes outlets for AV, security, etc.):	1 standard data drop on two walls and 1 recessed floor box with standard (2) data outlets
Wireless Requirements:	TW2 - 2 wireless devices per occupant (based on maximum occupancy)
ADDITIONAL REQUIREMENTS	
Conference Room Technology –Conference rooms will have one on-table computer connections to a video display screen and be internet capable. One lighting/multi-media control panel shall be table mounted and one wall mounted.	

**ADDITIONAL REQUIREMENTS**

None

**BUILT-IN FIXTURES:**

- F1 Marker board (8 LF)
- F2 Tack board (8 LF)
- Manual projection screen

**LOOSE FURNISHINGS:**

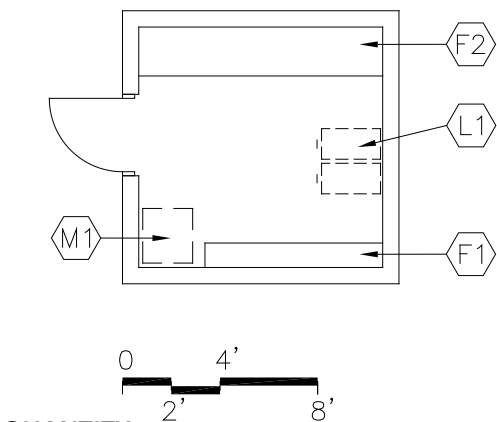
- L1 1-2 Conference tables for 10 w/ conference room technology built-in
- L2 12-15 stackable chairs
- L3 Computer workstation furniture

**AUDIO VISUAL EQUIPMENT**

See Educational Technology Requirements



STORAGE AREAS



QUANTITY:

1

CAPACITY:

Up to 1 person

SIZE:

50/80 SF

SPATIAL RELATIONSHIPS:

Adjacent and access to Treatment Area

GOAL:

To provide storage for medical supplies and equipment

PROGRAM ACTIVITIES:

Storage

SPACE REQUIREMENTS

Construction:	
Min Ceiling Height:	9'-0"
Acoustics:	AC8 - Utility Space
Window shading:	
Plumbing:	
Fixture Type:	Cconnection for ice maker
Piped services:	Cold water
Special drains:	Drain connection to fixtures
Power & Lighting	
User Convenience (excludes outlets for AV, security, etc.):	Duplex on perimeter walls, one per wall
Lighting level	L6 - 40 FC ambient, 70 FC at any service points or equipment
Telecommunications	

Outlet (excludes outlets for AV, security, etc.):	1 standard data drop per room
Wireless Requirements:	TW1 - 1 wireless device per occupant (based on maximum occupancy)

**ADDITIONAL REQUIREMENTS**

None

**BUILT-IN FIXTURES:**

F1 Storage shelving - 12" deep

F2 Storage shelving - 24" deep

**LOOSE FURNISHINGS:**

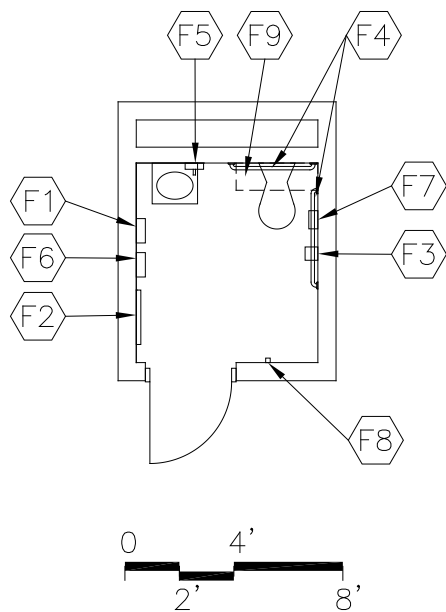
L1 File cabinets

M1 Refrigerator (lockable) with ice maker (may be in treatment room instead)

**AUDIO VISUAL EQUIPMENT**

None

STUDENT TOILET



QUANTITY:  
2

CAPACITY:  
Up to 1 person

SIZE:  
50 SF

SPATIAL RELATIONSHIPS:  
Located within Health Clinic adjacent to the Lab with a pass-thru for samples

PROGRAM ACTIVITY:  
Personal and health needs for the health clinic

SPACE REQUIREMENTS

Construction:	
Min Ceiling Height:	8'-0"
Acoustics:	AC7 - Public Space
Window shading:	None
Plumbing:	
Fixture Type:	Toilet, lavatory w/sensor control faucet
Power & Lighting	
User Convenience (excludes outlets for AV, security, etc.):	GFI Duplex at lavatory, one per room
Power density:	PW1 - 1W/ASF
Lighting level	L7 - 25 FC ambient

Lighting control	LC8 - Public Space
Telecommunications	
Outlet (excludes outlets for AV, security, etc.):	None
Wireless Requirements:	TW1 - 1 wireless device per occupant (based on maximum occupancy)
SPECIALTIES	
Special features:	Provide pass-through for specimens to nursing area

**ADDITIONAL REQUIREMENTS****BUILT-IN FIXTURES:**

- F1 Towel dispenser
- F2 24" x 60" mirror
- F3 Toilet tissue holder
- F4 36" and 42" grab bars
- F5 Soap dispenser
- F6 Sanitary dispenser
- F7 Sanitary disposal
- F8 Coat hook
- F9 Casework: Wall cabinet

**LOOSE FURNISHINGS:**

None

**AUDIO VISUAL EQUIPMENT**

None

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## SECTION 1 Project Outline

## **1.1 GENERAL DESIGN CRITERIA**



## SECTION 2 DESIGN & CONSTRUCTION REQUIREMENTS

## **2.1 Site Design Requirements**

### **2.1.1 Exterior Performance Requirements**

#### **2.1.1.1 Exterior Shading**

- (a) The Buildings within the Project Site shall be positioned so as to provide shade and reduce urban heat effects. Structures with materials, design, or forms that produce solar glare into or onto adjoining Buildings, streets, pedestrian walkways or publicly accessible outdoor spaces shall be avoided.
- (b) Primary entrances into Buildings shall attain 25% shade coverage as measured at 1:00 P.M. on the equinox. This requirement does not apply to secondary entrances into such Buildings.

#### **2.1.1.2 Site Topography and Grading**

- (a) All Building entrances shall be universally accessible.
- (b) All Project Site grading shall be designed with consideration of adjacent Work, Facilities or Buildings so that landforms and grade transitions are coordinated between Project boundaries and such Work, Facilities or Buildings.
- (c) The grading plan shall be developed so as to maximize opportunities for on-site stormwater quantity and quality control.
- (d) Planted areas shall be graded to maximize opportunities for on-site stormwater quantity and quality control.
- (e) Paved areas shall be graded to encourage sheet flow to planted areas.

### **2.1.2 Landscaping Requirements**

#### **2.1.2.1 General Landscaping Requirements**

- (a) Developer shall design and construct all landscaping elements and associated irrigation systems within the Project Site.
- (b) Permanent irrigation is not required. Hose bibbs or quick connect irrigation connections shall be provided such that no landscaped or planted areas is more than 150' from a point of connection.
- (c) Developer shall design and construct Project Site landscaping to emphasize regional natives, avoid invasive or allergenic species, and to include plantings that are compatible with the Buildings and Outdoor Facilities.
- (d) Developer shall incorporate water-efficient landscaping practices in all landscape installations.
- (e) Where used, Irrigation systems shall be designed to an irrigation efficiency of greater than 0.85,
- (f) Developer shall provide landscaping around Buildings, except where pedestrian walkways directly abut the Building.
- (g) Planting within 100 feet of any Building shall not support flame or permit the spread of fire. Mulch, bark or other ground cover material shall not support flame or spread of fire.

#### 2.1.2.2 Plant Materials Requirements

- (a) Plant materials shall be first class representatives of their normal species or variety. They shall have typical branching systems and vigorous root systems. Plants shall be free of pests and diseases, disfiguring knots, scalds, bark abrasions, or other injuries. Trees shall have straight trunks with the leader intact, undamaged and uncut unless multi-trunk trees are specified. Trees shall provide good growth and rapid appearance of maturity.
- (b) Trees shall be a minimum 2" caliper size, ball and burlap. Groundcovers, vines, and ornamental grasses shall be a minimum of one (1) gallon container in size. Shrubs and woody perennials shall be a minimum of five (5) gallon container in size. All one (1) and five (5) gallon container stock shall have been grown in their containers for a minimum of six (6) months and a maximum of one (1) year. All balled and burlap trees are root pruned per PGCPs standards.
- (c) Planting shall be designed to have mature appearance within seven years.

#### 2.1.2.3 Irrigation Requirements

- (a) Where Irrigation systems are installed,
  - i. The irrigation system shall be designed to prevent overspray or run-off from the irrigation zone onto any paved surface or into any surface water drainage element. Overspray or run-off into other planting zones shall be minimized.
  - ii. The automatic irrigation system shall be designed based upon WUCOLS guidelines and meet the LEED v4 Requirements for Water Efficiency, Outdoor Water Use Reduction Credit: Water Efficient Landscaping to reduce overall landscape use of potable water by 50% from calculated midsummer baseline figures, and contain an evapotranspiration system. In addition, the system controllers shall include soil moisture monitoring and weather monitoring to manage watering cycles.
  - iii. All irrigation zones shall be separated by planting type and tree irrigation shall be considered a separate zone.

### 2.1.3 Exterior Amenities

#### 2.1.3.1 Waste Receptacles

Developer shall install exterior waste receptacles in Exterior Areas at main building entrance, and in accordance with the Project Master Plan

## **2.2 Project Site Circulation**

### **2.2.1 Vehicle & Pedestrian Circulation**

#### **2.2.1.1 Site Circulation elements**

- (a) all paved areas shall be constructed with clean and neat edges, and shall incorporate appropriate curbs or edging elements as needed to prevent spreading or edge degradation, and to prevent plant intrusion. Curbs shall be installed at all vehicular paving;

#### **2.2.1.2 Site Paving Materials**

All areas subject to vehicular traffic, including both regular traffic (roads, service and loading areas, and parking), and occasional traffic (walkways, plazas, bicycle paths and landscaped areas) shall include the following types of paving materials:

- (a) Vehicular paving:
  - i. all paving shall be uniform vehicular quality paving, constructed with appropriate subgrade preparation, sub base, and base to handle all anticipated traffic demands for loading, speed, turning, stopping and starting with no rutting or buckling. The pavement structure shall be engineered to determine the type and thickness of pavement surface course, base, and subbase layers that in combination are cost effective and structurally adequate for the projected traffic loading and site conditions.;
  - ii. hard vehicular paving shall be hard vehicular quality paving, such as asphalt, concrete, unit pavers, or similar. Road construction shall be appropriate for material selected. Refined coal tar sealers shall not be used
- (b) Pedestrian and bicycle paving:
  - i. all paving shall be uniform pedestrian and bicycle quality paving, constructed with appropriate subgrade preparation, sub base, and base, to handle all anticipated traffic demands for loading, speed, turning, stopping and starting with no rutting or buckling.
  - ii. hard paving shall be hard surfaces such as, concrete unit pavers or similar with a three year aged solar reflectance index no less than 0.4. Asphalt paving shall not be used for plazas, pedestrian or bicycle paving;
  - iii. all walking surfaces shall be slip resistant and have a coefficient of friction not less than 0.30. The coefficient of friction will be measured by California Test 342 before pavement is opened to public traffic.

#### **2.2.1.3 Traffic Loading and Dimensions**

Project Site circulation areas shall meet the following traffic loading requirements, as indicated by the Area Data Sheets:

- (a) Roadways, parking and service/loading zones. All vehicular areas shall be structurally designed to accommodate the maximum anticipated vehicle and withstand the anticipated load, speed, size and frequency. Anticipated vehicles include full sized busses and coaches,

and fully loaded fire trucks. All paving designs shall be based on a Traffic Index (TI) calculation. Loading capacity shall not be limited to designated fire lanes.

- (b) All elements within the paved areas, including tree grates, manhole/handhole/valve covers shall be designed to accommodate traffic loading.

#### 2.2.1.4 Project Site Roadway Signage

Developer shall provide all required signage for safe operations and wayfinding for all roadways, parking, pedestrian walkways, and bicycle paths. All pavement markings and roadway signage for circulation roadways shall conform to the requirements of the current edition of the MUTCD.

## **2.3 Site Infrastructure and Utilities**

Developer shall design and construct the Infrastructure in accordance with the requirements of this Section 2.3.

### **2.3.1 General Requirements**

2.3.1.1 All Utilities within the Project Site, all Infrastructure, and all modifications to Existing Infrastructure, shall be designed and sized to accommodate the required capacity of the Facilities and any existing facilities served by such utilities, and shall be designed and constructed in accordance with the PGCPs's construction standards Division 33.

2.3.1.2 Developer shall remove all abandoned utilities within the Building footprint and seal or cap all points of connection to existing utilities. All active utilities within the project site shall be relocated as part of the Project.

2.3.1.3 Underground "wet" utilities shall be buried at a minimum depth of five (5) feet. This exceeds maximum frost depth for the area.

2.3.1.4 Underground "dry" utilities shall be buried at a minimum depth of three (3) feet.

2.3.1.5 The location and use of Facility services and Utilities shall not create visual or safety impacts or impede circulation and all Utility Devices shall be screened from Users' sight.

2.3.1.6 Utility Metering:

- (a) All Utility services shall be provided with meters at individual Buildings to allow for the tracking and monitoring of individual Building usage. Meters for electricity, gas and water shall be provided and installed by Developer. These meters are in addition to any meters provided by utility company for billing purposes.
- (b) Meters shall be Revenue Grade with accuracy of 0.2% or better. All meters shall be connected to the Building Management System for the Project, and shall be capable of continuous reporting.
- (c) For volume based utility services (water and gas) meter shall measure volume, flow and pressure. For electricity, meter shall measure phase volts, phase currents, neutral currents, ground currents, power consumption kWh, adjustable power demand kW, kVA & kVAR, Power Factor, and peak loads. For chilled water, meter shall measure volume, flow, pressure, supply and return temperature, total power (Btu) consumption and peak demand.

2.3.1.7 Utility Corridors

- (a) All utility mains shall be installed within dedicated utility corridors.
- (b) Utility Corridors shall be of a minimum width to accommodate the family of utilities routed within, including utilities outlined in the master plan but not yet installed.
- (c) Utility corridors shall accommodate regulatory-mandated separation between utilities of certain type (e.g. the separation between domestic water and sanitary sewer), and be in accordance with Division 33 of the PGCPs Design Standards.

- (d) For utilities installed at a vertical depth of up to four (4) feet, a minimum of two (2) feet of horizontal clearance shall be maintained on both sides to accommodate excavation for service or repair. Multiple conduits of like service (e.g. Telecom) may be bundled and considered a single utility for spacing purposes.
- (e) For utilities installed at a vertical depth of greater than four (4) feet, one (1) additional foot of horizontal clearance shall be maintained on both sides for every additional two (2) feet of depth, to a maximum of five (5) either side.
- (f) Overhead and peripheral clearance shall be maintained to allow for work by excavating and lifting equipment such as backhoes.
- (g) Utility Corridors shall be placed outside the mature dripline of all planned and existing trees.

#### 2.3.1.8 Utility Devices

- (a) Utility Devices include any device or equipment that forms part of the Utility system, such as transformers, fire hydrants, meters, pressure reducing station and other utility devices ("Utility Devices").
- (b) Visible Utility Devices shall be designed as integral elements of the overall design and housed within the building footprint or visually screened by architectural or landscape screening (e.g. within service yards) to minimize visual impacts or circulation conflicts for Users. Screening or location shall not impair the Utility Device function, access, or maintainability. Screening shall not be used for fire protection devices requiring high visibility.
- (c) Above grade Utility Devices shall be set on concrete pads sized to provide a minimum of three (3) foot hard working surface at any required access points.
- (d) The locations of Utility Devices, delivery areas, and trash collection areas shall be integrated into the building and landscape design concept. Locations shall be shown on design development site plans.
- (e) Utility Devices shall not be allowed near main entrances to a Building.
- (f) A minimum setback of three (3) feet is required for all Utility Devices and fire department connections located behind a curb so as to avoid vehicle impact. In the event that such Utility Devices or fire department connections are exposed to damage or vehicle impact, protection for such elements shall be provided per the International Fire Code and Fire Authority
- (g) Vaults shall not be located on primary walking paths and shall be shown on design development site plans.
- (h) The design location of Utility Devices or other Infrastructure devices that are visible to the Users shall be identified in the Work Submittal Review Process.
- (i) All above grade Utility Devices shall be painted or coated to protect them from corrosion and to minimize their visual presence. Utility Devices shall be of a uniform color and finish. Specific paint or coating shall be subject to the Owner's review and shall be consistent with current Owner's practices.

### 2.3.2 Temporary Utilities

#### 2.3.2.1 General Requirements

- (a) Developer shall obtain temporary Utilities for all Construction Work from the Owner or directly from Utility Owners. Developer shall provide and maintain any necessary temporary structures required in connection with the temporary Utilities.
- (b) Developer shall submit to Owner for Owner's review and approval drawings and plans for temporary Utilities for the Construction Work.
- (c) Developer shall maintain and operate all temporary Utility systems to provide continuous service.
- (d) Developer shall modify and extend existing Utility systems, as required, during the performance of the D&C Work.
- (e) The use and methods of installation of temporary Utilities shall not create unsafe conditions or violate applicable Law.
- (f) Developer shall submit all plans for temporary Utilities to the Owner for review and approval in accordance with the Technical Requirements.
- (g) Developer must comply with PGCP's MS4 permit requirements for stormwater management during construction in accordance with Section 2.3.1

#### 2.3.2.2 Removal and Reconditioning of Temporary Utilities

- (a) All temporary Utilities and associated temporary structures shall be promptly removed at the completion of the Construction Work for which such temporary Utilities and associated temporary structures were required.
- (b) All Utilities shall be restored to their original condition at the completion of Work.

### **2.3.3 All Facilities affected by the Stormwater**

#### 2.3.3.1 Stormwater

Developer shall design and construct a stormwater management system at the Project Site in accordance with PGPS Standard Specifications Division 33 and the following requirements:

#### 2.3.3.2 Municipal Permit

- (a) Comply with the requirements found in the most recently adopted "State Water Resources Control Board, National Pollutant Discharge Elimination System (NPDES) General Permit for Waste Discharge Requirements (WDRs) For Storm Water Discharges From Small Municipal Separate Storm Sewer Systems (MS4s) (General Permit)"

#### 2.3.3.3 Post-Construction Requirements

- (a) Comply with Post-Construction Requirements under the Phase II Small MS4 stormwater permit.

#### 2.3.3.4 Construction General Permit

- (a) Comply with the requirements found in the most recently adopted "State Water Resources Control Board, National Pollutant Discharge Elimination System (NPDES) General Permit for Waste Discharge Requirements (WDRs) For Storm Water Discharges Associated with Construction and Land Disturbing Activities (CGP)". Allocation Limits

#### 2.3.3.5 Storm Water Quality



- (a) Site design shall effectively reduce runoff and pollutants associated with runoff from development and pollutant-generating sources.
- (b)
- (a) Developer shall minimize the discharge of pollutants to the MS4 through installation, implementation, and maintenance of BMPs.

2.3.3.6 Lift stations within the stormwater utility are prohibited.

2.3.3.7 Drainage Report. The Developer shall submit a drainage report during design for Owner review and approval.

#### **2.3.4 Potable Water**

Developer shall design and construct a potable water system at the Project Site in accordance with PGPS Standard Specifications Division 33 and the following requirements:

##### **2.3.4.1 Performance Requirements**

- (a) The potable water system shall, at a minimum, provide adequate flow and pressure for the water demand (both “domestic” and “industrial”) and fire demand of each building.

#### **2.3.5 Wastewater**

Developer shall design and construct a waste water management system at the Project Site in accordance with PGPS Standard Specifications Division 33 and the following requirements:

##### **2.3.5.1 Performance Requirements**

- (a) The wastewater collection system shall, at a minimum, provide:
  - i. Design flow velocity in pipe shall be a minimum of two (2) feet per second at average daily flow and a maximum of ten (10) feet per second at peak daily flow.
  - ii. Wastewater pipe at peak daily flow shall have a maximum depth to diameter (d/D) ratio of 0.5.
- (b) Flows of all buildings served shall not exceed the maximum d/D ratio at any point.
  - i. A wastewater pipe at capacity is defined as a pipe flowing with a depth to diameter ratio (d/D) of 0.5 at peak flow.
- (c) Stormwater runoff shall not be conveyed to the sanitary sewer, with the exception of small, outdoor areas used for trash or washdown, in which case the area shall be minimized, served by a grease/sand interceptor, and stormwater run-on eliminated.

2.3.5.2 Lift stations within the wastewater utility are prohibited.

#### **2.3.6 Water For Fire Protection Systems**

2.3.6.1 Developer shall design and construct fire protection systems at the Project Site in accordance with PGPS Standard Specifications Division 33 and the following requirements:

2.3.6.2 Developer’s obligations for fire protection systems are to design and construct a complete fire protection system, including all required connections to existing piped systems for the Project. Developer

shall design and construct all fire protection systems, including fire department connections, as well as fire protection systems within the Buildings in accordance with the following requirements:

- (a) The design shall be undertaken in coordination with the local fire agency.
- (b) The location of fire department connections shall be subject to the approval of the Owner and local fire agency.
- (c) All fire hydrants, post indicator valves, and other fire related Utility Devices, including fire department connections, shall be clearly visible from the street.
- (d) The ports of any wet standpipe fire department connections that are accessible to the Users shall be protected with Knox style caps to prevent vandalism. Otherwise, metal caps are acceptable.
- (e) An inspection of underground installation, back flush, and hydrostatic test shall be conducted by Developer and witnessed by a representative of the Owner prior to backfill.
- (f) Developer shall obtain NFPA 24 inspection and installation certificates prior to acceptance testing and have them signed off by the Owner immediately after acceptance testing and approval.
- (g) Maintain a three (3)-foot clear radius around the fire department connection. Grade variation within this radius shall not exceed 1:12. The fire department connection shall be arranged so that hose lines can be ready and conveniently attached to inlets without interference from any nearby objects including Buildings, structures, fences, posts, landscape planting, or other fire department connections.
- (h) All piping shall be hydrostatic-pressure tested in accordance with the Technical Requirements, and the most recently adopted edition of NFPA 24 Underground piping shall be center-loaded and all fittings, joints, strapping, and thrust blocking shall be exposed for hydrostatic pressure testing and inspection per NFPA 24.
- (i) Fire hydrants shall be placed throughout the Project Site such that the hose lay to a building is no more than three hundred (300) feet, and distance between fire hydrants does not exceed 600 feet.

### **2.3.7 Power**

2.3.7.1 Developer shall design and construct an electrical power system at the Project Site in accordance with PGPS Standard Specifications Division 33

### **2.3.8 Natural Gas Infrastructure**

2.3.8.1 Developer shall design and construct a natural gas system at the Project Site in accordance with PGPS Standard Specifications Division 33

### **2.3.9 Exterior Lighting, Power and Data Systems and Infrastructure**

#### **2.3.9.1 Exterior Lighting**

Developer shall, in accordance with the following requirements, design and construct a safe and sustainable exterior lighting, power, and data system and associated Infrastructure that accommodate pedestrians and nighttime circulation. Developer shall comply with the following requirements:

- (a) Road and Service Lighting: Lighting levels shall be a minimum of 0.9 Foot Candle (FC), with a uniformity ratio of 4:1 or better. Lighting may not be reduced for off hours.
- (b) Parking Lighting: Lighting levels shall be a minimum of 1 FC, with a uniformity ratio of 6:1 or better. Lighting may be reduced to 0.5 FC between 11:00 p.m. and 6:00 a.m., provided adaptive lighting is used to increase lighting when people are present.
- (c) Pedestrian and Bike Lighting: Lighting levels shall be a minimum of 1 FC, with a uniformity ratio of 4:1 or better. Lighting may be reduced to 0.5 FC between 11:00 p.m. and 6:00 a.m., provided adaptive lighting is used to increase lighting when people are present.
- (d) Plaza and Gathering Area Lighting: Lighting levels shall be a minimum of 3 FC, with a uniformity ratio of 4:1 or better. 3 FC is required for events or gatherings. Lighting shall operate at 1 FC in normal usage, and may be reduced to 0.5 FC between 11:00 p.m. and 6:00 a.m., provided adaptive lighting is used to increase lighting when people are present.
- (e) Loading Zone Lighting: Lighting levels shall be a minimum of 30 FC, with a uniformity ratio of 4:1 or better. Lighting may be reduced to 0.5 FC when the loading dock is not in use, provided adaptive lighting is used to increase lighting when people are present.

#### 2.3.9.2 Site lighting shall be designed to follow Project Site landscape design concepts

- (a) All Project Site lighting shall be designed and constructed to at a minimum meet light level and uniformity requirements of the IESNA, except where the Project Transaction Documents require higher levels.
- (b) Project Site lighting shall be designed and constructed to meet the LEED 4.0 Requirements of Sustainable Sites: Light Pollution Reduction.
- (c) Light fixtures shall meet the Backlight, Uplight, Glare (BUG) ratings, in compliance with Illuminating Engineering Society (IES), Technical Memorandum TM-15, for the lighting zone of the site to limit light pollution. Accessible areas within the Project Site shall have a rating of LZ2. All other Areas shall have a rating of LZ0 unless otherwise determined by PGCPs.
- (d) Project Site lighting will be integrated with the BMS for photocell and time schedule control via relay panels.
- (e) Emergency and egress (safety) fixtures shall be coordinated with emergency power requirements and obtain approval from Designated Fire Marshal.
- (f) Lighting sources shall have a color rendering index of eighty (80) or better.

#### 2.3.9.3 Exterior Convenience Power and Data Points

Developer shall provide convenience power outlets and data distribution in accordance with the requirements set forth below:

General Site: Provide exterior grade lockable cover duplex receptacles distributed throughout the site to facilitate site maintenance and public use, including, but not limited to outdoor study, public performance activities, amplified music, food service, etc. Outlet distribution shall be planned based on outdoor space design, with higher density of outlets and circuits where higher activity levels are anticipated.

## **2.4 Building Performance Requirements**

### **2.4.1 General Requirements**

2.4.1.1 Developer shall design and construct the Buildings in accordance with the requirements of the Contract Documents, including, in respect of each Area with the Buildings, the requirements of the applicable Area Data Sheet.

### **2.4.2 Circulation Requirements**

#### **2.4.2.1 Specific Space and Accessibility Requirements**

- (a) The Buildings shall be designed to provide universal access and to conform to all ADA requirements.
- (b) Gender inclusive restrooms, changing rooms and showers.
  - i. For all Buildings, one gender inclusive, ADA compliant restroom shall be required on each floor that has gender specific restrooms.
  - ii. Gender inclusive, ADA compliant changing room shall be required in each Building where gender-specific locker rooms or changing rooms are provided, and shall be located within such locker room or changing room so the User need not leave the locker room or changing room to access such gender inclusive changing room;
  - iii. Gender inclusive, ADA-compliant showers shall be required in each Building in which gender-specific showers are provided. In the event such gender inclusive showers are to be located within a locker room or changing room, such gender inclusive showers shall be located so that the User need not leave the locker room or changing room to access such gender inclusive shower.

## **2.5 Buildings**

### **2.5.1 Structural Systems**

#### **2.5.1.1 General Requirements**

- (a) Building structural frames shall be designed to minimize impact on the Program and visual appearance of the interior of the Buildings. The columns and braces shall not be placed in a manner that will limit interior functional floor area or useable wall area.

#### **2.5.1.2 Foundations**

- (a) The foundations for all Buildings and structures shall be designed and constructed in conformance with the geotechnical investigation report.
- (b) Design and construct perimeter walls for lateral soil, hydrostatic and seismic soil pressures, as designated by Developer's geotechnical investigation report.
- (c) Provide subdrainage systems for below-grade walls to relieve hydrostatic pressure associated irrigation water, or stormwater. Permanent pumped dewatering systems to lower the groundwater table at the site shall not be permitted.

#### **2.5.1.3 Gravity Loads**

- (a) The structural frame of the Buildings shall conform to the design live loads set forth in Table 2.5.1.3-a.

<b>Live Load Requirements for Buildings Structural Design</b>	
<b>Area or Element</b>	<b>Minimum Design Live Load</b>
Laboratory	100 psf plus 35 psf for casework and partitions <sup>1</sup>
Area Types identified as Storage: General	150 psf
Area Types identified as Stairwells	100 psf
All other spaces	80 psf plus 20 psf for partition loads
Rooftop mechanical spaces	Weight of equipment plus 30 psf. Snow loading, including snow drift loading shall be included per ASCE 7-10, with a minimum drift load of 35 psf

**Table 2.5.1.3-a**

- (b) All other design gravity loads shall conform to applicable Law.

### **2.5.2 Minimum Floor-To-Floor Heights**

**2.5.2.1** Floor-to-floor heights shall be designed and constructed to accommodate structural frame and Facility System components concealed within ceiling space in accordance with these Technical Requirements. Maintenance space above ceilings shall not require any special equipment or demolition of ceiling for access.

2.5.2.2 Ceiling height shall be defined as the minimum clear distance between the dominant floor surface, excluding lecture platforms or daises and the dominant ceiling plane. Soffits, beams, light fixtures and fire sprinklers may penetrate below the plane by up to three (3) inches, provided they do not interfere with sightlines or overall room performance, and provided a minimum safe clearance underneath is maintained. Soffits and beams may not comprise more than eight percent (8%) of the total ceiling area.

- (a) For rooms with exposed structure and utilities, the dominant ceiling plane shall be defined as the underside of the lowest element, except that soffits, beams, light fixtures and fire sprinklers may penetrate below the plane by up to three (3) inches.
- (b) For rooms with multiple ceiling planes, the dominant ceiling plane shall be defined as the underside of the lowest ceiling plane, except that soffits, beams, light fixtures and fire sprinklers may penetrate below the plane by up to three (3) inches.
- (c) Ceiling mounted equipment, such as projectors may be located below the dominant ceiling plane, provided they do not interfere with sightlines or overall room performance, and provided a minimum safe clearance underneath is maintained. Acoustic clouds or other treatment may not be placed below the dominant ceiling plane
- (d) Pendant (Direct/Indirect) light fixtures may be used, provided ceiling heights are increased to ensure that the overall appearance and operation of the space is maintained. In general, for ceilings heights of less than twelve (12) feet, ceiling heights will be required to increase by two (2) feet. Ceiling heights from twelve (12) to fourteen (14) will need to increase by one (1) foot.

### 2.5.3 Floor Systems

2.5.3.1 Slab on grade:

- (a) All slabs on grade shall be constructed with under slab vapor barriers with a water vapor permeance no greater than 0.010 perms (0.6 ng/(s m<sup>2</sup> Pa).
- (b) Moisture or waterproofing shall be provided at all slabs subject to ground water
- (c) Physical (non-chemical) termite barriers shall be provided at all slabs where termite activity is possible and where there is a potential for damage to building fabric
- (d) The site shall be evaluated for the presence of Radon or other soil gasses, and appropriate measures shall be implemented including passive or active systems in accordance with ANSI CC-1000 if indicated.

2.5.3.2 All slabs shall be constructed to be suitable for the intended floor finish, and to protect the finish from failure or accelerated deterioration. This shall include

- (a) moisture control, including limiting slab moisture, moisture testing and moisture barriers
- (b) surface smoothness, including elimination of trowel marks and ridges
- (c) crack control through control joints

2.5.3.3 Finish surfaces to the following tolerances, according to ASTM E 1155 (ASTM E 1155M), for a randomly trafficked floor surface:

- (a) For slabs-on-grade, overall values of flatness, F(F) 35; and of levelness, F(L) 25; with minimum local values of flatness, F(F) 24; and of levelness, F(L) 17

- (b) For suspended slabs, overall values of flatness, F(F) 30; and of levelness, F(L) 20; with minimum local values of flatness, F(F) 24; and of levelness, F(L) 15
- (c) Finish and measure surface so gap at any point between concrete surface and an unlevelled, freestanding, 10-ft.- long straightedge resting on two high spots and placed anywhere on the surface does not exceed 1/8 inch.

#### **2.5.4 Building Envelope**

##### **2.5.4.1 General Design Principles**

- (a) Building envelope shall be designed for efficiency, maintainability, security, and privacy.
- (b) All exterior surfaces shall be treated to be readily cleansable from graffiti.
- (c) Building envelope shall be designed to accommodate thermal movement across the range of temperatures normally experienced in Maryland, including solar radiative heating.
- (d) Cladding shall be designed for snow and freeze resistance.
  - i. Provide wall protection at areas where snow might accumulate. Wall protection shall be waterproof and resistant to moisture or freeze/thaw damage.
  - ii. Eliminate thermal bridging at attached exterior elements.
  - iii. Provide snow melt in gutters or other elements subject to damage from repeated freeze/thaw cycles.
- (e) Provide covered or recessed entries at all buildings.

##### **2.5.4.2 General Requirements**

- (a) Exterior cladding shall be designed to provide very high levels of passive thermal performance, including:
  - i. Minimizing air, moisture and vapor leakage
  - ii. Elimination of thermal bridges: provision of continuous layer of insulation
  - iii. Use of high performance glazing with high visual light transmission to reduce lighting loads, and efficient solar shading

##### **2.5.4.3 Building Façade**

- (a) All exterior cladding shall be designed in accordance with Developer's Integrated Pest Management plan, and shall at a minimum:
  - i. ensure that facilities do not provide potential attraction or habitat for pests
  - ii. be designed to exclude pests
  - iii. be designed to facilitate inspection and monitoring of pest activities
- (b) Developer shall utilize structural and procedural modifications to reduce food, water, harborage, and access used by pests.
- (c) All exterior cladding shall be designed to limit dirt/dust accumulation, and to allow cleaning either from ground boom-lift equipment or from roof mounted staging.
- (d) Where sun control devices are used, operable and fixed sun control devices must be used, which allow for ease of maintenance, repair, and replacement. Window washing systems used for the facility must also be compatible with any sunscreens or sun control devices.
- (e) The facilities must have provisions for cleaning the interior and exterior surfaces of all windows, skylights, and other glazed openings. Demonstrate that cleaning and maintenance

of interior glazing surfaces can be achieved without extraordinary means and methods.  
Submit this information with the construction documents.

## **2.5.5 Interior Finishes**

PR1	
PR2	

**Table 2.5.7.1-a**

### **2.5.5.1 General Partitions Requirements**

Any material selected by Developer for partitions, including movable unitized partitions or any other type of partition selected by Developer, shall conform to all requirements, including load requirements, of the Contract Documents.

**2.5.5.2** Provide, impact protection as required to protect against scratches, dents, and other surface damage. Wall protection may include use of high impact resistant construction (masonry, etc.) or use of bumper rails, floor bumper rails, corner guards or wall paneling. Impact protection shall be stainless steel, Acrovyn or similar. Impact resistance shall protect the full height of the wall from surface damage. Surface damage is defined as any damage that breaks or deflects the surface finish or reduces its functional or visual performance.

## **2.5.6 Autoclaves and Sterilizers**

**2.5.6.1** The Developer shall install the autoclaves and sterilizers noted in the Area Data Sheets and Equipment Lists.

**2.5.6.2** Steam supply shall be at the developer's discretion. Developer may install a building level steam boiler and provide steam to autoclaves and sterilizers, or may use local steam generators. Where local steam generators are used they shall not use Assignable Area. Local generators may be located within an autoclave's footprint, or additional room area may be provided.

**2.5.6.3** Provide vented hoods at all autoclaves, sterilizers, glass wash/dryers and other heat producing equipment.

**2.5.6.4** Provide valved cold water supply to drain outlets to allow for automatic waste water temperature control.

## **2.5.7 Vertical Circulation**

### **2.5.7.1 General Requirements**

- (a) Elevators shall conform to "Division 14 – Conveying Equipment" of PGCP's Building Construction Standards



- (b) Elevators are inspected by the State of Maryland, Elevator Inspectors, Accommodate all associated requirements for design, construction and inspections.

#### 2.5.7.2 Piping

- (a) Sanitary line sloping shall be 2% for piping connected to 1.2 GPF water closets and/or 1.0 GPF urinals

#### 2.5.7.3 Fixtures

- (a) All fixtures shall be low flow and WaterSense labeled. Except for service/utility sinks, dormitories and kitchen/breakrooms, faucets and other water supply devices shall be motion sensor activated wherever possible, or shall include other automatic shut off. Flush valves shall be low flow manually operated flushometers.
- (b) Toilets: Toilets shall be wall hung, vitreous china, siphon jet action, Maximum Performance (MaP) tested by IAPMO to exceed 500g capacity.
- (c) Urinal: Urinals shall be wall hung, vitreous china.
- (d) Lavatory: Wall hung, vitreous china, 20-inch by 18-inch. Sanitary waste traps for equipment shall be "P" type, 17 gauge, cast brass, slip joint nuts, cast brass escutcheons, and cleanout plug. Visible traps shall be chrome plated.
- (e) Sink (Counter Mounted): 18 gauge, type 304 stainless steel sink counter mounted, single bowl, 19-inch by 18-inch by 10-inch deep stainless steel. Deck mounted low flow faucet, lever handle, gooseneck, rigid spout plain outlet. 17 gauge chrome plated 1-1/2-inch by 1-1/2-inch trap.
- (f) Fixtures with metal finishes exposed to and visible by Users shall have a polished chrome finish.
- (g) All fixtures shall be lead free, regardless of if usage is for consumption or not.
- (h) All fixtures shall be vandal resistant.

#### 2.5.7.4 Sewage Systems

- (a) All toilet rooms, laundry rooms and first floor Trash/Recycling rooms shall have floor drains.
- (b) Make all cleanouts accessible. If cleanouts are installed in an accessible ceiling space, the cleanout shall be extended through the floor above. Use graphite on all cleanouts with all threads being thoroughly greased after acceptable pressure test.

#### 2.5.7.5 Emergency Plumbing Fixtures

- (a) Emergency eye or eye/facewash equipment (including appropriate drainage) shall be provided in accordance with the Area Data Sheets. This equipment must meet the performance and installation requirements of American National Standards Institute (ANSI) Z358.1 1998.
- (b) A combination eyewash/emergency shower shall be provided in accordance with the Area Data Sheets. The combination unit must be located so that the travel distance is no more than 10 seconds or 100 feet with no obstructions and only one door to pass through to reach the unit.
- (c) Hand held drench hoses shall not be considered eyewash units. In some cases, a sink-mounted eyewash and a drench hose may be installed in lieu of a combination

eyewash/safety shower. Such cases shall be discussed by Developer's Authorized Representative and the Owner's Authorized Representative.

- (d) All emergency plumbing fixtures shall be:
  - i. supplied by domestic tempered water
  - ii. readily visible and accessible to the laboratory or work site. The unit shall be located as close to the hazard as possible and cannot be blocked by building structures, cabinets, supplies or equipment;
  - iii. provided with an activation device, such as stay open ball valve, that allows the user full movement of both hands after the valve is turned on;
  - iv. identified with a highly visible sign; and
  - v. located so as not to pose an electrical shock hazard. No electrical outlets shall be permitted within six (6) feet unless such electrical outlets are GFI protected.
- (e) In addition to the requirements set forth in Section 2.5.12.10 (d), all eyewash units shall be:
  - i. regulated to provide a spray force of 0.4 gallons per minute at 30 psi;
  - ii. mounted such that the water nozzles are 33 inches to 53 inches from the floor level; height shall also comply with ADA requirements; and
  - iii. mounted so that spray nozzles, when activated, are no more than 18 inches from the counter front when located above work counters or benches.
- (f) In addition to the requirements set forth in Section 2.5.12.10 (d), emergency shower units shall be:
  - i. Installed and located so both the shower and eyewash can be used at the same time by one person;
  - ii. Adequately supplied with potable water to meet the requirements of each component. The shower must be able to deliver a minimum of 20 gallons per minute. The diameter of the water pattern of the shower measured 60 inches above the surface on which the user stands must be a minimum of 20 inches. The center of the spray pattern shall be located at least 16 inches from any obstruction; and
  - iii. Installed so that the shower head is not less than 82 inches or more than 96 inches from the surface on which the user stands.
  - iv. Include floor drains.

#### 2.5.7.6 Rainwater Management

- (a) Open faced downspouts may be used for building rainwater management, provided downspouts along public areas:
  - i. are connected to sub surface storm water systems;
  - ii. occur at articulated corners of the Buildings;
  - iii. are complementary to the architectural style and Building aesthetic in terms of location, profile and color;
  - iv. do not exceed 8" in any dimension; and
  - v. are not used to drain large contiguous and flat roof areas over 18,000 square feet.
- (b) Where downspouts discharge onto paved areas, water flows shall be managed to limit volume and rate of flow to eliminate nuisance flooding. Standing water shall not be

permitted. Sheet flowing water depths shall not exceed 1/8 inch at any point for pedestrian paving and 1/4 inch for vehicular paving.

## **2.5.8 Mechanical Systems**

### **2.5.8.1 General Design Elements**

- (a) HVAC systems for all community spaces (gym, multipurpose room, etc.), health suite, instrumental storage, and main office areas shall be zoned to be able to operate efficiently outside normal school hours, and without requiring operation of other portions of the building. If connected to the central plant, central plant shall be able to be operated efficiently under the lower load. These spaces are often utilized outside of normal school hours and should have systems to limit energy consumption during this time.
- (b) Each classroom shall be a separate thermostatic zone.
- (c) Zones that require powered exhaust by code shall not be grouped with other zones to protect the air balance in the building.
- (d) Buildings shall be balanced to provide 10-15% positive pressurization of all outside air.

### **2.5.8.2 General Requirements**

- (a) Comply with PGCPs Design and Construction Standards
- (b) Developer shall comply with the following Manuals and Guidelines in performing the Work in respect of mechanical systems and associated support system designs:
  - i. ANSI - American National Standards Institute, Inc.;
  - ii. FM - Factory Mutual;
  - iii. UL - Underwriter's Laboratories, Inc.; and
  - iv. SMACNA – Sheet Metal Developer's National Association.
- (c) The Buildings shall also be designed to comply with the following Manuals and Guidelines, except where relevant codes exceed the requirements of the Manuals and Guidelines:
  - i. ASHRAE 55-2017;
  - ii. ASHRAE 62.1-2019; and
  - iii. ASHRAE 90.1-2019.
- (d) The installation or utilization of mechanical systems that use chlorofluorocarbons or hydrochlorofluorocarbons shall not be permitted.

### **2.5.8.3 Ventilation**

- (a) Outdoor air rates shall be the larger of:
  - i. Approved State Building Codes; or
  - ii. ASHRAE Standard 62.1 rates at the breathing level (per LEED EQ credit Enhanced Indoor Air Quality Strategies).
- (b) Outdoor air measurement and control and/or CO<sub>2</sub> sensors are required in accordance with LEED EQ credit Minimum Indoor Air Quality Performance and Enhanced Indoor Air Quality Strategies and Building Code.
- (c) Operable windows shall not be the sole source of ventilation for any occupied space.
- (d) Systems relying on infiltration drawn in by negative pressure from exhaust systems shall not be permitted.

#### 2.5.8.4 General Exhaust Systems

- (a) Exhaust systems shall meet the rates listed in ASHRAE Standard 62.1 except the following higher rates shall be used:
  - i. Toilet rooms (both public and private): 50 cfm per fixture;
  - ii. Shower rooms: 20 cfm per shower head; and
  - iii. Printer/Copy Rooms and rooms with chemical handling shall be exhausted to the outdoors sufficient to maintain a 0.05 inches negative pressure per LEED EQ 5 (Enhanced Indoor Air Quality Strategies). With a minimum of 1 cfm/ft<sup>2</sup>.

#### 2.5.8.5 Filtration

- (a) Air handlers shall include:
  - i. Two (2) inch MERV 8 pleated prefilter. This filter shall serve as a construction filter and be permanently removed post-construction; and
  - ii. Fifteen (15) inch MERV 13 bag filter.
  - iii. Static pressure for central units shall be designed accordingly.
- (b) Fan-coils and other air handlers serving lab areas shall be protected with minimum four (4) inch MERV 8 pleated filters.
- (c) Fan coils serving rooms such as telecom, electrical rooms, utility spaces shall be protected with a minimum two (2) inch MERV 8 pleated filters

#### 2.5.8.6 HVAC Zoning

- (a) All areas of a Building shall be zoned as required to prevent non-uniform temperatures due to variable heat gain from factors including outdoor exposure or variation in people density. Each zone shall have its own thermostat(s) and terminal unit.
- (b) All interior zones shall have heating capability to prevent overcooling except for the following:
  - i. spaces with high internal loads;
  - ii. spaces that are not considered livable per the Approved State Building Codes, such as MDF/IDF rooms and small storage rooms

### 2.5.9 Building Management System

Developer shall install a comprehensive building management system. The BMS installed by Developer shall comply with PGCPs Construction Standards Division 23.

### 2.5.10 Electrical and Lighting Systems

- (c) Floor set power outlets:
  - i. In-floor power outlets shall be recessed or flush as noted in the ADS. Raised or monument outlets shall not be permitted.
  - ii. All flush floor outlets shall have captive/hinged covers that can be held closed by turn screw or similar positive latching mechanism.
  - iii. Recessed outlet boxes shall have hinged covers with wire slots and be large enough to fully enclose any standard 120V plugs, such that the lids close fully when outlets are in use.
  - iv. All outlet boxes and covers shall be corrosion resistant construction and liquid-tight where likely to be exposed to liquid.

#### 2.5.10.1 Generator System

- (a) Emergency Generators shall be installed when required by MEMA Regulations.
- (b) Standby Generators shall be provided to support non-emergency essential loads as noted in the Program Data sheets for a minimum of 24 hours. Essential non-emergency loads include, but are not limited to:
  - i. Security systems, including ACAMS, locks and readers, cameras, etc
  - ii. Alarm and annunciation systems
  - iii. Communications systems, including phones, VOIP, WiFi, Mas Notification, DAS/ERRC/BDA, etc.
  - iv. IT and data systems
  - v. Cafeteria food storage
- (c) MEMA emergency generators and required standby generators may be used to support code mandated emergency loads (emergency lighting, etc). Where such loads are carried by the generator, they shall be included in the fuel capacity calculation such that all connected loads can operate with no load shedding for 24 hours.
- (d) Where installed, generators and associated emergency power systems shall be in full compliance with PGCPs Standard Specification Division 26 for diesel generators
- (e) The emergency and standby generator system must consist of one or more central engine generators and a separate distribution system with automatic transfer switches, distribution panels, lighting panels, and, where required, dry-type transformers feeding 208Y/120V panels.
- (f) The engine generators must be sized to serve approximately 100% of the design load and to run at a maximum of 60% to 80% of their rated capacities after the effect of the inrush current declines. When sizing the generators, the initial voltage drop on generator output due to starting currents of loads must not exceed 15%. Day tanks must be sized for a minimum capacity of 24 hours of generator operation and shall be double-walled. Provide direct fuel oil supply and fuel oil return piping to the on-site storage tank. Care must be exercised in sizing fuel oil storage tanks by taking into account that the bottom 10% of the tank is unusable and that the tank is normally not full (normally at a 70% level) before the operation of the generator.
- (g) Engines and generator sets shall be new
- (h) Generator alarms must be provided on the exterior wall of the generator room. All malfunctions must be transmitted to the BAS. In all buildings, with or without BAS, a generator alarm annunciator must be located within the fire command center. The generator output breaker must have a contact connected to the BAS indicating output breaker position, to allow annunciation of the open position on the BAS.
- (i) Automatic transfer switches must include a bypass isolation switch that allows manual bypass of the normal or emergency source to ensure continued power to emergency circuits in the event of a switch failure or required maintenance.

#### 2.5.10.2 Power Monitoring Systems

- (a) All Facilities shall incorporate power monitoring systems to monitor the total electrical demand load at the service entrance of the Facility.

## 2.5.11 Fire Protection Systems

### 2.5.11.1 Fire Sprinkler Systems

Developer shall design, construct and install a fire sprinkler system that includes, at a minimum, a complete hydraulically calculated automatic wet pipe sprinkler system for entire buildings, in accordance with NFPA 13, Approved State Building Codes and FM Global Fire Code. The system shall also conform to PGCPs design and technical standards.

FP1	
FP2	
FP3	

Table 2.5.16.1-a

### 2.5.11.2 Specific Fire Sprinkler Requirements

- (a) Developer to verify and coordinate requirements by building type with the Fire Authority prior to or with required fire suppression system shop drawing review.
- (b) Coordinate with the overall architectural design to ensure sprinkler head layout addresses interferences and or obstructions requiring special protection, additional piping and heads, or drains. Sprinkler heads shall be placed, as far as possible, within the architectural grid or pattern of the design, and coordinate with the overall architecture of all spaces. Sprinklers shall be symmetrically placed, centered in ceiling tiles, and equidistant between lights, diffusers, and other elements. Sprinklers may be spaced closer than the maximum spacing allowed so that symmetry and even spacing are achieved.
- (c) The maximum permissible flow velocity through automatic sprinkler piping shall be 15.0 feet per second. The minimum starting pressure at the most remote sprinkler head shall be not less than 7 psi.
- (d) Paint all exposed fire sprinkler piping to match wall/ceiling paint color.
- (e) Coordinate routing of sprinkler piping with the other trades for the Project. Main piping runs shall be organized within utility zones where possible to ensure ease of access, renovation or alteration.
- (f) Identify valves and label piping in accordance with NFPA 13 and PGCPs standards. Install stickers applied to the fire sprinkler piping indicating the direction of flow
- (g) Valves in the ceiling or interstitial space shall be located so they are easily accessible by ladder without removing the ceiling grid to access the valves.
- (h) Design shall comply with the Owner's Insurance Underwriters' requirements.

### 2.5.11.3 Sprinkler Heads

- (a) Provide high temperature sprinkler heads in all electrical rooms or other areas with elevated temperatures such as mechanical rooms. Avoid running sprinklers and piping over electrical equipment and electrical panels.
- (b) Provide recessed sprinkler heads in all area. Semi-recessed sprinkler heads are not permitted.

- (c) Provide sprinkler head protection for all heads at exposed ceilings or in areas where heads may be vulnerable to impact from activities in the area below.
- (d) Provide stainless steel or other corrosion resistant heads in all high humidity areas, such as shower rooms and locker rooms and in concealed locations.
- (e) Provide upright type sprinklers for exposed piping, or pendent type heads for concealed piping.
- (f) Use of flexible connectors is permitted. Connector must be UL rated and supported by bracket system connected to the ceiling grid.
- (g) Sidewall Locations: Where required and where approved by the Designated Fire Authority. Sidewall sprinklers are desired for exterior protection to avoid the use of exposed pipe and the requirement for freeze protection.
- (h) Finished Ceilings: Located at all ceilings with lay in acoustical tile ceiling and at plaster or gypsum board type ceilings; Semi recessed sprinkler.
- (i) Ceilings in exterior of Building: Provide sidewall fire sprinkler heads and escutcheons to match ceiling color.
- (j) Where fire sprinkler heads are located in rooms with surfaced mounted lights, provide 2 piece adjustable sprinkler escutcheon, with adjustment from 1-7/8 inches to 3-1/8 inches below finished ceilings. Fire sprinkler drop nipple shall be mounted 2-1/4 inches below the finished ceiling surface.

#### 2.5.11.4 Fire Protection Specialties

- (a) Install drains on main rises and auxiliary drains at all low points in the system. Drains shall be plumbed to the exterior at a location approved by the Designated Fire Authority and in accordance with CDPHE policy.
- (b) One Inspector's test drain shall be installed for each sprinkler system. Drains and Inspector's tests shall be at locations approved by Designated Fire Authority. Inspectors test drains shall be located at a remote location from the riser to facilitate removal of air from the system.
- (c) Provide drain line to sanitary sewer standpipe and P-trap assembly. Drain valves shall be of the angle type. Main drains are to be run into the sanitary sewer, not all drains. The drain shall be sized to accommodate the full flow of the main drain.
- (d) Pipe drain valves to a floor sink or to the other receptors. Discharge shall be visible from sight drain fittings or open end drain pipe. Provide flushing connections at ends of all cross mains. Inspectors test valves and main drains shall not be run into floor sinks. Auxiliary drains may be run into floor sinks, but not drains requiring flow tests such as main drains and inspector's test valves.
- (e) Freeze protection must be provided for all exterior pipes and any pipe that is located in exterior soffits or spaces that do not insulate the sprinkler pipe from freezing.
- (f) Combined standpipe systems (Class I Standpipes combined with a wet fire sprinkler riser): The 2 1/2" fire department outlets that are accessible to the public shall be provided with Knox caps.
- (g) Fire sprinkler risers shall not be located in custodial spaces or storage rooms.

## **2.5.12 Fire Protection and Life Safety Alarm System**

- (a) Fire Protection and Life Safety Systems Components
  - i. Developer shall design, construct and implement a fire protection and life safety system (a “**Fire Alarm System**”) that includes, at a minimum, the following components:
    - 1. fire alarm control panel;
    - 2. initiating devices;
    - 3. fire alarm notification devices;
    - 4. mass notification devices;
    - 5. fireman’s remote annunciator panel (FRAP) with remote microphone; and
    - 6. fire alarm auxiliary equipment control.
- (b) Systems with Connections to the Fire Alarm System
  - i. The following systems, at a minimum, shall be connected to the Fire Alarm System:
    - 1. Automatic extinguishing systems alarm system flow switches, valve monitors and post indicating valves;
    - 2. elevator controllers for recall;
    - 3. door hold-open/closure devices without integral smoke detectors;
    - 4. fire barrier roll-down and shutters;
    - 5. fire/smoke dampers;
    - 6. fire pump controller to monitor status;
    - 7. duct mounted smoke detectors and programmable relays;
    - 8. Gas detection systems or any hazardous materials monitoring systems; and
    - 9. Flow alarms to emergency showers.
- (c) Fire Alarm System shall meet all requirements of PGCPs Technical Standards.
- (a) Fire Protection and Life Safety Alarm System: General Requirements The Fire Alarm system shall be in full compliance with PGCPs Standard Specification 284600 Fire Detection and Alarm System

## **2.5.13 Mass Notification Requirements**

### **2.5.13.1 General Requirements**

The Mass Notification System shall include the following:

- (a) The system shall be capable of the reproduction of prerecorded, synthesized, and live messages with voice intelligibility from two (2) locations; within each building and from Campus Dispatch. Two-way communications systems are not required.
- (b) The system shall provide Layer 1 (in-building emergency communication system) and Layer 2 (wide area MNS) in accordance with NFPA 72.
- (c) The system design shall be based on a risk analysis and assessment by a third party in collaboration with the Designated Fire Official and Public Safety with consideration of each building's use and risks, as well as any exterior spaces such as parking lots, outdoor assembly areas, etc. Prior to system design, the Risk Analysis must be reviewed and approved by the Designated Fire Official and Public Safety.



- (d) The system shall provide seamless, integrated operation from Campus Dispatch with the capabilities of issuing an individual building message or simultaneously delivering a campus-wide message (Layer 1 and Layer 2 simultaneously) for the existing and new portions of the campus.
- (e) The MNS shall be compatible with existing equipment in Central Plant and Campus Dispatch.
- (f) The Designated Fire Official shall approve the sequence of operation for the MNS prior to final design.
- (g) The system shall be integrated with any developer provided PA or other sound reinforcement system in such a manner that it can over-ride or mute audio signals. The system shall also provide input feed for any Owner-provided PA or sound reinforcement system.

## **2.5.14 Security Systems and Infrastructure**

### **2.5.14.1 Access Control and Alarm Monitoring Systems (ACAMS)**

- (h) Developer shall develop and implement a Security System that utilizes an ACAMS platform that utilizes the same software versions being currently utilized in the Existing Campus.
- (i) The ACAMS system shall be in full compliance with PGCPs Standard Specification 281000 Access Control

### **2.5.14.2 Video Surveillance System**

- (a) Developer shall procure and install video monitoring in accordance with the Area Data Sheets to provide comprehensive video surveillance. The locations and positioning of the video surveillance cameras shall be determined in consultation with the Owner during the design review process, but shall include, at a minimum the areas noted in section the education specifications
- (b) Video Surveillance System shall be in full compliance with PGCPs Standard Specification 280000 Electronic Safety and Security

### **2.5.14.3 Emergency Responder Radio Coverage (ERRC)/Bi Directional Amplifiers (BDA)/Distributed Antenna System (DAS)**

- (a) Developer shall provide emergency responder radio coverage (ERRC) for all Facilities in accordance with Approved State Building Codes. The ERRC shall be provided by installation of an amplified distributed antenna system, bi directional amplifier, or other acceptable signal amplification technology approved by code or by the Designated Campus Fire Marshal.

## PGCPS ACF TECHNOLOGY PACKAGES

Updated 8/19/2020

Type	Item	Purc	Coord	Install	O&M	Notes
Building Service (Data and Phone)	Incoming Services - Coordinate with IT	D	D	V	P	
Building Service	Rigid conduit to MDF x 4 inch	D	D	D	D	
Building Service	TV Service	D	D	V	P	
Building Service	TV Distribution System	D	D	D	D	
Building Service	Back-up generator (fly wheel)	D	D	D	D	
Energy Management	BAS Controllers	D	D	D	D	Coordinate with PGCPs maintenance for product.
Energy Management	Cabling for BAS	D	D	V	P	
Multi-purpose rooms AV (Cafetorium/Music/Dance/Media center/Gym/Choral)	Cabling	D	D	D	D	
Multi-purpose rooms AV (Cafetorium/Music/Dance/Media center/Gym/Choral)	Electronics	D	D	D	D	
Phones	Rack	P	D	V	P	
Phones	Cabling	D	D	V	P	
Phones	Jacks	D	D	V	P	
Phones	Faceplates	D	D	V	P	
Misc.	Computers	P	P	V	P	
Misc.	Copiers	P	P	V	P	
Misc.	PoE Clock	D	D	V	P	
Category 6A Cabling	Category 6A Cabling	D	D	V	P	
Category 6A Cabling	Conduits	D	D	D	D	
Category 6A Cabling	Patch Panels	D	D	V	P	
Category 6A Cabling	Jacks	D	D	V	P	
Category 6A Cabling	Faceplates	D	D	V	P	
Category 6A Cabling	Patching	D	D	V	P	
Fiber	Multi-Mode Fiber	D	D	V	P	
Fiber	Connectors	D	D	V	P	
Fiber	Fiber Enclosures	D	D	V	P	
Fiber	Patching	D	D	V	P	
Closet	Rack	D	D	V	P	
Closet	Ladder Runway	D	D	V	P	
Closet	Vertical Wire Managers	D	D	V	P	
Closet	Servers	P	P	V	P	
Network Equipment	Controller	D	D	V	P	
Network Equipment	Network Switches	D	D	V	P	
Network Equipment	Wireless Access Points	D	D	V	P	
Network Equipment	Programming	D	D	V	P	
Network Equipment	UPS	D	D	V	P	
AV	Bell System	D	D	D	P	
AV	PA System	D	D	D	P	
AV	Audio Enhancement System	D	D	V	P	
AV	Cabling (Audio Enhancement)	D	D	V	P	
AV	Interactive Panels	D	D	V	P	
AV	Cabling (Interactive Panels)	D	D	V	P	
AV	Projectors	D	D	V	P	
AV	Non-Interactive Displays	D	D	V	P	
CCTV	Cameras	D	D	D	D	Genetech certified installer.
CCTV	Switches	D	D	V	P	
CCTV	Programming	D	D	D	D	Genetech certified installer.
Access Control	Door Contacts	D	D	D	D	Genetech certified installer.
Access Control	Card Readers	D	D	D	D	Genetech certified installer.

## PGCPS ACF TECHNOLOGY PACKAGES

Updated 8/19/2020

Type	Item	Purc	Coord	Install	O&M	Notes
Access Control	Electronic Strike	D	D	D	D	Genetech certified installer.
Access Control	Proximity Exit Sensor	D	D	D	D	Genetech certified installer.
Access Control	Motion Sensor	D	D	D	D	Genetech certified installer.
Intercom	Intercom	D	D	D	D	Front Door.
Intercom	Cabling	D	D	V	D	
MDF/IDF	Conduits	D	D	D	D	
MDF/IDF	Cabling	D	D	V	D	

### Key

D	Developer
V	Required Vendor
P	PGCPS

**FF&E LIST**

**Introduction**



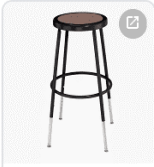



PGCPS does not currently have an adopted furniture standard. The tabs in this spreadsheet should provide some guidance to the type and quality of the movable furniture PGCPS expects. Pictures are provided as visual examples but should not be construed to represent a particular vendor or model. All furniture will be purchased through a PGCPS vapproved vendor.





The first four tabs provide guidance on the most common furniture items. These items should be consistent through the school and across schools.







The remaining tabs address unique furniture or movable equipment and are arranged according to the sections in the educational specification.





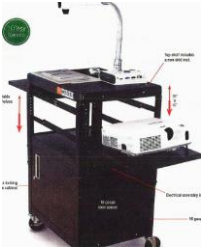
Every attempt has been made to identify all the furniture or movable equipment in the educational specification; however, if an item has been overlooked, the educational specification supercedes this document and must be provided.

On occasion, a furniture item may be more efficiently provided as a built-in. This is acceptable as long as the requirements listed are met.



Chairs	Example	Requirements	Where	In addition	comments
Student chair		Smooth Cantilever Chair 15 gauge steel tubing base with textured enamel shell seat; flex back; no chair baskets for PK-5.	All classrooms and small group rooms		PreK 13" height Grades 1-4 15" height Grades 5-8 18" height
Swivel chair		Swivel chair; 19 1/4 " with no wheels or lockable wheels	Computer work stations		No swivel chairs in PK-K
Stool		Adjustable height stool; 15 gauge steel tubing base	Art and Stem Labs		Adjustable height swivel chair for Science Teacher
Teacher chair		Swivel/tilt adjustable height; integral arms; consider 19" mesh back	All classrooms and small group rooms		
Admin chair (ergonomic)		Swivel/tilt adjustable height; integral arms; consider 27" mesh back	All offices and conference rooms		


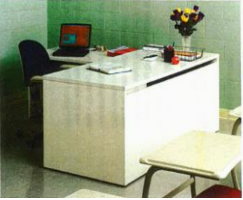



Chairs	Example	Requirements	Where	In addition	comments
Principal Chair		Swivel/tilt adjustable height; integral arms; 27" back; Leather	Principal office		
Side or guest chair		15 gauge steel tubing base with textured seat and back and integral arm; 17 1/2 to seat height; medium to dark color	Most offices and reception		
Music posture chair		16 gauge tube frame with molded polypropylene seat; 18 1/2 " seat; folding tablet arm	Music classrooms		Wenger preferred
Stackable chair		23.0"D x 21.0"W x 32.25"H	Cafetorium		Chair cart match to chair option
Soft seating		Medium to dark colors; wood or no arms; no loose cushions	media center and teacher lounge		
Alternative seating		Swivel (no wheels) seating for high top tables or benches; ball seats for computer work stations; rocking stools	Throughout the school		



Tables and Desks	Example	Requirements	Where	In addition	comments
Student desks		25x27x18 top Adjust. height	All classrooms and small group rooms	Standing desks	
Science Lab desk		72" Height x 36" Width x 18" Depth	Science labs		May be option for STEAM lab
Art table		Four person 54w x64l x33.75h; Wood block top; storage below; on casters	Art Room STEAM	Note: Elementary art tables are two person tables with adjustable legs	
Work Tables		High wear laminate top with integrated edges; 36"x 72"; adjustable legs	Classrooms, admin area		42" diameter laminate top
Computer Workstations		30d X60l X 28h	Resource rms, media center		optional use in STEAM lab


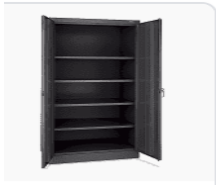



Tables and Desks	Example	Requirements	Where	In addition	comments
Media Center tables		15 Gauge steel base with high impact laminate top in a variety of shapes	Media Center		Consider a couple of high top tables and bench tops (maybe at windows)
Cafeteria tables		Folding uniframe with seats attached; on casters; may be round or rectangular	Dining Area		Some cafeteria tables must be for K-3 children who typically eat together as a class (24-26)
Printer Table					
Mobile teacher's cart			Classrooms		








Tables and Desks	Example	Requirements	Where	In addition	comments
Horseshoe table		adjustable table legs; lamine top w/ 15 gauge metal legs	PK-5 classrooms and small group areas		
Primary grades table		48' X 24"; adjustable table legs; lamine top w/ 15 gauge metal legs	PK-K classrooms and small group areas; Optional tables vs chairs in Grade 1		






Admin Desks	Example	Requirements	Where	In addition	comments
teacher desk		Rectangular work surface with mobile file pedestal; 30" x 66"; casters with modesty panel	Classrooms, small group spaces		
admin desk #1		Desk (30"X66"); Return (24" X 42"); mobile pedestal box (right or left)	Offices unless otherwise specified		
admin desk #2		Conference L shaped desk; Height: 730mm, Width: 2100mm; note; right or left flexibility	Assistant principals and guidance counselors		An alternative would be a desk and small circular table
principal's desk		Office suite - wood - desk, bookshelf, small conference table	Principal's office		
Side table		20x20x20	Teacher's lounge, reception, guidance		

Conference table		60x144x42x29h; with electric and data connections	Conf rooms with one table		36x84 or 42 X 83; 16 gage base with laminate top for flexible configurations
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Casework	Example	Requirements	Where	In addition	comments
Teacher wardrobe		Metal or wood laminate or built-in 36"W x 22"D x 72-84"H; lockable	All classrooms, small group rooms		May be built-in
Cabinets		Metal or wood laminate or built-in 36"W x 18"D x 72-84"H; adjustabe shelves, lockable	Science, art		See science tab for glass front cabinet
Bookcases		Metal or wood laminate or built-in; Size to fit room design	Classrooms, small group areas, offices		May be built-in
File cabinets		Metal - four drawer vertical	Classrooms, small group areas, offices		Fire safe files in record storage; lateral files only in low use settings; leveled at installation
Cubbies		Wood -11" cubbies; 14" deep X 52" H for PK and K; 14" deep X 60" H for Grades 1-5	All classrooms - PK-5		Cubbies may be buit-in casework

Main Office and Guidance	Example	Requirements	Where	In addition	comments
Display Case		Safety glass with adj. shelves	Both Lobbies		
Electronic display		75" - 86" wall signage	Both Lobbies		
Two drawer under desk file cabinet		metal, two draw on casters	Reception		See typical admin desk configuration as an option
Display Rack			Reception		
Small safe		3-4 Cu. Ft.; fire resistant	Main office		

# Health Suite Space and School Based Health Center

	Example	Requirements	Where	In addition	comments
Changing Table	TBD				
Cots		72" L x 20" H x 29" W. 300 lbs. capacity	Health suite		
Exam Table		Seamless upholstery ; one step adjustable back	Health suite		
Lamps		Reading lamp; metal, LED	Health suite		
Privacy Curtains		mesh top/solid panel; flame retardant, antimicrobial polyester	Health suite		
Refrigerator		Full size refrigerator with ice maker	Health suite		

**Built-In Fixtures**

<b>Kitchen</b>	<b>Requirements/Representative Example</b>
<b>Description</b>	
Hand Sink	
Soap & Towel Dispenser	
Walk In Cooler/Freezer	
Cooler Refrigeration System	
Freezer Refrigeration System	
Prep Sink	
Floor Trough	
Tilting Skillet 30-Gallon	Items #20 and #21 below
Comb Oven	Items #16 and #17 below
Convection Oven	Items #3, #4, #5, and #6 below
Counters for serving with Cashier's Stand	
Pot Washing Sink	

**Loose Furnishings**

<b>Kitchen</b>	<b>Requirements/Representative Example</b>
<b>Description</b>	
Utility Cart, Mobile	
Dunnage Rack	
Shelving, Mobile	
Can Rack, Mobile	
Worktable	Item #22 below
Pan Rack Cart, Mobile	
Reach-Refrigerator, Mobile	Item #12 below
Pass-Thru Heated Cabinet, Mobile	Item #1 below
Pass-Thru Refrigerator, Mobile	Item #11 below
Milk Cooler, Mobile	Items #7, #8, #9, and #10 below
Refrigerated Display Merchandiser	
Cash Register	
Condiment Counter, Mobile	
Pot & Pan Shelving, Mobile	
Railing	

ITEM NUMBER	ITEM DESCRIPTION
1	<b>Metro heated cabinet. Model number C569-SDS-UA.</b> Provide heated cabinet with top-mounted Controls. Cabinet Material: Type 304 stainless steel; 20-gauge polished exterior; 22-gauge interior. • Insulation: Full perimeter, 2.5" thick, high-density fiberglass. R Value=9.9 • Casters: Four casters with 6" donut neoprene wheel, double ball bearing swivel, ball bearing axle, nickel plated, two with brake. Doors: Solid Dutch doors fully insulated, double-panel construction. • Hinges: Self-closing, lift-off, double hinged, with long-life nylon bearings. • Gaskets: High temperature, cabinet mounted, Santoprene gaskets. • Latches: Two chrome plated, high-strength magnetic pull latches with lever-action release. • Handles: Four built-in polymer handles. • Universal Slides: Universal wire slides; 1 /4" diameter nickel chrome wire adjustable on 11 /2" increments. Type 304, stainless steel vertical uprights. • Display and Controls: Analog cabinet thermometer with independent thermostat control knob. • Heat Generation System: Thermostatically controlled 1950 Watt heating element, ball bearing blower motor, and ducted air system. • Cord: 71 /2' cord with NEMA 5-20P plug. Cord mounted on top • Thermal Performance: 200° F maximum temperature. Unit shall come with 2-year parts and labor warranty. Unit shall be ENERGY STAR compliant
2	<b>Continental 1 section pass-thru warmer with half doors. Model number DL1W-PT-HD.</b> Provide 1 section pass-thru warmer with 4 half doors, Stainless Steel Interior and Exterior including doors, Self-Contained Performance-Rated Heating System, 90°F to 180°F Temperature Range, Unique Air Flow Distribution Ducts, Top Mounted Heating Plenum "Plug" with Circulating Fan, 3" Non-CFC Polyurethane Foam Insulation, Smooth, Polished Chrome Workflow Door Handles, Cam-Action, Lift-Off Hinges, Tray Slides (9 top, 6 bottom), Stainless Steel Strip Heaters (Located at the Base of the Interior), Magnetic Snap-In Door Gasket, Cylinder Lock in Each Door, 6" Locking Casters, Self-Closing Doors, Automatic Interior Lighting, Electronic Controller w/Digital Display & Hi-Low Alarm, 26” wide, 83 ¼ Height. Unit shall come with 3 year parts and labor warranty.
3	<b>Southbend single stack electric convection oven. Model number KLES/10SC.</b> Provide standard sized Energy Star compliant electric convection oven, 11kW high efficiency heating elements, standard depth. Single deck convection oven is 55” in height with legs and casters, Patented “plug-in, plug-out” control panel, Slide out control panel for full view servicing, Stainless Steel front, sides and top, Dependent 2-piece stainless steel glass doors (Full 180° opening),Energy saving high efficiency glass windows, Heat keeping dual door seal system, Coved, fastener-free, porcelain interior, Stay cool heavy duty door handle, Two speed, 1/2 hp, fan motor, 11-position rack guides and 5 plated oven racks, Solid state thermostat and 60 minute mechanical cook timer, Forced cool down fan mode, Oven “heat” light cycles with burners, Two 40 watt interior high temperature recessed lamps, Manual reset high limit temperature control, Control Panel located on front, at right side of oven, away from heat zone, unit shall come installed with 26” Stainless steel, triangular legs with 6” locking casters. Unit shall have 3 year parts and labor warranty and 5 year door warranty. <b>280/408</b>
4	<b>Southbend double stack electric convection oven. Model number KLES/20C.</b> Provide standard sized Energy Star compliant double stack electric convection oven, 11kW high efficiency heating elements, standard depth. Double deck convection oven is 64.8” in height with casters, Patented “plug-in, plug-out” control panel, Slide out control panel for full view servicing, Stainless Steel front, sides and top, Dependent 2-piece stainless steel glass doors (Full 180° opening),Energy saving high efficiency glass windows, Heat keeping dual door seal system, Coved, fastener-free, porcelain interior, Stay cool heavy duty door handle, Two speed, 1/2 hp, fan motor, 11-position rack guides and 5 plated oven racks, Solid state thermostat and 60 minute mechanical cook timer, Forced cool down fan mode, Oven “heat” light cycles with burners, Two 40 watt interior high temperature recessed lamps, Manual reset high limit temperature control, Control Panel located on front, at right side of oven, away from heat zone, unit shall come installed with 6” locking casters. Unit shall have 3 year parts and labor warranty and 5 year door warranty. <b>280/408</b>










5	<b>Southbend single stack gas convection oven. Model number KLGS/17SC .</b> Provide standard sized Energy Star compliant single stack gas convection oven with 3 ft. ¾ inch quick-connect flex gas hose. Oven shall have patented, high efficiency, non-clog Inshot burners, 53,000 BTU (NAT or LP), standard depth single deck convection oven is 57-1/2” in height with 6” casters, “plug-in, plug-out” control panel, easy to service slide out control panel for full view servicing, stainless steel front, top and sides, dependent glass doors (Full 180° opening), energy saving high efficiency glass windows , heat keeping dual door seal system, coved, fastener-free, porcelain interior, stay cool heavy duty door handle, soft air, two speed, 1/2 hp, fan motor, 11-position rack guides and 5 plated oven racks, electronic ignition with solid state temperature controls, 140°F to 500°F solid state thermostat and 60 minute mechanical cook timer. Forced cool down fan mode, oven “heat” light cycles with burners, interior oven lights, Unit shall have 3 years parts and labor warranty and 5 year door warranty, Unit shall come installed with 26” Stainless steel, triangular legs with 6” locking casters. Unit shall come with ¾ inch, 3 ft. quick disconnect flexible gas hose.
6	<b>Southbend double stack gas convection oven. Model number KLGS/27SC.</b> Provide standard sized Energy Star compliant double stack gas convection ovens with 3 ft. ¾ inch quick-connect flex gas hose. Both compartments shall have patented, high efficiency, non-clog Inshot burners, 53,000 BTU (NAT or LP), standard depth single deck convection oven is 66.8” in height with 6” casters, “plug-in, plug-out” control panel, easy to service slide out control panel for full view servicing, stainless steel front, top and sides, dependent glass doors (Full 180° opening), energy saving high efficiency glass windows , heat keeping dual door seal system, coved, fastener-free, porcelain interior, stay cool heavy duty door handle, soft air, two speed, 1/2 hp, fan motor, 11-position rack guides and 5 plated oven racks, electronic ignition with solid state temperature controls, 140°F to 500°F solid state thermostat and 60 minute mechanical cook timer. Forced cool down fan mode, oven “heat” light cycles with burners, interior oven lights, Unit shall have 3 years parts and labor warranty and 5 year door warranty, Unit shall come installed with 6” locking casters. Unit shall come with ¾ inch, 3 ft. quick disconnect flexible gas hose for each unit
7	<b>Continental 34" single access forced air milk cooler. Model number MC3-SS-S.</b> Provide 34” single access, forced air milk cooler. Unit must NSF approved. Milk Cooler shall have stainless steel exterior and interior, heavy-duty stainless-steel lid, door hinges, latches, with reinforced stainless-steel floor. Unit shall come with forced air, performance-rated refrigeration system, environmentally-safe R134a refrigerant, easily serviceable, bottom mounted compressor, and built-in, electric condensate evaporator. Cabinet shall consist of 2” high-density, non-CFC polyurethane foamed-in place insulation, snap-in door and lid gasket, non-corrosive, heavy-duty, epoxy-coated steel wire floor racks, door cylinder security lock, and 5” swivel caster with front locking brakes. Unit shall have electronic controller with digital display and hi-low alarm, floor drain with connected floor drain hose, have a 10 ft. long cord with plug, and unique forced air flow curtain. Unit will come with a 3 year parts and labor warranty and a 5 year compressor warranty
8	<b>Continental 34" dual access forced air milk cooler with low profile evaporator. Model number MC3-SS-D.</b> Provide 34” dual access, forced air milk cooler. Unit must NSF approved. Milk Cooler shall have stainless steel exterior and interior, heavy-duty stainless steel lids, door hinges, latches, with reinforced stainless steel floor. Unit shall come with forced air, performance-rated refrigeration system, environmentally-safe R134a refrigerant, easily serviceable, bottom mounted compressor, and built-in, electric condensate evaporator. Cabinet shall consist of 2” high-density, non-CFC polyurethane foamed-in place insulation, snap-in door and lid gasket, non-corrosive, heavy-duty, epoxy-coated steel wire floor racks, door cylinder security lock, and 5” swivel caster with front locking brakes. Unit shall have electronic controller with digital display and hi-low alarm, floor drain with connected floor drain hose, have a 10 ft. long cord with plug, and unique forced air flow curtain. Unit will come with a 3 year parts and labor warranty and a 5 year compressor warranty
9	<b>Continental 49" single access forced air milk cooler. Model number MC4-SS-S.</b> Provide 49” single access, forced air milk cooler. Unit must NSF approved. Milk Cooler shall have stainless steel exterior and interior, heavy-duty stainless-steel lid, door hinges, latches, with reinforced stainless steel floor. Unit shall come with forced air, performance-rated refrigeration system, environmentally-safe R134a refrigerant, easily serviceable, bottom mounted compressor, and built-in, electric condensate evaporator. Cabinet shall consist of 2” high-density, non-CFC polyurethane foamed-in place insulation, snap-in door and lid gasket, non-corrosive, heavy-duty, epoxy-coated steel wire floor racks, door cylinder security lock, and 5” swivel caster with front locking brakes. Unit shall have electronic controller with digital display and hi-low alarm, floor drain with connected floor drain hose, have a 10 ft. long cord with plug, and unique forced air flow curtain. Unit will come with a 3 year parts and labor warranty and a 5 year compressor warranty






10	<b>Continental 49" dual access forced air milk cooler with low profile evaporator. Model number MC4-SS-D.</b> Provide 49" dual access, forced air milk cooler. Unit must NSF approved. Milk Cooler shall have stainless steel exterior and interior, heavy-duty stainless-steel lids, door hinges, latches, with reinforced stainless-steel floor. Unit shall come with forced air, performance-rated refrigeration system, environmentally-safe R134a refrigerant, easily serviceable, bottom mounted compressor, and built-in, electric condensate evaporator. Cabinet shall consist of 2" high-density, non-CFC polyurethane foamed-in place insulation, snap-in door and lid gasket, non-corrosive, heavy-duty, epoxy-coated steel wire floor racks, door cylinder security lock, and 5" swivel caster with front locking brakes. Unit shall have electronic controller with digital display and hi-low alarm, floor drain with connected floor drain hose, have a 10 ft. long cord with plug, and unique forced air flow curtain. Unit will come with a 3 year parts and labor warranty and a 5 year compressor warranty
11	<b>Continental 1 Section (2 Section) pass-thru refrigerator with half doors. Model number 1(2)RNSSPTH.</b> Provide and install 1-section(2-Section) Energy Star qualified pass-thru refrigerator. Unit shall have stainless steel interior and exterior including doors, self-contained, performance-rated "plug" refrigeration system, environmentally-safe R-290 refrigerant, top of cabinet refrigeration system accessibility, 3" non-CFC polyurethane foam insulation, smooth, polished chrome workflow door handles, cam-action, lift-off hinges, 11 tray slides per half section, automatic hot gas condensate evaporator, expansion valve system, magnetic snap-in door gasket, cylinder lock in each door, 5" casters, self-closing doors, LED interior lighting, electronic controller w/digital display & Hi-Low alarm, 21 cu.ft, 26" wide, 38-3/4 in. deep, 82-1/4 in. high, 4 half doors, 10 ft attached cord with plug, Unit shall come with 3 year parts and labor warranty and 5 year compressor warranty.
12	<b>Continental 2 section reach in refrigerator. Model number 2RNSS.</b> Provide and install 2-section Energy Star qualified 2 section reach in refrigerator with 2 full doors with condensate pan. Unit shall have stainless steel interior, exterior, and doors, Self-Contained, Performance-Rated "Plug" Refrigeration System, Environmentally-Safe R-290 refrigerant, top of cabinet refrigeration system accessibility, 3" Non-CFC Polyurethane Foam Insulation Smooth, Polished Chrome Workflow Door Handles, Cam-Action, Lift-Off Hinges, 6 Heavy-Duty, Epoxy-Coated Steel Shelves, Automatic, Electric Condensate Evaporator, Magnetic Snap-In Door Gaskets, Cylinder Lock in Each Door, 5" Casters, Self-Closing Doors, LED Interior Lighting, Electronic Controller w/Digital Display & Hi-Low Alarm, 48 cu. ft, 52" wide, 35-3/8 in. deep, 82-1/4 in. in height with 5" casters, 10 ft attached cord with plug, Unit shall come with 3 year parts and labor warranty and 5 year compressor warranty.
13	<b>Continental 2 section reach in freezer. Model number 2F-SS.</b> Provide and install 2-section Energy Star qualified 2 section reach in freezer with 2 full doors with condensate pan Unit must be NSF approved. Unit shall have two full size doors and a minimum net capacity of at least 46 cubic feet. The interior and exterior including the doors shall be stainless steel and will have polyurethane insulation throughout. Each door will have an integrated handle, spring assisted self-closing hinges. The unit shall have LED lighting with proximity door switches and 3 epoxy coated wire shelves per cabinet section. The refrigeration system shall be hermetically sealed, air cooled, and located on top of the cabinet. All condensate water will be disposed of with a non-electric condensate evaporator. Unit shall feature an LED temperature indicator an audio/visual alarms for temperature, power interruption, door ajar. Unit will go into energy saving mode when the doors have not been opened for four hours. Unit shall come mounted on 4" casters. Unit will come with a 3 year parts and labor warranty and a 5 year warranty for the compressor
14	<b>Cleveland 2 compartment gas steamer. Model number 25CGA10.2ES.</b> Unit shall be a two compartment gas steamer with SteamSaver™ Technology and Energy Star approved, Independent steam generators, 50,000 BTU's input per compartment. "SureCook" electro mechanical timer with load compensating feature. Gas valve and water level control system. Exclusive remote probe-type water level controls. Exclusive Brass "Steam Jet" distribution system. Two-piece free-floating compartment door. Pullout service drawer for controls and Gemini Drain/Power Control System. Cooking Capacity for up to ten 12" x 20" x 2 1/2" deep Hotel Pans, five each compartment. Cabinet exterior and cooking compartments shall be 14 gauge, 304 stainless steel. Unit shall come with quick-connect flex ¾ inch, 3 ft. gas hose and water filtration system specific to water composition based on test results conducted and provided by vendor. Unit will come with at least 2 year parts and labor warranty

15	<b>Cleveland 2 compartment electric steamer. Model number 24CEA10.</b> Unit shall be a two compartment floor model electric steamer with twin electric atmospheric steam generator, 32 KW input. Remote probe type water level controls Steam generator with automatic water fill on start-up. Automatic generator blowdown, 2 each 16.5 KW fire bar heating elements. Cold water condenser design. Unit must distribute steam through high velocity jets without using fans. Cabinet exterior and cooking compartments shall be Type 430 stainless steel. Unit shall come with water filtration system specific to water composition based on test results conducted and provided by vendor. Unit will come with 2 year parts and labor warranty. <b>208/480</b>
16	<b>Rational combination gas convection oven/steamer. Model number SCC-102-G.</b> Unit shall be an Energy Star Qualified combination convection oven / steamer with simple to operate programmable controls for Hot Air, Convection Steam, and Combination cooking modes, slow cooking capabilities, multiple cooking stage programs, stored recipe library, multipoint core temperature probe, one step recipe start buttons, smart key for selecting option settings. Five speed auto reversing convection fan. Delta T cooking. Quiet high efficiency power burner heating system; door with antibacterial hygienic door handle. Must have the capacity to hold up to ten 12" x 20" x 2 ½" pans. Unit shall come with hands free automatic compartment washing system, stand, provided water filtration system specific to water composition based on test results conducted by vendor, ¾ in, 3 ft. quick connect flex gas hose, 10 wire racks, and sheet tray adapter bar. WiFi diagnostic capability. Unit will come with 2 year parts and labor warranty and 5 year generator warranty
17	<b>Rational combination electric convection oven/steamer. Model number SCC-102-E.</b> Unit shall be an Energy Star Qualified combination convection oven / steamer with simple to operate programmable controls for Hot Air, Convection Steam, and Combination cooking modes, slow cooking capabilities, Multiple cooking stage programs, stored recipe library, multipoint core temperature probe, one step recipe start buttons, smart key for selecting option settings. Five speed auto reversing convection fan. Delta T cooking, Quiet high efficiency power burner heating system; door with antibacterial hygienic door handle. Must have the capacity to hold up to ten 12" x 20" x 2 ½" pans. Unit shall come with hands free automatic compartment washing system, stand, provided water filtration system specific to water composition based on test results conducted by vendor, at least 10 wire racks, and sheet tray adapter bar. WiFi diagnostic capability. Unit will come with 2 parts and labor warranty and 5 year generator warranty. <b>240/480</b>
18	<b>Garland heavy duty electric range . Model number 36E.</b> Unit be a heavy duty electric range with boiling plate top. Top will consist of two 18" boiling plates with four heat zones, each controlled by three-heat switch. Full Sized oven is controlled by a heavy duty electromechanical thermostat. Oven interior shall be approximately 13" high x 26" wide x 29" deep with removable four-position chrome plated rack guides and one oven rack, front and rear stainless steel grease troughs. Oven body will have stainless steel front and sides. Unit shall have four polyurethane swivel casters with front brakes. Manufacturer training (repair and maintenance) provided for County equipment maintenance employees. Unit will come with 2 year parts and labor warranty
19	<b>Southbend heavy duty open burner gas range. Model number S24C.</b> The unit shall be a 24-3/8" wide restaurant style range with four (4) 28,000 BTU NAT (24,000 BTU LP) open-top burners with four (4) removable cast iron grate tops. The exterior of the unit shall be constructed of stainless steel and have a 4" stainless steel front rail with closed, welded end caps. The unit shall have 6" casters. The unit shall come with a 10" high stainless-steel flue riser. The unit shall come with a factory installed regulator and ¾" 3 ft. quick disconnect flexible gas hose. The unit shall come with an aluminized cabinet base with doors. Must have one unit available in-house for immediate delivery defined as within 72 hours of receipt of Purchase Order. Unit will come with 2 year parts and labor warranty
20	<b>Cleveland 30 gallon gas tilt skillet. Model number SGL-30-T1</b> Complete with Dual Power Setting, Normal and High Power Cooking Controls, Power Burner (Forced-Air) Gas Combustion System, Automatic Ignition, Splash-Proof Construction, Spring Assist Cover with Vent, Gallon/Liter Markings, 5/8" Stainless Steel Clad Cooking Surface with Bead Blasted Finish, Easy to use Manual Hand Tilt with Enclosed Permanently Lubricated Gearbox, Adjustable Feet with Rear Flanged and Front Bullet Style. Shall also include the following: 2" (50 mm) Tangent Draw-Off Valve (TD2SK), left side only • Single Pantry Faucet (SPS14), includes Faucet Mounting Bracket • Faucet Bracket (FBKT1) • Hot & Cold Water Pre-Rinse Spray Head with Hose (PRS-S)

21	<b>Cleveland 30 gallon electric tilt skillet. Model number SEL-30-T1.</b> Complete with Thermostatic and Safety Controls, Gallon/Liter Markings, 5/8" Stainless Steel Clad Cooking Surface with Bead Blasted Finish, Easy to use Manual Hand Tilt with Enclosed Permanently Lubricated Gearbox, Spring Assist Cover with adjustable Vent, Adjustable Feet with Rear Flanged and Front Bullet Style, Gallon/Liter Markings and Splash Proof Controls. Shall also include the following: 2" (50 mm) Tangent Draw-Off Valve (TD2SK), left side only • Single Pantry Faucet (SPS14), includes Faucet Mounting Bracket • Faucet Bracket (FBKT1) • Hot & Cold Water Pre-Rinse Spray Head with Hose (PRS-S) • Protective Control Cover (CP-PCB-T1) <b>240/480 V</b>
22	<b>Advance Tabco stainless steel work table. Model number SS-306 or approved equal.</b> Provide fully assembled work table, 72"L x 30"W x 34H” Work Height, 14 gauge 304 stainless steel flat top with bull nose edge, 18 gauge stainless steel undershelf installed 10” above the floor, stainless steel legs & adjustable bullet feet, NSF, two year warranty.

Media Center	Example	Requirements	Where	In addition	comments
Book Case on Casters		48" includes casters	Commons		
Peripheral Book case		37x12x60; adjustable, solid 1/4" wood shelving	Commons		Linear FT total for 12,000 volumes
Flat files			workroom		
Circulation Desk		modular - or	Commons		Typically Casework
Head End Room	Consult PGCPs instructional technology for detailed list		Head end room		Snowier Thrower, Ariens, 520E (Oracle #6832); gammet racks

Media Center	Example	Requirements	Where	In addition	comments
Charging Station/tables		outlets for up to 3 devices; counter edge standing height	catetorium, media center, colaborative areas in corridors		
Picture Book Shelvs on casters			Primary Library		
Seating for PK-2		Alternative seating 13-15" height	Primary Library		tables are optional

Multi-Media (\$30,000 Cap)	Example	Requirements	Where	In addition	comments
Audio and Video Mixer and recording package		All-in-one turnkey digital TV studio system (sound mixer, audio and video switchers, computer with double monitor and speakers, SSD recording, earphones, microphones (handheld and lapel)	control room		
Studio camera		Includes a teleprompter	studio	w/ Tripod on wheels	A minimum of two
Lights		Fresnel lantern - 200 W	studio		A minimum of two
Zoom LiveTrak L-8 2-Person Podcasting Kit with 8-Channel Mixer					
Tricast Mini		HD4			
Achor Desk'	Space for three students				

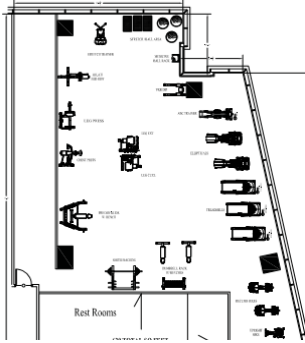








Studio set-up for live production (news, interviews, small performances) includes green screen, over head lighting grid, and mobile furniture .






The control booth (pictured) has a digital mixer with the ability to do multitrack recording and a video switcher for live production. This technology in the control booth allows those creating media projects to direct the production in the multimedia studio










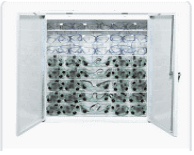


Physical Education	Example	Requirements	Where	In addition	comments
Display cases and electronic board - see admin tab			Lobby		
Portable sound system		Microphone, amp, speakers for gymnasium	Gym		
Fitness equipment		treadmill (3), elliptical (2),stationary bikes (3), dumbbell rack and benches(2), Precor glide w/ bench, chest press, leg curl, leg ext., leg press, high lat/mid row, arc trainer, VKR dip, medicine ball rack, kettle ball rack, stretch ball rack	Wellness Lab		
Heavy Duty washer (top load)		5.3 Cu Ft.	laundry		
Heavy Duty Dryer		8 Cu Ft.	laundry		
Ice machine		75 pound capacity	laundry		



Performing Arts	Example	Requirements	Where	In addition	comments
Portable Acoustical Shell			Performing art/stage		
Keyboard stands			Choral		
Music stands		Deck height: 13.5" Deck Width: 20" Heights range from 25" x 49"	performing arts		
piano		Digital; Height: 44 1/2" (113 cm) Width: 59" (150 cm) Depth: 24" (61 cm)	choral		
podium		Base: 43"W x 38"d x 6"H Upper: 32" W x 38" D x 6" H	performing arts		



Performing Arts	Example	Requirements	Where	In addition	comments
Sheet music storage		32" w x 14" d x 23" h	performing arts		
Sound equipment cart		for recording and replay equipment; on casters; typically 40" X 18-21"; adjustable shelving	performing arts		
Risers		Light weight, eay fold, on wheels; 150 lb per SF load	choral		

Athletics	Example	Requirements	Where	In addition	comments
Goal Posts and Nets (Soccer and lacrosse)		8' X24' (soccer) 6'X6' (lacrosse)	Generic field		
Backstops			Baseball and softball		
Home plate			Baseball and softball		
Team and spectator benches			Baseball, softball and soccer/football		
Manual score boards					
Security fencing					





Science	Example	Requirements	Where	In addition	comments
Storage Cabinet		36" W X 84" H; One with glass front, one with solid door - both lockable	Lab		
Chemical Storage		One per school - lockable for acids	Prep Room		
Flamable Storage		one per school - lockable and vented to the outside; single door	Prep Room		
Fire Blanket		18" W x 16" H x 5¼" D	Lab		
First Aid kit		For 50 people	Lab		





Science	Example	Requirements	Where	In addition	comments
Fire Extinguisher			Lab		
Duckless fume hood		one per school	Prep Room		
Goggle Storage and Sanitizer			Lab		
Glassware Drying Rack		for beakers and other glassware	Prep Room		
High heat oven (optional)		one per school	Prep Room		
Mobile Demonstration Table with utilities		Tables are 28"x48" and 36" high	Lab		



Science	Example	Requirements	Where	In addition	comments
Under Counter Refrigerator		Width: 23.625" Height: 34.125" Depth: 23.75"	Prep Room		
Shower and eye wash station		ADA-Compliant (tamper proof cord to avoid students activating unless authorized)	Lab		




STEAM	Example	Requirements	Where	In addition	comments
Tote Tray Cabinet		Tray dimensions: 19" W x 14 1/2" D x 3 1/2" H	STEAM Lab		
Work Benches		24" X 72"; peripheral	STEAM Lab		
Mobile work table		48" X 60"; wood; on casters	STEAM Lab		Tables need access to electricity
Goggle storage - see science					



Special Education	Example	Requirements	Where	In addition	comments
Rifton positioning Chair					Equivalent to 'Rifton' considered
Changing Table		height adjustable; up to 300 lbs.			privacy curtain in not in the restroom
Hoyer Lift		height adjustable; up to 450 lbs			
Mobile art cabinet					

Visual Ars	Example	Requirements	Where	In addition	comments
Cabinet Drying Rack		30"H x 20"W x 15"D.	art room		
Display panels		72" W x 38" H	art room		
Kiln		Model e23T-3 Easy-Fire Automatic Kiln with with Multi-Program Three-Zoned DynaTrol mounted in an easy-open cool-firing piggy-back control panel that is angled for easy viewing of control. Kiln comes with hard ceramic element holders, protected thermocouples, strong solid-top stand, easy-lift spring hinge, and solid peephole plugs. 22-3/8" diameter by 27" high (6.7 cubic feet). 3" K23 brick. NEMA 6-50 single phase or 15-50 three phase 6 foot power cord included. C-MET-us listed in the USA & Canada. Cone 10 for all voltages.	kiln room		minmum of 2 per school
Greenware Shelves			kiln room		
Prject Storage - See STEAM		Trays: 10" x 15" x 20")			

Visual Ars	Example	Requirements	Where	In addition	comments
Light table			art room		
Project Storage		3D storage 10" high X 15 " deep (30); and flat storage (30 min.)			

Site	Example	Requirements	Where	In addition	comments
Flag Pole		40-45 ' tall	Front of school		
School Marquee Sign		Signs should be in full color and not black & white, double-sided for visibility by both directions of traffic and include software for school updating of information & include broadband communication	By the school entrance	2018 Quote: \$36 K - sign only	Additional wayfinding signs with PGCPs Format
Bike Racks		Stainless Steel Grid Rack; 60"x43x31" for a 10 bike rack	Visiable from the school (main entrance) and near student walkways; a covered overhang would be ideal.		Racks should support a minimum of 40 bikes

Lockers	Example	Requirements	Where	In addition	comments
Lockers corridor		Double high, 12" X 12" X30"; HDPE (high-density polyethylene) lockers; external locking	Classroom corridors		Space saver Day Locker (metal) 24" or 36" high
Lockers PE		Locker size 12"x12" X 15" deep; venting; external locks	PE locker room		
Adult Lockers		Metal 24"	Kitchen and Maintenance		

**EXHIBIT T-3**

**EDUCATIONAL SPECIFICATIONS FOR SOUTHERN AREA K-8 SCHOOL**

## EXHIBIT T-3 (EDUCATIONAL SPECIFICATIONS FOR SOUTHERN AREA K-8 SCHOOL)

1. For the purposes of the Project Agreement, the Educational Specifications for Southern Area K-8 School means, collectively, the following documents:
  - (a) the negotiating period design development summary identified in Part A of this Exhibit T-3 Educational Specifications for Southern Area K-8 School (the "**Exhibit T-3 Negotiation Period Summary**"); and
  - (b) the PGCPs technical specification documents identified in Part B of this Exhibit T-3 Educational Specifications for Southern Area K-8 School (collectively, the "**Exhibit T-3 PGCPs Educational Specification Documents**").
2. In the event of any ambiguities, conflicts or inconsistencies between or among any of the documents comprising the Exhibit T-3 PGCPs Educational Specifications and the Exhibit T-3 Negotiation Period Summary, the Exhibit T-3 Negotiation Period Summary shall prevail in all matters; and
3. For greater certainty, where any element, sketch, feature or other document or item contained in any part of the Exhibit T-3 PGCPs Educational Specifications is modified, superseded, qualified, conflicts with or is otherwise amended by the Exhibit T-3 Negotiation Period Summary, the Exhibit T-3 Negotiation Period Summary shall prevail.

PART A

EXHIBIT T-3 NEGOTIATION PERIOD SUMMARY



# NEGOTIATED DESIGN SPECIFICATION CHANGES (2020.11.19)

NO.	DESCRIPTION
1	Stand-alone mass notification system not required.
2	<p>For the following spaces, electrical outlets shall be placed on teaching walls at a minimum of six feet (6') on center and on the other walls at twelve feet (12'):</p> <ul style="list-style-type: none"> <li>• Academic Core Space: Academic Classrooms/Learning Studios (PreK – K)</li> <li>• Academic Core Space: Academic Classrooms/Learning Studios (Grades 1 – 5)</li> <li>• Academic Core Space: Academic Classrooms/Learning Studios (Grades 6 – 8)</li> <li>• Academic Core Space: Science Classroom / Lab</li> <li>• Generic Language for all Autism Programs: Special Needs Classroom/Studio</li> </ul> <p>For all other spaces, electrical outlets/duplexes shall be placed on perimeter walls at twelve feet (12').</p>
3	Double-tier corridor lockers are acceptable to meet the requirement for total number of corridor lockers.

PART B

EXHIBIT T-3 PGCPS EDUCATIONAL SPECIFICATIONS



**Prince George's County Public Schools  
Educational Specifications  
For Southern Area K-8 Academy**



**Revised August 2020**

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**Performance Requirements**

**General Planning Principles**

**Design for Learning**

PGCPS considers the entire school grounds as a teaching opportunity, with a central space as the 'outdoor learning area or classroom'. The developer shall include formal and informal learning spaces throughout the campus, including, but not limited to:

- (a) Structured outdoor classroom areas, with appropriate site furniture and physical layout
- (b) Learning gardens
- (c) Indoor and outdoor colloquy and small group spaces for gathering and instruction.
- (d) Educational displays and instructional material in community and public spaces
- (e) Display space for student projects, artwork and awards



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## Performance Requirements

### Equity and Accessibility

#### Accessibility

The entire facility shall be accessible for students, staff, and visitors, including community users. This will be accomplished through judicious use of ramping and elevators with enough internal clearances for circulation, convenient bus/van loading and unloading, and nearby handicapped parking spaces.

All elements of the Americans with Disabilities Act must be complied with, including

- (a) 'wayfinding' and signage,
- (b) appropriate use of textures, lighting, and other sensory cues, and
- (c) universal accessibility of all indoor and outdoor school facilities.

#### Students with Special Needs

The developer shall integrate special education facilities throughout the school to support the concepts of inclusion and the specialized requirements for the students. Special attention will be given to accessibility of all facilities and an integrated learning program.

Facilities shall be designed and constructed to address students needs, including sensory indicators.

Attention shall be paid to lighting, color, ambient acoustics, etc.

#### Restrooms, shower and changing facilities and other private accommodation

PGCPS respects and supports students' desire for both privacy and inclusiveness regarding restrooms, shower and changing facilities, and other private accommodations. In addition to the typical gender-based group restrooms near the gymnasium and cafeteria, the developer shall provide gender neutral bathroom clusters in the classroom wings to include the following:

- (a) Single-occupancy, lockable student toilet rooms (quantity per code)
- (b) Hand-washing facilities adjacent to each toilet room or row of rooms
- (c) Design/placement that allows direct adult supervision of student ingress and egress from the corridor or public area

#### Special Programs

Each middle school has a 'cluster program' serving students with similar disabilities. Specifics for each program are in Appendix A and B of this document.

#### Language Access

Provide dual language signage at Adelphi Area Middle School and at other campuses as required

### **Community Use**

The facility shall be designed and constructed to facilitate community use both during and outside regular school hours. It is assumed that the community will use the building for recreation, meetings and educational functions.

Design elements shall include:

- (a) Zoning and security layering to allow for selective use of space. Layering shall include both passive (gates and fencing) and active (intrusion detection) measures
- (b) Placement of facilities and circulation to provide direct access from outside to community spaces, and to minimize mixing of traffic
- (c) Zoning of MEP systems to allow for selective use of space.

**Student, Staff and Visitor Safety**

The developer shall apply the principles of Crime Prevention Through Environmental Design (CPTED), a multidisciplinary approach to deterring criminal behavior that relies on both passive and active measures. CPTED's main principles include "natural surveillance," which gives legitimate users opportunities in the course of their ordinary activities to keep an eye on the place and the people around them; "natural access control," which directs users to enter through observable areas (single point of entry); and "territorial reinforcement," which encompasses a variety of strategies for signaling that a place is occupied and cared for. One main idea of designing safety is to create several layers of security, or concentric rings of access, starting with the perimeter and then working inward into the school. If there is an intruder, each layer of security is designed to delay him or her until first responders can arrive.

Site Perimeter: School sites shall have perimeter security fencing around the building/campus preventing access to walkways and courtyards when facility is not occupied but allow for public use of exterior athletic facilities.

Fencing and landscape leading up to the entrance. Create a perimeter where everyone must walk up on foot, so that people inside the school can easily see who is coming.

Building Perimeter: Exterior doors shall prevent unauthorized entry by minimizing key locks and hardware on doors which would not be used for the purpose of entry but are installed for emergency egress.

All student spaces shall have interior vision glazing in the form of interior windows, door vision panels, and/or sidelights to allow for passive supervision and monitoring of space, except where noted in the Area Data Sheets, or where required for privacy. Glazing shall be designed to minimize concealed spaces, while limiting the potential for distraction.

Transparency from the classrooms into the hallways will increase supervision and encourage use of the space for learning. However, the height, opacity, and amount of windows must be balanced against distraction to students and staff in classrooms.

**Interior Spaces**

- (a) Locate administrative and teacher preparation with good visual contact of major circulation areas (i.e., corridors, cafeteria, bus drop-off, parking)
- (b) Locate areas likely to have significant community use close to parking and with zoned access

**Egress and Life Safety**

- (a) All doors into classrooms, offices and support areas must have a clear safety glass window with blinds for control of views into the classroom; doors should be able to lock from the inside allowing the ability to shelter in place

---

## Performance Requirements

- (b) Provide emergency generator capability, where appropriate, in compliance with MEMA regulations
- (c) Provide standby/back-up generator capability to support essential non-emergency load, including, but not limited to full IT, security and data functionality, kitchen food storage, etc. Standby generator capacity shall be designed to operate for 24 hours at full load
- (d) Provide outside lock box for police and fire departments to be provided. (Knox Box system)

### Types of Building Materials

- (a) Incorporate pitched roofs which inhibit roof entry and are aesthetically pleasing
- (b) Install non-slip floors at point of entry
- (c) Design windows to provide security from intrusion while maximizing daylight as required in the Area Data Sheets, and allowing for student egress in emergency.
- (d) Use durable wall surfaces that are easy to clean so graffiti can be removed

### Uses of Technology: The developer shall provide:

- (a) A PGPS approved Visitor Management system which enables schools to issue visitor badges with names, pictures and reasons for the visit, and time and date printed on them; to monitor volunteer and visitor hours; and instantly check all visitors against registered sexual offender databases in all 50 states.
- (b) Card access and video intercom at the main entrance, cafeteria, and hallway entry-exit points.
- (c) Building-wide all-call designed to be heard throughout the school and on the playfields
- (d) Key systems that track users
- (e) DMP Control Panel and keypads for burglar alarm system control
- (f) DMP wireless panic buttons at the secretary desk and administration offices
- (g) Tri-Tech passive infrared and microwave Doppler radar detection with cover tamper and anti-masking including normally open alarm circuit
- (h) Phones in every instructional and support area
- (i) Genetec VMS monitoring Axis IP cameras installed inside and outside of the building
- (j) Bosch TriTech+ detectors in all classroom and instructional spaces

### Security Camera Requirements

- (a) Access Coverage: Provide CCTV coverage of all entrances/access points to monitor persons entering or exiting space in the following locations. Developer shall design camera locations and install cameras to ensure video capture of the faces of persons entering or exiting space.
  - i. exterior of the main entrance
  - ii. entrance of the main office
  - iii. any data outlets located on the exterior of the building or in any outdoor spaces
  - iv. every exterior entrance to the building

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**Performance Requirements**

- (b) Full Coverage: Provide CCTV coverage of entire area with multiple (minimum 2) view angles of entire space and all entrances/access points. Developer shall design camera locations and install cameras to ensure video capture of the faces of persons entering or exiting space.
- i. main entrance vestibule
  - ii. interior of the main entrance and lobby
  - iii. In all hallways, Place cameras at no less than one (1) camera every 50 (fifty) feet, with cameras on opposite walls facing different directions so as to provide coverage of the hallway in both directions
  - iv. In stairwells
  - v. In gymnasiums, cafeterias, media centers, and all other spaces with a capacity larger than 50 (fifty) people, Provide no less than one (1) camera in each of the four corners of the space
  - vi. In the Digital Media Suite, Provide no less than one (1) camera to provide coverage of the production multi-media studio, one (1) camera to provide coverage of the control room, and one (1) camera to provide coverage of the media lab.
  - vii. courtyard spaces
  - viii. every exterior corner of the building
  - ix. each outdoor classroom or outdoor learning area

## **Sustainability Criteria**

### **Energy and Environmental Design**

The Secretary of the Maryland Department of General Services approved the following guidelines

“The school shall be designed and constructed to meet requirements of the Maryland High Performance Green Building Program with the exception of obtaining an independent, third-party certification as an element of one of the proprietary rating systems described in the Program. The architect or engineer of record shall indicate in the construction documents, the selected high-performance rating system used for design and construction with which, the project is compliant. The LEA may obtain a Letter of Opinion from an Independent Third Party to be submitted as a compliance document.”

### **Energy Dashboard**

The developer shall install an Energy Dashboard system, including all necessary hardware (including sub-metering and data connections) and software required to measure and report on energy consumption in the dashboard module. The dashboard system will be defined prior to construction using best available tools at the time of implementation. A sample system for reference is the Lucid Building Dashboard System

### **Ergonomics Requirement**

A 2007 study compared adjustable furniture in schools to traditional fixed furniture. Students using adjustable furniture were found to have higher grades than those in the control group using traditional school furniture. Characteristics of furniture that promote good posture should be considered as well as adjustable desks and chairs to allow students of varying sizes and body types to improve their comfort levels when sitting for long periods of time.

Note: All furniture and equipment shall meet the GREEN USGBC LEED requirements for new schools and major renovations.

### **Wayfinding and Orientation**

The campus layout shall be designed to provide clear wayfinding and orientation without relying solely on signage. The building massing and orientation shall be designed to focus on key circulation elements.

- (a) Every school shall have a monument sign and a mounted building sign. The monument sign is a free-standing, durable sign that has the name and address of the school with a non-electric, protected message board. It shall be located on the site to be visible by cars on the main road in front of the school. The school name building sign must be located above the main entrance visible from the visitor parking
- (b) From the parking and walking access areas, all visitors must be able to identify a 'single point of entry' to the school.

Immediately upon entry, universal signage and visual cues shall guide visitors to a main lobby area with seating and access to the main office staff. Visitors are required to enter the welcome center before proceeding into the rest of the school.

Registration and family services shall be located near the main office. The other administrative offices and guidance services may be decentralized to increase security and supervision throughout the campus.

**Site Design Requirements**



**Exterior Site Security Requirements**

**Exterior Mass Notification System**

- (a) Exterior Mass Notification systems are not required.

**Landscaping**

- (a) Developer shall comply with the PGCPs Design and Construction Standards and design and construct landscaping to allow good visibility for personal security and to eliminate areas of concealment.
- (b) Planting at Utility Devices that require access, including fire hydrants, backflow preventers, and such like, shall be installed as to allow a minimum of three (3) feet of clear access between the edge of plant when mature and the utility element on all sides, and clear access to roads or pathway. Planting at such elements shall not have thorns be bee attractants, or in any other way pose a hazard to people accessing the Utility Device.

**Project Site Circulation**

**Vehicle & Pedestrian Circulation****Site Circulation**

Developer shall design and construct a circulation system for the Project that is planned to provide safe mobility for all road users, including bicyclists, pedestrians, transit vehicles, deliveries, and motorists. The circulation system must serve multi-modal movement within the site and integrate into the campus via seamless, convenient, and inviting connections to existing transportation facilities. The system shall be context sensitive and meet transportation goals in harmony with campus goals and the natural environment.

On and Off-Site Circulation shall be planned to ensure that facility can be in full compliance with the requirements of COMAR Article 13A.06.07 Student Transportation at all times.

**Site Circulation Functional Requirements**

- (a) School bus loading and unloading areas shall be separated from parent drop-off areas and from staff parking.
- (b) All areas shall be clearly identified. Use signage, curb striping and other pavement markings to direct parent pick-up/drop-off lanes and to prohibit unauthorized vehicles from entering the school bus loops. Signage and bumpers for parking spaces shall be provided by the Developer.
- (c) Non-bus riders who walk and/or bike to school shall be isolated from all types of vehicular traffic and provided adequate pathways to and from the school building. Bike racks shall be provided with visibility from the main office.
- (d) Adequate space shall be provided to load and unload students who have physical disabilities. For Adelphi Area MS identify a school bus loading and unloading area closest to a door that is accessible for students who have physical disabilities to reduce the distance from the school building to the bus.
- (e) Bus loops shall accommodate both immediate and future needs to allow for expansion of programs and an increase in bus ridership that will result in more buses.

Pedestrian Walkways and Bicycle Paths shall be designed to adequately support pedestrian and bicycle circulation. Width shall be commensurate with the level of pedestrian activity projected within the particular location of such pedestrian.

- (a) All paths of travel shall meet ADA requirements, and at a minimum, shall be wide enough to accommodate two-way pedestrian and wheelchair traffic.
- (b) Design official pathways to minimize creation of ad-hoc paths.

**Fire Access Lanes**

Fire access lanes shall be designed in accordance with the PGCPs code requirements:

[https://library.municode.com/md/prince\\_george's\\_PGCPs/codes/code\\_of\\_ordinances?nodeId=PTIITI17PULOLAPRGECOMA\\_SUBTITLE\\_11FISA\\_DIV4FIPRCO\\_S11-276REACFIAP](https://library.municode.com/md/prince_george's_PGCPs/codes/code_of_ordinances?nodeId=PTIITI17PULOLAPRGECOMA_SUBTITLE_11FISA_DIV4FIPRCO_S11-276REACFIAP)

### **Project Site Roadway Signage**

Developer shall provide all required signage for safe operations and wayfinding for all roadways, parking, pedestrian walkways, and bicycle paths. All pavement markings and roadway signage for circulation roadways shall conform to the requirements of the current edition of the MUTCD.

### **Bicycle Facilities Requirements**

Developer shall design and construct the Facilities to adequately support bicycle circulation and storage at the Facilities

### **Parking and Circulation**

Bus parking shall be designed and constructed in accordance with the following principles

- (a) All buses for Arrival and Dismissal shall be accommodated on site with no off-site stacking. On-site stacking is permitted. All buses are scheduled to arrive at the same time to the school for the dismissal bell time.
- (b) No backing of buses on school grounds as per the county's Transportation Operating Procedures Handbook.
- (c) Bus doors shall open towards the school building.
- (d) Wheelchair loading/unloading zone shall be provided.

---

**Performance Requirements**
**Bus and Parking Volumes**

	Avg. number of busses	Parking Spaces	Comments
Adelphi Area MS	20	134	The Regional Special Education program will include wheelchair bound students. A designated loading area is needed for 5 orthopedic buses.
Drew MS	23	134	School should have separate vehicular entrance and parking from Suitland HS.
Hyattsville MS	27	134	A bus loop is ideal rather than a turnaround. If it is not possible to stage all buses in separate area, the parking should be designed in a way to be able to stack additional buses for use during dismissal only.
Kenmoor MS	37	134	It is not recommended to have bus access from 82 <sup>nd</sup> Ave. Transportation analysis suggests reviewing and possibly creating access from Barlowe Road. A Barlowe Road connection would increase walkers. Ideally the bus parking lot should be positioned to serve the new Kenmoor Middle and Kenmoor ECC and, if possible, the old Kenmoor Middle when used as a swing space school.
Southern Area PK-8	44	220	
Walker Mill MS	30	134	

**General Parking Requirements**

The Developer shall design and construct the Facilities to include a parking system that adequately supports the Program, complies with ADA regulations,

**Trash/Recycling Handling Yard, Service Areas and Loading Zones**

Developer shall design and construct Trash/Recycling Handling Yard, Service Areas and Loading Zones in accordance with the following requirements:

- (a) The Trash/Recycling Handling Yard, and Service Areas & Loading Zones Areas shall be placed such that traffic use does not interfere with pedestrian, bicycle or vehicular traffic flow or safety. Particular attention shall be paid to vehicle maneuvering and reversing.
- (b) On street loading shall not be permitted.
- (c) Trash/Recycling Handling, Yards and Service & Loading Zone Areas must be large enough to accommodate delivery trucks and trailers, such that vehicles do not encroach into traffic lanes or emergency access lanes.

**Circulation Requirements**

The Buildings shall be designed to provide universal access and to conform to all ADA requirements.

**Furnishings, Equipment and Technology**

## Educational Technology

The implementation of a voice, data, and video telecommunications system throughout schools is standard across the country. Appropriate and strategically designed and installed technology greatly enhances the teaching and learning of basic skills and positions a school to take advantage of technological developments in the future. All classrooms shall be multi-use/multi-purpose with invisible technological support. There should be a seamless web of technology to support the classroom management between administration, teachers, students, and the home.

Technology requirements in the building:

- (a) Voice: Developer shall provide telephone (IP) and voice communications in every classroom and throughout the entire building as well as to other persons in the school system and external resources including parents and community members.
- (b) Data: Developer shall provide wired broadband and wireless data retrieval capabilities in every classroom and throughout the entire building as well as network capabilities district-wide and to other external databases.
- (c) Video: Developer shall provide video distribution in every classroom and throughout the entire building with interactive video capabilities to support whole and small group instruction, distance learning, and providing access to a wide range of internal and external resources.
- (d) A two-way voice communication system shall be installed that will provide communication between the administrative area and each teaching station or support area, with a telephone in every room. This same system should have the potential to carry an auditory signal automatically controlled and located in the administrative area. Provision should be made for these signals to reach all teaching and support areas including the outdoor activity area. The public address system shall be integrated with the telephone system with a Call Back (CB) feature from the classrooms and support areas to the main office.

### All Teaching Stations

- (a) Each learning studio (classroom, lab, resource room, conference room) will be equipped for multimedia presentation. The choice of equipment will be verified one year prior to school opening and will represent the best available teaching and learning tools at that moment.
- (b) Interactive panels shall be mounted in all classrooms, labs and small group areas. Mobile interactive boards will be used in the media center, gymnasium and in Grades PK-2 teaching stations.
- (c) All playback devices and accessories in classrooms are placed in a lockable A/V cart situated near teacher's desk. All devices are permanently connected to the display panel and the teacher can control the operation by remote control at the desk.

### General Requirements

- (a) Developer shall comply with PGCPs Design and Construction Standards and construct IT specific spaces in each Building including MDF rooms and IDF rooms (collectively, the **"IT Rooms"**) in accordance with the PGCPs specification Division 27.



## Performance Requirements

- (b) Within these education specifications, the term Data Drop has the same meaning as in the PGCPs Specification. A data drop comprises 3 active Cat 6A cables with ports at a single faceplate.
- (c) Within these education specifications, the term Data Outlet means a single active Cat 6A cable, port and faceplate. Where multiple outlets are specified at a single location, outlets can be combined into a single faceplate.

### Audiovisual Systems

- (a) Developer shall design and install Audiovisual (AV) systems at the Facilities in accordance with the requirements of Division 27 of the PGCPs Specifications
- (b) Developer shall design and construct the Facilities to accommodate the Indicative AV Equipment Package for each Area Type.
- (c) Developer shall be responsible for any power outlets required in connection with the AV Equipment are in addition to the outlets required for convenience power shown in the Area Data Sheets.
- (d) Developer shall design and install Integrated sound system speakers, including in-wall and in-ceiling speakers. Speaker number, distribution and location shall be determined by Developer and shall be sufficient to provide uniform sound levels within the room with no distortion, feedback or echo
- (e) Developer shall be responsible for the interface between AV control systems and building systems, including the room lighting control systems and Building Management Systems, and including any conduit, wiring and programming required at the lighting control or the Building Management System (herein referred to as "AV/Building System Interface").
- (f) Developer shall procure, and coordinate with the Required Subcontractor to install, commission and test all AV Equipment detailed in the Area Data Sheets and the AV Equipment Packages including any mounting walls or ceilings. AV Equipment shall be installed to provide a complete, functional system.
- (g) Developer shall refer to the Area Data Sheets for the proper design loads of flat surfaces within a room or Area for the proper installation of AV Equipment.
- (h) Any telecom service provided to installed AV Equipment shall be routed to the NEMA box by the rack and terminated to the switch installed in the AV rack. This switch will connect to main network service in the IDFs and MDFs.
- (i) All AV Infrastructure and the associated IT Infrastructure shall meet ADA requirements, including assistive listening systems, visual access, and other accommodations, as required by applicable Law.
- (j) Control panels for lighting, window coverings, AV/Building System Interface controls, and thermostats shall be located as a group in each room.

The Developer shall furnish and install active and passive components of the Educational Technology system. The developer shall furnish and install all surface mounted terminal devices within the base contract. Moveable terminal devices shall be furnished by the developer in accordance with the furnishing and equipment terms of the Project Agreement

Passive infrastructure is defined as:

- (a) Conduit, raceways, or other cable pathways to provide complete indoor and outdoor pathways from the point of connection to Campus IT Infrastructure to the faceplates and

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## Performance Requirements

terminal devices. All pathway infrastructure should be designed to be readily accessible to allow for upgrades to infrastructure over the life of the facilities.

- (b) Wiring and/or fiber from provider to building Main Point of Entry (MPOE)/Building Distribution Frame (BDF), and distribution from MPOE to faceplate/point of use. All wiring shall be tested and certified to meet data ratings.
- (c) Faceplates and data outlets, including mounting locations, backer plates and boxes
- (d) Racks and frames in IT rooms/closets, including cable management and power modules
- (e) All power supply, power conditioning, emergency power and UPS infrastructure to support IT systems as noted in the technical requirements, including any power supply required for Power Over Ethernet (POE), or at terminal points.
- (f) All Mechanical systems required to support IT systems.
- (g) All physical supports, framing, backers, back boxes, bracing, gasketing to support installation of built-in, mounted or moveable terminal devices
- (h) All built-in system components, such as ceiling mounted speakers, room controllers, etc.
- (i) Wireless Access Devices

Active Systems are defined as:

- (a) All electronics required to support data systems, including hubs, routers, switches, servers, etc.
- (b) All electronics required to support AV and educational data, including amplifiers, audio processors, assistive listening systems, room lighting controllers, consoles, matrix switches, etc.

Terminal Devices are defined as:

- (a) Moveable or surface mounted components of the Educational Technology, including smart boards, computer terminals, telephones, etc.

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**Performance Requirements**

**Furnishing, Fittings and Equipment (FF&E)**

Developer provided FF&E includes all built-in and loose furniture (identified in the individual data sheets), fittings, and equipment needed to provide a fully functional project.

**Procurement and Installation of FF&E**

- (a) Developer shall procure, place and install, as applicable, all FF&E in the Areas in consultation with the Owner.
- (b) Developer shall provide all framing, supports, restraints, gasketing and sealants, and all connections to building systems for FF&E. FF&E shall be placed or installed, as applicable, to allow for easy access for maintenance, repair, cleaning and replacement.
- (c) Developer shall keep an inventory and a record of all FF&E placed or installed within each Facility. The FF&E records shall include an item number and location. The FF&E records and related information shall be included in the PMCS.

**Owner Review and Approval of FF&E**

- (a) Developer shall submit proposed FF&E designs, layouts and model numbers to the County for approval prior to procurement.
- (b) FF&E shall be included in all required mock-ups
- (c) In the event the materials, products, millwork or finishes to be provided by Developer offer multiple color palettes, textures or finishes, Developer shall provide the County with a minimum of three (3) options for such color palettes, textures or finishes for County's selection and approval. County approval of colors, textures and finishes shall be at the County's absolute discretion, provided cost is not materially affected.

**Individual Data Sheet Performance Requirements**

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**Performance Requirements**
**Acoustic Performance Requirements**

Design spaces to the acoustic performance specified in the individual data sheets as follows:

Acoustics	
AC1	Performance or Lecture Space: Space suitable for performance or lectures. Interior space acoustically designed to manage reflection and reverberation.
AC2	Classroom, Conference Room or Confidential Space: Space suitable for teaching, confidential conversations and high speech intelligibility.
AC3	Closed office: Space suitable for private conversations.
AC4	Open office and Workroom office:
AC5	Labs and Workshops:
AC6	Not Used
AC7	Public Space: Space suitable for public use, with moderate to high internal noise generation. High acoustic isolation to sound sensitive spaces. Interior space acoustically planned to absorb noise and manage reflection and reverberation.
AC8	Utility Space: High internal noise generation. Space perimeter designed to limit transmission of air or structure borne noise to other spaces.

Name	NC	STC		Max Reverb	
AC1	30	60/45		1.0	
AC2	35	50/35		0.6	
AC3	40	45/30		0.6	
AC4	NA	NA		NA	
AC5	NA	NA limit transmitted from within space to 30dBA		NA	
AC6	30	50/35		0.4	
AC7	40	N/A		0.6	
AC8	NA	NA		NA	

Areas specified in an Area Data Sheet shall conform to:

- (a) The maximum Noise Criteria (NC) requirements specified in the applicable Area Data Sheet. NC ratings shall be as measured within the space following completion, and shall include all noise sources, including transient external noise;
- (b) The minimum designed/laboratory assembly Sound Transmission (STC) ratings of perimeter specified in the applicable Area Data Sheet. The first number in the table above is the designed STC value for the fixed elements (walls, floors, ceilings, including glazing). The second number is the STC value for the complete assembly including doors, openings and penetrations. The as-built field measured STC rating may not be more than 5dBA lower than the specified designed STC rating;
- (c) The maximum reverberation time (RT60) as specified in the Area Data Sheets. The reverberation time shall be the time taken for a given audio signal to fall by 60dB. Sound

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**Performance Requirements**

reflection shall also be managed with appropriate acoustic absorbing material, or non-parallel surfaces regardless of the specified reverberation time to ensure speech intelligibility and elimination of echoes; and

Acoustic separations shall continue above the ceiling plane and shall include any penetrations or joints. For areas with an STC rating of sixty (60) or greater, doors shall be fully gasketed doors with automatic door bottoms.

**Fenestration****Shades**

Developer shall comply with the following requirements as specified in the Area Data Sheets:

<b>Shading</b>	
S1	<b>Window blinds or Roller Shades, 5% Open:</b> Roller shades, manual operated, unless integrated with Daylighting
S1A	<b>Window blinds or Roller Shades, 5% Open and Manually Operated Blackout Shades:</b> (S1) plus manually operated blackout shades. Blackout shades on exterior and interior glazing
S2	<b>Window blinds or Roller Shades, 5% Open and Motorized Blackout Shades:</b> (S1) plus motorized blackout shades, coordinated with AV where appropriate. Blackout shades on exterior and interior glazing
S3	<b>Vertical Louver Blinds</b>

### **Interior Glazing**

#### General requirements

- (a) Interior glazing and frames shall be rated as required by wall assemblies. Glazing shall also be tempered or laminated as required for impact and crash protection and building codes. Wired glass shall not be permitted for fire rating or impact resistance.
- (b) Glazing shall be clear glass and be mounted at vision height to maximize views from interior spaces, except where noted as transom/clerestory height. The top of above-door transoms shall be no higher than the top of exterior windows in the opposite wall. Where possible, glazing shall be installed adjacent to doors to function as a sidelight.
- (c) Interior glazing frames shall match adjacent door and glazing frames in material and appearance. Wood window frames shall not be permitted.



### **Design Temperature and Humidity**

Summer outside air design temperature and humidity shall be consistent with the most stringent conditions for Washington, DC per ASHRAE Fundamentals Handbook (latest volume: 2017). Winter outside air design temperature shall be 11° DB, with low ambient conditions being designed to 0° DB.

Prince George's County Government requires all entities to keep setpoints at 78° DB in the summer and 68° DB in the winter. The design parameters below take these numbers into consideration along with keeping our facilities comfortable when true outside air temperatures exceed ASHRAE design standards.

Occupied spaces shall be designed to meet the following dry bulb temperature (DB) and relative humidity (RH) requirements:

- Summer: 72°F DB, 50% RH (Occupied setpoint: 76° DB; no higher than 78° DB)
- Winter: 72°F DB, 40% RH (Occupied setpoint: 70° DB; no lower than 68° DB)

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**Performance Requirements**
**Lighting Systems**

Design spaces to lighting performance specified in the individual data sheets as follows:

Lighting	
L1	Typical for classrooms, laboratories, large meeting rooms: 25 FC ambient and at work surfaces and teaching displays with multiple sets. Laboratory spaces shall be 50 FC
L2	Typical for offices & other work spaces: 30 FC ambient and at work surfaces
L3	Typical for conference rooms: 30 FC ambient and at work surfaces and walls
L5	Typical for circulation, stairwells, public areas: 50 FC ambient with focus lighting areas
L6	Typical for service & utility: 40 FC ambient, 70 FC at any service points or equipment
L7	Typical for restrooms, locker rooms: 10 FC ambient

**Lighting Quality**

- (a) Luminance Balance: Illuminance uniformity and balance shall not exceed 3 to 1 for task to immediately surrounding areas and 40 to 1 at any point in any space.
- (b) Color Appearance: The color corrected temperature (CCT) shall be 3,500K. The color rendering index shall be 80 or greater.
- (c) Illumination levels: Illumination levels shall be as specified in the area data sheets. Minimum surface reflectance levels shall be 80% for ceilings, 50% for walls, and 20% for floors.

**Lighting Layers and Controls**

- (a) Lighting Layers: Developer shall provide multiple lighting layers, including general room lighting and functional lighting as appropriate for room uses. Functional layers include focus lighting, downlights, wall illumination, task lighting and such like. Lighting layers shall be controlled through the lighting control system and individual occupant controls as required by room function.

**Wireless Requirements**

Design spaces for wireless as specified in the individual data sheets as follows:

Wireless Devices	
TW1	Assume (1) wireless devices per person (based on maximum occupancy) with a coverage at 5GHz with measured reception no less than -65DBm.
TW2	Assume (2) wireless devices per person (based on maximum occupancy) with a coverage at 5GHz with measured reception no less than -65DBm.
TW3	Assume (3) wireless devices per person with a coverage at 5GHz with measured reception no less than -65DBm.
TW4	Assume (3) wireless devices per person (based on maximum occupancy) with a coverage at 5GHz with measured reception no less than -65DBm.



### Capacity Calculation

Table 1 shows the breakout of classrooms by subject area and the associated State Rated Capacity (SRC). Based on scheduling data, average class sizes vary from 20 in the reading language arts rooms to over 30 in the electives.

The SRC assumes that classrooms will be used 85% of the school day.

The 1200 student middle school is designed around 3 teams per grade - each with approximately 125 students. The core classes include reading language arts, math, social studies, and science. It is common to have double periods of language arts and/or intensive level classes with smaller class sizes. The number of world language, reading, or other electives varies from school to school and will be identified during the development of a site-specific educational specification.

STATE RATED CAPACITY SUMMARY

	# of Rooms	# Students/ Room	Capacity
Pre-Kindergarten	4	20	80
Kindergarten	5	22	110
Primary (Grades 1 – 3)	15	23	345
Intermediate (Grades 4 – 5)	10	23	230
Middle Grades (Core Academic)	47	25	1175
Special Needs	6	10	60
Visual Arts/STEAM Lab	4	25	0
Performing Arts	5	25	0
Gym/PE	2	50	0
Total	98		2000

\* World language, additional language arts or math, ESL, AVID

### Space Requirements Square Footage Tables

#### Space Requirements Summary

Base Required Space	Square Footage
Academic/Science	98,238
Administrative/ Guidance/ Health	8,775
Maintenance & Custodial Services	1,600
Media Center	7,110
PE/Indoor	17,950
Performing Arts	11,035
Special Education (See Appendix A)	6,360
Student Dining & Food Service	16,340
Visual Arts	4,600
Building Support Areas [corridors, bathrooms, storage, stairwells, elevators] Includes 1260 (630 double-tier) corridor lockers	65,000
Total	230,098
Community Use (Wellness Clinic) Appendix B	1,600
+Construction factor	249,261

**Academic Core Space Requirements**

Space	Design Guideline			Comments
	Qty.	Sq.Ft.	Total	
Academic Classroom(PreK-K)	9	1100	9,900	Includes bathroom & storage
Academic Classroom/ Studios (1 <sup>st</sup> - 2 <sup>nd</sup> )	15	950	14,250	Includes bathroom
Academic Classroom/ Studios (4 <sup>th</sup> – 5 <sup>th</sup> )	10	900	9,000	
Academic Classroom/ Studios (6 <sup>th</sup> – 8 <sup>th</sup> )	37	900	33,300	Includes ISS/AVID
Collaborative Learning Areas (informal)		varies	4,628	Independent and informal learning areas; 1 per grade level
Outdoor Learning Areas (patios, porches, green roofs)		varies	0	In addition to outdoor classroom; 1 per grade level
Science Classroom/ Lab	9	1,200	10,800	
Science Prep	3	300	900	1 per grade level
Small Group Instruction/ Resource Rooms	12	250	3,000	Resource areas
Special Needs Classroom/ Studios			0	See Appendix A
Speech/OT/PT Room	1	300	300	
STEAM Lab	2	1,100	2,200	
Student Services Offices	10	150	1,500	
Teacher Support Rooms	5	250	1,250	1 per grade level
Technology Storage	3	100	300	1 per floor/ learning community
Total			91,328	

**Administrative Space Requirements**

Space	Design Guideline			Comments
	Qty.	Sq.Ft.	Total	
Lobby (Main)	1			Part of gross SF
Reception/ Waiting Area	1	800	800	Includes coat closet
Principal's Office	1	230	230	Includes toilet
Administrative Assistant's Office	1	120	120	
Administrative Workroom	1	200	200	
Business Manager's Office	1	150	150	
Conference Room	2	250	500	Adj. to principal
Mail Room	1	150	150	
Security Center/ Office Suite	1	200	200	
Staff Break Room	2	600	1,200	Includes bathrooms
Supply (General)/ Administrative Storage	2	125	250	
Text Book Room	2	500	1,000	
Lactation Room	1	80	80	
Toilet (Adult)	2	50	50	
Assistant Principal Suite	2	250	500	Office, conference
Student Services Reception	1	300	300	
Student Services Office	7	120	840	
Student Services Conference Room	1	200	200	
Records Storage	1	150	150	
Toilet	1	50	50	
Family Center/Parent Resource	1	350	350	
PTA storage	1	50	50	
After School Storage	1	200	200	
Total			7,620	



**Health Suite Space Requirements**

Space	Design Guideline			Comments
	Qty.	Sq.Ft.	Total	
Health Suite				
Reception/ Waiting Area	1	200	200	
Cot Rooms	3	130	390	
Exam Room/ Treatment Area	1	125	125	
Office	21	120	240	
Storage	1	50	50	
Toilet	3	50	150	
Total			1,155	

**Maintenance & Custodial Space Requirements**

Space	Design Guideline			Comments
	Qty.	Sq.Ft.	Total	
Receiving and storage	1	800	800	
Custodial Office	2	120	240	
Custodial Storage	1	360	360	
Toilet/Shower/Lockers	2	100	200	
Total			1600	

**Media Center Space Requirements**

Space	Design Guideline			Comments
	Qty.	Sq. Ft.	Total	
Media Commons	1	3,300	3,300	
Primary Reading and Storytelling Library	1	1000	1,000	
Equipment Storage	1	250	250	
Head End Room	1	250	250	
Digital Media Suite			1,360	
Production Multi-media Studio	1	360		
Control Room	1	100		
Storage	1	100		
Media Lab	1	800		
Innovation Center/Elementary Maker Space	1	600	600	
Toilet (Staff)	2	50	100	
Workroom/Office	1	250	250	
<b>Total</b>			<b>7,110</b>	

**Performing Arts Space Requirements**

Space	Design Guideline			Comments
	Qty.	Sq.Ft.	Total	
General Music	2	1,250	2,500	
Band Room	1	1,800	1,800	
Choral/ Keyboard/ Guitar	1	1,400	1,400	
Choral Practice Rooms	2	100	200	For SmartMusic or similar tool
Instrument Storage	1	350	350	
Instrumental Practice Rooms	2	80	160	For SmartMusic or similar tool
Stage	1	1,400	1,400	
Stage Sound and Light Control Room	1	75	75	
Stage Storage	1	350	350	
Orchestra or Drama Room	1	900	900	
Dance Studio	1	1,800	1,800	
Bathrooms w/ changing area	2		0	Take from total allowance
Office	1	100		Take from total allowance
<b>Total</b>			<b>11,035</b>	

**Physical Education Space Requirements**

Space	Design Guideline			Comments
	Qty.	Sq.Ft.	Total	
Lobby	1	1,000	1,000	in addition to regular circulation
Gymnasium	1	5,800	9,800	Jr High Court size
Bleacher Seating (600)		4,000		Seating is ½ of Student Capacity
Auxiliary Gym	1	3,000	3,000	
Wellness Lab	1	1,000	1,000	Between health classrooms
Laundry	1	100	100	
Offices (Department/ Athletic)	3	150	450	Includes toilet and shower
P.E. Locker Rooms/Shower	2	850	1,700	Male and female
Storage	3	varies	900	
Partner Office (optional)	0	200	0	
<b>Total</b>			<b>17,950</b>	

**Site Requirements/Athletics**

Outdoor Educational and Support Spaces	Square Footage
One bus drop-off area and two parent drop-off areas	
Structured Play Area for Primary/Intermediate Grades	
Protected Pre-School Play Area	
Outdoor Paved Play Area [basketball courts, with markings for other games]	
Basketball Courts (4) Optional	
Bus parking/circulation (may be used as play space during the school day)	
Exterior Grounds Equipment Storage [secure – w/ roll-up door]	400 SF
Fields for football, soccer and lacrosse (if feasible), Baseball, Softball, Practice	
Gardens and outdoor learning spaces	
Parking	

**Student Dining & Food Service Space Requirements**

Space	Design Guideline			Comments
	Qty.	Sq.Ft.	Total	
Cafeteria/Commons	1	10,000	10,000	Cafeteria Seating is 1/3 of Student Capacity; Auditorium Seating is ½ of Student Capacity
Chair Storage	1	900	900	
Kitchen	1	3,000	3,000	
Serving Area	1	1,600	1,600	
Office	2	120	240	
Receiving/ Maintenance Closet	1	300	300	
Toilet/Shower/ Locker area	2		300	
Total			16,340	

**Visual Art Space Requirements**

Space	Design Guideline			Comments
	Qty.	Sq.Ft.		
Multi-Purpose Art Studios	3	Varies	4,000	
Kiln Room	1	150	150	
Storage	3	150	450	
Total			4,600	

The following pages detail the required elements for each space with regards to room environment, built-in or loose furniture and equipment, and special finishes or utilities.

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**Academic Core Space**

**ACADEMIC CLASSROOMS/LEARNING STUDIOS (PreK – K)****QUANTITY:**9 classrooms**CAPACITY:**

20-25 students

Parents/other staff

Teachers

**SIZE:**

1,100 SF (includes 50 SF toilet and 50 SF closet)

**SPATIAL RELATIONSHIPS:**

Adjacent to early childhood play area

Group classrooms for potential teaming with doors between classrooms

Locate at first floor for emergency evacuations, if possible

Locate coat cubbies near door

**PROGRAM ACTIVITIES:**

Cooperative learning

Discovery

Language Art

One-on-one instruction

Role playing

Small group

Whole group teacher directed

**SPACE REQUIREMENTS**

Construction:	
Min Ceiling Height:	10'-0"
Acoustics:	AC2 - High Performance: Conference Room or Confidential Space
Window shading:	S1A -Blinds/Shades and Manually Operated Blackout Shades
Power & Lighting	
User Convenience (excludes outlets for AV, security, etc.):	<ul style="list-style-type: none"> <li>One (1) outlet for control of the classroom projector/interactive board</li> <li>One (1) outlet for telephone at the teacher station</li> <li>One (1) outlet for the intercom system</li> <li>Two (2) outlets at the teacher station for a teacher's computing device and accessory</li> <li>Two (2) outlets for wireless network</li> <li>Four (4) outlets for student use</li> <li>Additional twenty (20) ampere circuit, or additional as required, to support computers, printer, and typical classroom equipment shall be in each classroom. Electrical</li> </ul>

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**Academic Core Space**

	outlets shall be placed on teaching walls at min six feet (6') on center and on the other walls at twelve feet (12').
Lighting level	L1 - 50 FC at work surfaces and teaching displays with multiple sets
Telecommunications	
Outlet (excludes outlets for AV, security, etc.):	<ul style="list-style-type: none"> <li>• One (1) data outlet for control of the classroom projector/interactive board</li> <li>• One (1) data outlet for telephone at the teacher station</li> <li>• One (1) data outlet for the intercom system</li> <li>• Two (2) data outlets, and one (1) voice outlet at the teacher station for a teacher's computing device and accessory</li> <li>• Two (2) data outlets for wireless network</li> <li>• One (1) data outlet for the PoE clock</li> </ul>
Sound Reinforcement	Every classroom will be wired for teacher audio enhancement and the audio system should be integrated into the intercom system. The mixed sound will be amplified and sent through the speakers (preferably ceiling mounted).
Wireless Requirements:	TW2 - 2 wireless devices per occupant (based on maximum occupancy)

**ADDITIONAL REQUIREMENTS**

Classrooms shall be grouped in clusters to allow for team teaching.

Provide doors between classrooms

Provide operable partition between a pair of classrooms at each grade level

Uniform lighting with multi-level switching

Window treatment to darken room for AV presentations

Windows (some operable) to provide natural light and egress

Plumbing Features:

2 Sinks in classroom (1 child height with bubbler) :

Wall-mounted sink and toilet in toilet room

**BUILT-IN FIXTURES:**

Carpentry: Student cubbies (24-28)

Casework:

Base/wall cabinets by sink

Lockable wardrobe (18" x 18")

Marker board (magnetic) (8 LF in primary)

Optional Manual projection screen (60"X60")

Soap/ Towel dispenser

Sturdy shelving on 3 walls in storage area

Tack board flanking marker boards plus two (2) parallel rows of continuous tack strips on all available walls (4 LF or longer) at 30" and 48" AFF

**LOOSE FURNISHINGS:**

1 kidney/horseshoe table

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**Academic Core Space**

1 round table  
2 computer stations w/ chairs or stools  
20-28 stackable chairs  
4-6 rectangular tables (see staff for specific sizes)  
4-drawer file cabinet  
Bound carpet rug (oval) whole class instruction, rug for reading area (review with staff)  
Learning center sets such as sand/water tables, kitchen, child-height dining, dress-up center, art cart, and blocks (review with staff)  
Mobile shelving (various)  
Teacher work surface w/ mobile storage and  
2 chairs

**AUDIO VISUAL EQUIPMENT**

See Educational Technology Requirements



**ACADEMIC CLASSROOMS/LEARNING STUDIOS Grades 1 – 5)****QUANTITY:**25 classrooms**CAPACITY:**

22-24 students (1st –3rd)

23-25 students (4th – 5th)

1-2 teacher(s)

Guest speakers/volunteers

**SIZE:**

900 - 950 SF

**SPATIAL RELATIONSHIPS:**

Group classrooms for potential teaming with doors between classrooms

Locate coat cubbies near door

**PROGRAM ACTIVITIES:**

Computer instruction

Group and teamwork activities

Large group instruction

Oral presentations

Small group instruction and group work

Team teaching

Testing

**SPACE REQUIREMENTS**

Construction:	
Min Ceiling Height:	10'-0"
Acoustics:	AC2 - High Performance: Conference Room or Confidential Space
Window shading:	S1A -Blinds/Shades and Manually Operated Blackout Shades
Power & Lighting	
User Convenience (excludes outlets for AV, security, etc.):	<ul style="list-style-type: none"> <li>One (1) outlet for control of the classroom projector/interactive board</li> <li>One (1) outlet for telephone at the teacher station</li> <li>One (1) outlet for the intercom system</li> <li>Two (2) outlets at the teacher station for a teacher's computing device and accessory</li> <li>Two (2) outlets for wireless network</li> <li>Four (4) outlets for student use</li> <li>Additional twenty (20) ampere circuit, or additional as required, to support computers, printer, and typical classroom equipment shall be in each classroom. Electrical outlets shall be placed on teaching walls at min six feet (6') on center and on other walls at twelve feet (12').</li> </ul>

Lighting level	L1 - 50 FC at work surfaces and teaching displays with multiple sets
Telecommunications	
Outlet (excludes outlets for AV, security, etc.):	<ul style="list-style-type: none"> <li>One (1) data outlet for control of the classroom projector/interactive board</li> <li>One (1) data outlet for telephone at the teacher station</li> <li>One (1) data outlet for the intercom system</li> <li>Two (2) data outlets, and one (1) voice outlet at the teacher station for a teacher's computing device and accessory</li> <li>Two (2) data outlets for wireless network</li> <li>One (1) data outlet for the PoE clock</li> </ul>
Sound Reinforcement	Every classroom will be wired for teacher audio enhancement and the audio system should be integrated into the intercom system. The mixed sound will be amplified and sent through the speakers (preferably ceiling mounted).
Wireless Requirements:	TW2 - 2 wireless devices per occupant (based on maximum occupancy)

**ADDITIONAL REQUIREMENTS**

Classrooms shall be grouped in clusters to allow for team teaching.

Provide doors between classrooms

Provide operable partition between a pair of classrooms at each grade level

Uniform lighting with multi-level switching

Window treatment to darken room for AV presentations

Windows (some operable) to provide natural light and egress

1 Sink in classroom (1 child height with bubbler)

Wall-mounted sink and toilet in toilet room (1-3 grade only)

Note: Bathrooms may be paired between similar grade classrooms with hallway connector.

**BUILT-IN FIXTURES:**

Carpentry:

Student cubbies (24-28)

Storage units over cubbies

Casework:

Base/wall cabinets by sink

Lockable wardrobe (18"X18")

Tall storage cabinet

Wall shelving (24 LF- H 30-32")

Marker board (magnetic) on two walls (16 LF in PreK-K and 8 LF in 1-5 grades)

Optional Manual projection screen (60"X60")

Soap/ Towel dispenser

Tack board flanking marker boards plus 2 parallel rows of continuous tack strips on all available walls (4 LF or longer) at 30" and 48" AFF

**LOOSE FURNISHINGS:**

1 kidney or horseshoe table

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**Academic Core Space**

2 computer stations w/ chairs (consider swivel or stool)  
24-28 student chairs (consider 'alternative' seating for 10%)  
4-drawer file cabinet  
6 trapezoid tables or 24-28 student desks  
Bound carpet rug (thru Grade 2)  
Learning center furniture (consult staff)  
Teacher work surface w/ mobile storage and  
2 ergonomic chairs

**AUDIO VISUAL EQUIPMENT**

See Educational Technology Requirements

**ACADEMIC CLASSROOMS/LEARNING STUDIOS (Grades 6 – 8)****QUANTITY:**

37 classrooms (Includes 1 Health Lab with sink)

**CAPACITY:**

15-32 students

1-2 staff members

Guest speakers and volunteers

**SIZE:**

900 SF

**SPATIAL RELATIONSHIPS:**

Near science lab

Near teacher support spaces

Within the learning communities near informal learning spaces

**GOAL:**

To create a learning environment that is comfortable, well lit, and acoustically designed for small and large group learning.

To provide a learning environment that frees teachers and students to customize the classroom daily – different seating set-ups, wireless mobile computing, and various teaching/presentation options.

To provide flexible space and layout to accommodate any of the core academic disciplines, such as English, mathematics, and social studies

To help students become critical thinkers, problem solvers, and lifelong learners

**PROGRAM ACTIVITIES:**

Computer simulations

Computerized instruction

Data collection and analysis

Hands-on activities

Large and small group instruction

Oral presentations

Team teaching

**SPACE REQUIREMENTS**

Construction:	
Min Ceiling Height:	10'-0"
Acoustics:	AC2 - High Performance: Conference Room or Confidential Space
Window shading:	S1A -Blinds/Shades and Manually Operated Blackout Shades
Power & Lighting	
User Convenience (excludes outlets for AV, security, etc.):	<ul style="list-style-type: none"> <li>One (1) outlet for control of the classroom projector/interactive board</li> <li>One (1) outlet for telephone at the teacher station</li> </ul>

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**Academic Core Space**

	<ul style="list-style-type: none"> <li>• One (1) outlet for the intercom system</li> <li>• Two (2) outlets at the teacher station for a teacher's computing device and accessory</li> <li>• Two (2) outlets for wireless network</li> <li>• Four (4) outlets for student use</li> <li>• Additional twenty (20) ampere circuit, or additional as required, to support computers, printer, and typical classroom equipment shall be in each classroom. Electrical outlets shall be placed on teaching walls at min six feet (6') on center and on other walls at twelve feet (12').</li> </ul>
Lighting level	L1 - 50 FC at work surfaces and teaching displays with multiple sets
Telecommunications	
Outlet (excludes outlets for AV, security, etc.):	<ul style="list-style-type: none"> <li>• One (1) data outlet for control of the classroom projector/interactive board</li> <li>• One (1) data outlet for telephone at the teacher station</li> <li>• One (1) data outlet for the intercom system</li> <li>• Two (2) data outlets, and one (1) voice outlet at the teacher station for a teacher's computing device and accessory</li> <li>• Two (2) data outlets for wireless network</li> <li>• One (1) data outlet for the PoE clock</li> </ul>
Sound Reinforcement	Every classroom will be wired for teacher audio enhancement and the audio system should be integrated into the intercom system. The mixed sound will be amplified and sent through the speakers (preferably ceiling mounted).
Wireless Requirements:	TW2 - 2 wireless devices per occupant (based on maximum occupancy)

**ADDITIONAL REQUIREMENTS**

Classrooms shall be grouped in clusters to allow for team teaching.

Provide doors between classrooms

Provide operable partition between a pair of classrooms at each grade level

Uniform lighting with multi-level switching

Window treatment to darken room for AV presentations

Windows (some operable) to provide natural light and egress

Include one sink and 6' of base cabinet in one classroom to function as a Health Education Lab

**BUILT-IN FIXTURES:**

2 Dry, white eraser-board (4' x 20' on two different walls) on track; all eraser-boards shall be installed with a marker tray, map rails with tack strip above

Clock (on side walls instead of rear walls)

Tack board (4' x 20') minimum; tack strips on all walls

**LOOSE FURNISHINGS:**

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**Academic Core Space**

1 work table  
2 file cabinets w/lock, 4-drawer  
28 student chairs  
28 student desks (trapezoid or square)  
Adjustable height bookshelves (24 LF)  
Teacher wardrobe (lockable) with coat rod; tall cabinet w/ shelving (may be one unit)  
Teacher's desk/workstation and chair  
Teachers' Mobile Cart for Technology

**AUDIO VISUAL EQUIPMENT**

See Educational Technology Requirements

**COLLABORATIVE LEARNING AREAS****QUANTITY:**

Minimum One (1) per grade level

**CAPACITY:**

3 to 60 persons

**SIZE:**

Total Square Footage 3,060 that can divided per grade level or designed as one large space incorporated into corridors or lobbies

**SPATIAL RELATIONSHIPS:**

Collaboration areas may be as small as an alcove outside of a classroom in the corridor or a place for large group activities to include such amenities as tiered seating, platform stage, large screens, etc. The space should be intentional and have appropriate fixtures and furniture. No loose furniture is allowed in the right-of-way.

**GOALS:**

To provide a space for small group instruction, students working independently or in small groups  
To provide informal learning space for pull-out instruction

**PROGRAM ACTIVITIES:**

Collaborative Learning Areas are intended to provide a space for small group instruction, students working independently or in small groups, and to provide informal learning space for pull-out instruction

**SPACE REQUIREMENTS**

Construction:	
Min Ceiling Height:	9'-0"
Acoustics:	AC2 - High Performance: Conference Room or Confidential Space
Window shading:	S1A -Blinds/Shades and Manually Operated Blackout Shades
Power & Lighting	
User Convenience (excludes outlets for AV, security, etc.):	Duplex on perimeter walls at twelve feet (12'), recessed floor quad at 1 per 100 ASF.
Power density:	PW2 - 3W/ASF
Lighting level	L3 - 35 FC at work surfaces and walls
Lighting control	LC8 - Public Space
Telecommunications	
Outlet (excludes outlets for AV, security, etc.):	Standard Data drops
Wireless Requirements:	TW2 - 2 wireless devices per occupant (based on maximum occupancy)

**ADDITIONAL REQUIREMENTS**

Uniform lighting with multi-level switching

Portions of lobbies and circulation shall be designed to foster interaction and informal scholarly gatherings. Spaces in the design shall provide a range of sizes to accommodate varying needs, from small gatherings and discussions to larger structured sessions. Spaces shall be distributed and adjacent to other academic uses.

The spaces may be normally open to corridors or circulation areas.

**BUILT-IN FIXTURES:**

Built-in seating

Dry, white eraser-board

Locked storage

Projection Screen

Tack board

**LOOSE FURNISHINGS:**

**AUDIO VISUAL EQUIPMENT**

See Educational Technology Requirements



**OUTDOOR LEARNING AREAS (not including outdoor classroom)**

**QUANTITY:**

Varies

**CAPACITY:**

3 to 60 persons

**SIZE:**

Total Square Footage 1,000 that can divided or designed as one large space

**SPATIAL RELATIONSHIPS:**

Outdoor learning areas may be as small as a patio outside of a classroom or a covered area with tables or a place for large group activities to include such amenities as tiered seating, platform stage, etc. The space should be intentional and have appropriate fixtures and furniture.

**GOALS:**

To provide a space for small group instruction, students working independently or in small groups  
To provide informal learning space for pull-out instruction

**PROGRAM ACTIVITIES:**

Oral presentations  
Small group activities  
Students working on projects  
Tutoring

**PROGRAM ACTIVITIES:**

N/A

**SPACE REQUIREMENTS**

N/A

**ADDITIONAL REQUIREMENTS**

The space shall be intentional and have appropriate fixtures and furniture.  
Spaces shall have clear spatial boundaries such as hedges or fences.  
Spaces shall have access to power and wireless data, with a minimum of one lockable exterior duplex receptacle at the instructor location and TW-2 level of wireless service.

**BUILT-IN FIXTURES:**

None

**LOOSE FURNISHINGS:**

1 park bench  
1 picnic table

**AUDIO VISUAL EQUIPMENT**

None

**OUTDOOR ENVIRONMENTAL CLASSROOM****QUANTITY:**

1

**CAPACITY:**15-32 students1-2 staff members

Guest speakers and volunteers

**SIZE:**

1,000 SF

**SPATIAL RELATIONSHIPS:**

Connection to the Overall School Site: The outdoor classroom learning area, shall be clearly defined, but with a possibility for expansion of activities beyond into garden plots nearby. The outdoor classroom shall be in a controlled and secure location but not isolated from view. The exit from the school shall be accessible by all classes, e.g., not through a doorway in a classroom. The location should capitalize on any site features. For instance, create a clear connection to an on-site stream.

**GOALS:**

To create an exterior learning environment that is comfortable and designed for small and large group learning.

To provide a learning environment that frees teachers and students to customize the classroom daily.

To help students become critical thinkers, problem solvers, and lifelong learners

**PROGRAM ACTIVITIES:**

Outdoor teaching

**PROGRAM ACTIVITIES:**

N/A

**SPACE REQUIREMENTS**

N/A

**ADDITIONAL REQUIREMENTS**

Accessibility: The pathway connecting the school, outdoor classroom, and any specifically programmed teaching areas associated with the classroom shall be clearly delineated and constructed of a solid material. All outdoor areas should be fully accessible to students of different mobility. For instance, at least some garden beds should be raised 18"-24" to be easily access from a wheelchair (if garden beds are built). Refer to the current ADA standards for minimum design requirements in this capacity. Apply these standards to any student garden areas, or other programmatic spaces associated with the outdoor classroom, as well.

Layout: Provide a station for the teacher to work from where he/she can see each student. Seating can be either fixed or flexible, depending on the site, but should accommodate up to 35 students.

Orientation of the teacher and students should be along a north/south axis, so neither is looking into the sun during instruction times.

Maintenance: The outdoor classroom should be designed to be low maintenance and Developer shall provide a specific maintenance plan for each site's outdoor classroom. The school maintenance supervisor should be made aware of any special aspects and confident in his/her ability to care for the space.

Materials: The outdoor classroom should be built with natural materials like wood or stone. Limit the use of concrete and even then, only in high traffic areas, for example the walkway connecting the school and the outdoor classroom. Consider the albedo (reflectivity) of materials used, since glare can hinder the students' ability to focus. Permeable paving of any material is encouraged, including pervious concrete.

Plants: When choosing plant material, preference should be given to native shade trees and low maintenance shrubs. Chose plant species based on how the mature size would fit into the landscape. Also, plants should be chosen with all 4 seasons in mind. When choosing plant material for the school site, use a variety of species as appropriate.

**Required Site Elements:**

- Duplex Electrical outlet at the 'teachers station'
- Wi-Fi access
- Exterior water hose hook-up
- Point of access for larger vehicles and supplies
- Built-in seating for one class (35 students)
- Shade, either by a shade structure or by trees
- Tool shed for manual garden tools (shovels, hoes, rakes- provided by PGCPs)

**Potential Site Elements:**

- Composting area
- Greenhouse (Kenmoor MS has a greenhouse that must be relocated to the new site)
- Interactive water and energy usage learning station
- Managed meadow
- Pollinator garden, with space and paths for students to get in and investigate
- Rain garden
- School arboretum
- Vegetable/community garden plots/raised beds

Solar aspect/shade: The teaching area must be shaded, but the nearby areas for potential expansion with garden plots should receive 6-8 hours of sunshine a day

Spaces shall have access to power and wireless data, with a minimum of one lockable exterior duplex receptacle at the instructor location and TW-2 level of wireless service.

**BUILT-IN FIXTURES:**

None

**LOOSE FURNISHINGS:**

- 1 park bench
- 1 picnic table

**AUDIO VISUAL EQUIPMENT**

None

**SCIENCE CLASSROOM / LAB****QUANTITY:**

9 lab/classrooms

**CAPACITY:**

24 students

1-2 staff members

Guest speakers and volunteers

**SIZE:**

1,200 SF

**SPATIAL RELATIONSHIPS:**

Accessible to students from Learning community

Adjacent to Science Prep/Storage

Lab stations should not cause students to have backs to the room

**GOAL:**

Help students become critical thinkers, problem solvers, and lifelong learners

Lab will be combination classroom/lab

Provide flexible space and layout to support delivery of entire science curriculum

Teach students to become reasonable caretakers of their bodies and environment

**PROGRAM ACTIVITIES:**

Computerized instruction & simulations

Data collection and analysis

Hands-on activities

Large and small group instruction

Oral presentations (teacher, student, group)

Team teaching

**SPACE REQUIREMENTS**

Construction:	
Min Ceiling Height:	10'-0"
Acoustics:	AC2 - High Performance: Conference Room or Confidential Space
Window shading:	S1A -Blinds/Shades and Manually Operated Blackout Shades
Plumbing:	
Fixture Type:	Lab sinks along wet wall, Access to eyewash / safety shower (EWSS) as per Technical Requirements Section 3.8.10.2.3
Piped services:	Industrial hot & cold water, potable cold water
Special drains:	Acid waste drain at lab sinks, floor drains
Power & Lighting	
User Convenience (excludes outlets for AV, security, etc.):	<ul style="list-style-type: none"> <li>One (1) outlet for control of the classroom projector/interactive board</li> <li>One (1) outlet for telephone at the teacher station</li> </ul>

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**Academic Core Space**

	<ul style="list-style-type: none"> <li>• One (1) outlet for the intercom system</li> <li>• Two (2) outlets at the teacher station for a teacher's computing device and accessory</li> <li>• Two (2) outlets for wireless network</li> <li>• Four (4) outlets for student use</li> <li>• Additional twenty (20) ampere circuit, or additional as required, to support computers, printer, and typical classroom equipment shall be in each classroom. Electrical outlets shall be placed on teaching walls at min six feet (6') on center and on other walls at twelve feet (12').</li> </ul>
Lighting level	L1 - 50 FC at work surfaces and teaching displays with multiple sets
Telecommunications	
Outlet (excludes outlets for AV, security, etc.):	<ul style="list-style-type: none"> <li>• One (1) data outlet for control of the classroom projector/interactive board</li> <li>• One (1) data outlet for telephone at the teacher station</li> <li>• One (1) data outlet for the intercom system</li> <li>• Two (2) data outlets, and one (1) voice outlet at the teacher station for a teacher's computing device and accessory</li> <li>• Two (2) data outlets for wireless network</li> <li>• One (1) data outlet for the PoE clock</li> </ul>
Sound Reinforcement	Every classroom will be wired for teacher audio enhancement and the audio system should be integrated into the intercom system. The mixed sound will be amplified and sent through the speakers (preferably ceiling mounted).
Wireless Requirements:	TW2 - 2 wireless devices per occupant (based on maximum occupancy)
SPECIALTIES	
Special features:	<p>30' Built in base cabinets with epoxy counter top and lockable cupboard/drawer units at perimeter</p> <p>6 Each Epoxy lab sinks in perimeter cabinetry, paper towel holder, soap dispenser. Sinks to have central water shut off at instructor station.</p> <p>Sink pedestal at instructor workstation, with epoxy sink and top and base cabinets</p>

**ADDITIONAL REQUIREMENTS**

Consider future technology needs; build-in flexibility to retain options

Rooms designed for ease of movement and accessibility; Students need to be able to move around the labs with chemicals, etc., in a safe way.

Window treatment to darken room for AV presentations

Windows to provide natural light and egress

**Flooring:**

Moisture and stain-resistant finishes

**Counter/Table Tops:**

Heat and chemical-resistant (to acids, etc.)

Acid waste is required at all sinks and floor drains to the point of connection to main drain system.

Neutralization tanks are not required, unless required by authority having jurisdiction or utility provider.

**BUILT-IN FIXTURES:**

2 Dry, white eraser-board (4' x 20' on two different walls) on track; all eraser-boards shall be installed with a marker tray, map rails with tack strip above

Clock (on side walls instead of rear walls)

Projection screen, as needed

Tack board (4' x 20') minimum; tack strips on all walls

Towel/Soap Dispenser

**LOOSE FURNISHINGS:**

12, 2-person adjustable height science tables

2 tall cabinets for equipment storage -one with glass front (both lockable)

24 student chairs

Adjustable height stool for teacher

Digital science instrumentation

Extra tables and chairs for flexibility

Fire blanket

Fire extinguisher (ABC type), first aid kit

Goggle storage and sanitizer cabinet

Mobile demonstration table with utilities

Teachers' Mobile Cart for Technology

**AUDIO VISUAL EQUIPMENT**

See Educational Technology Requirements

**SCIENCE PREP ROOM****QUANTITY:**

3 rooms

**CAPACITY:**

1 or 2 staff members

Student assistants

**SIZE:**

300 SF

**SPATIAL RELATIONSHIPS:**

One per grade level community

Central to science labs

**GOAL:**

To allow for lab preparation

**PROGRAM ACTIVITIES:**

General lab preparation

Store equipment

Set up experiments

**SPACE REQUIREMENTS**

Construction:	
Min Ceiling Height:	9'-0"
Acoustics:	AC5 - Labs and Workshops
Window shading:	No preference
Plumbing:	
Fixture Type:	Deep lab sinks, Eye Wash/Safety Shower
Piped services:	Industrial hot & cold water, potable cold water
Special drains:	Acid waste drain at lab sinks, floor drains
Power & Lighting	
User Convenience (excludes outlets for AV, security, etc.):	Duplex at counters at max 2' on center, on walls at twelve feet (12')
Lighting level	L4 - 25/75 FC bi-level ambient and at all work locations
Telecommunications	
Outlet (excludes outlets for AV, security, etc.):	One data drop on perimeter walls at max 12' on center.
Wireless Requirements:	TW2 - 2 wireless devices per occupant (based on maximum occupancy)
SPECIALTIES	
Special features:	Built in casework at perimeter of room with lockable cupboard/drawer base cabinets and epoxy counter tops. Provide two knee space workstations with adjustable height countertops. 1 Each 4' ductless chemical fume hoods



	2 Each epoxy lab sinks, counter mounted, paper towel holder, soap dispenser One (1) 24" single door autoclave, one high temperature oven, one glassware washer and dryer, sized to accommodate lab area served (autoclave, oven and washer/drier only required in one room per school) Pure Water/Distilling station capable of generating 2 gallons per hour at 1 MegaOhm
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**ADDITIONAL REQUIREMENTS****Flooring:**

Moisture and stain-resistant finishes

**Counter/Table Tops:**

Heat and chemical-resistant (to acids, etc.)

Acid waste is required at all sinks and floor drains to the point of connection to main drain system.

Neutralization tanks are not required, unless required by authority having jurisdiction or utility provider.

**BUILT-IN FIXTURES:**

See Space Requirements

**LOOSE FURNISHINGS:**

2 file cabinets on mobile pedestals

2 workstations

1 Chemical (acid) storage cabinets (lockable)

1 Flammable cabinet - one per school on upper floor – vented to the outside

Ductless fume hood – one per school

Drying rack (glassware)

Stools

**AUDIO VISUAL EQUIPMENT**

See Educational Technology Requirements

**SMALL GROUP INSTRUCTION/ RESOURCE ROOMS****QUANTITY:**

12

**CAPACITY:**

Up to 15 students

1 staff member

**SIZE:**

250 SF

**SPATIAL RELATIONSHIPS:**

Two per learning community

**GOAL:**

To provide flexible space to accommodate any of the special small group instruction needs

**PROGRAM ACTIVITIES:**

Computerized instruction

Hands-on activities

Small group instruction

Team teaching

**SPACE REQUIREMENTS**

Construction:	
Min Ceiling Height:	10'-0"
Acoustics:	AC2 - High Performance: Conference Room or Confidential Space
Window shading:	S1A -Blinds/Shades and Manually Operated Blackout Shades
Power & Lighting	
User Convenience (excludes outlets for AV, security, etc.):	<ul style="list-style-type: none"> <li>One (1) outlet for control of the classroom projector/interactive board</li> <li>One (1) outlet for telephone at the teacher station</li> <li>One (1) outlet for the intercom system</li> <li>Two (2) outlets at the teacher station for a teacher's computing device and accessory</li> <li>Two (2) outlets for wireless network</li> <li>Four (4) outlets for student use</li> <li>Additional twenty (20) ampere circuit, or additional as required, to support computers, printer, and typical classroom equipment shall be in each classroom. Electrical outlets shall be placed on perimeter walls at twelve feet (12').</li> </ul>
Lighting level	L1 - 50 FC at work surfaces and teaching displays with multiple sets

Telecommunications	
Outlet (excludes outlets for AV, security, etc.):	<ul style="list-style-type: none"> <li>• One (1) data outlet for control of the classroom projector/interactive board</li> <li>• One (1) data outlet for telephone at the teacher station</li> <li>• One (1) data outlet for the intercom system</li> <li>• Two (2) data outlets, and one (1) voice outlet at the teacher station for a teacher's computing device and accessory</li> <li>• Two (2) data outlets for wireless network</li> <li>• One (1) data outlet for the PoE clock</li> </ul>
Wireless Requirements:	TW2 - 2 wireless devices per occupant (based on maximum occupancy)
Sound Reinforcement	Every classroom will be wired for teacher audio enhancement and the audio system should be integrated into the intercom system. The mixed sound will be amplified and sent through the speakers (preferably ceiling mounted).

**ADDITIONAL REQUIREMENTS**

Comfortable rooms with pleasant décor  
 Window treatment to darken room for AV presentation  
 Windows to provide natural light and egress

**BUILT-IN FIXTURES:**

1 Dry, white eraser-board (4' x 16') on track; eraser-board shall be installed with a marker tray, map rails with tack strip above  
 Clock (on side walls instead of rear walls)  
 Tack board (4' x 8') minimum; tack strips on all walls

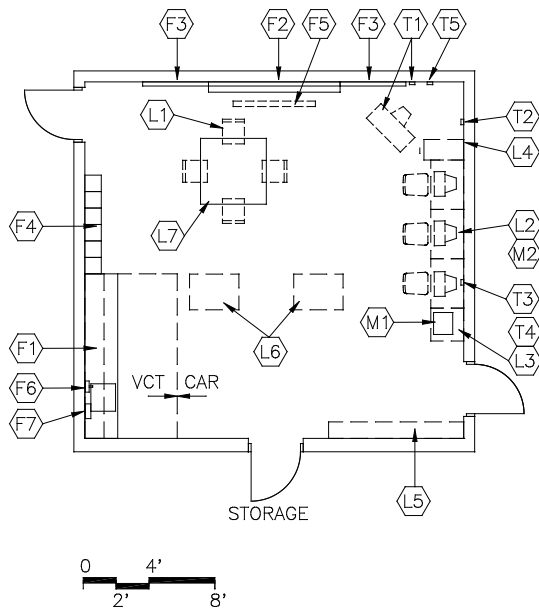
**LOOSE FURNISHINGS:**

1 file cabinet w/lock, 4-drawer  
 3 computer workstations  
 10 student desks and chairs  
 Adjustable height bookshelves (12 LF)  
 Lockable teacher wardrobe with coat rod; tall cabinet w/ shelving (may be one unit)  
 Teacher's desk/workstation and chair

**AUDIO VISUAL EQUIPMENT**

See Educational Technology Requirements

**SPEECH/ OCCUPATIONAL/ PHYSICAL THERAPY**



**QUANTITY:**

1

**CAPACITY:**

Up to 3 students

Up to 2 staff

**SIZE:**

300 SF

**SPATIAL RELATIONSHIPS:**

Near Special Needs Classrooms

**GOAL:**

To provide private functional mobility training for students

**PROGRAM ACTIVITIES:**

Assistive technology evaluation

Exercise

Occupational and Physical Therapy

**SPACE REQUIREMENTS**

Construction:	
Min Ceiling Height:	9'-0"
Acoustics:	AC3- Office
Window shading:	S1 - Roller Shades, 5% Open
Plumbing:	

Fixture Type:	Counter mounted sink
Power & Lighting	
User Convenience (excludes outlets for AV, security, etc.):	<ul style="list-style-type: none"> <li>One (1) outlet for control of the classroom projector/interactive board</li> <li>One (1) outlet for telephone at the teacher station</li> <li>One (1) outlet for the intercom system</li> <li>Two (2) outlets at the teacher station for a teacher's computing device and accessory</li> <li>Two (2) outlets for wireless network</li> <li>Four (4) outlets for student use</li> <li>Additional twenty (20) ampere circuit, or additional as required, to support computers, printer, and typical classroom equipment shall be in each classroom. Electrical outlets shall be placed on perimeter walls at twelve feet (12').</li> </ul>
Lighting level	L3 - 35 FC at work surfaces and walls
Telecommunications	
Outlet (excludes outlets for AV, security, etc.):	<ul style="list-style-type: none"> <li>One (1) data outlet for control of the classroom projector/interactive board</li> <li>One (1) data outlet for telephone at the teacher station</li> <li>One (1) data outlet for the intercom system</li> <li>Two (2) data outlets, and one (1) voice outlet at the teacher station for a teacher's computing device and accessory</li> <li>Two (2) data outlets for wireless network</li> <li>One (1) data outlet for the PoE clock</li> </ul>
Wireless Requirements:	TW1 - 1 wireless device per occupant (based on maximum occupancy)
Sound Reinforcement	Every classroom will be wired for teacher audio enhancement and the audio system should be integrated into the intercom system. The mixed sound will be amplified and sent through the speakers (preferably ceiling mounted).

**ADDITIONAL REQUIREMENTS**

Loading Capacity: the floor shall have a loading capacity of 100 psf; permanent walls shall have the capacity to support 100 pounds point load and 200 pounds over any four (4) feet; ceiling or structure above shall have unistrut or similar grid framing at maximum 4 feet on center, with the ability to support 300 pounds at any point and 300 pounds in any four (4) feet by four (4) feet bay. Ceiling grid shall be laterally braced to the building structure for the full design load, and capable of providing lateral bracing to imposed load.

Adequate ventilation

Auditory privacy

Environmental sound control:

Wall minimum: STC 45

Ceiling minimum: CAC 35

Reinforce structure to support equipment such as a trapeze  
Wheelchair accessibility

**BUILT-IN FIXTURES:**

- F1 Casework: Wall/base cabinets for sink
- F2 Marker board (8 LF)
- F3 Tack board (8 LF)
- F5 Manual projection screen
- F6 Soap dispenser
- F7 Towel dispenser

**LOOSE FURNISHINGS:**

- L1 4 chairs
- L2 1 computer workstation furniture
- L4 4-drawer file cabinet
- L5 Bookshelves
- L6 OT/PT Therapy equipment (Provided by PGCPs Staff)
- L7 Work table

**AUDIO VISUAL EQUIPMENT**

See Educational Technology Requirements

**STEM LAB (DRY)****QUANTITY:**

1

**CAPACITY:**28 students2 teachers**SIZE:**

1,100 SF

**SPATIAL RELATIONSHIPS:**

Door to 'outdoor classroom', if feasible

Flexible seating options

**GOALS:**

Flexible space and layout to accommodate student learning through active interaction with technology systems

**PROGRAM ACTIVITIES:**

Computer simulations and instruction

Data collection and analysis

Hands-on activities

Large and small group instruction

Team teaching

**SPACE REQUIREMENTS**

Construction:	
Min Ceiling Height:	10'-0"
Acoustics:	AC5 - Labs and Workshops
Window shading:	S1A -Blinds/Shades and Manually Operated Blackout Shades
Power & Lighting	
User Convenience (excludes outlets for AV, security, etc.):	See Additional Requirements
Lighting level	L4 - 25/75 FC bi-level ambient and at all work locations
Telecommunications	
Outlet (excludes outlets for AV, security, etc.):	<ul style="list-style-type: none"> <li>One (1) data outlet for control of the classroom projector/interactive board</li> <li>One (1) data outlet for telephone at the teacher station</li> <li>One (1) data outlet for the intercom system</li> <li>Two (2) data outlets, and one (1) voice outlet at the teacher station for a teacher's computing device and accessory</li> <li>Two (2) data outlets for wireless network</li> <li>One (1) data outlet for the PoE clock</li> </ul>

Wireless Requirements:	TW2 - 2 wireless devices per occupant (based on maximum occupancy)
SPECIALTIES	
Special features:	See Additional Requirements in Education Specifications

## ADDITIONAL REQUIREMENTS

### Access

Lab shall have a clear path of travel to exterior loading areas to allow for movement of large or heavy objects. For planning purposes, largest object size to be accommodated shall be 4' x 4' in plan and 7' in height. Path of travel may be from upper floor via elevator.

### Structure

Loading Capacity: the floor shall have a concentrated load loading capacity of 1,000 pounds

### Cabinetry

Provide acid resistant epoxy workbenches in fabrication area, min 12' length

### HVAC

Provide OSHA compliant dust extract and exhaust system at fabrication area with dust collection and exhaust direct to outside. Provide adequate make-up air and position room supply and return registers and grilles appropriately to ensure exhaust flow towards hood.

### Electrical systems

Provide retractable overhead power reels in fabrication area. Allow one reel per 36 SF.

In addition to outlets noted on ADS, provide power outlets at 2' on center on workbenches

Workbench and overhead reels to have be controlled by a single Emergency Power Off switch

### OSHA requirements maintained

Rooms designed for ease of movement and accessibility; Students need to be able to move around the worktables

Consider future technology needs; build-in flexibility to retain options.

Dust collection, and exhaust systems to meet ASHRAE standards.

Windows to provide natural light and egress

### Finishes:

#### Flooring:

Moisture and stain-resistant finishes

#### Counter/Table Tops:

Heat and chemical-resistant (to acids, etc.)



**BUILT-IN FIXTURES:**

- 16' tack boards
- 2-3 Tall cabinets
- 4 sinks with storage cabinets below (age appropriate height)
- Install a 48" wide lockable tote tray cabinet and 35" wide tall cabinet with adjustable shelves
- Magnetic marker board (16 FT)
- Demonstration kitchen island (stove, oven, countertop)
- Teachers wardrobe

**LOOSE FURNISHINGS:**

- 4-drawer file cabinet
- 14 2-person tables with 28 student chairs
- Refrigerator and freezer with ice maker
- Teacher work surface w/ mobile storage and
- 2 ergonomic chairs

**AUDIO VISUAL EQUIPMENT**

See Educational Technology Requirements

**STEM LAB (WET)****QUANTITY:**

1

**CAPACITY:**28 students2 teachers**SIZE:**

1,100 SF

**SPATIAL RELATIONSHIPS:**

Door to 'outdoor classroom', if feasible

Flexible seating options

**GOALS:**

Flexible space and layout to accommodate student learning through active interaction with technology systems

**PROGRAM ACTIVITIES:**

Cooking

Vegetable preparation

Hands-on activities

Large and small group instruction

Team teaching

**SPACE REQUIREMENTS**

Construction:	
Min Ceiling Height:	10'-0"
Acoustics:	AC5 - Labs and Workshops
Window shading:	S1A -Blinds/Shades and Manually Operated Blackout Shades
Power & Lighting	
User Convenience (excludes outlets for AV, security, etc.):	See Additional Requirements
Lighting level	L4 - 25/75 FC bi-level ambient and at all work locations
Telecommunications	
Outlet (excludes outlets for AV, security, etc.):	<ul style="list-style-type: none"> <li>One (1) data outlet for control of the classroom projector/interactive board</li> <li>One (1) data outlet for telephone at the teacher station</li> <li>One (1) data outlet for the intercom system</li> <li>Two (2) data outlets, and one (1) voice outlet at the teacher station for a teacher's computing device and accessory</li> <li>Two (2) data outlets for wireless network</li> <li>One (1) data outlet for the PoE clock</li> </ul>
Wireless Requirements:	TW2 - 2 wireless devices per occupant (based on maximum occupancy)

SPECIALTIES	
Special features:	See Additional Requirements in Education Specifications

## ADDITIONAL REQUIREMENTS

### Access

Lab shall have a clear path of travel to exterior loading areas to allow for movement of large or heavy objects. For planning purposes, largest object size to be accommodated shall be 4' x 4' in plan and 7' in height. Path of travel may be from upper floor via elevator.

### Structure

Loading Capacity: the floor shall have a concentrated load loading capacity of 1,000 pounds

### Cabinetry

Provide acid resistant epoxy workbenches in fabrication area, min 12' length

### Plumbing

Provide one counter sink with hot and cold water and one deep stainless steel lab sink with hot and cold water

Provide storage with shelves below sinks in cabinets with a minimum of 2-drawers on each side.

Provide clay and plaster traps at deep sink.

Provide emergency shower and eyewash station

### HVAC

Provide OSHA compliant dust extract and exhaust system at fabrication area with dust collection and exhaust direct to outside. Provide adequate make-up air and position room supply and return registers and grilles appropriately to ensure exhaust flow towards hood.

### Electrical systems

Provide retractable overhead power reels in fabrication area. Allow one reel per 36 SF.

In addition to outlets noted on ADS, provide power outlets at 2' on center on workbenches

Workbench and overhead reels to have be controlled by a single Emergency Power Off switch

### OSHA requirements maintained

Rooms designed for ease of movement and accessibility; Students need to be able to move around the worktables

Consider future technology needs; build-in flexibility to retain options.

Dust collection, and exhaust systems to meet ASHRAE standards.

Windows to provide natural light and egress

Finishes:

Flooring:

Moisture and stain-resistant finishes

Counter/Table Tops:

Heat and chemical-resistant (to acids, etc.)

**BUILT-IN FIXTURES:**

16' tack boards

2-3 Tall cabinets

4 sinks with storage cabinets below (age appropriate height)

Install a 48" wide lockable tote tray cabinet and 35" wide tall cabinet with adjustable shelves

Magnetic marker board (16 FT)

Demonstration kitchen island (stove, oven, countertop)

Teachers wardrobe

**LOOSE FURNISHINGS:**

4-drawer file cabinet

14 2-person tables with 28 student chairs

Refrigerator and freezer with ice maker

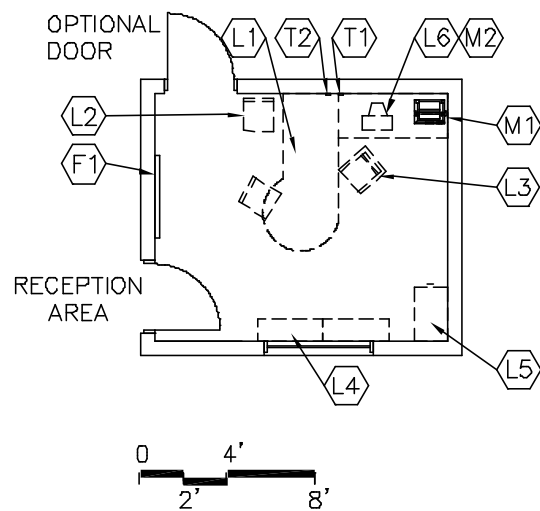
Teacher work surface w/ mobile storage and

2 ergonomic chairs

**AUDIO VISUAL EQUIPMENT**

See Educational Technology Requirements

STUDENT SERVICES OFFICES



QUANTITY:

10

CAPACITY

1 staff member (Assistant Principals, social workers, instructional specialists, etc.)  
Up to 3 visitors

SIZE

150 SF

SPATIAL RELATIONSHIPS:

Located centrally within each community

GOAL

To provide an office for the staff to perform administrative functions

PROGAM ACTIVITES

Coordination of school and support services  
Meeting with parents, students, and staff  
Telephone communications (private)

SPACE REQUIREMENTS

Construction:	
Min Ceiling Height:	9'-0"
Acoustics:	AC3 - Medium Performance: Closed Office
Window shading:	S1 - Roller Shades, 5% Open
Power & Lighting	

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**Academic Core Space**

User Convenience (excludes outlets for AV, security, etc.):	2 duplex outlets per wall on two side walls
Lighting level	L2 - 35 FC at work surfaces
Telecommunications	
Outlet (excludes outlets for AV, security, etc.):	One standard data drop on two side walls
Wireless Requirements:	TW2 - 2 wireless devices per occupant (based on maximum occupancy)

**ADDITIONAL REQUIREMENTS**

Auditory privacy

Environmental sound control:

Wall minimum: STC 45

Ceiling minimum: CAC 35

Windows to provide natural light

Uniform lighting

None

**BUILT-IN FIXTURES:**

F1 Tack board (4 LF)

**LOOSE FURNISHINGS:**

L1 Desk with conference table

L2 2 guest chairs

L3 Ergonomic task chair

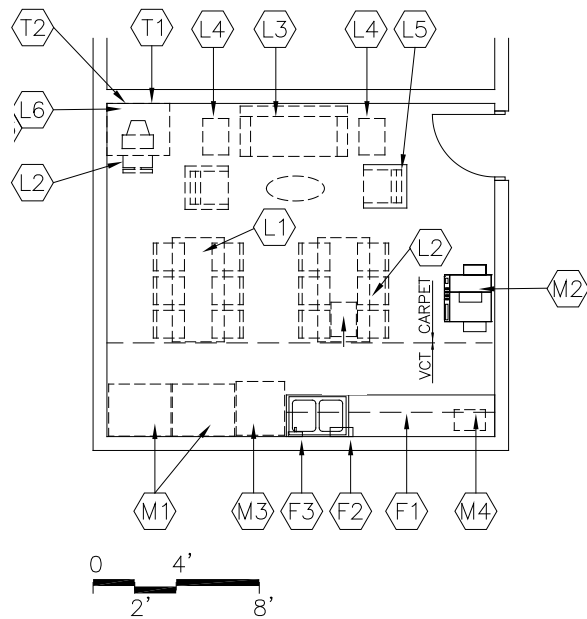
L4 Adjustable height bookshelves (12 LF)

L5 1, 4-drawer locking file cabinet

L6 Computer workstation

**AUDIO VISUAL EQUIPMENT**

See Educational Technology Requirements

**TEACHER SUPPORT ROOMS****QUANTITY:**

5

**CAPACITY:**

6-36 teachers

**SIZE:**

250 SF

**SPATIAL RELATIONSHIPS:**

- Access from Corridor
- Located near individual restrooms
- Located within Grade Level areas
- One per grade level community

**GOAL:**

To provide space for teachers to carry out their administrative duties, prepare materials for class, access the Internet, lock up personal items, and to socialize and relax.

**PROGRAM ACTIVITIES:**

- Eating lunch
- Enter and access data
- Grade papers
- Prepare lessons using computer, video, and other resources.
- Store files (floating or shared department files)

**SPACE REQUIREMENTS**

Construction:	
Min Ceiling Height:	9'-0"
Acoustics:	AC3 - Office
Window shading:	S1 - Roller Shades, 5% Open
Plumbing:	
Fixture Type:	double bowl deep sink with hot and cold water
Piped services:	hot and cold water
Special drains:	None
Power & Lighting	
User Convenience (excludes outlets for AV, security, etc.):	Duplex on perimeter walls at twelve feet (12'), 2 recessed floor quad
Lighting level	L2 - 35 FC at work surfaces
Telecommunications	
Outlet (excludes outlets for AV, security, etc.):	Standard data drops on perimeter walls at max 12' on center
Wireless Requirements:	TW2 - 2 wireless devices per occupant (based on maximum occupancy)
SPECIALTIES	
Special features:	Base cabinet and counter top, min 12' length

**ADDITIONAL REQUIREMENTS**

None

**BUILT-IN FIXTURES:**

- F1 Casework: Base cabinets and shelving
- F2 Sink w/soap dispenser
- F3 Towel dispenser
- Tack board (4 LF)

**LOOSE FURNISHINGS:**

- L1 2 Tables
- L2 12-13 chairs
- L3 Sofa (optional)
- L4 End Tables (optional)
- L5 Soft Chairs (optional)
- L6 Computer workstation with ergonomic task chair

provided by owner

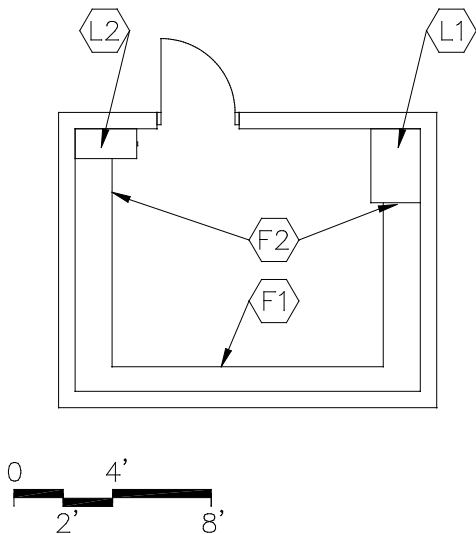
- M1 Vending machines
- M2 Printer/ Copier/ Scanner/ Fax
- M3 Refrigerator
- M4 2 Microwaves

**AUDIO VISUAL EQUIPMENT**

See Educational Technology Requirements



TECHNOLOGY STORAGE



QUANTITY:

3

SIZE:

100 SF

SPATIAL RELATIONSHIP:

- One per learning community
- One per floor

GOAL:

To provide a safe and secure area for storage of equipment and supplies

SPACE REQUIREMENTS

Construction:	
Min Ceiling Height:	9'-0"
Acoustics:	AC8 - Utility Space
Window shading:	None
Power & Lighting	
User Convenience (excludes outlets for AV, security, etc.):	Duplex on perimeter walls, one per wall
Lighting level	L6 - 40 FC ambient, 70 FC at any service points or equipment
Telecommunications	
Outlet (excludes outlets for AV, security, etc.):	1 standard data drop per room
Wireless Requirements:	TW1 - 1 wireless device per occupant (based on maximum occupancy)

**ADDITIONAL REQUIREMENTS**

None

**BUILT-IN FIXTURES:**

F1 Storage shelving (12" deep)

F2 Storage shelving (18" deep)

**LOOSE FURNISHINGS:**

L1 Adjustable height shelving (24" deep)

L2 4-drawer file cabinet (legal)

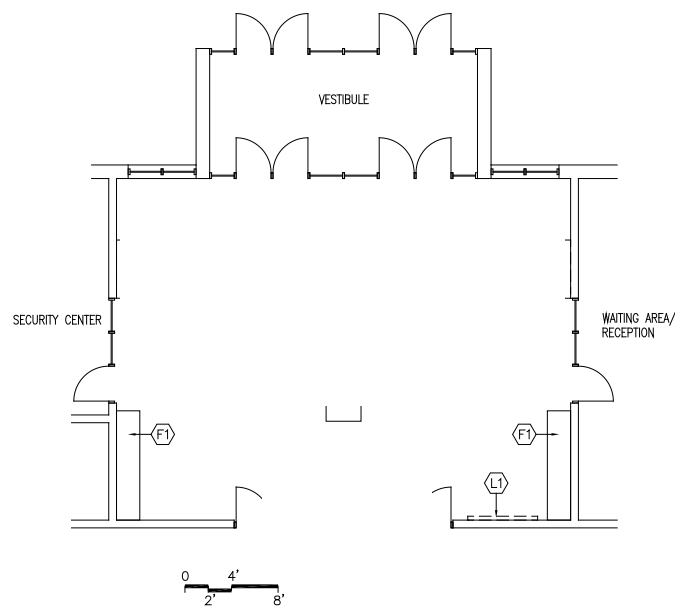
**AUDIO VISUAL EQUIPMENT**

None



**Administrative Space**

LOBBY (MAIN)



QUANTITY:

1

SIZE:

Part of general circulation

SPATIAL RELATIONSHIP:

- Adjacent and access to Main Office
- Adjacent and access to Security Office

GOAL:

To immediately greet visitors with a welcoming atmosphere and to provide easy accessibility for the public

SPACE REQUIREMENTS

Construction:	
Min Ceiling Height:	12'
Acoustics:	AC7 - Public Space
Power & Lighting	
User Convenience (excludes outlets for AV, security, etc.):	Duplex on perimeter walls at twelve feet (12'). One outlet per CCTV camera position
Lighting level	L5 - 25 FC ambient with focus lighting areas
Telecommunications	
Outlet (excludes outlets for AV, security, etc.):	None
Wireless Requirements:	TW2 - 2 wireless devices per occupant (based on maximum occupancy)

**ADDITIONAL REQUIREMENTS**

**Lobby & Reception:**

The lobby and reception areas shall be inviting, well lit and comfortably furnished.

Entry doors shall include a large vestibule for weather protection, with adequate capacity to handle large traffic volumes

Lobby and reception areas shall have built-in or moveable display areas, with the ability to provide focus lighting on specific objects

Reception shall open directly from the lobby and shall include seating areas for waiting

Reception area shall have 18' reception/transaction counter, and back-counter with base and wall cabinets. Counter shall be bi-level for ADA access.

**Security Layering**

Lobby and reception provide the first interior layer of security against intruders. All doors leading from lobby and reception shall be lockable with electronic ACAMS controls.

The morning student entrance may be located near the dining area.

The teachers' entrance may be near staff parking and must be pass key protected for controlled access at all times.

**BUILT-IN FIXTURES:**

F1 Display cases

L1 Electronic board

Security desk/counter with workstation

**LOOSE FURNISHINGS:**

**AUDIO VISUAL EQUIPMENT**

See Educational Technology Requirements

**RECEPTION/ WAITING AREA****QUANTITY:**

1

**CAPACITY:**

12 people

**SIZE:**800 SF (includes 50 SF coat closet)**SPATIAL RELATIONSHIPS:**

- Adjacent to Lobby
- Easy to locate and identify
- Maximize view to Lobby and entry

The attendance area will have a lockable window to the corridor with a counter.

**GOAL:**

- To provide a welcoming atmosphere and to serve as an information area for those coming into the school

**PROGRAM ACTIVITIES:**

Greeting people and directing them to the proper location or person  
Waiting area for visitors and staff members

**SPACE REQUIREMENTS**

Construction:	
Min Ceiling Height:	10'-0"
Acoustics:	AC4 - Medium Performance: Open Office and Workroom Office
Window shading:	S1 - Roller Shades, 5% Open
Power & Lighting	
User Convenience (excludes outlets for AV, security, etc.):	Duplex on perimeter walls at twelve feet (12'), power to electrified workstations
Lighting level	L2 - 35 FC at work surfaces
Telecommunications	
Outlet (excludes outlets for AV, security, etc.):	Standard data drop on perimeter walls at max 12' on center, data to electrified workstations
Wireless Requirements:	TW2 - 2 wireless devices per occupant (based on maximum occupancy)

**ADDITIONAL REQUIREMENTS****Lobby & Reception:**

The lobby and reception areas shall be inviting, well lit and comfortably furnished.

Entry doors shall include a large vestibule for weather protection, with adequate capacity to handle large traffic volumes

Lobby and reception areas shall have built-in or moveable display areas, with the ability to provide focus lighting on specific objects

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**Administrative Space**

Reception shall open directly from the lobby and shall include seating areas for waiting  
Reception area shall have 18' reception/transaction counter, and back-counter with base and wall cabinets. Counter shall be bi-level for ADA access.

**Security Layering**

Lobby and reception provide the first interior layer of security against intruders. All doors leading from lobby ad reception shall be lockable with electronic ACAMS controls.

**BUILT-IN FIXTURES:**

18' minimum reception counter (two level for handicapped access) with adjustable shelf storage on the inside

Counter and base cabinets along back wall; space for master intercom console

Tack board (8 LF)

**LOOSE FURNISHINGS:**

Desk/Workstations for 2 staff

2 ergonomic chairs

2 under the desk file cabinets

6-8 Visitor chairs

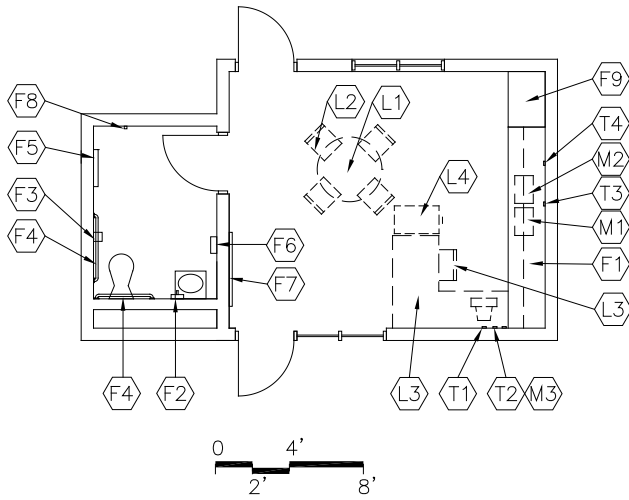
2 End tables

Display rack

**AUDIO VISUAL EQUIPMENT**

See Educational Technology Requirements

### PRINCIPAL'S OFFICE



#### QUANTITY:

1

#### CAPACITY:

Up to 5 people

#### SIZE:

230 SF (includes 50 SF private toilet)

#### SPATIAL RELATIONSHIPS:

Adjacent to Administrative Assistant's Office  
Near Conference Room

#### GOAL:

To serve as the home base for the principal from which he/she can provide instructional leadership in a personal, flexible, and organized environment for students, staff, and community

#### PROGRAM ACTIVITIES:

Administrative paperwork  
Computer input  
Conferences with staff and other visitors  
Interaction with students  
Planning  
Telephone calls

#### SPACE REQUIREMENTS

Construction:	
Min Ceiling Height:	9'-0"
Acoustics:	AC3 - Medium Performance: Closed Office
Window shading:	S1 - Roller Shades, 5% Open
Plumbing:	



**Administrative Space**

Fixture Type:	Lavatory and Water Closet
Piped services:	Hot and Cold Water
Special drains:	None
<b>Power &amp; Lighting</b>	
User Convenience (excludes outlets for AV, security, etc.):	2 duplex per wall on three of four walls in the office, single GFI/Shaver outlet in restroom
Lighting level	L2 - 35 FC at work surfaces
<b>Telecommunications</b>	
Outlet (excludes outlets for AV, security, etc.):	One standard data drop on two walls
Wireless Requirements:	TW2 - 2 wireless devices per occupant (based on maximum occupancy)
<b>SPECIALTIES</b>	
Special features:	None
<b>ADDITIONAL REQUIREMENTS</b>	
The office must be directly connected to a single-user restroom (Restroom: Gender Inclusive). Assignable Area includes both office space (180 ASF) and restroom space (50 ASF)	

**ADDITIONAL REQUIREMENTS**

None

**BUILT-IN FIXTURES:**

- F1 Casework: Base/wall cabinets and shelving
- F2 Soap dispenser
- F3 Toilet tissue holder
- F4 36" and 42" grab bars
- F5 24" x 60" mirror
- F6 Towel dispenser
- F7 Tack board (4 LF)
- F8 Coat hook

**LOOSE FURNISHINGS:**

- L1 Conference table
- L2 4 side chairs
- L3 Desk and chair
- L4 Four-drawer locking file cabinet

Miscellaneous Equipment (provided by owner):

- M1/2 Fax/Printer
- M3 Computer

**AUDIO VISUAL EQUIPMENT**

See Educational Technology Requirements

**ASSISTANT PRINCIPAL'S OFFICE****QUANTITY:**

2

**CAPACITY:**

Up to 4 people

**SIZE:**

250 SF

**SPATIAL RELATIONSHIPS:**

Adjacent to Administrative Assistant's Desk

Near Main Office

**GOAL:**

To serve as the home base for administrators from which he/she can provide leadership in a personal, flexible, and organized environment for students, staff, and community

**PROGRAM ACTIVITIES:**

Administrative paperwork

Computer input

Meetings with parents, students, and staff

Planning

Student counseling

Telephone calls

**SPACE REQUIREMENTS**

Construction:	
Min Ceiling Height:	9'-0"
Acoustics:	AC3 - Medium Performance: Closed Office
Window shading:	S1 - Roller Shades, 5% Open
Power & Lighting	
User Convenience (excludes outlets for AV, security, etc.):	2 duplex outlets per wall on two side walls
Lighting level	L2 - 35 FC at work surfaces
Telecommunications	
Outlet (excludes outlets for AV, security, etc.):	One standard data drop on two side walls
Wireless Requirements:	TW2 - 2 wireless devices per occupant (based on maximum occupancy)

**ADDITIONAL REQUIREMENTS**

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**Administrative Space**

**BUILT-IN FIXTURES:**

- F1 Casework:  
Base cabinets and shelving
- F3 Tack board (4 LF)
- F2 Casework: Wardrobe

**LOOSE FURNISHINGS:**

- L2 Desk
- L1 Ergonomic chair
- L3 4-drawer locking file cabinet
- L4 Bookcases

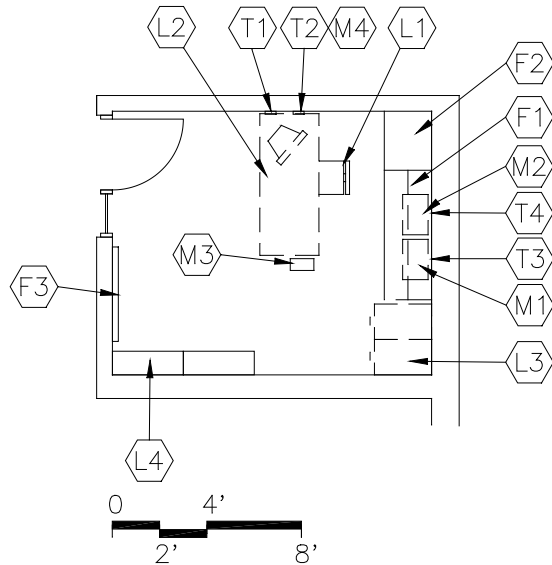
Miscellaneous Equipment (provided by owner):

- M2 Printer
- M4 Computer
- M1 FAX

**AUDIO VISUAL EQUIPMENT**

See Educational Technology Requirements

## ADMINISTRATIVE ASSISTANT'S OFFICE



### QUANTITY:

1

### CAPACITY:

Up to 2 people

### SIZE:

120 SF

### SPATIAL RELATIONSHIPS:

Adjacent and access to Waiting Area/Reception

Visual access to Waiting Area/Reception

Adjacent to Principal's Office

### GOAL:

To serve as an area from which the secretary can effectively provide administrative support

### PROGRAM ACTIVITIES:

Answering telephone

Data input and retrieval

Duties of confidential secretary

Financial accounting and bookkeeper functions

General office work

**Administrative Space****SPACE REQUIREMENTS**

Construction:	
Min Ceiling Height:	9'-0"
Acoustics:	AC3 - Medium Performance: Closed Office
Window shading:	S1 - Roller Shades, 5% Open
Power & Lighting	
User Convenience (excludes outlets for AV, security, etc.):	2 duplex outlets per wall on two side walls
Lighting level	L2 - 35 FC at work surfaces
Telecommunications	
Outlet (excludes outlets for AV, security, etc.):	One standard data drop on two side walls
Wireless Requirements:	TW2 - 2 wireless devices per occupant (based on maximum occupancy)

**ADDITIONAL REQUIREMENTS****BUILT-IN FIXTURES:**

- F1 Casework:
  - Base cabinets and shelving
- F3 Tack board (4 LF)
- F2 Casework: Wardrobe

**LOOSE FURNISHINGS:**

- L2 Desk
- L1 Ergonomic chair
- L3 4-drawer locking file cabinet
- L4 Bookcases

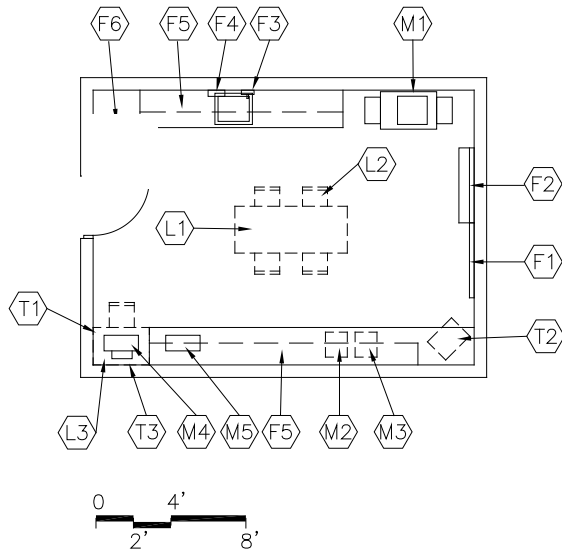
Miscellaneous Equipment (provided by owner):

- M2 Printer
- M4 Computer
- M1 FAX

**AUDIO VISUAL EQUIPMENT**

See Educational Technology Requirements

### ADMINISTRATIVE WORKROOM



#### QUANTITY:

1

#### CAPACITY:

Up to 4 people

#### SIZE:

200 SF

#### ANCILLARY SPACES:

Supply/ Storage Room

Toilet (Adult)

#### SPATIAL RELATIONSHIPS:

Near Reception/ Waiting Area

#### GOAL:

To provide an area for office projects to be completed

#### PROGRAM ACTIVITIES:

Binding reports

Collating

Copying

Laminating

Preparing communications for mailing

Sorting of files

Telephone communications

**Administrative Space****SPACE REQUIREMENTS**

Construction:	
Min Ceiling Height:	9'-0"
Acoustics:	AC4 - Medium Performance: Open Office and Workroom Office
Window shading:	S1 - Roller Shades, 5% Open
Plumbing:	
Fixture Type:	Kitchen sink
Piped services:	Hot and Cold Water
Special drains:	None
Power & Lighting	
User Convenience (excludes outlets for AV, security, etc.):	Duplex on perimeter walls at twelve feet (12'), 2 recessed floor quad
Lighting level	L2 - 35 FC at work surfaces
Telecommunications	
Outlet (excludes outlets for AV, security, etc.):	Standard data drops on perimeter walls at max 12' on center
Wireless Requirements:	TW2 - 2 wireless devices per occupant (based on maximum occupancy)

**ADDITIONAL REQUIREMENTS**

None

**BUILT-IN FIXTURES:**

- F1 Tack board (4 LF)
- F2 Marker board (4 LF)
- F3 Sink w/soap dispenser
- F4 Towel dispenser
- F5 Casework: Base cabinets and shelving

**LOOSE FURNISHINGS:**

- L1 Work table
- L2 4 chairs
- L3 Computer workstation with ergonomic task chair

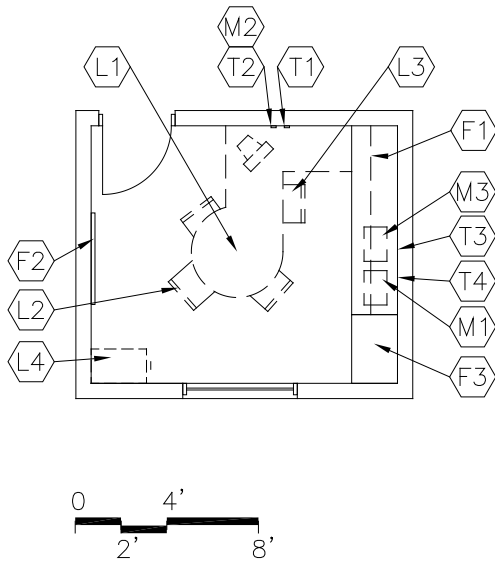
Miscellaneous Equipment (provided by owner):

- M1 Copier
- M2 Paper cutter
- M3 Laminating machine
- M4 Computer
- M5 Printer

**AUDIO VISUAL EQUIPMENT**

See Educational Technology Requirements

## BUSINESS MANAGER'S OFFICE



### QUANTITY:

1

### CAPACITY:

Up to 4 people

### SIZE:

150 SF

### SPATIAL RELATIONSHIPS:

Adjacent to Administrative Assistant's Office  
Near Main Office

### GOAL:

To serve as the home base for administrators from which he/she can provide leadership in a personal, flexible, and organized environment for students, staff, and community

### PROGRAM ACTIVITIES:

Administrative paperwork  
Computer input  
Meetings with parents, students, and staff  
Planning  
Student counseling  
Telephone calls



**Administrative Space****SPACE REQUIREMENTS**

Construction:	
Min Ceiling Height:	9'-0"
Acoustics:	AC3 - Medium Performance: Closed Office
Window shading:	S1 - Roller Shades, 5% Open
Power & Lighting	
User Convenience (excludes outlets for AV, security, etc.):	2 duplex outlets per wall on two side walls
Lighting level	L2 - 35 FC at work surfaces
Telecommunications	
Outlet (excludes outlets for AV, security, etc.):	One standard data drop on two side walls
Wireless Requirements:	TW2 - 2 wireless devices per occupant (based on maximum occupancy)

**ADDITIONAL REQUIREMENTS**

None

**BUILT-IN FIXTURES:**

- F1 Casework: Base cabinets and shelving
- F2 Tack board (4 LF)
- F3 Casework: Wardrobe

**LOOSE FURNISHINGS:**

- L1 Desk
- L2 Side chairs
- L3 Ergonomic Chair
- L4 4-drawer locking file cabinet

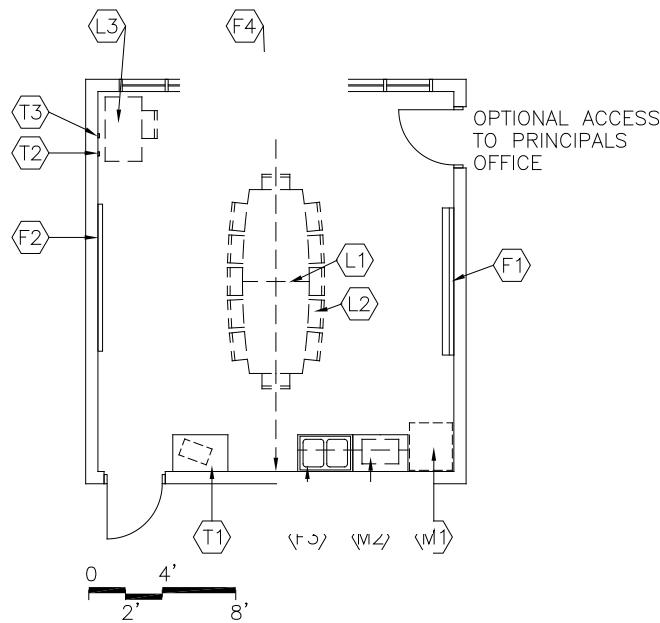
Miscellaneous Equipment (provided by owner):

- M1 Printer
- M2 Computer
- M3 Fax (optional)

**AUDIO VISUAL EQUIPMENT**

See Educational Technology Requirements

CONFERENCE ROOM



QUANTITY:

2

CAPACITY:

Up to 20 people

SIZE:

250 SF

SPATIAL RELATIONSHIPS:

In administrative suite

GOAL:

To provide an area adequate for small and medium group conferences

PROGRAM ACTIVITY:

Meetings/conferences  
Staff collaboration

SPACE REQUIREMENTS

Construction:	
Min Ceiling Height:	9'-0"
Acoustics:	AC2 - High Performance: Conference Room or Confidential Space
Window shading:	S2 - Roller Shades, 5% Open and Motorized Blackout Shades
Power & Lighting	
User Convenience (excludes outlets for AV, security, etc.):	Duplex on perimeter walls at twelve feet (12'), Three (3) recessed floor quad boxes

---

**Administrative Space**

Lighting level	L3 - 35 FC at work surfaces and walls
Telecommunications	
Outlet (excludes outlets for AV, security, etc.):	1 standard data drop on two walls and 1 recessed floor box with standard (2) data outlets
Wireless Requirements:	TW2 - 2 wireless devices per occupant (based on maximum occupancy)
SPECIALTIES	
Special features:	None
ADDITIONAL REQUIREMENTS	
Conference Room Technology – All administrative conference rooms will have two on-table computer connections to a video display screen and be internet capable. Two lighting/multi-media control panel shall be table mounted and one wall mounted.	

**ADDITIONAL REQUIREMENTS**

None

**BUILT-IN FIXTURES:**

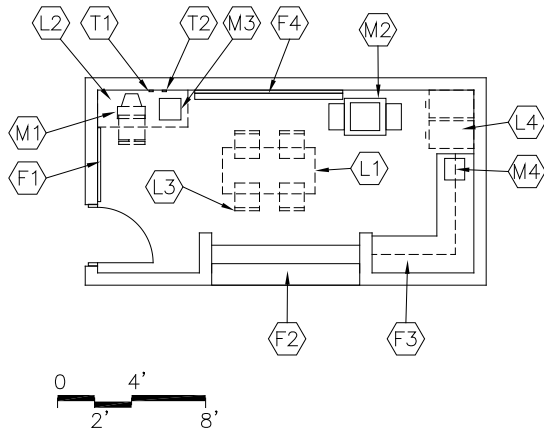
- F1 Marker board (8 LF)
- F2 Tack board (8 LF)

**LOOSE FURNISHINGS:**

- L1 Conference table
- L2 Chairs
- L3 Computer workstation furniture

**AUDIO VISUAL EQUIPMENT**

See Educational Technology Requirements

**MAILROOM****QUANTITY:**

1

**SIZE:**

150 SF

**SPATIAL RELATIONSHIP:**

Located within/adjacent to the administrative suite

**GOAL:**

To provide adequate space and equipment for office work projects and an area to disseminate incoming mail to staff members

**PROGRAM ACTIVITIES:**

Collating materials  
 Copying  
 Delivery of general mail  
 General office work  
 Storing of pertinent files

**SPACE REQUIREMENTS**

Construction:	
Min Ceiling Height:	9'-0"
Acoustics:	AC4 - Medium Performance: Open Office and Workroom Office
Power & Lighting	
User Convenience (excludes outlets for AV, security, etc.):	Duplex at counters at max 4' on center, on walls at twelve feet (12')
Lighting level	L2 - 35 FC at work surfaces
Telecommunications	
Outlet (excludes outlets for AV, security, etc.):	One standard data drop per wall: locate data drops to avoid built in cabinetry

---

**Administrative Space**

Wireless Requirements:	TW1 - 1 wireless device per occupant (based on maximum occupancy)
<b>SPECIALTIES</b>	
Special features:	Built in base cabinet and work counter, 30" deep, 16' min Pass through mail slots sized to accommodate a minimum of 110% of staff

**ADDITIONAL REQUIREMENTS**

None

**BUILT-IN FIXTURES:**

- F1 Tack board (4 LF)
- F2 Casework: 2sided mail slots for 110% of staff with base cabinets below
- F3 Casework: Base/wall cabinets
- F4 Marker board (8 LF)

**LOOSE FURNISHINGS:**

- L1 Work table
- L2 Computer workstation with ergonomic task chair
- L3 2-4 Chairs
- L4 2, 4-drawer file cabinets

Miscellaneous Equipment (provided by owner):

- M1 Computer (optional)
- M2/3 Printer/copier (optional)
- M4 FAX (optional)

**AUDIO VISUAL EQUIPMENT**

None

**SECURITY CENTER/ OFFICE SUITE****QUANTITY:**

1

**CAPACITY:**

Up to 4 person

**SIZE:**

200 SF

**SPATIAL RELATIONSHIPS:**

Near entrance to main Corridor

Near student entrance if different

Suite needs three activity areas

Work/meeting space for team

Breakout/quiet area (100 SF)

Camera monitor area w/ privacy screen

**GOAL:**

To serve as an area from which the school resource officers can perform their administrative and law enforcement functions

**PROGRAM ACTIVITIES:**

Complete reports

Meet with parents, staff, and other law enforcement officials

Monitor surveillance equipment

Perform counseling

**SPACE REQUIREMENTS**

Construction:	
Min Ceiling Height:	9'-0"
Acoustics:	AC3 - Medium Performance: Closed Office
Window shading:	S1 - Roller Shades, 5% Open
Power & Lighting	
User Convenience (excludes outlets for AV, security, etc.):	2 duplex per wall on three of four walls
Lighting level	L2 - 35 FC at work surfaces
Telecommunications	
Outlet (excludes outlets for AV, security, etc.):	One standard data drop on two side walls
Wireless Requirements:	TW2 - 2 wireless devices per occupant (based on maximum occupancy)

**ADDITIONAL REQUIREMENTS**

None

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**BUILT-IN FIXTURES:**

**LOOSE FURNISHINGS:**

Work tables

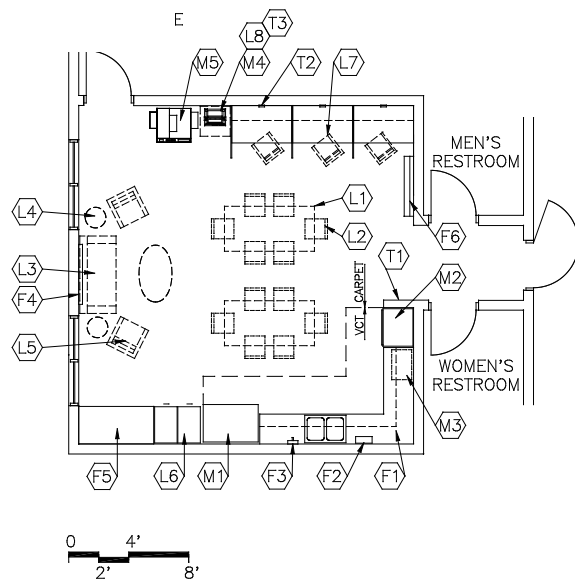
2-4 chairs

Desks/workstation and chair

**AUDIO VISUAL EQUIPMENT**

See Educational Technology Requirements

## STAFF BREAK ROOM



### QUANTITY:

2 room

### CAPACITY:

6-36 teachers

### SIZE:

600 SF (including bathrooms)

### ANCILLARY SPACES:

Men's and Women's Restrooms

### SPATIAL RELATIONSHIPS:

Access from Corridor  
Near Dining  
Restrooms within or near

### GOAL:

To provide an area for staff to relax and prepare for classes.

### PROGRAM ACTIVITIES:

Eating  
Interacting with peers  
Prepare lessons using computer, video, and other resources.  
Relaxing  
Using the telephone



**SPACE REQUIREMENTS**

Construction:	
Min Ceiling Height:	8'-0"
Acoustics:	AC7 - Public Space
Window shading:	S1 - Roller Shades, 5% Open
Plumbing:	
Fixture Type:	Double kitchen sink
Piped services:	HW, CW
Special drains:	Sink drain
Power & Lighting	
User Convenience (excludes outlets for AV, security, etc.):	Duplex on perimeter walls at twelve feet (12'), 2' on center at counter; dedicated circuits for appliances
Power density:	PW3 - 5W/ASF
Lighting level	L2 - 35 FC at work surfaces
Lighting control	LC8 - Public Space
Telecommunications	
Outlet (excludes outlets for AV, security, etc.):	Standard data drops on perimeter walls at max 12' on center
Wireless Requirements:	TW2 - 2 wireless devices per occupant (based on maximum occupancy)

**ADDITIONAL REQUIREMENTS**

Adequate ventilation/exhaust

Auditory Privacy:

Wall minimum: STC 45

Ceiling minimum: CAC 35

Consider future technology needs, build-in flexibility to retain options

Uniform lighting with multi-level switching

Windows to provide natural light and egress

**BUILT-IN FIXTURES:**

- F1 Casework: Base/wall cabinets
- F2 Towel dispenser
- F3 Soap dispenser
- F4 Tack board (4 LF)
- F5 Casework: Wardrobe for floating teachers
- F6 Marker board (4 LF)

**LOOSE FURNISHINGS:**

- L1 2 Rectangular tables
- L2 12 Chairs
- L3 Sofa
- L4 End tables
- L5 Lounge chairs
- L6 2-3, 2-drawer locking file cabinet for floating teachers
- L7 2-3 Workstations for floating teachers with ergonomic task chairs

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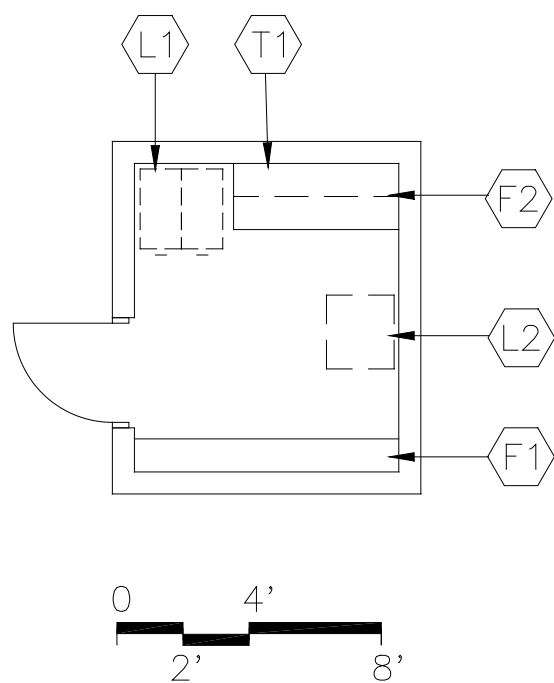
**Administrative Space**

- L8 Printer table
- M1 Vending machine
- M2 Refrigerator
- M3 Microwave

**AUDIO VISUAL EQUIPMENT**

See Educational Technology Requirements

SUPPLY (General)/ ADMINISTRATIVE STORAGE



QUANTITY:

2

SIZE:

125 SF

SPATIAL RELATIONSHIPS:

Adjacent and access to Administrative Workroom

GOAL:

To provide adequate and secure storage for office supplies

PROGRAM ACTIVITY:

Storing of office supplies, forms, and files

SPACE REQUIREMENTS

Construction:	
Min Ceiling Height:	9'-0"
Acoustics:	AC8 - Utility Space
Window shading:	None
Power & Lighting	
User Convenience (excludes outlets for AV, security, etc.):	Duplex on perimeter walls, min one per wall
Lighting level	L6 - 40 FC ambient, 70 FC at any service points or equipment

**Administrative Space**

Telecommunications	
Outlet (excludes outlets for AV, security, etc.):	None
Wireless Requirements:	TW1 - 1 wireless device per occupant (based on maximum occupancy)

**ADDITIONAL REQUIREMENTS**

None

**BUILT-IN FIXTURES:**

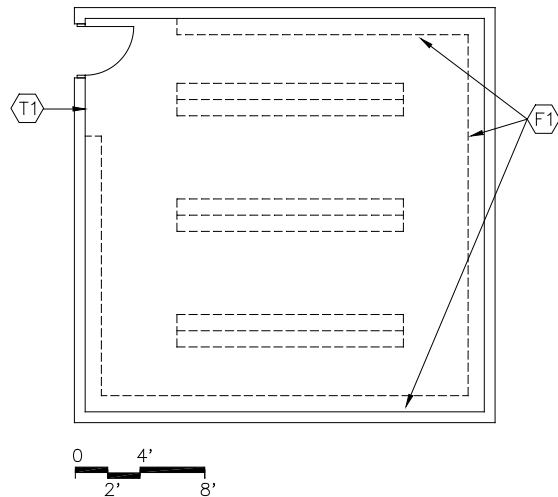
- F1 Shelving
- F2 Lockable cabinets

**LOOSE FURNISHINGS:**

- L1 2, 4-drawer file cabinet
- L2 Small safe

**AUDIO VISUAL EQUIPMENT**

None

**TEXT BOOK ROOM****QUANTITY:**

2

**SIZE:**

500 SF (2,000 LF of shelving)

**SPATIAL RELATIONSHIPS:**

Near Administration

**GOAL:**

To provide secure storage for teaching materials

**PROGRAM ACTIVITY:**

Storage of textbooks and teaching supplies and forms  
Inventory

**SPACE REQUIREMENTS**

Construction:	
Min Ceiling Height:	9'-0"
Acoustics:	AC8 - Utility Space
Window shading:	None
Power & Lighting	
User Convenience (excludes outlets for AV, security, etc.):	Duplex on perimeter walls, min one per wall
Power density:	PW1 - 1W/ASF
Lighting level	L6 - 40 FC ambient, 70 FC at any service points or equipment
Lighting control	LC6 - Workrooms / Utility
Telecommunications	
Outlet (excludes outlets for AV, security, etc.):	None

**Administrative Space**

Wireless Requirements:	TW1 - 1 wireless device per occupant (based on maximum occupancy)
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**ADDITIONAL REQUIREMENTS**

None

**BUILT-IN FIXTURES:**

- F1 Adjustable shelving (2,000 LF)
- Mobile shelving on casters

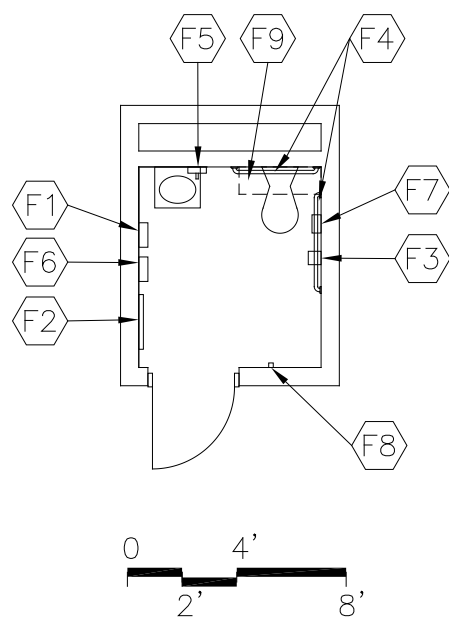
**LOOSE FURNISHINGS:**

None

**AUDIO VISUAL EQUIPMENT**

None

TOILET (Adult)



QUANTITY:  
2

CAPACITY:  
Up to 1 person

SIZE:  
50 SF

SPATIAL RELATIONSHIPS:  
Adjacent to Administrative Workroom

SPACE REQUIREMENTS

Construction:	
Min Ceiling Height:	8'-0"
Acoustics:	AC7 - Public Space
Window shading:	None
Plumbing:	
Fixture Type:	Toilet, lavatory w/sensor control faucet
Piped services:	HW, CW
Special drains:	Drain connection to fixtures
Power & Lighting	
User Convenience (excludes outlets for AV, security, etc.):	GFI Duplex at lavatory, one per room
Lighting level	L7 - 25 FC ambient
Telecommunications	

**Administrative Space**

Outlet (excludes outlets for AV, security, etc.):	None
Wireless Requirements:	TW1 - 1 wireless device per occupant (based on maximum occupancy)

**ADDITIONAL REQUIREMENTS**

None

**BUILT-IN FIXTURES:**

- F1 Towel dispenser
- F2 24" x 60" mirror
- F3 Toilet tissue holder
- F4 36" and 42" grab bars
- F5 Soap dispenser
- F6 Sanitary dispenser
- F7 Sanitary disposal
- F8 Coat hook
- F9 Casework: Wall cabinet

**LOOSE FURNISHINGS:**

None

**AUDIO VISUAL EQUIPMENT**

None



**Administrative Space**

---

**Guidance/ Student Services Space**

**RECEPTION AND WELCOME CENTER****QUANTITY:**

1

**CAPACITY:**

Parents  
Staff  
Students  
Visitors

**SIZE:**

300 SF

**SPATIAL RELATIONSHIPS:**

Locate near entrance  
Glass into the corridor for security and visibility

**GOAL:**

To provide a space designated to help students and the public feel welcome and to provide information  
Waiting area for counselor services

**PROGRAM ACTIVITIES:**

Administrative activities  
Greeting visitors  
Waiting area for students

**SPACE REQUIREMENTS**

Construction:	
Min Ceiling Height:	10'-0"
Acoustics:	AC3 - Office
Window shading:	S1 - Roller Shades, 5% Open
Power & Lighting	
User Convenience (excludes outlets for AV, security, etc.):	Duplex on perimeter walls at twelve feet (12'), power to electrified workstations
Lighting level	L2 - 35 FC at work surfaces
Telecommunications	
Outlet (excludes outlets for AV, security, etc.):	Standard data drop on perimeter walls at max 12' on center, data to electrified workstations
Wireless Requirements:	TW2 - 2 wireless devices per occupant (based on maximum occupancy)

**ADDITIONAL REQUIREMENTS**

None

**BUILT-IN FIXTURES:**

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**Administrative Space**

Tack board (4 LF)  
Reception counter (optional)

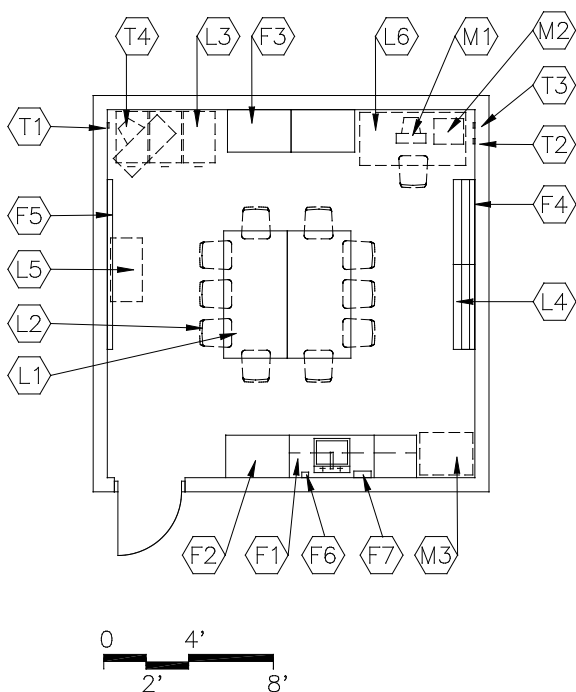
**LOOSE FURNISHINGS:**

4 visitor chairs  
Desk  
End table  
Ergonomic task chair  
Information kiosk/display

**AUDIO VISUAL EQUIPMENT**

See Educational Technology Requirements

## PARENT RESOURCE CENTER



### QUANTITY:

1

### CAPACITY:

Up to 12 People  
Parents  
PTO/PTA members  
Volunteers

### SIZE:

350 SF

### SPATIAL RELATIONSHIPS:

Near Reception/ Welcome Center  
Near Main Lobby Entrance  
Near Public Restrooms

### GOALS:

To provide a place for parents to meet and work when they volunteer at school  
To provide a place for parents to store their personal belongings  
To provide a place for the PTSA to store their materials  
To provide space for parents to check-out and use parenting sources

## Administrative Space

### PROGRAM ACTIVITIES:

- Parent training
- Small group meetings
- Storage for personal items
- Storage of fundraising materials (PTO/PTA)
- Work area

### SPACE REQUIREMENTS

Construction:	
Min Ceiling Height:	9'-0"
Acoustics:	AC4 - Medium Performance: Open Office and Workroom Office
Window shading:	S1 - Roller Shades, 5% Open
Plumbing:	
Fixture Type:	Kitchen sink
Power & Lighting	
User Convenience (excludes outlets for AV, security, etc.):	Duplex on perimeter walls at twelve feet (12'), 2 recessed floor quad
Lighting level	L2 - 35 FC at work surfaces
Telecommunications	
Outlet (excludes outlets for AV, security, etc.):	Standard data drops on perimeter walls at max 12' on center
Wireless Requirements:	TW2 - 2 wireless devices per occupant (based on maximum occupancy)

### ADDITIONAL REQUIREMENTS

None

### BUILT-IN FIXTURES:

- F1 Casework: Base/wall cabinets
- F2 Casework: Wardrobe cabinet
- F3 Casework: Storage cabinets
- F4 Marker board (8 LF)
- F5 Tack board (8 LF)
- F6 Soap dispenser
- F7 Towel dispenser

### LOOSE FURNISHINGS:

- L1 2 tables (36" x 72")
- L2 10 chairs
- L3 4-drawer file cabinet
- L4 Adjustable height bookshelves (20 LF)
- L6 Computer workstation

#### Miscellaneous Equipment (provided by owner):

- M1 Computer
- M2 Printer

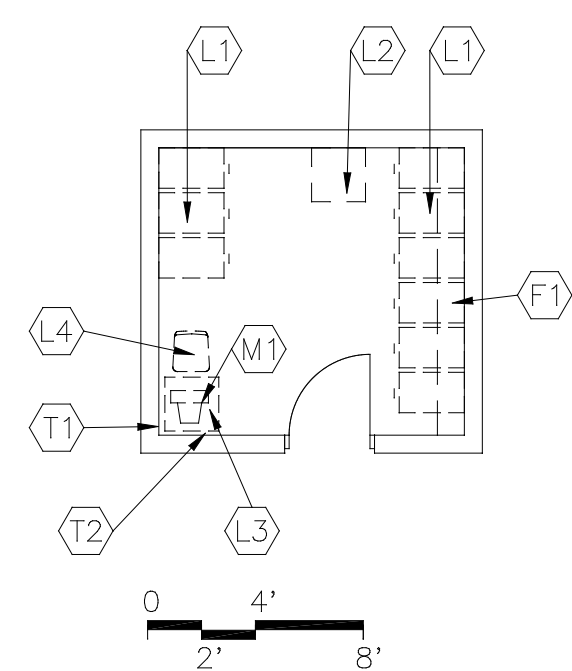
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M3 Refrigerator with ice maker

**AUDIO VISUAL EQUIPMENT**

See Educational Technology Requirements

RECORDS STORAGE ROOM



QUANTITY:  
1

CAPACITY:  
Staff Up to 1

SIZE:  
150 SF

SPATIAL RELATIONSHIPS:  
Near Business Manager’s Office

GOAL:  
To provide secure, fireproof, and adequate storage for money, records, and other valuable items

PROGRAM ACTIVITIES:  
Accessible to administration staff  
Storage of files and records  
Storing of money and other valuable items

SPACE REQUIREMENTS

Construction:	
Min Ceiling Height:	9'-0"
Acoustics:	AC8 - Utility Space
Window shading:	None

---

**Administrative Space**

<b>Power &amp; Lighting</b>	
User Convenience (excludes outlets for AV, security, etc.):	Duplex on perimeter walls, min one per wall
Lighting level	L6 - 40 FC ambient, 70 FC at any service points or equipment
<b>Telecommunications</b>	
Outlet (excludes outlets for AV, security, etc.):	None
Wireless Requirements:	TW1 - 1 wireless device per occupant (based on maximum occupancy)

**ADDITIONAL REQUIREMENTS****BUILT-IN FIXTURES:**

F1 Casework: Wall shelving

**LOOSE FURNISHINGS:**

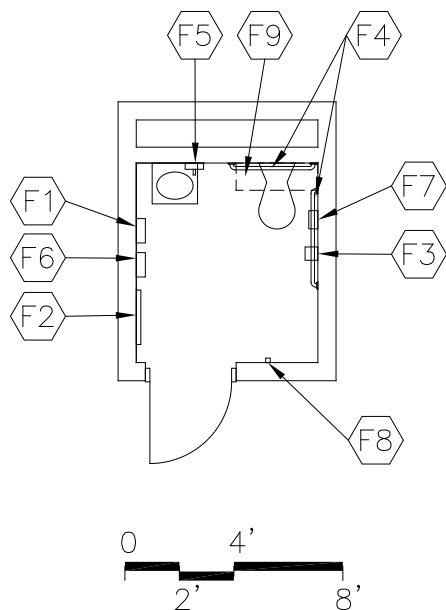
- L1 8-10, 4-drawer file cabinets (fireproof)
- L2 Small safe
- L3 Small table
- L4 Chair

**AUDIO VISUAL EQUIPMENT**

None



TOILET (Adult)



QUANTITY:

- 2

CAPACITY:

- Up to 1 person

SIZE:

- 50 SF

SPATIAL RELATIONSHIPS:

- Located within Health Suite adjacent to the Cot Area

PROGRAM ACTIVITY:

- Changing clothing
- Personal and health needs for the health suite

SPACE REQUIREMENTS

Construction:	
Min Ceiling Height:	8'-0"
Acoustics:	AC7 - Public Space
Window shading:	None
Plumbing:	
Fixture Type:	Toilet, lavatory w/sensor control faucet
Power & Lighting	
User Convenience (excludes outlets for AV, security, etc.):	GFI Duplex at lavatory, one per room

**Administrative Space**

Lighting level	L7 - 25 FC ambient
Telecommunications	
Outlet (excludes outlets for AV, security, etc.):	None
Wireless Requirements:	TW1 - 1 wireless device per occupant (based on maximum occupancy)

**ADDITIONAL REQUIREMENTS**

None

**BUILT-IN FIXTURES:**

- F1 Towel dispenser
- F2 24" x 60" mirror
- F3 Toilet tissue holder
- F4 36" and 42" grab bars
- F5 Soap dispenser
- F6 Sanitary dispenser
- F7 Sanitary disposal
- F8 Coat hook
- F9 Casework: Wall cabinet

**LOOSE FURNISHINGS:**

None

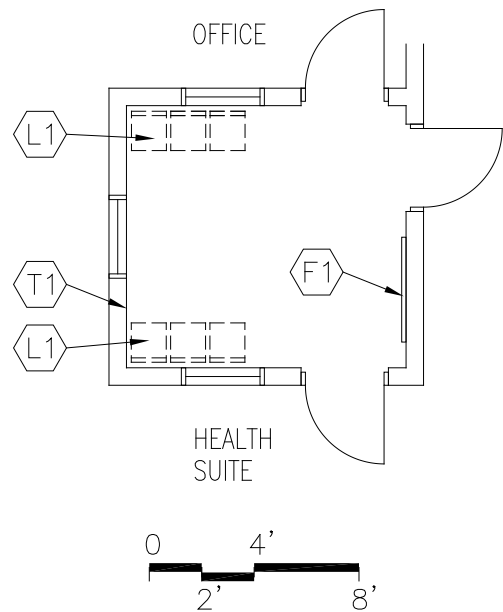
**AUDIO VISUAL EQUIPMENT**

None

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Health Suite Space

RECEPTION/ WAITING AREA



QUANTITY:

1

CAPACITY:

Up to 6 people

SIZE:

200 SF

SPATIAL RELATIONSHIPS:

- First space one enters in Health Suite
- Ground floor
- May include Nurse’s desk and work station (see Office for description of F&E)

GOAL:

To provide an area for students waiting to see the nurse or for parent pick-up

SPACE REQUIREMENTS

Construction:	
Min Ceiling Height:	9'-0"
Acoustics:	AC3 - Medium Performance: Closed Office
Window shading:	S1 - Roller Shades, 5% Open
Power & Lighting	
User Convenience (excludes outlets for AV, security, etc.):	Duplex on perimeter walls at twelve feet (12')
Lighting level	L5 - 25 FC ambient with focus lighting areas
Telecommunications	

**Health Suite Space**

Outlet (excludes outlets for AV, security, etc.):	Standard data drops on perimeter walls at max 12' on center
Wireless Requirements:	TW1 - 1 wireless device per occupant (based on maximum occupancy)
ADDITIONAL REQUIREMENTS	
Waiting room shall provide visual privacy for people waiting	

**ADDITIONAL REQUIREMENTS**

None

**BUILT-IN FIXTURES:**

F1 Tack board  
Brochure rack

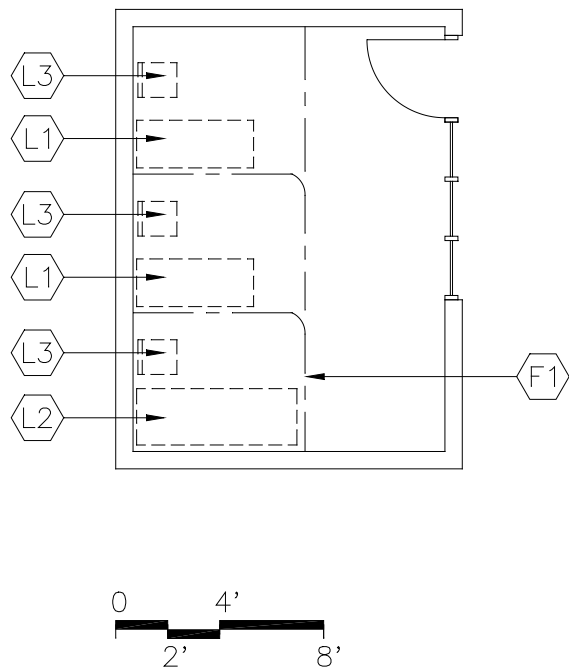
**LOOSE FURNISHINGS:**

L1 4-6 visitor chairs  
2 Side tables w/ lamps

**AUDIO VISUAL EQUIPMENT**

See Educational Technology Requirements

COT ROOMS



QUANTITY:

3

CAPACITY:

1 person per cot

SIZE:

130 SF

ANCILLARY SPACES:

Toilet adjacent to each cot area

SPATIAL RELATIONSHIPS:

Located within Health Suite

GOAL:

To provide a place for students and staff to lie down when feeling ill

PROGRAM ACTIVITIES:

Resting

SPACE REQUIREMENTS

Construction:	
Min Ceiling Height:	9"-0"
Acoustics:	AC3 - Medium Performance: Closed Office

Window shading:	None
<b>Power &amp; Lighting</b>	
User Convenience (excludes outlets for AV, security, etc.):	Duplex on perimeter walls at twelve feet (12'), outlets for computer charting station and vital station height.
Lighting level	L8 - 15 FC ambient
<b>Telecommunications</b>	
Outlet (excludes outlets for AV, security, etc.):	Standard data drops on perimeter walls at max 12' on center
Wireless Requirements:	TW1 - 1 wireless device per occupant (based on maximum occupancy)

**ADDITIONAL REQUIREMENTS**

Adequate ventilation  
 Audio and visual privacy  
 Separate Male and Female Cot areas visible to the Office and Waiting Area  
 Visual access to Waiting Area/Reception or Welcome Center

**BUILT-IN FIXTURES:**

F1 Cubical curtain

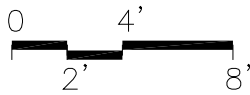
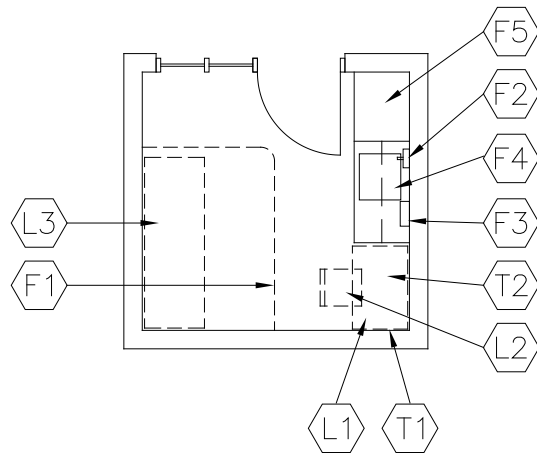
**LOOSE FURNISHINGS:**

L1 2 small cots  
 L2 1 large cot  
 L3 3 chairs

**AUDIO VISUAL EQUIPMENT**

See Educational Technology Requirements

**EXAM ROOM/ TREATMENT AREA**



**QUANTITY:**

1

**CAPACITY:**

Up to 2 people

**SIZE:**

125 SF

**ANCILLARY SPACES:**

Storage Area

**SPATIAL RELATIONSHIPS:**

Located within Health Suite and adjacent to Treatment Area

Near Waiting Area

**GOAL:**

To provide school based health services

**PROGRAM ACTIVITIES:**

- Administrative paperwork
- Consultation with students
- First aid
- Health screening
- Medical treatments
- Medication administration



**SPACE REQUIREMENTS**

Construction:	
Min Ceiling Height:	9'-0"
Acoustics:	AC2 - High Performance: Conference Room or Confidential Space
Window shading:	S1A -Blinds/Shades and Manually Operated Blackout Shades
Plumbing:	
Fixture Type:	Lavatory w/sensor control faucet
Power & Lighting	
User Convenience (excludes outlets for AV, security, etc.):	Duplex on perimeter walls at twelve feet (12'), outlets for computer charting station and vital station height.
Lighting level	L6 - 40 FC ambient, 70 FC at any service points or equipment
Telecommunications	
Outlet (excludes outlets for AV, security, etc.):	Two (2) data drop per wall on two walls.
Wireless Requirements:	TW2 - 2 wireless devices per occupant (based on maximum occupancy)
SPECIALTIES	
Special features:	4' base cabinet; 4' wall mounted cabinet; handwash sink; wall mounted medical computer desk, curtains on windows, Privacy curtains, paper towel holder, soap dispenser

**ADDITIONAL REQUIREMENTS**

Sink with hot and cold water/gooseneck with paddle handles

Visual access to Waiting Area/Reception

Wheelchair area within space

Note: Nurse should have visual control over the cots and reception area even while in the treatment area.

**BUILT-IN FIXTURES:**

F1 Cubical curtain

F2 Soap dispenser

F3 Towel dispenser

F4 Casework: Base/wall cabinets

F5 Casework: Student-access medicine cabinet (see staff for space and design requirements)

**LOOSE FURNISHINGS:**

L1 Desk

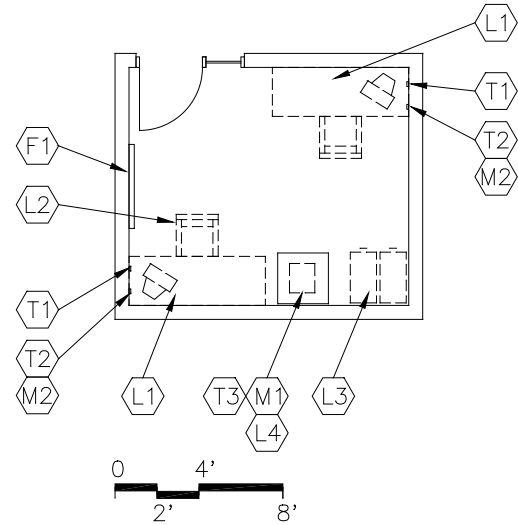
L2 Ergonomic chair

L3 Cot or exam table

**AUDIO VISUAL EQUIPMENT**

See Educational Technology Requirements

OFFICE



QUANTITY:

2

CAPACITY:

Up to 2 people

SIZE:

120 SF

SPATIAL RELATIONSHIPS:

Adjacent and visual into Waiting Area/Reception

GOAL:

To provide an office for the staff to perform clerical functions

PROGRAM ACTIVITIES:

- Computer input
- Conferences with staff and other visitors
- Paperwork
- Planning
- Telephone calls

SPACE REQUIREMENTS

Construction:	
Min Ceiling Height:	9'-0"
Acoustics:	AC3 - Medium Performance: Closed Office
Window shading:	S1 - Roller Shades, 5% Open
Power & Lighting	

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**Health Suite Space**

User Convenience (excludes outlets for AV, security, etc.):	2 duplex per wall on three of four walls
Lighting level	L2 - 35 FC at work surfaces
Telecommunications	
Outlet (excludes outlets for AV, security, etc.):	One standard data drop on two side walls
Wireless Requirements:	TW2 - 2 wireless devices per occupant (based on maximum occupancy)

**ADDITIONAL REQUIREMENTS**

None

**BUILT-IN FIXTURES:**

F1 Tack board

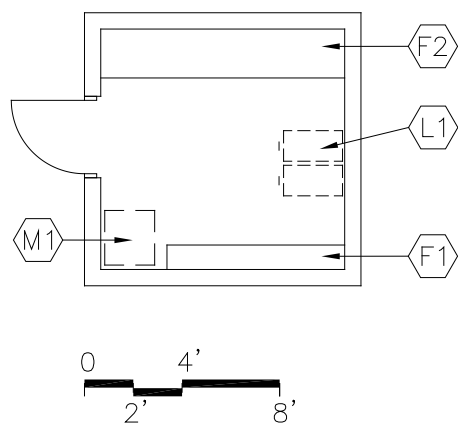
**LOOSE FURNISHINGS:**

- L1 1 desk
- L2 1 ergonomic task chair
- L3 1 4-drawer file cabinet
- L4 Printer table
- Guest chair

**AUDIO VISUAL EQUIPMENT**

See Educational Technology Requirements

STORAGE AREA



QUANTITY:

1

CAPACITY:

Up to 1 person

SIZE:

50 SF

SPATIAL RELATIONSHIPS:

Adjacent and access to Treatment Area

GOAL:

To provide storage for medical supplies and equipment

PROGRAM ACTIVITIES:

Storage

SPACE REQUIREMENTS

Construction:	
Min Ceiling Height:	9'-0"
Acoustics:	AC8 - Utility Space
Plumbing:	
Fixture Type:	Cconnection for ice maker
Piped services:	Cold water
Special drains:	Drain connection to fixtures
Power & Lighting	
User Convenience (excludes outlets for AV, security, etc.):	Duplex on perimeter walls, one per wall
Power density:	PW1 - 1W/ASF
Lighting level	L6 - 40 FC ambient, 70 FC at any service points or equipment
Lighting control	LC6 - Workrooms / Utility

Telecommunications	
Outlet (excludes outlets for AV, security, etc.):	1 standard data drop per room
Wireless Requirements:	TW1 - 1 wireless device per occupant (based on maximum occupancy)

**ADDITIONAL REQUIREMENTS**

None

**BUILT-IN FIXTURES:**

- F1 Storage shelving - 12" deep
- F2 Storage shelving - 24" deep

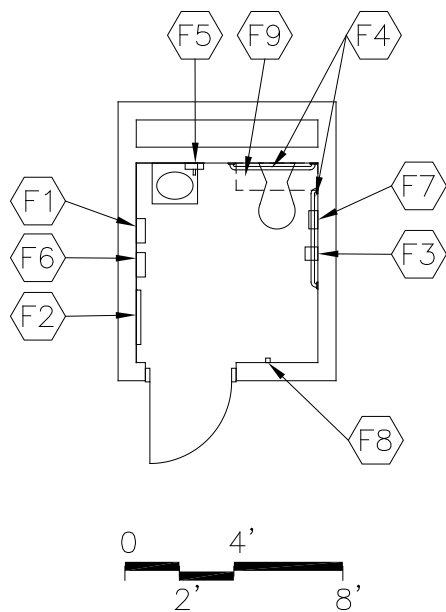
**LOOSE FURNISHINGS:**

- L1 File cabinets
- M1 Refrigerator (lockable) with ice maker

**AUDIO VISUAL EQUIPMENT**

None

TOILET



QUANTITY:

3

CAPACITY:

Up to 1 person

SIZE:

50 SF

SPATIAL RELATIONSHIPS:

Located within Health Suite adjacent to the Cot Area

PROGRAM ACTIVITY:

- Changing clothing
- Personal and health needs for the health suite

SPACE REQUIREMENTS

Construction:	
Min Ceiling Height:	8'-0"
Acoustics:	AC7 - Public Space
Window shading:	None
Plumbing:	
Fixture Type:	Toilet, lavatory w/sensor control faucet
Power & Lighting	
User Convenience (excludes outlets for AV, security, etc.):	GFI Duplex at lavatory, one per room

---

**Health Suite Space**

Lighting level	L7 - 25 FC ambient
Telecommunications	
Outlet (excludes outlets for AV, security, etc.):	None
Wireless Requirements:	TW1 - 1 wireless device per occupant (based on maximum occupancy)

**ADDITIONAL REQUIREMENTS**

None

**BUILT-IN FIXTURES:**

- F1 Towel dispenser
- F2 24" x 60" mirror
- F3 Toilet tissue holder
- F4 36" and 42" grab bars
- F5 Soap dispenser
- F6 Sanitary dispenser
- F7 Sanitary disposal
- F8 Coat hook

**LOOSE FURNISHINGS:**

None

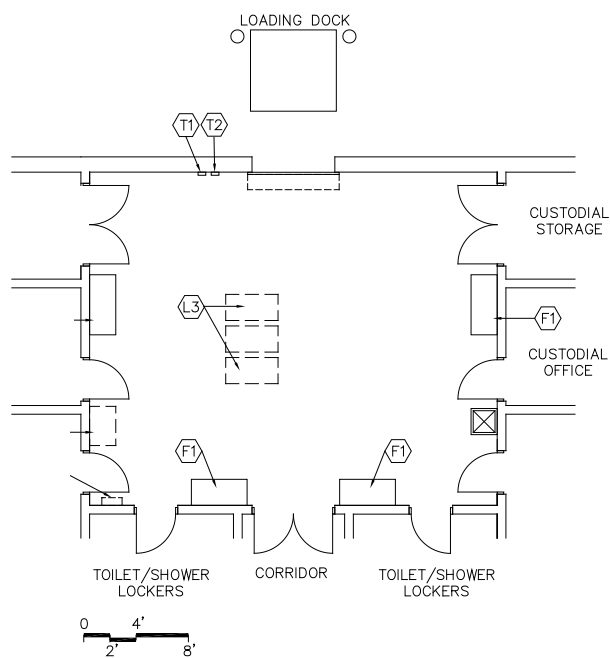
**AUDIO VISUAL EQUIPMENT**

None

Maintenance & Custodial Space



RECEIVING AND STORAGE



QUANTITY:

1

SIZE:

800 SF

SPATIAL RELATIONSHIPS:

- Access to a main corridor
- Access to loading dock area

GOAL:

To serve as the central point for delivery and shipping of bulk commodities and equipment and provide adequate storage for supplies and materials

PROGRAM ACTIVITIES:

- Loading and unloading
- Storage of furniture, equipment, and general supplies

SPACE REQUIREMENTS

Construction:	
Min Ceiling Height:	10'-0"
Acoustics:	AC8 - Utility Space
Window shading:	
Power & Lighting	

## Maintenance and Custodial Space

User Convenience (excludes outlets for AV, security, etc.):	Duplex on perimeter walls, min one per wall
Lighting level	L6 - 40 FC ambient, 70 FC at any service points or equipment
Telecommunications	
Outlet (excludes outlets for AV, security, etc.):	One data drop on perimeter walls at max 6' on center.
Wireless Requirements:	None

### ADDITIONAL REQUIREMENTS

- Double doors with removable mullions to corridor
- Electrical outlets for equipment
- High ceiling
- Staging area with insulated overhead door large enough for forklift access

### BUILT-IN FIXTURES:

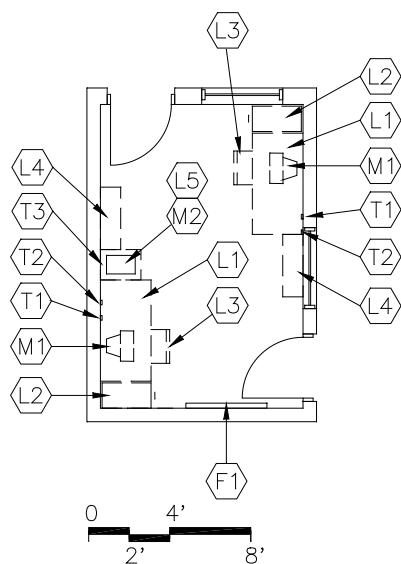
### LOOSE FURNISHINGS:

- Mobile Equipment
- Lawn maintenance equipment
- Floor/building maintenance equipment

### AUDIO VISUAL EQUIPMENT

None

CUSTODIAL OFFICE



QUANTITY:

2

CAPACITY:

Up to 2 People

SIZE:

120 SF

ANCILLARY SPACES:

Toilet/Shower/Lockers

SPATIAL RELATIONSHIPS:

- Adjacent and access to Custodial Storage
- Adjacent and access to Receiving
- Near corridor

GOAL:

To provide an area for the maintenance manager, staff, and building engineer to provide supervision of the physical plan

PROGRAM ACTIVITIES:

- Conferences with staff and other visitors
- Paperwork
- Telephone calls

SPACE REQUIREMENTS

Construction:	
Min Ceiling Height:	9'-0"

## Maintenance and Custodial Space

Acoustics:	AC3 - Medium Performance: Closed Office
Window shading:	S1 - Roller Shades, 5% Open
Power & Lighting	
User Convenience (excludes outlets for AV, security, etc.):	2 duplex per wall on three of four walls
Lighting level	L2 - 35 FC at work surfaces
Telecommunications	
Outlet (excludes outlets for AV, security, etc.):	One standard data drop on two side walls
Wireless Requirements:	TW2 - 2 wireless devices per occupant (based on maximum occupancy)

### ADDITIONAL REQUIREMENTS

None

### BUILT-IN FIXTURES:

F1 Book shelves

### LOOSE FURNISHINGS:

- L1 2 desks
- L2 2, 4-drawer file cabinets
- L3 2 ergonomic task chairs
- L4 Adjustable height bookshelves (12 LF)
- L5 Printer table

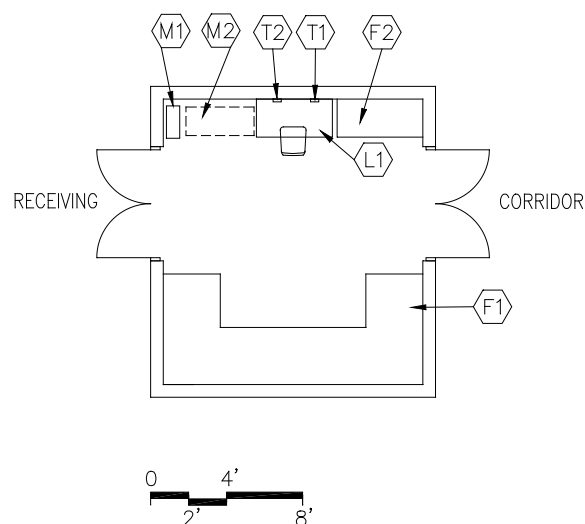
Miscellaneous Equipment (provided by owner):

- M1 2 Computers
- M2 1 Printer

### AUDIO VISUAL EQUIPMENT

None

CUSTODIAL STORAGE



QUANTITY:

1

SIZE:

360 SF

SPATIAL RELATIONSHIP:

- Adjacent to Receiving
- Easy access to a main corridor
- Near Custodial Office

GOAL:

To serve as the central point for storage of bulk commodities and equipment

PROGRAM ACTIVITIES:

Storage of materials for special events, paper, and general supplies

SPACE REQUIREMENTS

Construction:	
Min Ceiling Height:	10'-0"
Acoustics:	AC8 - Utility Space
Window shading:	None
Power & Lighting	
User Convenience (excludes outlets for AV, security, etc.):	Duplex on perimeter walls, min one per wall
Lighting level	L6 - 40 FC ambient, 70 FC at any service points or equipment
Telecommunications	

**Maintenance and Custodial Space**

Outlet (excludes outlets for AV, security, etc.):	One standard data drop
Wireless Requirements:	TW1 - 1 wireless device per occupant (based on maximum occupancy)

**ADDITIONAL REQUIREMENTS**

- Double doors with removable mullions to Receiving and Corridor
- High ceilings
- Uniform lighting

**BUILT-IN FIXTURES:**

- F1 Storage shelving (40 LF): 84" high x 36" deep
- F2 Storage shelving: 84" high x 24" deep

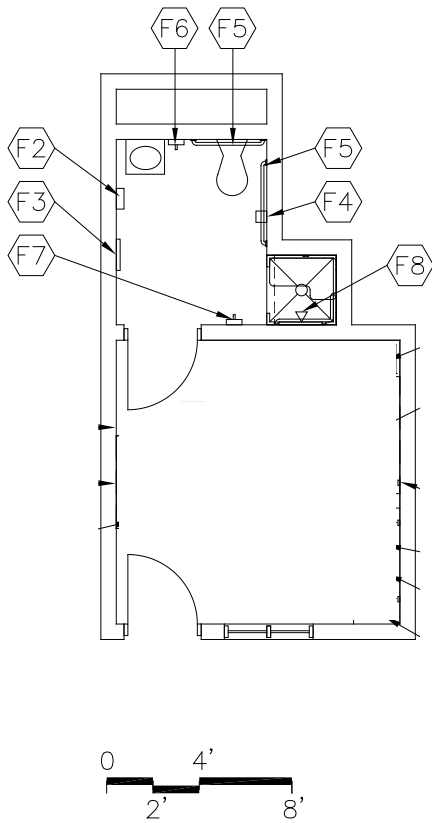
**LOOSE FURNISHINGS:**

- L1 Desk and chair
- M2 Metal cabinet for flammables

**AUDIO VISUAL EQUIPMENT**

- None

**TOILET/ SHOWER/ LOCKERS**



**QUANTITY:**

2

**CAPACITY:**

Custodial Staff

**SIZE:**

100 SF

**SPATIAL RELATIONSHIP:**

Adjacent to Custodial Receiving Area  
Separate Male and Female rooms

**GOAL:**

To provide an area for custodial staff to change and clean-up when needed.

**PROGRAM ACTIVITIES:**

Changing  
Showering

---

**Maintenance and Custodial Space**
**SPACE REQUIREMENTS**

Construction:	
Min Ceiling Height:	8'-0"
Acoustics:	AC7 - Public Space
Window shading:	None
Plumbing:	
Fixture Type:	Toilet, lavatory, shower
Power & Lighting	
User Convenience (excludes outlets for AV, security, etc.):	1 duplex outlet per sink
Lighting level	L7 - 25 FC ambient
Telecommunications	
Outlet (excludes outlets for AV, security, etc.):	None
Wireless Requirements:	TW1 - 1 wireless device per occupant (based on maximum occupancy)
SPECIALTIES	

**ADDITIONAL REQUIREMENTS**

None

**BUILT-IN FIXTURES:**

- F2 Towel dispenser
- F3 24" x 60" mirror
- F4 Toilet tissue holder
- F5 36" and 42" grab bars
- F6 Soap dispenser
- F7 Towel rack
- Vanity Counter and mirror

**LOOSE FURNISHINGS:**

Benches and lockable lockers

**AUDIO VISUAL EQUIPMENT**

None



**LIBRARY COMMONS****QUANTITY:**

1

**CAPACITY:**

100 students

150 persons for community or staff meeting

Media Specialist

Media Assistant

**SIZE:**3,300 SF (including Independent and on-line learning of 800 SF)**ANCILLARY SPACES:**

Equipment Storage (150 SF)

Head End Room (250 SF)

Office (150 SF)

Staff Toilet (50 SF)

Workroom (300 SF)

**SPATIAL RELATIONSHIPS:**

Three (3) activity areas:

Individual Research and Reading around periphery where stacks are located

Interactive and Small Group areas

Independent/ On-line Learning area

Good sight lines to all ancillary spaces

Mobile circulation desk located centrally

Locate standing card catalog station next to information desk

Mobility for all free-standing furniture including book shelves

**GOAL:**

To provide a place for social interaction and multi-media production and presentation

To provide students, staff, and community with access to paper and digital information

**PROGRAM ACTIVITIES:**

Reading, storytelling, speakers

Circulation of materials and resources

Whole group and small group instruction

Meetings for staff and parents

**SPACE REQUIREMENTS**

Construction:	
Min Ceiling Height:	12'-0"
Acoustics:	AC2-1 - High Performance: Classroom, Conference Room or Confidential Space (Large volume space)
Window shading:	None

**Media Center Space**

<b>Power &amp; Lighting</b>	
User Convenience (excludes outlets for AV, security, etc.):	Duplex on perimeter walls at twelve feet (12'), recessed floor quad boxes, 1 per 400 SF
Lighting level	L1 - 50 FC at work surfaces and teaching displays with multiple sets
<b>Telecommunications</b>	
Outlet (excludes outlets for AV, security, etc.):	Standard data drops on wall at 6' on center
Wireless Requirements:	TW3 - 3 wireless devices per occupant (based on maximum occupancy)

**ADDITIONAL REQUIREMENTS**

The media center (commons) should include a suite of rooms to include: a primary grades library and storytelling area, a media commons with a variety of seating options and a presentation/teaching area, movable book stacks, an on-line computer area, a maker space, a multi-media studio (TV) and support spaces for the media staff. Through simple design and transparency, the media specialist should have unencumbered views of the suite spaces.

Adequate ventilation

Ceiling height in proportion to room dimensions

Lighting appropriate to task with switches to dim separate zones of media center

Security of school when center is in use after school hours

Window treatment to darken room for AV presentations

Windows to provide natural light and egress

Space, furniture and equipment layout shall encourage the full range of uses including individual study, story telling, group activity and large group meetings

Flooring: Carpet

**BUILT-IN FIXTURES:**

Book stacks mostly peripheral (quantity site specific); some low shelving (36") on castors (12,000 volumes – fiction and non-fiction)

Independent workstations distributed around the periphery (w/outlets); comfortable chairs

Modular mobile circulation desk combination

Book Return

Three locking drawers

Check-out module

**LOOSE FURNISHINGS:**

Individual research and reading area:

10 lounge chairs (mobile)

5 end tables (mobile)

Interactive and Small Group area

10-12 four-person tables and chairs (mobile); consider different heights and alternative seating/standing choices (outlets at every location)

**AUDIO VISUAL EQUIPMENT**

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See Educational Technology Requirements

**PRIMARY LIBRARY****QUANTITY:**

1

**CAPACITY:**

20 - 40 students

**SIZE:**1,000**ANCILLARY SPACES:**

Primary Maker Space

**GOAL:**

To provide a place for storytelling and reading interaction with students in Grades PK-2

**PROGRAM ACTIVITIES:**

Reading, storytelling, speakers

Whole group and small group instruction

**SPACE REQUIREMENTS**

Construction:	
Min Ceiling Height:	12'-0"
Acoustics:	AC2-1 - High Performance: Classroom, Conference Room or Confidential Space (Large volume space)
Window shading:	None
Power & Lighting	
User Convenience (excludes outlets for AV, security, etc.):	Duplex on perimeter walls at twelve feet (12'), recessed floor quad boxes, 1 per 400 SF
Lighting level	L1 - 50 FC at work surfaces and teaching displays with multiple sets
Telecommunications	
Outlet (excludes outlets for AV, security, etc.):	Standard data drops on wall at 6' on center
Wireless Requirements:	TW3 - 3 wireless devices per occupant (based on maximum occupancy)

**ADDITIONAL REQUIREMENTS**

Adequate ventilation

Carpet on the floor for seating and listening

Ceiling height in proportion to room dimensions

Security of school when center is in use after school hours

Window treatment to darken room for AV presentations

Windows to provide natural light and egress

**BUILT-IN FIXTURES:**

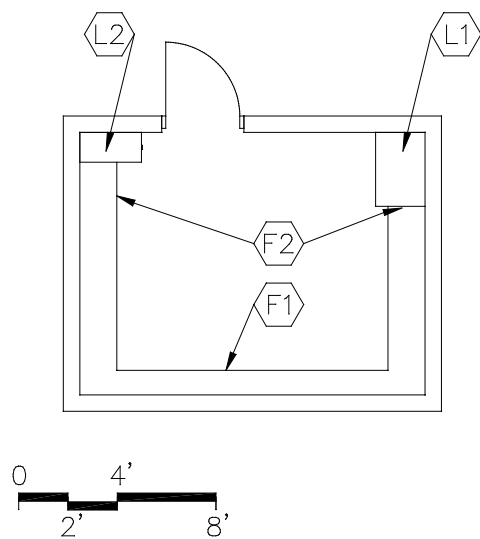
**LOOSE FURNISHINGS:**

- Picture book shelving on casters
- Some peripheral book shelving (low height)
- Age appropriate tables and chairs for up to 24 students
- Large screen monitor

**AUDIO VISUAL EQUIPMENT**

- See Educational Technology Requirements

EQUIPMENT STORAGE



QUANTITY:

1

SIZE:

250 SF

SPATIAL RELATIONSHIP:

Adjacent and access to the workroom

GOAL:

To provide a safe and secure area for storage of equipment and supplies

SPACE REQUIREMENTS

Construction:	
Min Ceiling Height:	9'-0"
Acoustics:	AC8 - Utility Space
Window shading:	None
Power & Lighting	
User Convenience (excludes outlets for AV, security, etc.):	Duplex on perimeter walls, min one per wall
Lighting level	L6 - 40 FC ambient, 70 FC at any service points or equipment
Telecommunications	
Outlet (excludes outlets for AV, security, etc.):	None
Wireless Requirements:	TW1 - 1 wireless device per occupant (based on maximum occupancy)

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**ADDITIONAL REQUIREMENTS**

None

**BUILT-IN FIXTURES:**

F1 Storage shelving (12" deep)

F2 Storage shelving (18" deep)

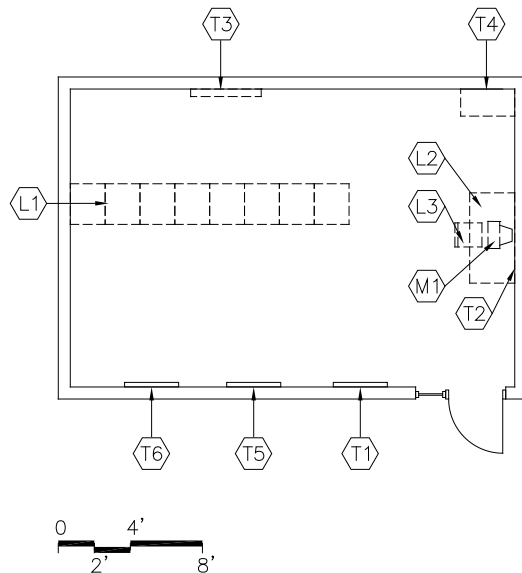
**LOOSE FURNISHINGS:**

L1 Adjustable height shelving (24" deep)

L2 4-drawer file cabinet (legal)

**AUDIO VISUAL EQUIPMENT**

None

**HEAD END (Telecommunications) ROOM****QUANTITY:**

1

**SIZE:**

250 SF

**GOALS:**

To provide a secure area to serve as the information hub of the school. File servers will serve the buildings computer network

To provide satellite up and down links that will send and receive voice, video, and data. Fiber optic cable will serve the telephone, fax, and video of the school and other district buildings

**PROGRAM ACTIVITIES:**

- Cable and CATV reception and broadcasting
- Network management
- Security system location
- Telephone wiring entry and distribution
- Voice, video, data reception and distribution

**SPACE REQUIREMENTS**

Construction:	
Min Ceiling Height:	9'-0"
Acoustics:	AC8 - Utility Space
Window shading:	None
Power & Lighting	
User Convenience (excludes outlets for AV, security, etc.):	See Additional Requirements
Lighting level	L6 - 40 FC ambient, 70 FC at any service points or equipment
Telecommunications	



**Media Center Space**

Outlet (excludes outlets for AV, security, etc.):	See Additional Requirements. Wall phone next to exit door(s).
Wireless Requirements:	TW2 - 2 wireless devices per occupant (based on maximum occupancy)

**ADDITIONAL REQUIREMENTS**

The Room shall be constructed in full accordance with the PGCPs specification Division 27

**Walls**

Provide fire treated plywood 3/4 " to all walls

**Racks**

Provide equipment racks consisting of seven (7) feet high by nineteen (19) inches wide open (2-channel) equipment racks and double-sided vertical cabling managers.

Provide equipment cabinets that are thirty (30) inches wide by forty-two (42) inches deep (minimum) with 42U of internal work space. Quantity of cabinets shall be consistent for every BDF room unless noted otherwise.

Provide overhead cable management in the form of cable runway or cable tray at least twelve (12) inches wide and placed at ninety (90) inches above finished floor to coincide with the top of the equipment racks and cabinets. Define the actual size of the cable runway or cable tray based on supported cable-fill quantity. Provide proper clearance from top of ladder rack and HVAC ducting and other building support components.

Provide cable support, such as vertically installed cable runway to support cables entering the room from floor sleeves, slots, and conduit. Provide cable drop-outs where cables transition from vertical to horizontal cable management.

**Electrical**

Provide an electrical panel in IT Room. The panel shall only serve circuits within IT Room including racks, cabinets, mechanical systems, lighting, and security equipment panels. Do not feed convenience outlets from these panels. Ensure twenty percent (20%) spare breaker slots are available in panel after building occupancy acceptance. The estimated electrical load of room(s) it serves shall not exceed eighty percent (80%) of its capacity. Such panel shall remain unlocked at all times.

One 120VAC/20A (NEMA 5-200 quad electrical circuit, one 120VAC/30A (NEMA L5-30) electrical circuit and one 208VAC/30A (NEMA L6-30) electrical circuit shall be provided above each equipment rack/cabinet.

Place 120VAC/15A (NEMA 5-15) convenience outlets every six (6) feet along the walls, with a minimum of one per wall.

**Cable Management/Pathway**

Provide cable pathways for MPOE for telephone, data and Satellite dish/Cable TV connection

**BUILT-IN FIXTURES:**

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**Media Center Space**

L1 four (4) two-post network equipment racks and three (3) server cabinets, including power units (3kW per rack and 10kW per server)

**LOOSE FURNISHINGS:**

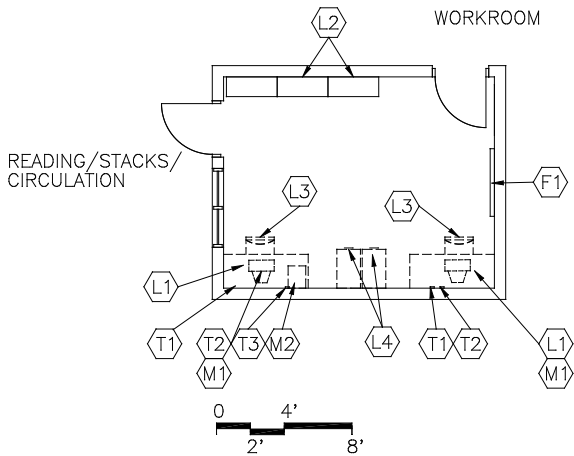
L2 Computer workstation/M1 computer

L3 Ergonomic task chair

**AUDIO VISUAL EQUIPMENT**

None

OFFICE



QUANTITY:

1

CAPACITY:

Media Specialist

SIZE:

150 SF

SPATIAL RELATIONSHIPS:

- Adjacent and access to Reading/ Stacks/ Circulation
- Adjacent and access to Workroom
- Near Circulation desk

GOAL:

To provide a private work area for the media specialist, easy access to the circulation desk, media production area, and computer resource area

PROGRAM ACTIVITIES:

- Ordering
- Scheduling
- Cooperative learning
- Administrative work (preparing budget, reports, etc.)
- Processing and repairing books, videos, discs, etc.

SPACE REQUIREMENTS

Construction:	
Min Ceiling Height:	9'-0"
Acoustics:	AC3 - Medium Performance: Closed Office
Window shading:	S1 - Roller Shades, 5% Open
Power & Lighting	

**Media Center Space**

User Convenience (excludes outlets for AV, security, etc.):	2 duplex outlets per wall on two side walls
Lighting level	L2 - 35 FC at work surfaces
Telecommunications	
Outlet (excludes outlets for AV, security, etc.):	One standard data drop on two side walls
Wireless Requirements:	TW2 - 2 wireless devices per occupant (based on maximum occupancy)

**ADDITIONAL REQUIREMENTS****BUILT-IN FIXTURES:**

F1 Tack board (4 LF)

**LOOSE FURNISHINGS:**

- L1 1-2 Computer workstations
- L2 Adjustable height bookshelves (24 LF)
- L3 1-2 Ergonomic task chairs
- L4 2, 4-drawer file cabinets

**Miscellaneous Equipment**

- M1 Computer
- M2 Printer/ copier/ fax (optional)

**AUDIO VISUAL EQUIPMENT**

See Educational Technology Requirements

**PRODUCTION/ MULTI-MEDIA STUDIO****QUANTITY:**

1

**CAPACITY:**

4 students

1 teacher

**SIZE:**

1,360 SF Studio (includes 100 SF Control Room)

**SPATIAL RELATIONSHIPS:**

Accessible to and near the Library Commons

Three separate rooms:

- 1) Production/ Multi-media Studio
- 2) Control Room
- 3) Editing/classroom: Media Lab

**GOAL:**

To provide a soundproof, properly lighted room for video productions, audio productions, publication purposes, and multimedia productions using computer accessories and peripherals such as scanners, digital cameras, etc.

**PROGRAM ACTIVITIES:**

Closed circuit TV production  
 Creative writing  
 Digitizing  
 Newspaper production  
 Scanning  
 Video creation/production  
 Voice over/dubbing

**SPACE REQUIREMENTS: STUDIO, CONTROL ROOM & LAB**

Construction:	
Min Ceiling Height:	10'-0"
Acoustics:	AC1 - Very High Performance: Performance or Lecture Space
Window shading:	See Additional Requirements
Power & Lighting	
User Convenience (excludes outlets for AV, security, etc.):	Powered raceway (wiremold or similar), with duplex outlets at 2' on center on two walls, duplex on other walls at twelve feet (12')
Lighting level	L6 - 40 FC ambient, 70 FC at any service points or equipment
Telecommunications	
Outlet (excludes outlets for AV, security, etc.):	One data drop on perimeter walls at max 6' on center.

Wireless Requirements:	TW1 - 1 wireless device per occupant (based on maximum occupancy)
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**ADDITIONAL REQUIREMENTS**

## Finishes:

**Flooring:** Studio floor shall be medium gray tiles, and the Control Room shall have VCT.

**Walls/ Ceilings:** Shall be painted flat black.

## Control room glazing

Dual glass windows (typically 6' x 3') required between the studio and control room, angled for acoustics and glare

## Electrical Features:

Lighting bar or grid with dimmer board in Control Room

Provide a medium duty cyclorama I-beam supplied for "walk along" operation.

Special lighting for video production

High bandwidth connection to Head-end room

## HVAC Features:

Separate HVAC control from the Media Center

**BUILT-IN FIXTURES:**

## Built-in Fixtures (studio/control booth):

Counter along window between and facing control room.

Dry erase board (16')

Manual projection screen or interactive white board

Hanging Green Screen

Lighting grid (apx. 12' X 12' but dependent on configuration of studio)

## Built-in Fixtures (Lab):

2 Dry, white eraser-board (4' x 20' on two different walls) on track; all eraser-boards shall be installed with a marker tray, map rails with tack strip above

Clock (on side walls instead of rear walls)

Tack board (4' x 20') minimum; tack strips on all walls

## Storage area

Adjustable shelving on three walls

**LOOSE FURNISHINGS:**

Loose Furnishings (Studio/Control booth) \$30,000 cap for studio equipment

Recommend a 'turnkey integrated package' to include: Audio mixer and audio and video switching equipment; Digital recording and sending equipment with ancillary microphones (3-4), and speakers

Studio cameras (2)

Studio lights (2-3)

Pod cast and tricast equipment

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**Media Center Space**

Anchor desk  
Work table

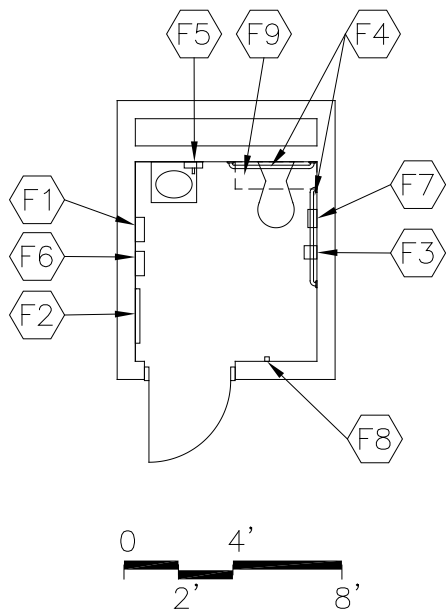
**Loose Furnishings (Lab):**

2 work table  
2 file cabinets w/lock, 4-drawer  
24 student chairs  
24 student desks (trapezoid or square)  
Adjustable height bookshelves (24 LF)  
Teacher wardrobe (lockable) with coat rod; tall cabinet w/ shelving (may be one unit)  
Teacher's desk/workstation and chair

**AUDIO VISUAL EQUIPMENT**

See Educational Technology Requirements

TOILET



QUANTITY:

1

CAPACITY:

Up to 1 person

SIZE:

50 SF

SPATIAL RELATIONSHIPS:

Located within Media Center near the Office and Workroom

SPACE REQUIREMENTS

Construction:	
Min Ceiling Height:	8'-0"
Acoustics:	AC7 - Public Space
Window shading:	None
Plumbing:	
Fixture Type:	Toilet, lavatory w/sensor control faucet
Power & Lighting	
User Convenience (excludes outlets for AV, security, etc.):	GFI Duplex at lavatory, one per room
Lighting level	L7 - 25 FC ambient
Telecommunications	
Outlet (excludes outlets for AV, security, etc.):	None



Wireless Requirements:	TW1 - 1 wireless device per occupant (based on maximum occupancy)
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**ADDITIONAL REQUIREMENTS**

**BUILT-IN FIXTURES:**

- F1 Towel dispenser
- F2 24" x 60" mirror
- F3 Toilet tissue holder
- F4 36" and 42" grab bars
- F5 Soap dispenser
- F6 Sanitary dispenser
- F7 Sanitary disposal
- F8 Coat hook
- F9 Casework: Wall cabinet

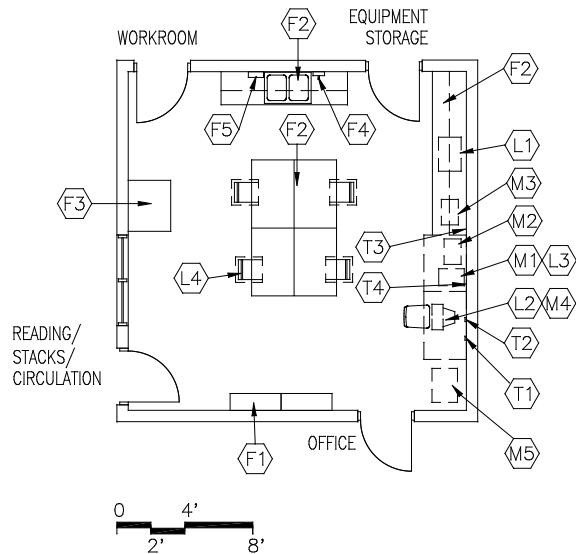
**LOOSE FURNISHINGS:**

None

**AUDIO VISUAL EQUIPMENT**

None

## WORKROOM



### QUANTITY:

1

### CAPACITY:

Media specialist  
Student assistants

### SIZE:

250 SF

### SPATIAL RELATIONSHIPS:

Adjacent and access to Office  
Adjacent and access to Reading/Stacks/Circulation  
Behind circulation desk

### GOAL:

To provide space for the management and organization of media resources and processing of incoming materials

### PROGRAM ACTIVITIES:

Receiving, processing, and duplicating library materials  
Repairing damaged or worn materials  
Scanning and digitizing

### SPACE REQUIREMENTS

Construction:	
Min Ceiling Height:	9'-0"
Acoustics:	AC3 - Medium Performance: Open Office and Workroom Office
Window shading:	S1 - Roller Shades, 5% Open

**Media Center Space**

<b>Plumbing:</b>	
Fixture Type:	Kitchen sink
<b>Power &amp; Lighting</b>	
User Convenience (excludes outlets for AV, security, etc.):	Duplex on perimeter walls at twelve feet (12'), 2 recessed floor quad
Lighting level	L2 - 35 FC at work surfaces
<b>Telecommunications</b>	
Outlet (excludes outlets for AV, security, etc.):	Standard data drops on perimeter walls at max 12' on center
Wireless Requirements:	TW2 - 2 wireless devices per occupant (based on maximum occupancy)

**ADDITIONAL REQUIREMENTS**

None

**BUILT-IN FIXTURES:**

- F1 Storage shelving: video video (24 LF)
- F2 Casework: Base/wall cabinets around sink
- F3 Casework: Tall storage (36" X 22" X 84")
- F4 Soap dispenser
- F5 Towel dispenser

**LOOSE FURNISHINGS:**

- L1 Paper cutter
- L2 Computer workstation furniture
- L3 Equipment table
- L4 Admin Chair
- Teachers' Mobile Cart for Technology

**Miscellaneous Equipment:**

- M1 Fax
- M2 Printer
- M3 Scanner
- M4 Computer
- M5 Video distribution equipment

**AUDIO VISUAL EQUIPMENT**

TBD



**Performing Arts Space**

**GENERAL MUSIC ROOM****QUANTITY:**

2

**CAPACITY:**

24-28 music students

1 teacher

Parents/volunteers

**SIZE:**1,250 SF (includes 150 SF storage)**ANCILLARY SPACES:**

Storage room

**GOAL:**

To serve as the learning and practice area for instrument classes

**SPATIAL RELATIONSHIPS:**

Adjacent and access to Storage

Adjacent to Instrumental Music Room

Near stage

**PROGRAM ACTIVITIES:**

Choral, speech, theatrics

Listen, analyze, describe, and compose music

View educational videos

**SPACE REQUIREMENTS**

Construction:	
Min Ceiling Height:	14'-0"
Acoustics:	AC1 - Very High Performance: Performance or Lecture Space
Window shading:	S1A -Blinds/Shades and Manually Operated Blackout Shades
Power & Lighting	
User Convenience (excludes outlets for AV, security, etc.):	<ul style="list-style-type: none"> <li>One (1) outlet for control of the classroom projector/interactive board</li> <li>One (1) outlet for telephone at the teacher station</li> <li>One (1) outlet for the intercom system</li> <li>Two (2) outlets at the teacher station for a teacher's computing device and accessory</li> <li>Two (2) outlets for wireless network</li> <li>Four (4) outlets for student use</li> </ul>

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**Performing Arts Space**

	<ul style="list-style-type: none"> <li>Duplex on walls at twelve feet (12'), recessed floor quad at 10' on center</li> </ul>
Lighting level	L1 - 50 FC at work surfaces and teaching displays with multiple sets
Telecommunications	
Outlet (excludes outlets for AV, security, etc.):	<ul style="list-style-type: none"> <li>One (1) data outlet for control of the classroom projector/interactive board</li> <li>One (1) data outlet for telephone at the teacher station</li> <li>One (1) data outlet for the intercom system</li> <li>Two (2) data outlets, and one (1) voice outlet at the teacher station for a teacher's computing device and accessory</li> <li>Two (2) data outlets for wireless network</li> <li>One (1) data outlet for the PoE clock</li> </ul>
Sound Reinforcement	Every classroom will be wired for teacher audio enhancement and the audio system should be integrated into the intercom system. The mixed sound will be amplified and sent through the speakers (preferably ceiling mounted).
Wireless Requirements:	TW2 - 2 wireless devices per occupant (based on maximum occupancy)

**ADDITIONAL REQUIREMENTS**

8' high double doors throughout this area - no mullions  
 Non-parallel surfaces (walls/ceiling) for acoustical benefits  
 Sound proof HVAC system (under 35 dBa)  
 Sound seals on doors  
 Uniform multi-level lighting

**BUILT-IN FIXTURES:**

Casework:  
 Counter with base/wall cabinets (8 LF)  
 Marker board (16 LF)  
 Tack board (12-16 LF)  
 Teacher wardrobe (lockable) with coat rod; tall cabinet w/ shelving (may be one unit)

**LOOSE FURNISHINGS:**

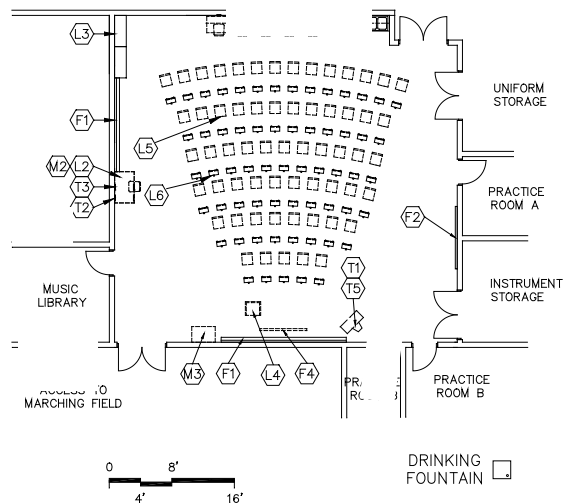
10 music stands  
 2 listening stations – included in the computer stations  
 2 movable paper storage carts  
 2 tables (30" x 60")  
 20 posture chairs stackable (in storage area)  
 28 posture chairs w/ writing arm (collapsible)  
 4 sections full size of elementary choral risers (in storage area or on stage)  
 Acoustic piano-on a movable truck  
 Bookcases for 140 texts  
 Group carpet  
 Pair of wall-mounted speakers  
 Stereo audio system, CD player, AM-FM tuner, amplifier

Teacher's cart w/space for keyboard/CD player  
and locking cabinet

**AUDIO VISUAL EQUIPMENT**

See Educational Technology Requirements

## BAND/ ORCHESTRA ROOM/DRAMA



### QUANTITY:

1

### CAPACITY:

Up to 60 students  
Teacher

### SIZE:

1,800 SF (includes 100 SF office alcove)

### ANCILLARY SPACES:

Instrument Storage  
Practice Rooms

### GOAL:

To serve as the learning and practice area for instrument classes

### SPATIAL RELATIONSHIPS:

Adjacent and access to Practice Rooms  
Adjacent and access to Instrument Storage

### PROGRAM ACTIVITIES:

Independent study  
Individual and small group practice  
Jazz and chamber ensembles  
Performance  
Teaching and learning to read music



**SPACE REQUIREMENTS**

Construction:	
Min Ceiling Height:	14'-0"
Acoustics:	AC1 - Very High Performance: Performance or Lecture Space
Window shading:	S1A -Blinds/Shades and Manually Operated Blackout Shades
Power & Lighting	
User Convenience (excludes outlets for AV, security, etc.):	<ul style="list-style-type: none"> <li>One (1) outlet for control of the classroom projector/interactive board</li> <li>One (1) outlet for telephone at the teacher station</li> <li>One (1) outlet for the intercom system</li> <li>Two (2) outlets at the teacher station for a teacher's computing device and accessory</li> <li>Two (2) outlets for wireless network</li> <li>Four (4) outlets for student use</li> <li>Duplex on walls at twelve feet (12'), recessed floor quad at 10' on center</li> </ul>
Lighting level	L1 - 50 FC at work surfaces and teaching displays with multiple sets
Telecommunications	
Outlet (excludes outlets for AV, security, etc.):	<ul style="list-style-type: none"> <li>One (1) data outlet for control of the classroom projector/interactive board</li> <li>One (1) data outlet for telephone at the teacher station</li> <li>One (1) data outlet for the intercom system</li> <li>Two (2) data outlets, and one (1) voice outlet at the teacher station for a teacher's computing device and accessory</li> <li>Two (2) data outlets for wireless network</li> <li>One (1) data outlet for the PoE clock</li> </ul>
Sound Reinforcement	Every classroom will be wired for teacher audio enhancement and the audio system should be integrated into the intercom system. The mixed sound will be amplified and sent through the speakers (preferably ceiling mounted).
Wireless Requirements:	TW2 - 2 wireless devices per occupant (based on maximum occupancy)

**ADDITIONAL REQUIREMENTS**

8' high double doors throughout this area - no mullions  
 Non-parallel surfaces (walls/ceiling) for acoustical benefits  
 Sound proof HVAC system (under 35 dBa)  
 Sound seals on doors  
 Uniform multi-level lighting

**BUILT-IN FIXTURES:**

F1 Marker board (24 LF)- 1/2 with staff lines  
 F2 Tack board (12-16 LF)  
 F3 Casework: Base/wall cabinets (8 LF)  
 F4 Interactive White board

Clock (on side walls instead of rear walls)

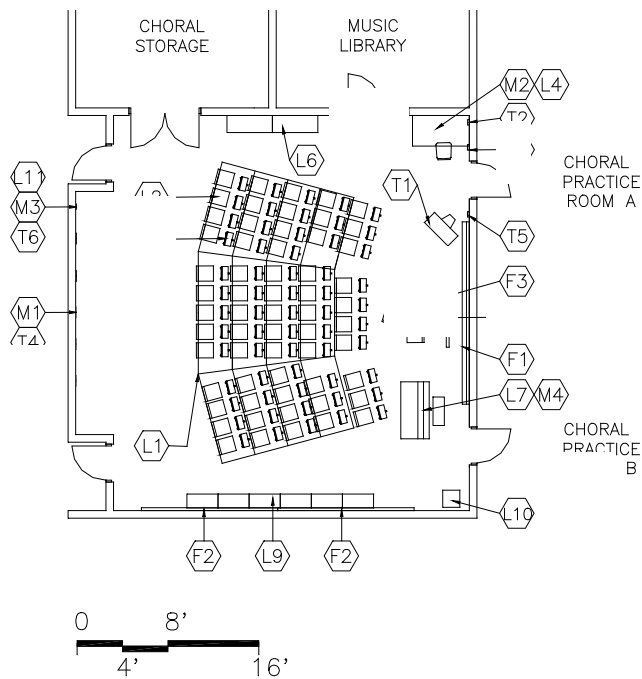
**LOOSE FURNISHINGS:**

- L2 Teacher desk and chair
- L3 Sheet music cabinet (150 concert sized folio capacity)
- L4 Conductors podium/stand/chair
- L5 60 Music posture chairs
- L6 60 music stands
- Teacher wardrobe (lockable) with coat rod; tall cabinet w/ shelving (may be one unit)
- Sound recording equipment cart
- Teachers' Mobile Cart for Technology
- M3 Band/orchestra sound system  
with sound recording/editing equipment and microphone connection

**AUDIO VISUAL EQUIPMENT**

See Educational Technology Requirements

## CHORAL/ KEYBOARD/ GUITAR ROOM



### QUANTITY:

1

### CAPACITY:

Up to 40 students

Teacher

### SIZE:

1,400 SF

### ANCILLARY SPACES:

Choral Storage

### GOAL:

To provide a space that will serve as the learning/ practice area for choral, keyboard, and guitar classes

### PROGRAM ACTIVITIES:

Practice for sectional groups

Rehearsals

Solos

**SPACE REQUIREMENTS**

Construction:	
Min Ceiling Height:	14'-0"
Acoustics:	AC1 - Very High Performance: Performance or Lecture Space
Window shading:	S1A -Blinds/Shades and Manually Operated Blackout Shades
Power & Lighting	
User Convenience (excludes outlets for AV, security, etc.):	<ul style="list-style-type: none"> <li>One (1) outlet for control of the classroom projector/interactive board</li> <li>One (1) outlet for telephone at the teacher station</li> <li>One (1) outlet for the intercom system</li> <li>Two (2) outlets at the teacher station for a teacher's computing device and accessory</li> <li>Two (2) outlets for wireless network</li> <li>Four (4) outlets for student use</li> <li>Duplex on walls at twelve feet (12'), recessed floor quad at 10' on center</li> </ul>
Lighting level	L1 - 50 FC at work surfaces and teaching displays with multiple sets
Telecommunications	
Outlet (excludes outlets for AV, security, etc.):	<ul style="list-style-type: none"> <li>One (1) data outlet for control of the classroom projector/interactive board</li> <li>One (1) data outlet for telephone at the teacher station</li> <li>One (1) data outlet for the intercom system</li> <li>Two (2) data outlets, and one (1) voice outlet at the teacher station for a teacher's computing device and accessory</li> <li>Two (2) data outlets for wireless network</li> <li>One (1) data outlet for the PoE clock</li> </ul>
Sound Reinforcement	Every classroom will be wired for teacher audio enhancement and the audio system should be integrated into the intercom system. The mixed sound will be amplified and sent through the speakers (preferably ceiling mounted).
Wireless Requirements:	TW2 - 2 wireless devices per occupant (based on maximum occupancy)

**ADDITIONAL REQUIREMENTS**

Higher than normal ceiling height, possibly sloped  
 Non-parallel surfaces (walls/ceiling) for acoustical benefits  
 Quiet HVAC system (under 35 dBa)  
 Sound seals on doors

**BUILT-IN FIXTURES:**

F1 Marker board (24 LF)- 1/2 with staff lines  
 F2 Tack board (16 LF minimum)  
 F3 Interactive White board  
 Clock (on side walls instead of rear walls)

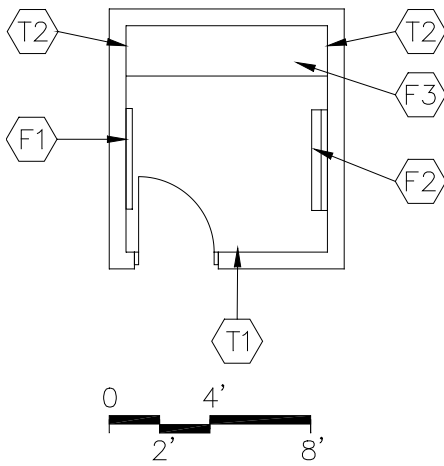
**LOOSE FURNISHINGS:**

- L1 Portable standing choral risers
- L2 40 musical posture chairs
- L4 Teacher desk and chair
- L5 Conductor's podium, chair, and stand
- L6 Sheet music cabinet (150 concert sized folio capacity)
- L7 Upright digital piano
- L8 40 music stands
- L9 Adjustable height bookshelves (48 LF)
- L10 Sound recording/editing equipment cabinet
- L11 Printer table
- M3 Printer
- 15 music keyboard tables
- Teachers' Mobile Cart for Technology

**AUDIO VISUAL EQUIPMENT**

See Educational Technology Requirements

### CHORAL PRACTICE ROOM



**QUANTITY:**

2

**CAPACITY:**

Up to 3 students

Teacher

**SIZE:**

100 SF

**SPATIAL RELATIONSHIP:**

Adjacent and access to Choral Room

**GOAL:**

To provide an area for individual student practice and rehearsals

**PROGRAM ACTIVITY:**

Practice/rehearsals

**SPACE REQUIREMENTS**

Construction:	
Min Ceiling Height:	9'-0"
Acoustics:	AC1 - Very High Performance: Performance or Lecture Space
Window shading:	None
Power & Lighting	
User Convenience (excludes outlets for AV, security, etc.):	2 duplex per wall on three of four walls
Lighting level	L2 - 35 FC at work surfaces
Telecommunications	
Outlet (excludes outlets for AV, security, etc.):	Two (2) data drop per wall on one wall.

Wireless Requirements:	TW2 - 2 wireless devices per occupant (based on maximum occupancy)
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**ADDITIONAL REQUIREMENTS**

**BUILT-IN FIXTURES:**

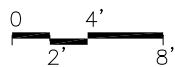
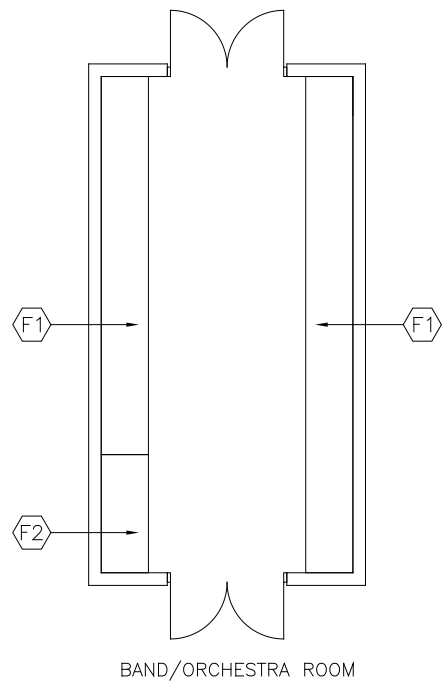
- F1 Tack board (4 LF)
- F2 Marker board (4 LF)
- F3 Casework: Base cabinets (6 LF)
- Electronic keyboard
- Clock

**LOOSE FURNISHINGS:**

**AUDIO VISUAL EQUIPMENT**

See Educational Technology Requirements

INSTRUMENT STORAGE



QUANTITY:

2

SIZE:

350 SF

SPATIAL RELATIONSHIP:

- Adjacent and access to Band/Orchestra Room
- Provide entrance and separate exit to the Band/Orchestra Room

GOAL:

- To provide secure and adequate storage for instruments

PROGRAM ACTIVITY:

- Storage of instruments

SPACE REQUIREMENTS

Construction:	
Min Ceiling Height:	9'-0"
Acoustics:	AC8 - Utility Space
Window shading:	None
Power & Lighting	



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**Performing Arts Space**

User Convenience (excludes outlets for AV, security, etc.):	Duplex on perimeter walls, min one per wall
Lighting level	L6 - 40 FC ambient, 70 FC at any service points or equipment
Telecommunications	
Outlet (excludes outlets for AV, security, etc.):	None
Wireless Requirements:	TW1 - 1 wireless device per occupant (based on maximum occupancy)

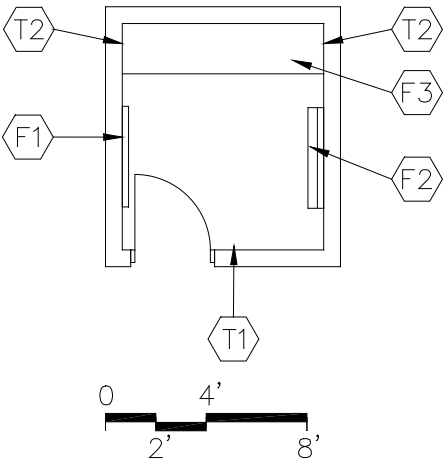
**ADDITIONAL REQUIREMENTS****BUILT-IN FIXTURES:**

- F1 Storage shelving: Instrument storage w/ open grille doors
- F2 Casework: Tall cabinets

**LOOSE FURNISHINGS:****AUDIO VISUAL EQUIPMENT**

None

INSTRUMENTAL PRACTICE ROOMS



**QUANTITY:**  
2

**CAPACITY:**  
Up to 3 students  
Teacher

**SIZE:**  
80 SF

**SPATIAL RELATIONSHIP:**  
Adjacent and access to Band/Orchestra Room  
May be modular

**GOAL:**  
To provide an area for individual student practice and rehearsals

**PROGRAM ACTIVITY:**  
Instrumental practice/rehearsals

SPACE REQUIREMENTS

Construction:	
Min Ceiling Height:	9'-0"
Acoustics:	AC1 - Very High Performance: Performance or Lecture Space
Window shading:	None
Power & Lighting	
User Convenience (excludes outlets for AV, security, etc.):	2 duplex per wall on three of four walls
Lighting level	L2 - 35 FC at work surfaces
Telecommunications	

**Performing Arts Space**

Outlet (excludes outlets for AV, security, etc.):	Two (2) data drop per wall on one wall.
Wireless Requirements:	TW2 - 2 wireless devices per occupant (based on maximum occupancy)

**ADDITIONAL REQUIREMENTS**

**BUILT-IN FIXTURES:**

- F1 Tack board (4 LF)
- F2 Marker board (4 LF)
- F3 Casework: Base cabinets (6 LF) (optional)
- Clock

**LOOSE FURNISHINGS:**

**AUDIO VISUAL EQUIPMENT**

See Educational Technology Requirements

**STAGE****QUANTITY:**

1

**SIZE:**

1,400 SF

**ANCILLARY SPACES:**

Shared Classroom/ Stage Support Space

**SPATIAL RELATIONSHIPS:**

Adjacent to Cafeteria/ Multi-purpose Room or Gymnasium

**GOAL:**

To provide space for student performances, guest speakers, assembly presentations

**SPACE REQUIREMENTS**

Construction:	
Min Ceiling Height:	See Additional Requirements
Acoustics:	AC1 - Very High Performance: Performance or Lecture Space
Window shading:	None
Power & Lighting	
User Convenience (excludes outlets for AV, security, etc.):	Duplex convenience outlets at twelve feet (12') on perimeter walls Stage power and lighting, including recessed floor boxes at stage
Lighting level	See Additional Requirements
Telecommunications	
Outlet (excludes outlets for AV, security, etc.):	Two (2) data drop per wall on one wall.
Wireless Requirements:	TW2 - 2 wireless devices per occupant (based on maximum occupancy)

**ADDITIONAL REQUIREMENTS**

Stage shall open on to Cafeteria or gymnasium with a proscenium

Provide access to stage from the cafeteria or gymnasium floor level, including stairs and wheelchair lift. Stairs and lift shall be recessed or otherwise placed to not encroach on to cafeteria footprint.

Stage ceiling height shall allow for full clear height for lights, curtain and scrim above the stage level

Flooring shall be wood or comparable stage material, ceilings shall be open, acoustically treated

Provide housekeeping lighting with a minimum level of 25 fc

**BUILT-IN FIXTURES:**

Motorized projection screen

Theater and stage equipment (lights, curtain, scrim)

Mobile folding risers for 40 students

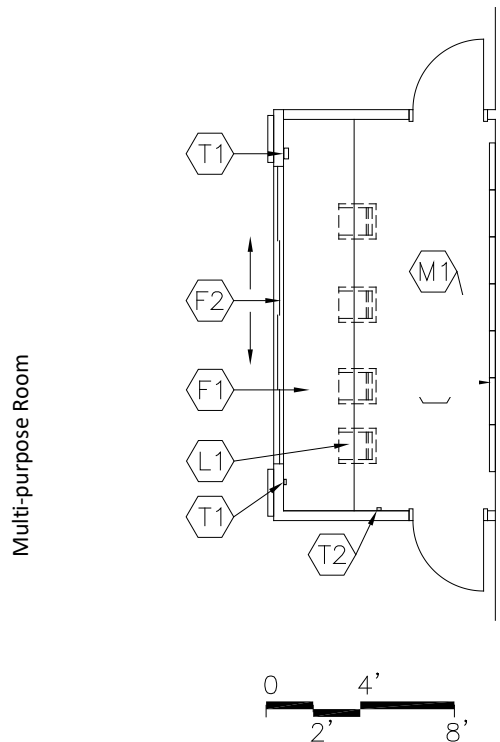
**LOOSE FURNISHINGS:**

Podium  
Upright piano

**AUDIO VISUAL EQUIPMENT**

See Educational Technology Requirements

## STAGE SOUND AND LIGHT CONTROL



### QUANTITY:

1

### SIZE:

75 SF

### ANCILLARY SPACES:

Cafeteria/Multi-purpose Room

### SPATIAL RELATIONSHIPS:

Facing stage

Adjacent to Cafeteria/ Multi-purpose Room or Gymnasium

### GOAL:

To provide space for the equipment needed to operate the sound, lighting, and projection equipment for the stage

### PROGRAM ACTIVITIES:

Operation of the technical support for performances

Teaching of Technical Theater

**SPACE REQUIREMENTS**

Construction:	
Min Ceiling Height:	10'-0"
Acoustics:	AC1 - Very High Performance: Performance or Lecture Space
Window shading:	See Additional Requirements
Power & Lighting	
User Convenience (excludes outlets for AV, security, etc.):	Powered raceway (wiremold or similar), with duplex outlets at 2' on center on two walls, duplex on other walls at twelve feet (12')
Lighting level	L6 - 40 FC ambient, 70 FC at any service points or equipment
Telecommunications	
Outlet (excludes outlets for AV, security, etc.):	One data drop on perimeter walls at max 6' on center.
Wireless Requirements:	TW1 - 1 wireless device per occupant (based on maximum occupancy)

**ADDITIONAL REQUIREMENTS**

Unobstructed view of stage at all times  
 Task lighting  
 Electrical outlets for equipment  
 Sliding glass windows, angled for acoustics and glare  
 Handicapped accessible  
 Intercom connection to stage manager station and stage wings

**BUILT-IN FIXTURES:**

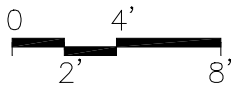
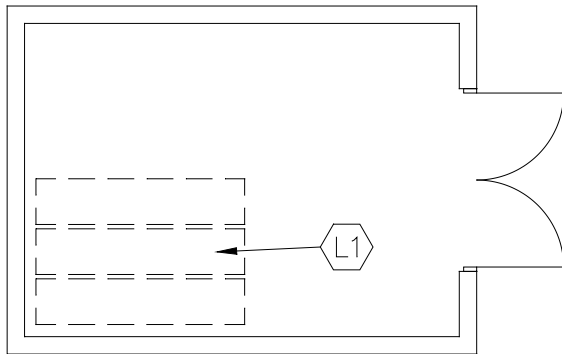
F1 Casework: 36" deep plastic laminate counter top

**LOOSE FURNISHINGS:**

L1 Three student stools

**AUDIO VISUAL EQUIPMENT**

See Educational Technology Requirements

**STAGE STORAGE****QUANTITY:**

1

**SIZE:**

350 SF

**SPATIAL RELATIONSHIP:**

Access from stage

Near/ adjacent to Shared Classroom/ Stage Support Space

**GOAL:**

To provide a secure area for storing the piano and other stage props

**SPACE REQUIREMENTS**

Construction:	
Min Ceiling Height:	9'-0"
Acoustics:	AC8 - Utility Space
Window shading:	None
Power & Lighting	
User Convenience (excludes outlets for AV, security, etc.):	Duplex on perimeter walls, min one per wall
Lighting level	L6 - 40 FC ambient, 70 FC at any service points or equipment
Telecommunications	
Outlet (excludes outlets for AV, security, etc.):	None
Wireless Requirements:	TW1 - 1 wireless device per occupant (based on maximum occupancy)

**ADDITIONAL REQUIREMENTS**



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**Performing Arts Space**

Smooth transition from stage to prevent piano jarring  
Wide double door opening

**BUILT-IN FIXTURES:**

None

**LOOSE FURNISHINGS:**

None

**AUDIO VISUAL EQUIPMENT**

None

**DANCE STUDIO****QUANTITY:**

1

**CAPACITY:**

25 Students

1 Teachers

**SIZE:**

1,800 SF

**ANCILLARY SPACES:**

Near PE Locker Rooms/Showers

Near stage

**GOAL:**

To support the Dance program

**PROGRAM ACTIVITIES:**

Ballet

Ethnic Dance

Modern Dance

Tap Dance

**SPACE REQUIREMENTS**

Construction:	
Min Ceiling Height:	25'-0"
Acoustics:	AC1 - Very High Performance: Performance or Lecture Space
Window shading:	S1A -Blinds/Shades and Manually Operated Blackout Shades
Power & Lighting	
User Convenience (excludes outlets for AV, security, etc.):	<ul style="list-style-type: none"> <li>One (1) outlet for control of the classroom projector/interactive board</li> <li>One (1) outlet for telephone at the teacher station</li> <li>One (1) outlet for the intercom system</li> <li>Two (2) outlets at the teacher station for a teacher's computing device and accessory</li> <li>Two (2) outlets for wireless network</li> <li>Four (4) outlets for student use</li> <li>Duplex on walls at twelve feet (12'), recessed floor quad at 10' on center</li> </ul>
Lighting level	L1 - 50 FC at work surfaces and teaching displays with multiple sets
Telecommunications	
Outlet (excludes outlets for AV, security, etc.):	<ul style="list-style-type: none"> <li>One (1) data outlet for control of the classroom projector/interactive board</li> </ul>

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**Performing Arts Space**

	<ul style="list-style-type: none"> <li>• One (1) data outlet for telephone at the teacher station</li> <li>• One (1) data outlet for the intercom system</li> <li>• Two (2) data outlets, and one (1) voice outlet at the teacher station for a teacher's computing device and accessory</li> <li>• Two (2) data outlets for wireless network</li> <li>• One (1) data outlet for the PoE clock</li> </ul>
Sound Reinforcement	Every classroom will be wired for teacher audio enhancement and the audio system should be integrated into the intercom system. The mixed sound will be amplified and sent through the speakers (preferably ceiling mounted).
Wireless Requirements:	TW2 - 2 wireless devices per occupant (based on maximum occupancy)

**ADDITIONAL REQUIREMENTS**

Adequate ventilation and ceiling fans  
 Ceiling Height (25' Minimum)  
 Drinking fountain in adjacent corridor  
 Electrical outlets for equipment  
 Flexibility of space  
 High windows to provide natural light is desirable  
 Multi-level lighting

Finishes:

Flooring:

Wooden floating sub floor

**BUILT-IN FIXTURES:**

Mirrors (6' high 6" from floor)  
 Tack board (16 LF) outside room  
 Marker board (16 LF) with electric outlet below  
 Ceiling fans  
 Student storage and bench near door (cubbies)  
 Adjustable/removable Barres (range 32"-34" up to 44"-46" from floor)

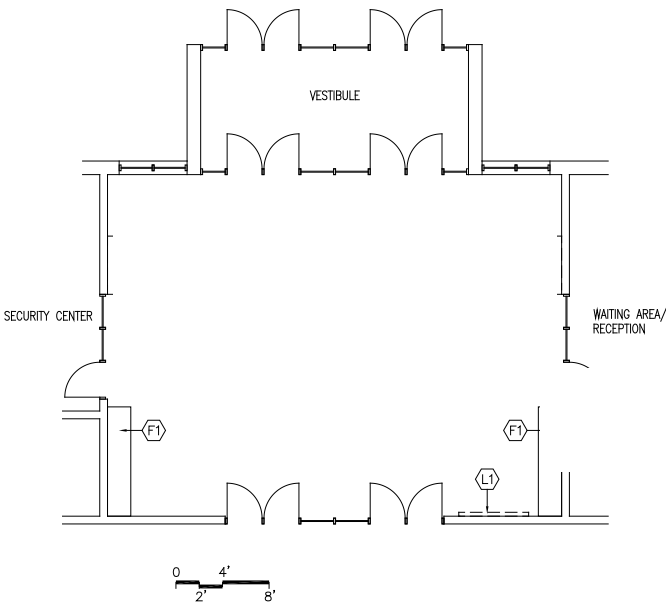
**AUDIO VISUAL EQUIPMENT**

See Educational Technology Requirements

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**Physical Education Space**

LOBBY



QUANTITY:

1

CAPACITY:

NA

SIZE:

1,000 SF

SPATIAL RELATIONSHIP:

- Adjacent and access to Gymnasium
- Access to group toilets
- Water Fountain
- Awning outside door for gathering during inclement weather

GOAL:

To provide a standing area before games and events.

SPACE REQUIREMENTS

Construction:	
Min Ceiling Height:	12'
Acoustics:	AC7 - Public Space
Power & Lighting	
User Convenience (excludes outlets for AV, security, etc.):	Duplex on perimeter walls at twelve feet (12'). One outlet per CCTV camera position
Lighting level	L5 - 25 FC ambient with focus lighting areas
Telecommunications	

**Physical Education Space**

Outlet (excludes outlets for AV, security, etc.):	None
Wireless Requirements:	TW2 - 2 wireless devices per occupant (based on maximum occupancy)

**ADDITIONAL REQUIREMENTS**

**BUILT-IN FIXTURES:**

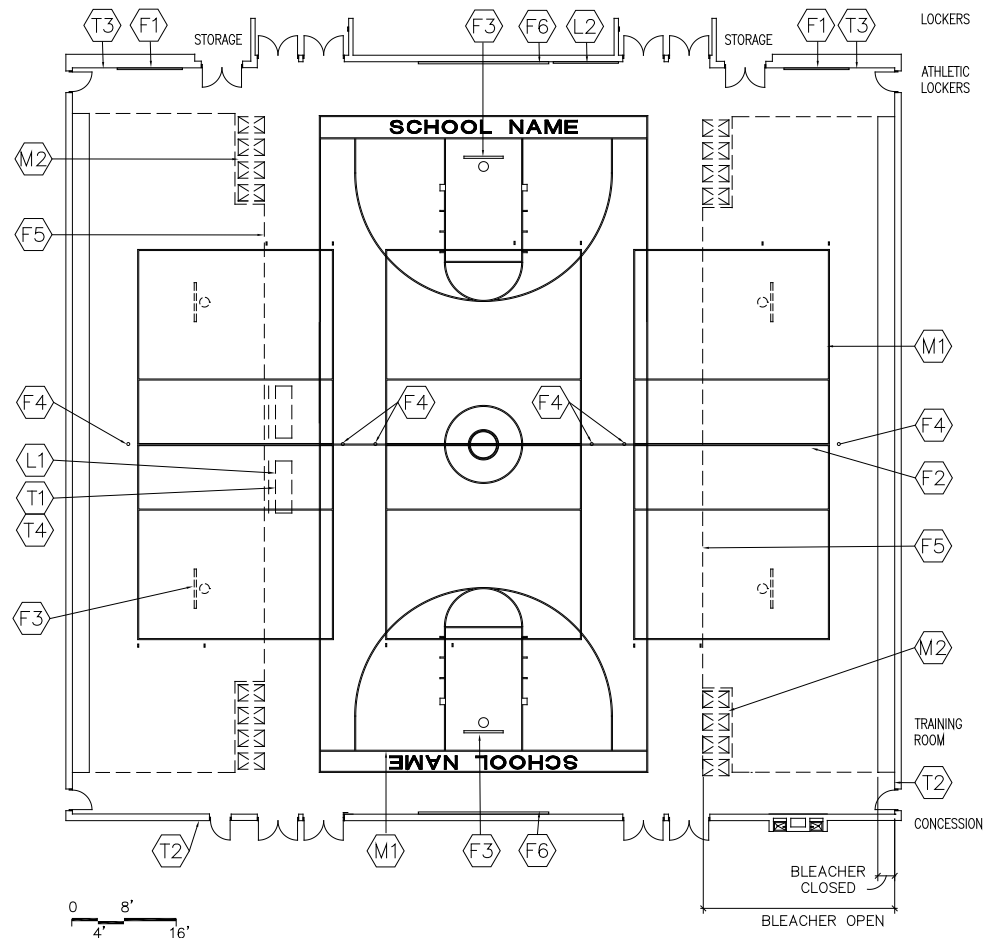
- F1 Display cases
- L1 Electronic board
- Security desk/counter with workstation (optional)

**LOOSE FURNISHINGS:**

**AUDIO VISUAL EQUIPMENT**

See Educational Technology Requirements

GYMNASIUM



QUANTITY:

1

CAPACITY:

50-1,000 Students  
2-4 Teachers

SIZE:

5,800 SF  
4,000 SF Bleachers

ANCILLARY SPACES:

PE Locker Rooms/Showers  
Storage

SPATIAL RELATIONSHIPS:

Direct access to outdoor athletic fields  
Near visitor parking and public

**PROGRAM ACTIVITIES:**

Community programs and activities, secured  
 Interscholastic competition and daily practices  
 Physical education classes

**SPACE REQUIREMENTS**

Construction:	
Min Ceiling Height:	25'-0" Full Clear height with no obstructions
Acoustics:	See Additional Requirements
Window shading:	S1A -Blinds/Shades and Manually Operated Blackout Shades
Plumbing:	
Fixture Type:	Drinking fountain in adjacent corridor
Power & Lighting	
User Convenience (excludes outlets for AV, security, etc.):	Duplex on walls at twelve feet (12')
Lighting level	See Additional Requirements
Telecommunications	
Outlet (excludes outlets for AV, security, etc.):	One data drop on perimeter walls at max 12' on center.
Wireless Requirements:	TW2 - 2 wireless devices per occupant (based on maximum occupancy)

**ADDITIONAL REQUIREMENTS**

Clear height of 25' from floor to nearest obstruction  
 Drinking fountain in adjacent corridor  
 Environmental sound control:  
 Wall minimum: STC 60 between gymnasium and any acoustically sensitive space such as classroom or office. In addition, design space to minimize transmission of impact noise  
 Maximum RT 60 (reverberation) of 1.5 seconds  
 Must be able to isolate the gymnasium from the rest of the school after hours  
 The architect shall work with the coach for specific location for data drop.  
 The walls and ceilings will require acoustical treatment.  
 Uniform lighting with multilevel controls

Finishes:

Flooring:

Wood strip flooring for athletic applications

M1 Court markings (minimum)

Basketball court (main/cross courts)

Volleyball court (main/cross courts)

Tennis court (cross courts)

The gymnasium includes a 50 x 94 ft. basketball court with 6' safety perimeter on the sides and 8' safety perimeter on the ends.



Must be able to isolate the gymnasium from the rest of the school after hours

Gymnasium Lighting

**BUILT-IN FIXTURES:**

A quality P/A sound system to service the gymnasium shall be provided.

Clock (with protective cage)

Padding on walls behind the goals and on the backboards shall be provided.

Provide block outs for three sets of volleyball standards and nets.

Provide dividing curtain to create two basketball courts when the bleachers are withdrawn

Some tack strips on the walls are required to fasten banners.

The bleacher seating shall be electrically operated & fold back to provide a flat surface.

The gymnasium will require a multi-sport scoreboard.

The gymnasium will require Glass lexan basketball backboard (2), with break-away rims, forward swing, main court, Fiberglass basketball backboard (4), forward swing, side, cross court. Each backboard (6) is to be raised and lowered electrically and shall retract away from bleachers.

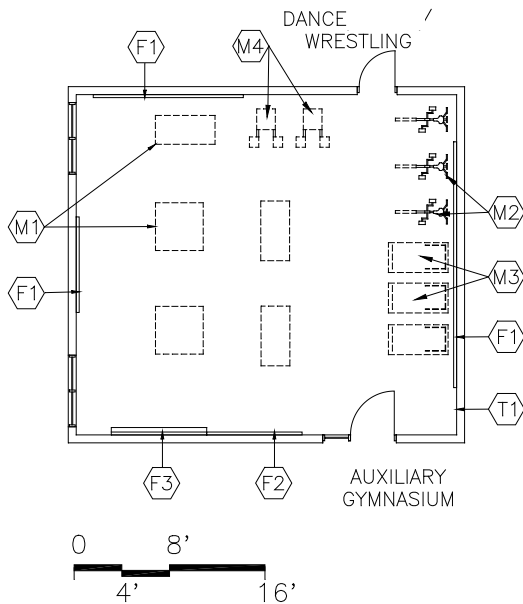
Two white boards with electrical outlets on either side of the curtain.

**LOOSE FURNISHINGS:**

**AUDIO VISUAL EQUIPMENT**

See Educational Technology Requirements

## WELLNESS LAB



### QUANTITY:

1

### CAPACITY:

25 Students

1 Teachers

### SIZE:

1,000 SF

### GOAL:

To serve as a wellness/workout area for the health curriculum

### PROGRAM ACTIVITIES:

Physical education classes learning to develop muscular, respiratory, and cardiovascular systems

Community and staff members learning to develop and maintain health and fitness

### SPACE REQUIREMENTS

Construction:	
Min Ceiling Height:	9'-0"
Acoustics:	AC7 - Public Space
Window shading:	S1 - Roller Shades, 5% Open
Plumbing:	
Fixture Type:	Drinking fountain, water bottle filling station
Power & Lighting	
User Convenience (excludes outlets for AV, security, etc.):	Outlets in numbers, and spaced as needed for equipment.
Lighting level	L8 - 15 FC ambient

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**Physical Education Space**

Telecommunications	
Outlet (excludes outlets for AV, security, etc.):	One (1) data drop and one (1) duplex data outlet per floor box (15 per room).
Wireless Requirements:	TW1 - 1 wireless device per occupant (based on maximum occupancy)

**ADDITIONAL REQUIREMENTS**

Adequate ventilation  
Electrical outlets for equipment  
Flexibility of space  
Windows to provide natural light

Finishes:

Flooring:

Resilient athletic flooring

**BUILT-IN FIXTURES:**

F1 Mirrors  
F2 Tack board (8 LF)  
F3 Marker board (8 LF) with electric outlet  
Ceiling fans

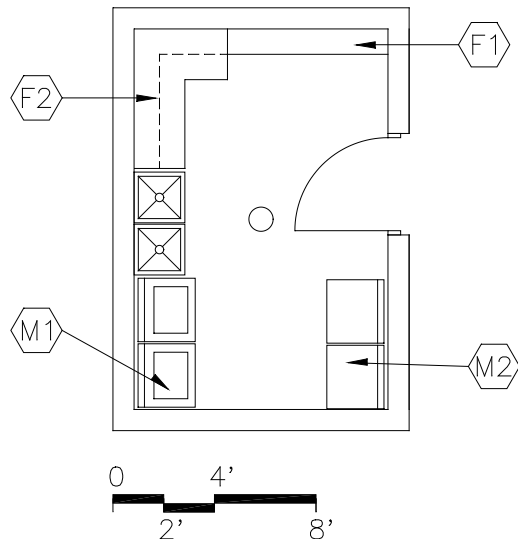
**LOOSE FURNISHINGS:**

M1 Exercise equipment (See Appendix D)  
M2-3 Aerobic Equipment (See Appendix D)

**AUDIO VISUAL EQUIPMENT**

See Educational Technology Requirements

**LAUNDRY**



**QUANTITY:**

1

**CAPACITY:**

1-2 Teachers

**SIZE:**

100 SF

**SPATIAL RELATIONSHIPS:**

Near PE Locker Room/Showers  
Near Athletic Lockers

**GOAL:**

To provide space to wash/dry athletic/PE garments, towels, etc.

**PROGRAM ACTIVITY:**

Washing and drying clothes

**SPACE REQUIREMENTS**

Construction:	
Min Ceiling Height:	9'-0"
Acoustics:	AC7 - Public Space
Plumbing:	
Fixture Type:	Utility sink
Piped services:	Potable hot & cold water, natural gas for driers, laundry hook-up
Special drains:	Floor drains; floors slope to drain
Power & Lighting	

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**Physical Education Space**

User Convenience (excludes outlets for AV, security, etc.):	As needed for laundry equipment
Power density:	PW4 - 8W/ASF
Lighting level	L6 - 40 FC ambient, 70 FC at any service points or equipment
Lighting control	LC6 - Workrooms / Utility
Telecommunications	
Outlet (excludes outlets for AV, security, etc.):	None
Wireless Requirements:	TW1 - 1 wireless device per occupant (based on maximum occupancy)
<b>SPECIALTIES</b>	
Special features:	Built in base cabinet and work counter, 30" deep, 8' min length, paper towel holder, soap dispenser

**ADDITIONAL REQUIREMENTS**

Adequate ventilation/exhaust

**BUILT-IN FIXTURES:**

- F1 Rust-resistant 12" deep shelving
- F2 Casework: Base/wall cabinets and shelving

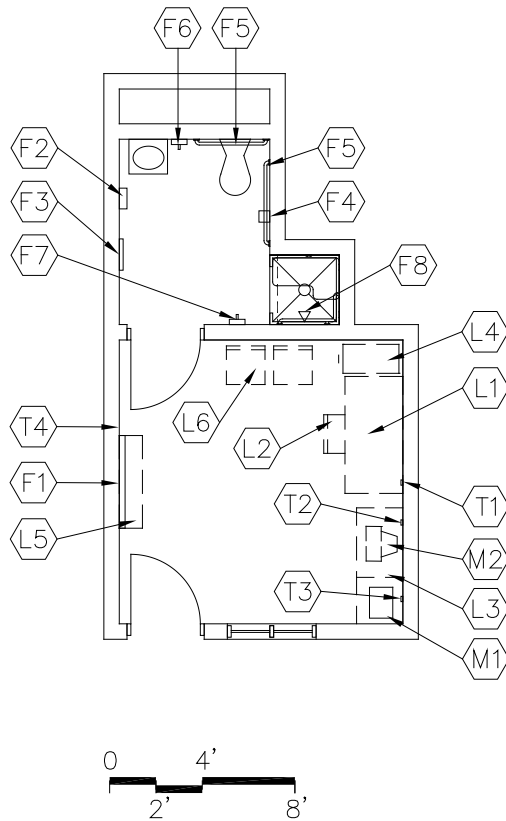
**LOOSE FURNISHINGS:**

- M1 Heavy Duty washers (1)
- M2 Heavy Duty dryers (1)
- Ice machine

**AUDIO VISUAL EQUIPMENT**

None

**OFFICES (DEPARTMENT/ ATHLETIC)**



**QUANTITY:**

3

**CAPACITY:**

1-2 Teachers  
Visitors

**SIZE:**

150 SF (including toilet/shower)

**SPATIAL RELATIONSHIP:**

Near Locker Rooms/Shower  
Window and door into the locker rooms (with shades)

**GOAL:**

To provide a work area for physical education teachers and staff to conduct administrative duties

**PROGRAM ACTIVITIES:**

Meeting  
Ordering  
Planning  
Scheduling

**SPACE REQUIREMENTS**

Construction:	
Min Ceiling Height:	9'-0"
Acoustics:	AC3 - Medium Performance: Closed Office
Window shading:	S1 - Roller Shades, 5% Open
Plumbing:	
Fixture Type:	Lavatory and Water Closet
Power & Lighting	
User Convenience (excludes outlets for AV, security, etc.):	2 duplex per wall on three of four walls in the office, single GFI/Shaver outlet in restroom
Lighting level	L2 - 35 FC at work surfaces
Telecommunications	
Outlet (excludes outlets for AV, security, etc.):	One standard data drop on two walls
Wireless Requirements:	TW2 - 2 wireless devices per occupant (based on maximum occupancy)
ADDITIONAL REQUIREMENTS	
The office must be directly connected to a single-user restroom (Restroom: Gender Inclusive w/shower). Assignable Area includes both office space (180 ASF) and restroom space (50 ASF)	

**ADDITIONAL REQUIREMENTS****BUILT-IN FIXTURES:**

- F1 Tack board (4 LF)
- F2 Towel dispenser
- F3 24" x 60" mirror
- F4 Toilet tissue holder
- F5 36" and 42" grab bars
- F6 Soap dispenser
- F7 Towel rack

**LOOSE FURNISHINGS:**

- L1 Desk
- L2 Ergonomic task chair
- L3 Computer workstation
- L4 4-drawer file cabinet
- L5 Adjustable height bookshelves (12 LF)
- L6 Guest chairs
- Teachers' Mobile Cart for Technology
- Miscellaneous Equipment (provided by owner):
  - M1 Printer
  - M2 Computer for teacher use

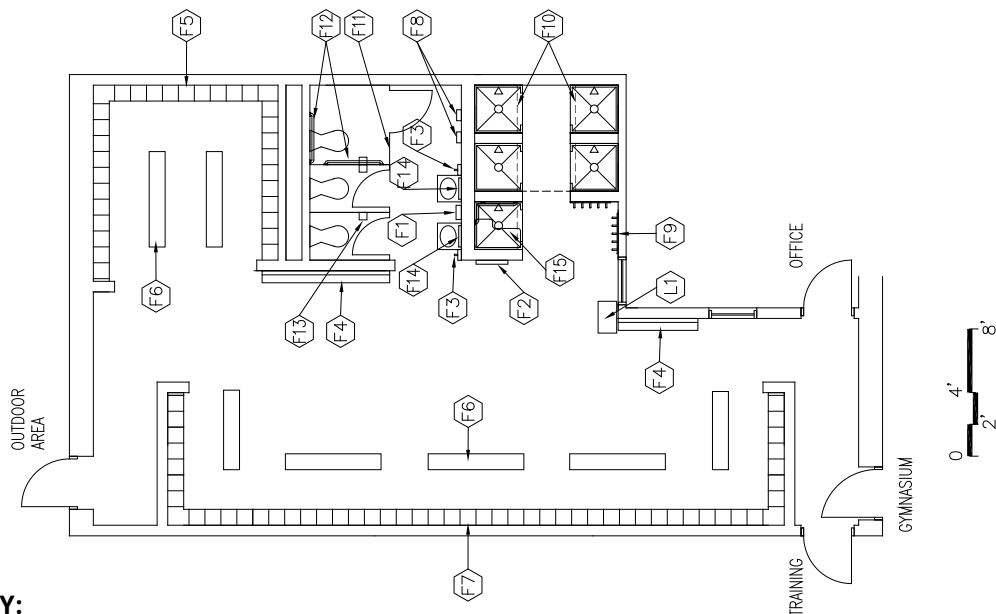
**AUDIO VISUAL EQUIPMENT**

See Educational Technology Requirements





PE LOCKER ROOM/SHOWERS



QUANTITY:

2

CAPACITY:

- 50 Students
- 1 Teachers

SIZE:

850 SF

ANCILLARY SPACES:

Adjacent and access to Gymnasium

SPATIAL RELATIONSHIP:

- Near Locker Rooms/Showers
- Window and door into the locker rooms (with shades)

GOAL:

To provide a safe and clean area for students to change, store clothes, and shower

PROGRAM ACTIVITIES:

- Change clothing
- Clothing storage
- Showering

SPACE REQUIREMENTS

Construction:	
Min Ceiling Height:	9'-0"
Acoustics:	AC7 - Public Space

---

**Physical Education Space**

<b>Power &amp; Lighting</b>	
User Convenience (excludes outlets for AV, security, etc.):	1 duplex outlet per sink
Lighting level	L7 - 25 FC ambient
<b>Telecommunications</b>	
Outlet (excludes outlets for AV, security, etc.):	One standard data drop per room
Wireless Requirements:	
<b>SPECIALTIES</b>	
Special features:	Partitions between changing areas

**ADDITIONAL REQUIREMENTS**

Adequate ventilation/exhaust  
 Cleanable building surfaces  
 Humidity controls  
 Locate lockers on wall outside of toilet shower room  
 Minimize isolated areas  
 Temperature controls in each area  
 Towel storage in adjacent area

**BUILT-IN FIXTURES:**

F1 Towel dispenser  
 F2 24" x 60" mirror  
 F3 Soap dispenser  
 F4 Narrow counter with mirror above  
 F5 Athletic lockers (30 athletic)  
 F6 Locker benches  
 F7 Athletic lockers (50 Phys Ed)  
 F8 Hand dryer  
 F9 Towel hooks  
 F10 Shower curtain and rod  
 F11 Toilet partitions  
 F12 36" x 42" grab bars  
 F13 Toilet tissue holders  
 F14 16" x 24" mirror  
 F15 ADA shower accessories (note: 2-3 individual showers)

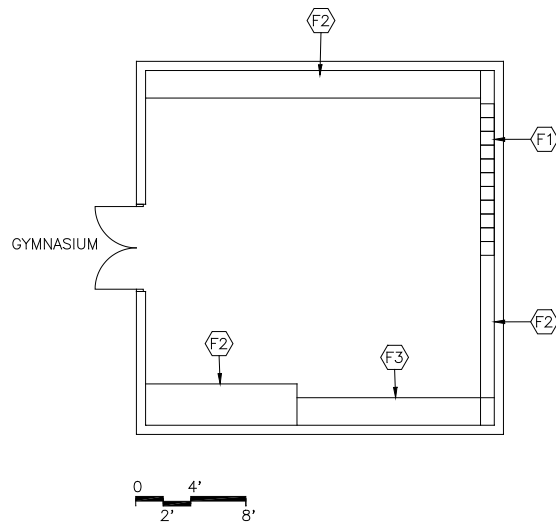
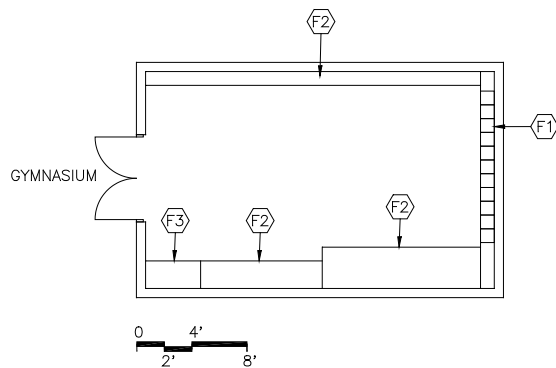
**LOOSE FURNISHINGS:**

None

**AUDIO VISUAL EQUIPMENT**

See Educational Technology Requirements

## STORAGE



### QUANTITY:

3

### SIZE:

Varies (900 SF total)

### SPATIAL RELATIONSHIPS:

Adjacent and access to Gymnasium

Adjacent and access to Auxiliary Gymnasium (may be used for JROTC uniform storage)

Near PE areas

### GOAL:

To provide space to adequately store PE and athletic equipment (PE and athletic equipment needs to be stored separately)

### PROGRAM ACTIVITIES:

Storage for equipment

Storing sound system and other equipment in the physical education/athletic area

**SPACE REQUIREMENTS**

Construction:	
Min Ceiling Height:	9'-0"
Acoustics:	AC8 - Utility Space
Power & Lighting	
User Convenience (excludes outlets for AV, security, etc.):	Duplex on perimeter walls, min one per wall
Lighting level	L6 - 40 FC ambient, 70 FC at any service points or equipment
Telecommunications	
Outlet (excludes outlets for AV, security, etc.):	None
Wireless Requirements:	TW1 - 1 wireless device per occupant (based on maximum occupancy)

**ADDITIONAL REQUIREMENTS**

Climate control to dry uniforms and other equipment which get wet during use

Electrical outlets for equipment

Provide secure storage

Separate storage areas for inactive sports, physical education, and athletics

**BUILT-IN FIXTURES:**

F1 Pegboard

F2 12" shelving

F3 18" shelving

**LOOSE FURNISHINGS:****AUDIO VISUAL EQUIPMENT**

None

**AUXILIARY GYMNASIUM****QUANTITY:**

1

**CAPACITY:**

24 - 50 Students

1-2 Teachers

Parents and community members for meetings

**SIZE:**

3,000 SF

**ANCILLARY SPACES:**

P.E. Office

P.E. Storage

**SPATIAL RELATIONSHIPS:**

Access to outdoor physical education play areas

Located adjacent to Cafeteria to extend space

Near public restrooms, with easy access

Near visitor parking

**PROGRAM ACTIVITIES:**

Adaptive physical education

Athletic skills and leader games

Community use

**GOALS:**

To provide space for P.E. classes for lower grades

**SPACE REQUIREMENTS**

Construction:	
Min Ceiling Height:	20'-0" Full Clear height wih no obstructions
Acoustics:	See Additional Requirements
Window shading:	S1A -Blinds/Shades and Manually Operated Blackout Shades
Plumbing:	
Fixture Type:	Drinking fountain in adjacent corridor
Power & Lighting	
User Convenience (excludes outlets for AV, security, etc.):	Duplex on walls at twelve feet (12')
Lighting level	See Additional Requirments
Telecommunications	
Outlet (excludes outlets for AV, security, etc.):	Two (2) data drops on perimeter walls at max 12' on center.
Wireless Requirements:	TW2 - 2 wireless devices per occupant (based on maximum occupancy)

**ADDITIONAL REQUIREMENTS**

Ceiling heights should be proportional to room volume

Clear height of 20' from floor to nearest obstruction

Drinking fountain in adjacent corridor

Electrical outlets for equipment

Environmental sound control:

Wall minimum: STC 60 between gymnasium and any acoustically sensitive space such as classroom or office. In addition, design space to minimize transmission of impact noise

Maximum RT 60 (reverberation) of 1.5 seconds Must be able to securely close off gymnasium from the rest of the school after hours

Structure, lighting, and ducts designed not to trap P.E. balls

Uniform lighting with multilevel controls

Finishes:

Flooring:

Wood strip flooring for athletic applications

Built-in Fixtures:

Basketball backstops, adjustable height (ceiling hung or portable)

Curtain

White board

Court markings

Basketball court

Volleyball court

Sound system with wireless mics

Clock w/ protective cage

**BUILT-IN FIXTURES:**

**LOOSE FURNISHINGS:**

**AUDIO VISUAL EQUIPMENT**

See Educational Technology Requirements

## **Student Dining & Food Service Space**

This area will be used for student dining, group activities, and community meetings. It is proposed through creative design that this area will effectively house multiple functions.

### **Space Requirements**

#### Adjacency Requirements

Centrally located to Administration, Gymnasium, Main Academic, and Media Center  
Near parking and main entry to building

### **General**

The developer shall design and construct a complete and fully functional food service facility to serve up to 2,000 meals per mealtime, with 650 seated at any one time.

Food service shall be from multiple counters in a single food service area ("food court" style), with check-out Point of Sale (POS) positions at the exit from the food service area

The kitchen and food service shall be able to be closed off from the dining room/commons with lockable doors or grilles. Physical closure shall allow for community use of the dining room/commons concurrently with food preparation and/or food service preparation without disruption by noise, odors, etc.

The cafeteria and serving lines shall be well lit with natural and artificial light. The ceiling height shall be balanced with the overall volume (14' minimum) and treated acoustically.

Provide a variety of seating options, including outside seating.

Provide electrical outlets for charging mobile devices around the room

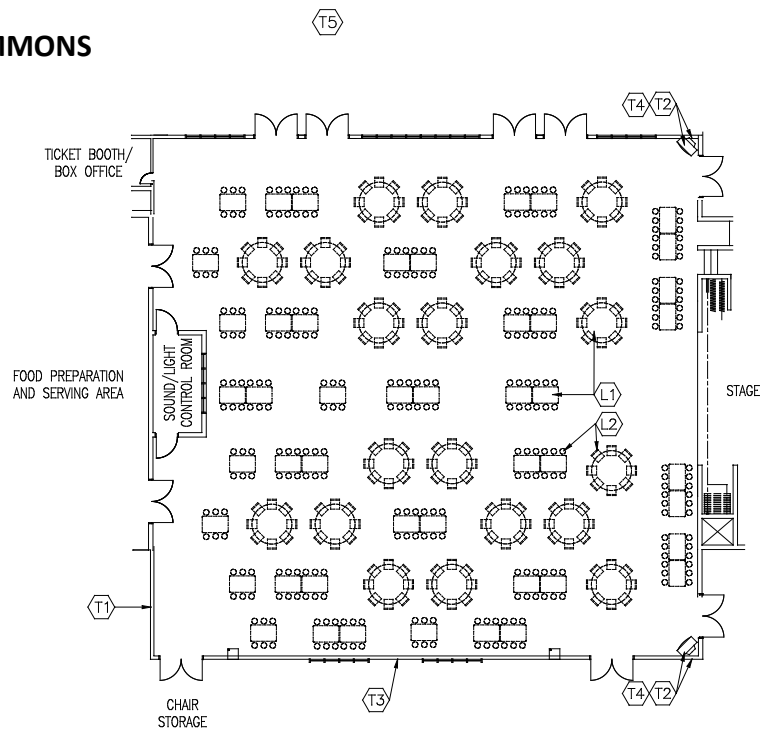
Design for two separate lunch seating areas for primary students and older students. Consider different serving line height requirements.

Provide at least 2 permanently mounted, white boards and electrical outlets for mobile projectors would support 'break-out' discussions

The acoustics will be designed for performances with appropriate stage lighting and sound systems.

The cafetorium will have retractable seating for 500 audience to be combined with on-floor seating. Mechanical equipment should be quiet.

## CAFETERIA / COMMONS



### CAPACITY:

Up to 650 people for meals

Up to 1,000 people for auditorium seating

### SIZE:

10,000 SF

### GOALS:

To provide a pleasant atmosphere for students to eat meals

To provide a flexible meeting space for groups if needed

### SPATIAL RELATIONSHIPS:

Adjacent and access to Kitchen

Centrally located to Administration, Gymnasium, Main Academic, and Media Center

Near parking and main entry to building

### SPACE REQUIREMENTS

Construction:	
Min Ceiling Height:	18'-0"
Acoustics:	AC7 - Public Space
Power & Lighting	
User Convenience (excludes outlets for AV, security, etc.):	
Lighting level	L5 - 25 FC ambient with focus lighting areas
Telecommunications	



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**Student Dining/ Food Services Space**

Outlet (excludes outlets for AV, security, etc.):	One data drop on perimeter walls at max 12' on center.
Wireless Requirements:	TW2 - 2 wireless devices per occupant (based on maximum occupancy)

**ADDITIONAL REQUIREMENTS**

Adjust space and materials to manage acoustics; provide sound system

Adjustable lighting

Cleanable building surfaces

Good sight lines to all areas of the room for supervision

Proportion ceiling to volume

Window treatment to darken room for AV presentations.

Windows to provide ample natural light

Good sight lines to all areas of the room for supervision

Identify 2 locations for presentations for up to 100 people (screen and electricity barrier-free)

Identify location and electricity for satellite salad bar w/ cash register

**BUILT-IN FIXTURES:****LOOSE FURNISHINGS:**

L1/2 Foldable Tables with attached seating (variety of shapes and heights) Consider some high top and bench seating

Portable sound system

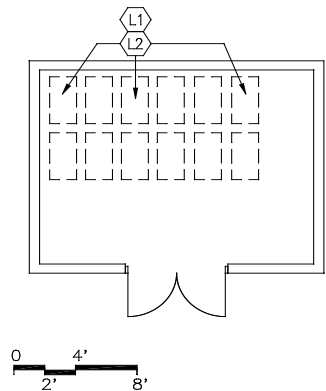
Waste receptacles with lids

Recycling bins

**AUDIO VISUAL EQUIPMENT**

See Educational Technology Requirements

CHAIR/ TABLE STORAGE



QUANTITY:

1

CAPACITY:

900 Chairs

SIZE:

900 SF

SPATIAL RELATIONSHIPS:

Adjacent and access to Student Dining Area/Multipurpose

GOAL:

To provide convenient storage of dining chairs and tables to be used for meetings and performances

PROGRAM ACTIVITY:

Storage

SPACE REQUIREMENTS

Construction:	
Min Ceiling Height:	9'-0"
Acoustics:	AC8 - Utility Space
Power & Lighting	
User Convenience (excludes outlets for AV, security, etc.):	Duplex on perimeter walls, min one per wall
Lighting level	L6 - 40 FC ambient, 70 FC at any service points or equipment
Telecommunications	
Outlet (excludes outlets for AV, security, etc.):	None

**Student Dining/ Food Services Space**

Wireless Requirements:	TW1 - 1 wireless device per occupant (based on maximum occupancy)
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**ADDITIONAL REQUIREMENTS**

None

**BUILT-IN FIXTURES:**

None

**LOOSE FURNISHINGS:**

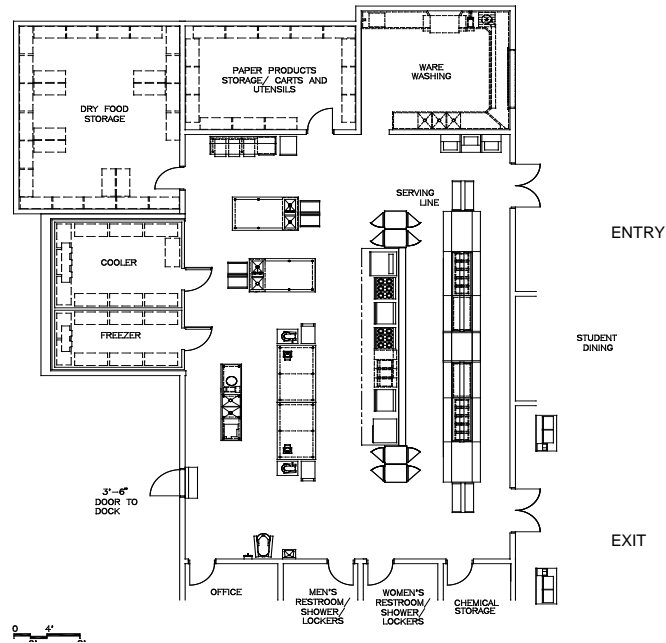
- L1 900 Stackable Chairs
- L2 Chair dollies per above count

**AUDIO VISUAL EQUIPMENT**

None

**Student Dining/ Food Services Space**

**KITCHEN**



**QUANTITY:**

1

**CAPACITY:**

Up to 12 People

**SIZE:**

3,000 SF

**GOAL:**

To prepare and serve student meals (80% of 2000=1600)

**PROGRAM ACTIVITIES:**

Preparing and serving food to students and staff  
Storage

**SPATIAL RELATIONSHIPS:**

Adjacent and access to Cafeteria/Commons  
Adjacent and access to Outdoor Loading Dock

**SPACE REQUIREMENTS**

See requirements included in Technical Performance Requirement

Features-(Specifications from PGCPs):

Kitchen

---

**Student Dining/ Food Services Space**

Food Preparation Area	1200
Dry Food Storage	600
Freezer & Cooler	500
Pot/Tray Washing	500
Paper storage	200

**Plumbing Features:**

- Connections to food service equipment
- Floor drains
- Hand washing lavatory
- Plumbing and gas connections

**HVAC Features:**

- Air conditioning
- Independent temperature control
- Kitchen canopy exhaust system
- Supply/return air system

**ADDITIONAL REQUIREMENTS**

- Adequate ventilation
- Beginning of serving line should be located near entry door of Cafeteria/Commons
- Cleanable building surfaces
- Food service department, public health, code requirements, as applicable
- Queuing for serving should not conflict with tray return to dishwashing area.
- Uniform lighting

**BUILT-IN FIXTURES:**

- Hand Sink (5)
- Soap & Towel Dispenser (5)
- Walk in Cooler/Freezer
- Cooler Refrigeration System
- Freezer Refrigeration System
- Prep Sink
- Floor Trough
- Tilting Skillet 30-Gallon
- Comb Oven
- Convection Oven (2)
- Counters for serving with Cashier's Stand (3)
- Pot Washing Sink

**LOOSE FURNISHINGS:**

- Utility carts mobile (3)
- Dunnage Rack (3)
- Mobile shelving (14)
- Can Rack (2)

---

**Student Dining/ Food Services Space**

Worktables (3)

Reach In refrigerator (2)

Pass thru refrigerator, mobile (3)

Pass thru heated cabinet, mobile (3)

Milk cooler, mobile (3)

Refrigerated display (3)

Condiment Counter, mobile (2)

Pot and Pan shelving, mobile (2)

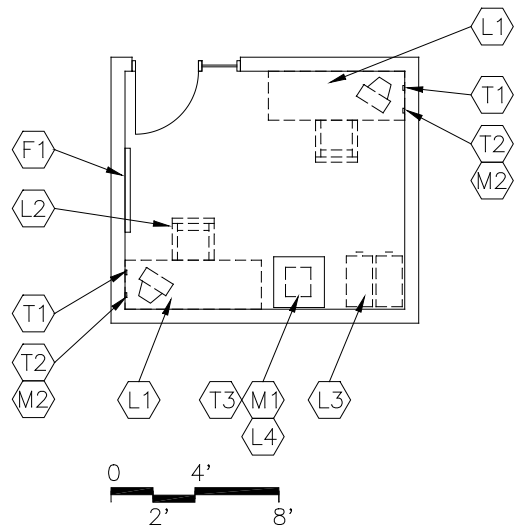
Railings for service lines (3)

Note: Model and vendor will be reviewed with kitchen consultant

**AUDIO VISUAL EQUIPMENT**

None

OFFICE



QUANTITY:

1

CAPACITY:

Up to 2 people

SIZE:

120 SF

SPATIAL RELATIONSHIPS:

Adjacent and visual to Kitchen or Receiving area

GOAL:

To provide an office for the staff to perform clerical functions

PROGRAM ACTIVITIES:

- Computer input
- Conferences with staff and other visitors
- Paperwork
- Planning
- Telephone calls

SPACE REQUIREMENTS

Construction:	
Min Ceiling Height:	9'-0"
Acoustics:	AC3 - Medium Performance: Closed Office
Window shading:	S1 - Roller Shades, 5% Open

---

**Student Dining/ Food Services Space**

<b>Power &amp; Lighting</b>	
User Convenience (excludes outlets for AV, security, etc.):	2 duplex per wall on three of four walls
Lighting level	L2 - 35 FC at work surfaces
<b>Telecommunications</b>	
Outlet (excludes outlets for AV, security, etc.):	One standard data drop on two side walls
Wireless Requirements:	TW2 - 2 wireless devices per occupant (based on maximum occupancy)

**ADDITIONAL REQUIREMENTS****BUILT-IN FIXTURES:**

F1 Tack board

**LOOSE FURNISHINGS:**

L1 1-2 desks

L2 1-2 ergonomic task chairs

L3 2 4-drawer file cabinets

L4 Printer table

Guest chair

Miscellaneous Equipment (provided by owner):

M1 Printer

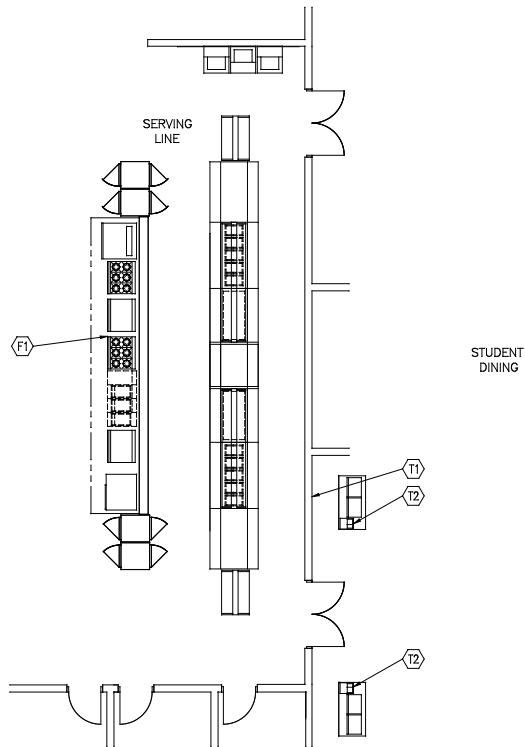
M2 Computer

**AUDIO VISUAL EQUIPMENT**

See Educational Technology Requirements



## SERVING AREA



### QUANTITY:

1

### SIZE:

1,600 SF

### SPATIAL RELATIONSHIPS:

Adjacent and access to the Kitchen

Adjacent and access to the Cafeteria/ Commons

### GOAL:

To provide space and equipment to serve student meals

### PROGRAM ACTIVITIES:

Serve food

### SPACE REQUIREMENTS

Identify location and electricity for satellite salad bar w/ cash register. Provide plumbing, power and data infrastructure to support future development. Plumbing shall include provision of hot and cold water service, sanitary waste and vent to proposed location, capped in a floor box or knock-out.

---

**Student Dining/ Food Services Space**

Power shall include provision of empty conduit home run to panelboard and inclusion of four spaces in the panelboard. Data shall include provision of empty conduit to base building raceway.

**DESIGN GUIDE:**

'Food court' serving lines: TBD

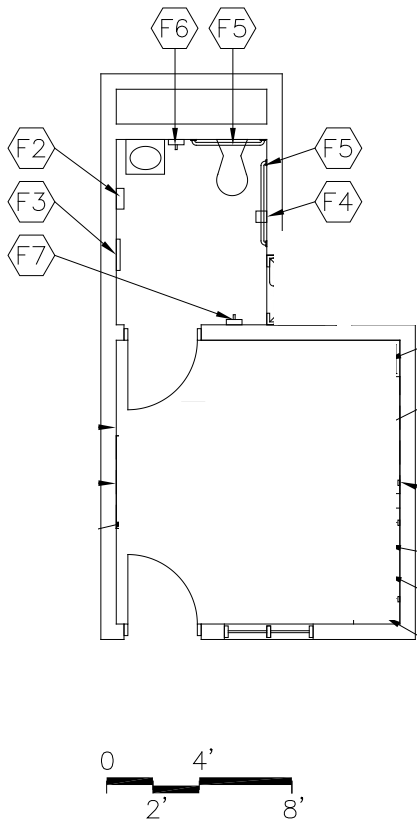
All lines have drinks and misc. items

Sample Lines and equipment needs below:



- Additional satellite services may be able to provide a salad bar or pre-made items

**TOILET/ LOCKER AREA**



**QUANTITY:**

2

**CAPACITY:**

Kitchen Staff: Separate Male and Female rooms

**SIZE:**

100 SF

**SPATIAL RELATIONSHIP:**

Adjacent to Kitchen/ Serving Area

**GOAL:**

To provide an area for kitchen staff to change and clean-up before and after work.

**PROGRAM ACTIVITIES:**

Changing

Resting

---

**Student Dining/ Food Services Space**
**SPACE REQUIREMENTS**

Construction:	
Min Ceiling Height:	9'-0"
Acoustics:	AC3 - Medium Performance: Closed Office
Plumbing:	
Fixture Type:	Lavatory and Water Closet
Power & Lighting	
User Convenience (excludes outlets for AV, security, etc.):	2 duplex per wall on three of four walls in the office, single GFI/Shaver outlet in restroom
Lighting level	L2 - 35 FC at work surfaces
Telecommunications	
Outlet (excludes outlets for AV, security, etc.):	One standard data drop on two walls
Wireless Requirements:	TW2 - 2 wireless devices per occupant (based on maximum occupancy)
ADDITIONAL REQUIREMENTS	
The office must be directly connected to a single-user restroom (Restroom: Gender Inclusive w/shower). Assignable Area includes both office space (180 ASF) and restroom space (50 ASF)	

**ADDITIONAL REQUIREMENTS****BUILT-IN FIXTURES:**

- F2 Towel dispenser
- F3 24" x 60" mirror
- F4 Toilet tissue holder
- F5 36" and 42" grab bars
- F6 Soap dispenser
- F7 Towel rack

**LOOSE FURNISHINGS:**

Benches and lockable lockers

**AUDIO VISUAL EQUIPMENT**

None

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Visual Arts Space

**MULTI-PURPOSE STUDIO****QUANTITY:**

3

**CAPACITY:**

28 Students

1 Staff member

**SIZE:**

1,200 – 1,400 SF

**ANCILLARY SPACES:**

Storage

**GOAL:**

To provide a learning environment where students can learn two dimensional art and create their own art pieces

**PROGRAM ACTIVITIES:**

Art history and culture  
 Computer graphics and internet access  
 Cooperative group work  
 Drawing/Painting  
 Viewing of slides/DVDs

Note: Second art room may be 3D, graphics, or other medium

**SPACE REQUIREMENTS**

Construction:	
Min Ceiling Height:	10'-0"
Acoustics:	AC5 - Labs and Workshops
Window shading:	S1A -Blinds/Shades and Manually Operated Blackout Shades
Power & Lighting	
User Convenience (excludes outlets for AV, security, etc.):	<ul style="list-style-type: none"> <li>One (1) outlet for control of the classroom projector/interactive board</li> <li>One (1) outlet for telephone at the teacher station</li> <li>One (1) outlet for the intercom system</li> <li>Two (2) outlets at the teacher station for a teacher's computing device and accessory</li> <li>Two (2) outlets for wireless network</li> <li>Four (4) outlets for student use</li> </ul> Duplex on walls at twelve feet (12'), recessed floor quad at 10' on center
Lighting level	L1 - 50 FC at work surfaces and teaching displays with multiple sets
Telecommunications	

Outlet (excludes outlets for AV, security, etc.):	<ul style="list-style-type: none"> <li>• One (1) data outlet for control of the classroom projector/interactive board</li> <li>• One (1) data outlet for telephone at the teacher station</li> <li>• One (1) data outlet for the intercom system</li> <li>• Two (2) data outlets, and one (1) voice outlet at the teacher station for a teacher's computing device and accessory</li> <li>• Two (2) data outlets for wireless network</li> </ul>
Wireless Requirements:	One (1) data outlet for the PoE clock TW2 - 2 wireless devices per occupant (based on maximum occupancy)

**ADDITIONAL REQUIREMENTS****Access**

Studios shall have clear path of travel to exterior loading areas to allow for movement of large or heavy objects. For planning purposes, largest object size to be accommodated shall be 4' x 4' in plan and 7' in height. Access to exterior may be from second floor via elevator

**Daylighting**

Studios shall be oriented to provide maximum north light daylighting. Ceiling height and glazing shall be such as to provide a minimum of 10 footcandles (fc) and a maximum of 500 fc in a clear sky condition on September 21 at 9 a.m. and 3 p.m. for the full floor area.

**Plumbing**

Provide sink with hot and cold water, one island to hold four sinks, (54" x 54") overall dimensions, each sink cabinet bases with two sink bowls. Each sink bowl should be ten (10") deep x thirty-two (32") across and sixteen (16") wide with one faucet, each having a hot and cold water faucet.

Provide storage with shelves below sinks in cabinets with a minimum of 2-drawers on each side. Provide clay and plaster traps at each sink.

**Lighting**

Provide full spectrum adjustable ambient lighting

Provide track lighting on three of four walls. Each track shall support four (4) controllable circuits. Individual light fixtures shall be owner supplied and installed with the first display set.

**BUILT-IN FIXTURES:**

Marker board (16 LF)

Tack board (12-24 LF)

Tack strip on all walls at two heights (or trackable surface)

Casework: Base/wall cabinets and shelving

Paper storage

Vertical files (30" x 40" work)

Towel and soap dispenser

**LOOSE FURNISHINGS:**

7 worktables (seat 4)

4 Computer workstations (MACs)

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**Visual Arts Space**

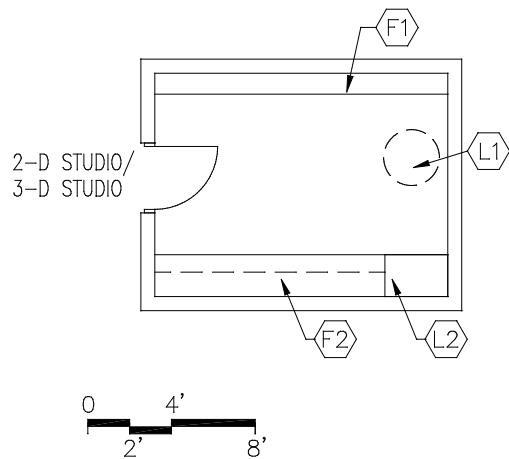
28 stools  
Adjustable height bookshelves (24 LF)  
Project storage lockers (60 lockers for 3D and 2D)  
Teacher desk and chair  
Cabinets w/ drying racks  
Movable art display panels  
Light table  
Extra worktable

**AUDIO VISUAL EQUIPMENT**

See Educational Technology Requirements



KILN ROOM



QUANTITY:

1

SIZE:

150 SF

SPATIAL RELATIONSHIPS:

Adjacent and access to 3-D Studio

GOAL:

To provide a space to fire and store completed clay work and clay bins

PROGRAM ACTIVITIES:

- Firing the kiln
- Storing ceramics work

SPACE REQUIREMENTS

Construction:	
Min Ceiling Height:	16'-0"
Acoustics:	AC5 - Labs and Workshops
Power & Lighting	
User Convenience (excludes outlets for AV, security, etc.):	Duplex on walls at twelve feet (12')
Lighting level	L1 - 50 FC at work surfaces and teaching displays with multiple sets
Telecommunications	
Outlet (excludes outlets for AV, security, etc.):	One data drop on one wall
Wireless Requirements:	TW2 - 2 wireless devices per occupant (based on maximum occupancy)

**ADDITIONAL REQUIREMENTS**

This room will house the ceramic kilns for firing. A supply of moist clay in 50-pound boxes will be kept there. Two portable clay containers and the clay supply cart will be parked in this room. Projects ready for firing will be stored to dry on adjustable metal shelving located around the room. The storage of kiln shelves, shelf supports, cones, and kiln wash will be kept in a cabinet. A shop-type vacuum cleaner will be stored here. Above the kiln will be an exhaust ventilation hood adequate for effective ventilation direct to the outside when the kiln is in use. This door should have a lock with key. A damp cabinet should be placed in this room. The kiln room serves as both the kiln room and the supply storage.

Provide a heat exhaust system for the kiln room, including a canopy exhaust hood over kiln location and adequate make-up air supply to maintain acceptable room pressurization, temperature and humidity.

Provide storage racks to hold

- A supply of moist clay in 50-pound boxes
- Portable clay containers and the clay supply cart
- Projects ready for firing (greenware)
- Kiln shelves, shelf supports, cones, and kiln wash
- A damp cabinet should be placed in this room.

**BUILT-IN FIXTURES:**

- F1 Storage shelving (12" deep)
- F2 Casework: Base/wall cabinets and shelving

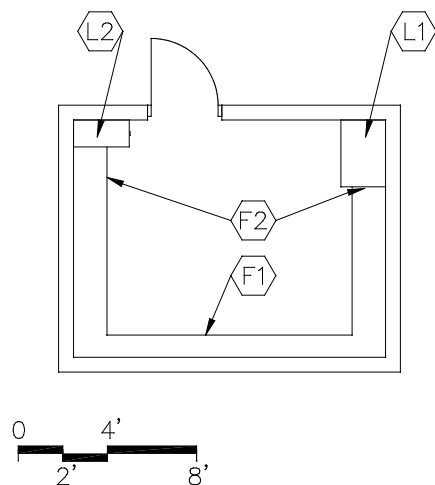
**LOOSE FURNISHINGS:**

- L1 2 Kiln
- L2 Greenware shelving

**AUDIO VISUAL EQUIPMENT**

None

STORAGE



QUANTITY:

3

SIZE:

150 SF

SPATIAL RELATIONSHIPS:

Adjacent and access to 3-D Studio

GOAL:

To provide secure and adequate space to store art supplies, portable equipment, technology peripherals, and materials

PROGRAM ACTIVITIES:

Storage of equipment, supplies, and projects

SPACE REQUIREMENTS

Construction:	
Min Ceiling Height:	9'-0"
Acoustics:	AC8 - Utility Space
Window shading:	None
Power & Lighting	
User Convenience (excludes outlets for AV, security, etc.):	Duplex on perimeter walls, min one per wall
Lighting level	L6 - 40 FC ambient, 70 FC at any service points or equipment
Telecommunications	
Outlet (excludes outlets for AV, security, etc.):	None

Wireless Requirements:	TW1 - 1 wireless device per occupant (based on maximum occupancy)
------------------------	---

**ADDITIONAL REQUIREMENTS**

**BUILT-IN FIXTURES:**

- F1 Storage shelving (12" deep)
- F2 Storage shelving (18" deep)

**LOOSE FURNISHINGS:**

- L1 Greenware Shelving
- L2 4-drawer file cabinet (legal)

**AUDIO VISUAL EQUIPMENT**

None

**Athletic Fields Space Specifications****A. GENERAL**

1. Provide 1 multipurpose field as a minimum. Optimum site development should include 1 softball field and 1 baseball field as well.
3. Provide grading of fields with a 1 percent to 1-1/2 percent slope.

**B. SOFTBALL FIELD**

1. Provide 200 feet to 225 feet softball field radius. See Figure B-1.
2. Provide a backstop having a 17-foot 6-inch overhang height and a 10-foot high by 20-foot wide back panel with 10-foot wide side panels. Locate backstop a minimum of 25 feet and a maximum of 30 feet behind home plate.
3. Provide 6-foot high chain link player protection fence when separate field is included.
4. Consider 8-foot high chain link outfield fencing, foul poles, and top rail protective pad for competition fields when separate field is included.
5. Provide player benches (2 X 60 LF), set back from side fence line.

**C. MULTIPURPOSE FIELD**

1. Grading is to crown at center of field and slope to sidelines.
2. Consider future underdrains and irrigation.
3. Provide portable or combination football/soccer goals.
4. Provide 195 feet wide by 360 feet long multipurpose field.
5. Provide player benches (2 X 60 LF), Spectator seating (120 LF)

**D. BASEBALL FIELD**

1. Verify radius required based on program use of field. Estimate of area needed is based on 360' radius to center field and 335' to right and left outfield.
2. Plan for infield area in compliance with High School Athletic Association guidelines.
3. Plan for 24-foot high backstop a minimum of 60 feet from home plate.
4. Plan for a protection fence that is 6-foot high chain link fence offset 60 feet from first and third base lines.

5. Consider outfield fencing that is 8-foot high chain link fence with top rail protective pad between foul lines for competition fields. Plan for foul poles.
6. Provide player benches (2 X 60 LF), set back from side fence line.
7. Provide room for future bleacher seating at competition fields.

### Generic Language for all Autism Programs (Kenmoor, Hyattsville, Drew Freeman, Southern Area MS)

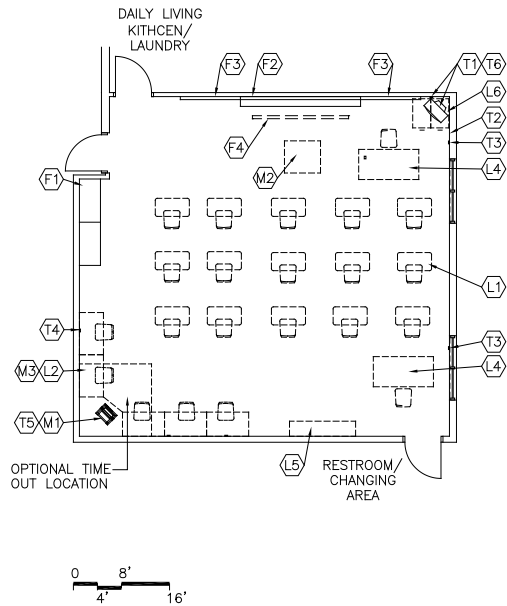
PGCPS offers a continuum of services to students with special needs. To the extent possible students are educated in their home school using co-teaching, occasional 'pull-out' focused on intervention, or self-contained classroom settings. The number of students and range of teaching options may vary from year to year and all classrooms should be designed to accommodate all students regardless of their disabilities.

Special education facilities will be integrated throughout the school to support the concepts of inclusion and the specialized requirements for the students. Special attention will be given to accessibility of all facilities and an integrated learning program.

This school will serve students with Autism in a self-contained environment. Their classrooms and support spaces should be in a quiet area of the school (or wing) but not be completely isolated from the regular school population. The learning environment should minimize extreme light conditions, noise from equipment, and dramatic colors. The architect should work with staff to identify alternative seating options.

Space	Design Guideline			Comments
	Qty.	Sq.Ft.	Total	
Classrooms	3	800	2,400	Two classrooms will have a movable wall; provide a half wall around the perimeter to allow for staff desks – see staff for details
	1	900	900	With toilet
Sensory Room	1	600	600	
Independent Support Room	1	200	200	
Office	1	140	140	Coordinator and Itinerant
Conference Room	1	300	300	
Toilets	2	50	100	
Total			4,640	
TOTAL # of SRC Rooms	4			

## SPECIAL NEEDS CLASSROOM/STUDIO



### QUANTITY:

- 3 generic classrooms
- 1 classroom with toilet

### CAPACITY:

- 2 or more staff
- 10 to 15 students

### SIZE:

800-900 SF

### SPATIAL RELATIONSHIPS:

- Accessible ingress/egress to the building and classroom
- One per grade level community

### GOAL:

- To provide a safe, accessible, and comfortable learning environment for students who are physically, mentally or emotionally challenged
- To provide classroom space and a flexible, specially-adapted learning environment that will meet the needs of students who have exhibited a need for more functional/ intensive services

### PROGRAM ACTIVITIES:

- Independent work
- Individual instruction
- Small group work



**SPACE REQUIREMENTS**

Construction:	
Min Ceiling Height:	10'-0"
Acoustics:	AC2 - High Performance: Conference Room or Confidential Space
Window shading:	S1A -Blinds/Shades and Manually Operated Blackout Shades
Power & Lighting	
User Convenience (excludes outlets for AV, security, etc.):	<ul style="list-style-type: none"> <li>One (1) outlet for control of the classroom projector/interactive board</li> <li>One (1) outlet for telephone at the teacher station</li> <li>One (1) outlet for the intercom system</li> <li>Two (2) outlets at the teacher station for a teacher's computing device and accessory</li> <li>Two (2) outlets for wireless network</li> <li>Four (4) outlets for student use</li> <li>Additional twenty (20) ampere circuit, or additional as required, to support computers, printer, and typical classroom equipment shall be in each classroom. Electrical outlets shall be placed on teaching walls at min six feet (6') on center and on other walls at twelve feet (12').</li> </ul>
Lighting level	L1 - 50 FC at work surfaces and teaching displays with multiple sets
Telecommunications	
Outlet (excludes outlets for AV, security, etc.):	<ul style="list-style-type: none"> <li>One (1) data outlet for control of the classroom projector/interactive board</li> <li>One (1) data outlet for telephone at the teacher station</li> <li>One (1) data outlet for the intercom system</li> <li>Two (2) data outlets, and one (1) voice outlet at the teacher station for a teacher's computing device and accessory</li> <li>Two (2) data outlets for wireless network</li> <li>One (1) data outlet for the PoE clock</li> </ul>
Sound Reinforcement	Every classroom will be wired for teacher audio enhancement and the audio system should be integrated into the intercom system. The mixed sound will be amplified and sent through the speakers (preferably ceiling mounted).
Wireless Requirements:	TW2 - 2 wireless devices per occupant (based on maximum occupancy)

**ADDITIONAL REQUIREMENTS**

In one of the programmed classrooms, provide a toilet room complying with the requirements of Data Sheet for Gender Inclusive Restroom within the programmed area of the classroom with door opening directly to classroom

Comfortable rooms with pleasant décor that contribute to an atmosphere conducive to creativity

**BUILT-IN FIXTURES:**

2 Dry, white eraser-board (4' x 20' on two different walls) on track; all eraser-boards shall be installed with a marker tray, map rails with tack strip above

Clock (on side walls instead of rear walls)

Tack board (4' x 20') minimum; tack strips on all walls

**LOOSE FURNISHINGS:**

L1 10 Student desks/tables and chairs

L2 3-5 Computer workstations (optional)

L3 Printer table

L4 Teacher desk/workstation and chair

L4 Workstation and chair for co-teacher/aide

L5 Adjustable height bookshelves (24 LF)

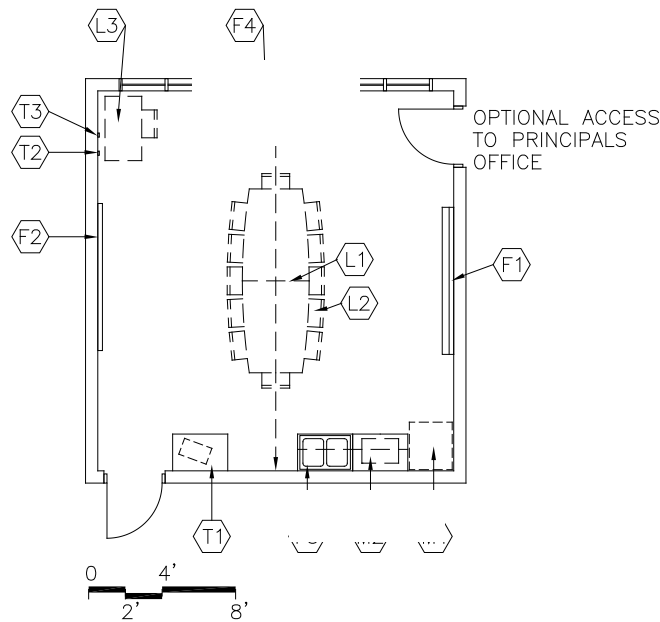
L6 2, file cabinets w/ lock, 4-drawer

1 Lockable teacher wardrobe with coat rod; tall cabinet w/ shelving (may be one unit)

**AUDIO VISUAL EQUIPMENT**

See Educational Technology Requirements

CONFERENCE ROOM



QUANTITY:

1

CAPACITY:

Up to 20 people

SIZE:

300 SF

SPATIAL RELATIONSHIPS:

In administrative suite

GOAL:

To provide an area adequate for small and medium group conferences

PROGRAM ACTIVITY:

Meetings/conferences  
Staff collaboration

SPACE REQUIREMENTS

Construction:	
Min Ceiling Height:	9'-0"
Acoustics:	AC2 - High Performance: Conference Room or Confidential Space
Window shading:	S1A -Blinds/Shades and Manually Operated Blackout Shades
Power & Lighting	
User Convenience (excludes outlets for AV, security, etc.):	Duplex on perimeter walls at twelve feet (12'), 2 recessed floor quad

Lighting level	L3 - 35 FC at work surfaces and walls
Telecommunications	
Outlet (excludes outlets for AV, security, etc.):	1 standard data dropdrop on two walls and 1 recessed floor box with standard (2) data outlets
Wireless Requirements:	TW2 - 2 wireless devices per occupant (based on maximum occupancy)
SPECIALTIES	
Special features:	None
ADDITIONAL REQUIREMENTS	
Conference Room Technology –Conference rooms will have one on-table computer connections to a video display screen and be internet capable. One lighting/multi-media cotrol panel shall be table mounted and one wall mounted.	

**ADDITIONAL REQUIREMENTS****BUILT-IN FIXTURES:**

- F1 Marker board (8 LF)
- F2 Tack board (8 LF)

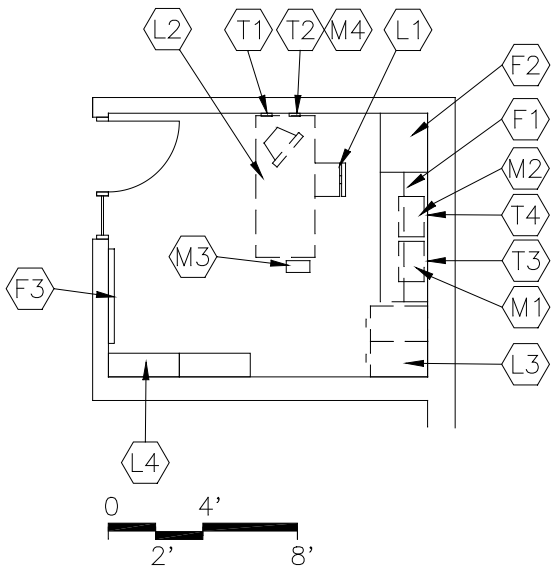
**LOOSE FURNISHINGS:**

- L1 Conference table
- L2 12 Chairs
- L3 Computer workstation furniture

**AUDIO VISUAL EQUIPMENT**

See Educational Technology Requirements

OFFICE



QUANTITY:

1

CAPACITY:

Up to 2 people

SIZE:

140 SF

SPATIAL RELATIONSHIPS:

Near conference room

GOAL:

To serve as an area from which staff can effectively provide administrative support

PROGRAM ACTIVITIES:

- Answering telephone
- Data input and retrieval
- Duties of confidential secretary
- General office work

SPACE REQUIREMENTS

Construction:	
Min Ceiling Height:	9'-0"
Acoustics:	AC3 - Medium Performance: Closed Office
Window shading:	S1 - Roller Shades, 5% Open
Power & Lighting	

User Convenience (excludes outlets for AV, security, etc.):	2 duplex outlets per wall on two side walls
Lighting level	L2 - 35 FC at work surfaces
Telecommunications	
Outlet (excludes outlets for AV, security, etc.):	One standard data drop on two side walls
Wireless Requirements:	TW2 - 2 wireless devices per occupant (based on maximum occupancy)

**ADDITIONAL REQUIREMENTS**

None

**BUILT-IN FIXTURES:**

- F1 Casework:
  - Base cabinets and shelving
- F3 Tack board (4 LF)
- F2 Casework: Wardrobe

**LOOSE FURNISHINGS:**

- L2 Desk
- L1 Ergonomic chair
- L3 4-drawer locking file cabinet
- L4 Bookcases
- M1/2 Printer/Copier
- M4 Computer

**AUDIO VISUAL EQUIPMENT**

See Educational Technology Requirements

**SENSORY ROOM****QUANTITY:**

1

**CAPACITY:**

Up to 3-4 students

Up to 2 staff

**SIZE:**

600 SF

**SPATIAL RELATIONSHIPS:**

Near Special Needs Classrooms

**SPACE REQUIREMENTS**

Construction:	
Min Ceiling Height:	10'-0"
Acoustics:	AC3 - High Performance: Conference Room or Confidential Space
Window shading:	S1A -Blinds/Shades and Manually Operated Blackout Shades
Power & Lighting	
User Convenience (excludes outlets for AV, security, etc.):	<ul style="list-style-type: none"> <li>One (1) outlet for control of the classroom projector/interactive board</li> <li>One (1) outlet for telephone at the teacher station</li> <li>One (1) outlet for the intercom system</li> <li>Two (2) outlets at the teacher station for a teacher's computing device and accessory</li> <li>Two (2) outlets for wireless network</li> <li>Four (4) outlets for student use</li> <li>Additional twenty (20) ampere circuit, or additional as required, to support computers, printer, and typical classroom equipment shall be in each classroom. Electrical outlets shall be placed on perimeter walls at twelve feet (12').</li> </ul>
Lighting level	L1 - 50 FC at work surfaces and teaching displays with multiple sets
Telecommunications	
Outlet (excludes outlets for AV, security, etc.):	<ul style="list-style-type: none"> <li>One (1) data outlet for control of the classroom projector/interactive board</li> <li>One (1) data outlet for telephone at the teacher station</li> <li>One (1) data outlet for the intercom system</li> <li>Two (2) data outlets, and one (1) voice outlet at the teacher station for a teacher's computing device and accessory</li> <li>Two (2) data outlets for wireless network</li> </ul> One (1) data outlet for the PoE clock

Wireless Requirements:	TW2 - 2 wireless devices per occupant (based on maximum occupancy)
Sound Reinforcement	Every classroom will be wired for teacher audio enhancement and the audio system should be integrated into the intercom system. The mixed sound will be amplified and sent through the speakers (preferably ceiling mounted).

**ADDITIONAL REQUIREMENTS**

None

**BUILT-IN FIXTURES:**

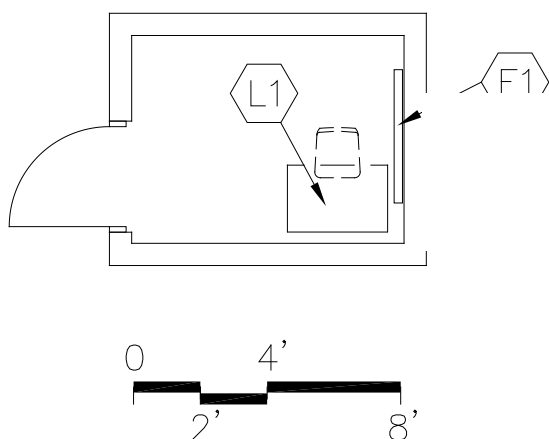
**LOOSE FURNISHINGS:**

Provided by PGCPs – Fiber optic displays, bubble tubes, Sound system, platforms for multi-level seating

**AUDIO VISUAL EQUIPMENT**

See Educational Technology Requirements



**INDEPENDENT SUPPORT ROOM****QUANTITY:**

1

**CAPACITY:**

- 2-3 persons

**SIZE:**

- 200 SF

**PROGRAM ACTIVITIES:**

- For students requiring a quiet individual area.

**SPATIAL RELATIONSHIPS:**

- Close proximity to Special education classrooms

**SPACE REQUIREMENTS**

Construction:	
Min Ceiling Height:	9'-0"
Acoustics:	AC2 - High Performance: Conference Room or Confidential Space
Window shading:	None
Partitions and Finishes:	
Power & Lighting	
User Convenience (excludes outlets for AV, security, etc.):	2 duplex per wall on three of four walls
Lighting level	L2 - 35 FC at work surfaces
Telecommunications	
Outlet (excludes outlets for AV, security, etc.):	Two (2) data drop per wall on one wall.
Wireless Requirements:	TW2 - 2 wireless devices per occupant (based on maximum occupancy)

**ADDITIONAL REQUIREMENTS**

Room lighting to be dimmable and color adjustable (full spectrum)

Environmental sound control wall minimum STC 50 ceiling minimum CAC 35, NRC 0.65

Views into time out area from the corridor

Auditory privacy

**BUILT-IN FIXTURES:**

**LOOSE FURNISHINGS:**

L1 – Desk and chair

**AUDIO VISUAL EQUIPMENT**

See Educational Technology Requirements

### Middle School Based Health Center Space Requirements

Space	Design Guideline			Comments
	Qty.	S.F.	Total	
Reception/ Waiting Area	1	150	150	
Exam Rms.#1	1	80	80	
Exam and Dental #2	1	160	160	
Lab/charting area	1	100	100	
Provider Offices	2	120	240	
Mental Health conference rm	1	200	200	
Storage	2	50/80	130	
Toilet	2	50	100	
Total			1,160	
@ 1.35			1,600	

The School Based Health Center should be located near the front entrance. During the day, all visitors must enter through the school security vestibule. However, an outside entrance is desirable so the clinic could operate when the school is closed. The design for this space must be flexible to allow for alternative uses if it is not used as a SBHC.

The following specifications indicate the full outfitting of the space. A final decision will be made prior to final furniture selection.

The clinics offer a variety of services to students including

- Immunizations
- Diagnosis and treatment of Minor/Acute/Chronic Health Problems
- Physical Examinations
- Laboratory Testing

#### Mental Health Services

- Individual Mental Health Assessment, Treatment, and Follow-up
- Group Counseling
- Substance Abuse Education/Counseling

#### Health Education Services

- Abstinence Education
- Weight Reduction and Healthy Living
- Diabetes Education/Management
- Asthma Education/Management

#### Dental Health Services

- Dental Assessments
- Dental Hygiene Education
- Dental Referrals for Restorations

### Adjacency Requirements

The School Based Health Center shall be located near the front entrance. During the day, all visitors must enter through the school security vestibule.

An outside entrance shall be provided so the clinic could operate when the school is closed.

**Design for Flexibility**

The design for this space must be flexible to allow for alternative uses if it is not used as a SBHC.

**Security and Layering**

The School Based Health Center shall be designed to provide an open and accessible public façade while maintaining high levels of security and privacy for Wellness operations:

Entry lobby shall have readily identified entrance. Lobby interior shall not be directly visible from outside to provide privacy for patients.

Secure areas within School Based Health Center Areas shall be separated from the public areas by keycard access. Secured areas shall be located together such that access from one secured area to any other will not require passing through a public area.

**Privacy**

In addition to the privacy requirements of HIPAA, Developer shall design the space to provide high levels of privacy and confidentiality.

In patient, treatment and counselling rooms, ensure occupants of rooms cannot be identifiable from outside the room.

**Safety**

Shouting in any patient, treatment or counseling room shall be audible from outside the room, while maintaining acoustical performance identified in the applicable Area Data Sheets.

**Patient Wellbeing & Infection Control**

Design the School Based Health Center using best practice in patient well-being and infection control, including:

- Provide comfortable and attractive settings based on evidence based design for healing environments;

- Provide comfortable and acoustically designed space when students need to work with an assistant or need voice recognition software to "read" their exams;

- Ensure air flow is managed in such a manner to minimize risk of cross-contamination and nosocomial infection;

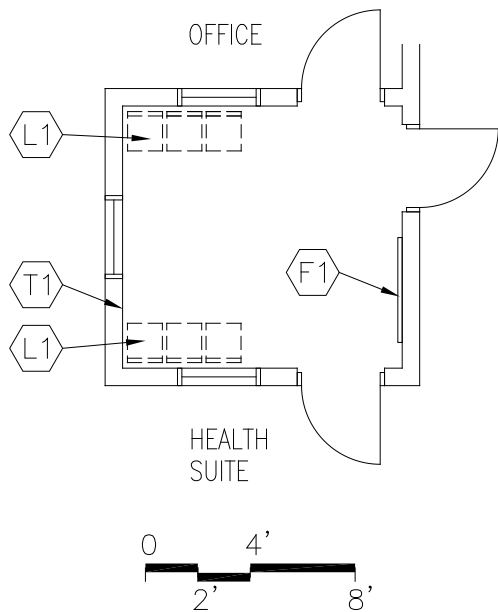
- Provide separated well and sick patient waiting areas with separated air systems. Design to manage patient flow to avoid contamination; and

- Provide handwashing and hand sanitization stations throughout the facility.

**Nurse Call System**

Design and install a complete nurse call system within the Student Life: Wellness Center, including initiation and reporting devices.

RECEPTION/ WAITING AREA



QUANTITY:

1

CAPACITY:

Up to 6 people

SIZE:

150 SF

SPATIAL RELATIONSHIPS:

- First space one enters in Health Suite
- Ground floor
- May include Nurse's desk and work station (see office for description of F&E)

GOAL:

To provide an area for students waiting to see the nurse or for parent pick-up

SPACE REQUIREMENTS

Construction:	
Min Ceiling Height:	9'-0"
Acoustics:	AC3 - Medium Performance: Closed Office
Window shading:	S1 - Roller Shades, 5% Open
Power & Lighting	
User Convenience (excludes outlets for AV, security, etc.):	Duplex on perimeter walls at twelve feet (12')
Lighting level	L5 - 25 FC ambient with focus lighting areas
Telecommunications	

Outlet (excludes outlets for AV, security, etc.):	Two (2) data drop per wall on one wall.
Wireless Requirements:	TW1 - 1 wireless device per occupant (based on maximum occupancy)
<b>SPECIALTIES</b>	
Special features:	None
<b>ADDITIONAL REQUIREMENTS</b>	
Waiting room shall provide visual privacy for people waiting	

**ADDITIONAL REQUIREMENTS**

None

**BUILT-IN FIXTURES:**

F1 Tack board  
 Brochure rack

**LOOSE FURNISHINGS:**

L1 4-6 visitor chairs  
 2 Side tables w/ lamps  
 Teacher desk and chair  
 Mounted monitor for educational videos

**AUDIO VISUAL EQUIPMENT**

See Educational Technology Requirements

**EXAM ROOM #1****QUANTITY:**

2

**CAPACITY:**

Up to 3 people

**SIZE:**

80 SF

**GOAL:**

To provide school based health services

**PROGRAM ACTIVITIES:**

First aid

Health screening

Medical treatments

Medication administration

**SPATIAL RELATIONSHIPS:**

Located in the health clinic

Near Waiting Area

**SPACE REQUIREMENTS**

Construction:	
Min Ceiling Height:	9'-0"
Acoustics:	AC3 - Office
Window shading:	S1A -Blinds/Shades and Manually Operated Blackout Shades
Plumbing:	
Fixture Type:	Lavatory w/sensor control faucet
Power & Lighting	
User Convenience (excludes outlets for AV, security, etc.):	Duplex on perimeter walls at twelve feet (12'), outlets for computer charting station and vital station height.
Lighting level	L6 - 40 FC ambient, 70 FC at any service points or equipment
Telecommunications	
Outlet (excludes outlets for AV, security, etc.):	Two (2) data drop per wall on two walls.
Wireless Requirements:	TW2 - 2 wireless devices per occupant (based on maximum occupancy)
SPECIALTIES	
Special features:	4' base cabinet; 4' wall mounted cabinet; handwash sink; wall mounted medical computer desk, curtains on windows, Privacy curtains, paper towel holder, soap dispenser

**ADDITIONAL REQUIREMENTS**

None

**BUILT-IN FIXTURES:**

Cubicle curtain

Soap dispenser

Towel dispenser

Casework: Base/wall cabinets around sink

**LOOSE FURNISHINGS:**

Provider Furnished

Ergonomic chair

Exam table

**AUDIO VISUAL EQUIPMENT**

See Educational Technology Requirements



**EXAM RM #2: DENTAL****QUANTITY:**

1

**CAPACITY:**

Up to 3 people

**SIZE:**

120 SF Operatory

30 SF storage

**GOAL:**

To provide school based dental services

**PROGRAM ACTIVITIES:**

Check-ups

Cleaning

Education

**SPATIAL RELATIONSHIPS:**

Located in the health clinic

Near Waiting Area

**SPACE REQUIREMENTS**

Construction:	
Min Ceiling Height:	9'-0"
Acoustics:	AC2 - High Performance: Conference Room or Confidential Space
Window shading:	S1A -Blinds/Shades and Manually Operated Blackout Shades
Plumbing:	
Fixture Type:	Lavatory w/sensor control faucet, plumbing for dental chair
Power & Lighting	
User Convenience (excludes outlets for AV, security, etc.):	Duplex on perimeter walls at twelve feet (12'), outlets for computer charting station and vital station height. Power for dental station
Lighting level	L6 - 40 FC ambient, 70 FC at any service points or equipment
Telecommunications	
Outlet (excludes outlets for AV, security, etc.):	Two (2) data drop per wall on two walls..
Wireless Requirements:	TW2 - 2 wireless devices per occupant (based on maximum occupancy)
SPECIALTIES	
Special features:	4' base cabinet; 4' wall mounted cabinet; handwash sink; wall mounted medical computer desk, curtains on windows, Privacy curtains, paper towel holder, soap dispenser

**ADDITIONAL REQUIREMENTS**

None

**BUILT-IN FIXTURES:**

- Cubical curtain
- Soap dispenser
- Towel dispenser
- Casework: Base/wall cabinets around sink
- Lockable cabinets in the storage closet

**LOOSE FURNISHINGS:**

Provider Furnished:

- Dental chair with overhead light and sink attachments
- Dentist's stool
- Assistant's stool
- Refrigerator in the storage area

**AUDIO VISUAL EQUIPMENT**

See Educational Technology Requirements

**LAB/CHARTING AREA****QUANTITY:**

1

**CAPACITY:**

Up to 2 medical staff

**SIZE:**

100 SF

**SPATIAL RELATIONSHIPS:**

Near Waiting Area/Reception

Adjacent to toilet

**GOAL:**

To provide for lab test and storage

To provide a counter and plumbing for private chart maintenance

**SPACE REQUIREMENTS**

Construction:	
Min Ceiling Height:	9'-0"
Acoustics:	AC3 - Medium Performance: Closed Office
Window shading:	
Plumbing:	
Fixture Type:	Lavatory
Power & Lighting	
User Convenience (excludes outlets for AV, security, etc.):	Duplex at counters at max 2' on center, on walls at twelve feet (12')
Lighting level	L2 - 35 FC at work surfaces
Telecommunications	
Outlet (excludes outlets for AV, security, etc.):	Two (2) data drops at counters at max 2' on center, on walls at max 6' on center
Wireless Requirements:	TW2 - 2 wireless devices per occupant (based on maximum occupancy)
SPECIALTIES	
Special features:	Nurse station units (base cabinet and shelving), 12' long, paper towel holder, soap dispenser

**ADDITIONAL REQUIREMENTS**

None

**BUILT-IN FIXTURES:**

Tack board (4 LF)

Sink w/soap dispenser

Towel dispenser

Specimen door to toilet

Casework:

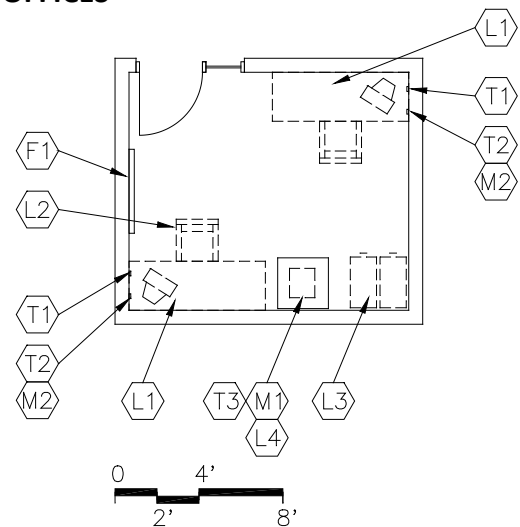
Base cabinets and shelving along one wall

**LOOSE FURNISHINGS:**

**AUDIO VISUAL EQUIPMENT**

See Educational Technology Requirements

**OFFICES**



**QUANTITY:**

2

**CAPACITY:**

Up to 2 people

**SIZE:**

120 SF (includes 50 SF adult toilet)

**SPATIAL RELATIONSHIPS:**

- Adjacent and visual into Waiting Area/Reception

**GOAL:**

To provide an office for the staff to perform clerical functions

**PROGRAM ACTIVITIES:**

- Computer input
- Conferences with staff and other visitors
- Paperwork
- Planning
- Telephone calls

**SPACE REQUIREMENTS**

Construction:	
Min Ceiling Height:	9'-0"
Acoustics:	AC3 - Medium Performance: Closed Office
Window shading:	S1 - Roller Shades, 5% Open
Power & Lighting	
User Convenience (excludes outlets for AV, security, etc.):	2 duplex per wall on three of four walls

Lighting level	L2 - 35 FC at work surfaces
Telecommunications	
Outlet (excludes outlets for AV, security, etc.):	One standard data drop on two side walls
Wireless Requirements:	TW2 - 2 wireless devices per occupant (based on maximum occupancy)

**ADDITIONAL REQUIREMENTS**

None

**BUILT-IN FIXTURES:**

F1 Tack board

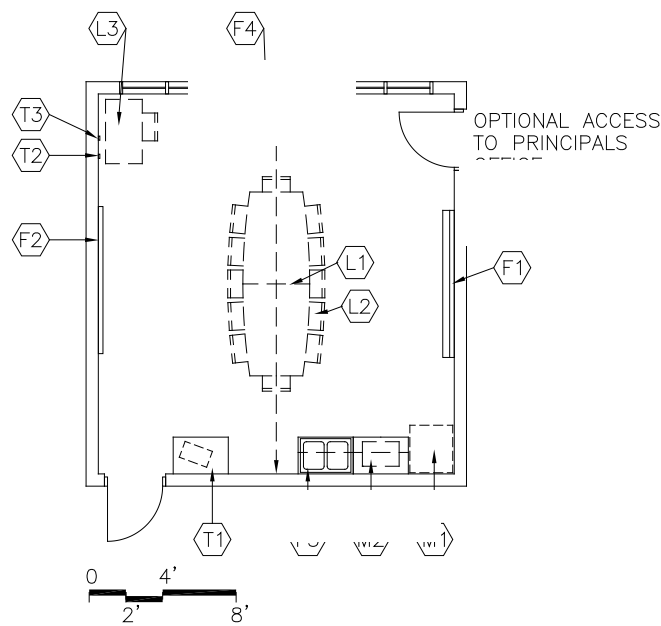
**LOOSE FURNISHINGS:**

- L1 1 desk
- L2 1 ergonomic task chair
- L3 1, 4-drawer file cabinet
- L4 Printer table
- Guest chair
- M1 Printer
- M2 Computer

**AUDIO VISUAL EQUIPMENT**

See Educational Technology Requirements

MENTAL HEALTH CONFERENCE ROOM



QUANTITY:

1

CAPACITY:

- Staff
- Teachers
- Visitors

SIZE:

200 SF

SPATIAL RELATIONSHIPS:

Near Mental Health Office

GOAL:

- To provide an area adequate for small and medium group conferences
- To provide an area for testing.

PROGRAM ACTIVITIES:

- Group counseling and mediation
- Staff collaboration

SPACE REQUIREMENTS

Construction:	
Min Ceiling Height:	9'-0"
Acoustics:	AC2 - High Performance: Conference Room or Confidential Space
Window shading:	S1A -Blinds/Shades and Manually Operated Blackout Shades

Power & Lighting	
User Convenience (excludes outlets for AV, security, etc.):	Duplex on perimeter walls at twelve feet (12'), 2 recessed floor quad
Lighting level	L3 - 35 FC at work surfaces and walls
Telecommunications	
Outlet (excludes outlets for AV, security, etc.):	1 standard data drop on two walls and 1 recessed floor box with standard (2) data outlets
Wireless Requirements:	TW2 - 2 wireless devices per occupant (based on maximum occupancy)
ADDITIONAL REQUIREMENTS	
Conference Room Technology –Conference rooms will have one on-table computer connections to a video display screen and be internet capable. One lighting/multi-media control panel shall be table mounted and one wall mounted.	

**ADDITIONAL REQUIREMENTS**

None

**BUILT-IN FIXTURES:**

- F1 Marker board (8 LF)
- F2 Tack board (8 LF)
- Manual projection screen

**LOOSE FURNISHINGS:**

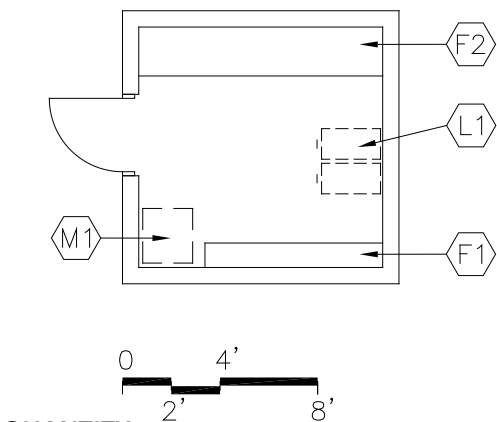
- L1 1-2 Conference tables for 10 w/ conference room technology built-in
- L2 12-15 stackable chairs
- L3 Computer workstation furniture

**AUDIO VISUAL EQUIPMENT**

See Educational Technology Requirements



STORAGE AREAS



QUANTITY:

1

CAPACITY:

Up to 1 person

SIZE:

50/80 SF

SPATIAL RELATIONSHIPS:

Adjacent and access to Treatment Area

GOAL:

To provide storage for medical supplies and equipment

PROGRAM ACTIVITIES:

Storage

SPACE REQUIREMENTS

Construction:	
Min Ceiling Height:	9'-0"
Acoustics:	AC8 - Utility Space
Window shading:	
Plumbing:	
Fixture Type:	Cconnection for ice maker
Piped services:	Cold water
Special drains:	Drain connection to fixtures
Power & Lighting	
User Convenience (excludes outlets for AV, security, etc.):	Duplex on perimeter walls, one per wall
Lighting level	L6 - 40 FC ambient, 70 FC at any service points or equipment
Telecommunications	

Outlet (excludes outlets for AV, security, etc.):	1 standard data drop per room
Wireless Requirements:	TW1 - 1 wireless device per occupant (based on maximum occupancy)

**ADDITIONAL REQUIREMENTS**

None

**BUILT-IN FIXTURES:**

F1 Storage shelving - 12" deep

F2 Storage shelving - 24" deep

**LOOSE FURNISHINGS:**

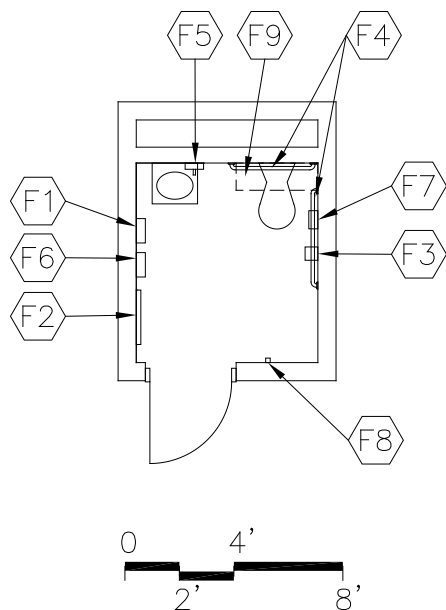
L1 File cabinets

M1 Refrigerator (lockable) with ice maker (may be in treatment room instead)

**AUDIO VISUAL EQUIPMENT**

None

STUDENT TOILET



QUANTITY:  
2

CAPACITY:  
Up to 1 person

SIZE:  
50 SF

SPATIAL RELATIONSHIPS:  
Located within Health Clinic adjacent to the Lab with a pass-thru for samples

PROGRAM ACTIVITY:  
Personal and health needs for the health clinic

SPACE REQUIREMENTS

Construction:	
Min Ceiling Height:	8'-0"
Acoustics:	AC7 - Public Space
Window shading:	None
Plumbing:	
Fixture Type:	Toilet, lavatory w/sensor control faucet
Power & Lighting	
User Convenience (excludes outlets for AV, security, etc.):	GFI Duplex at lavatory, one per room
Power density:	PW1 - 1W/ASF
Lighting level	L7 - 25 FC ambient

Lighting control	LC8 - Public Space
Telecommunications	
Outlet (excludes outlets for AV, security, etc.):	None
Wireless Requirements:	TW1 - 1 wireless device per occupant (based on maximum occupancy)
SPECIALTIES	
Special features:	Provide pass-through for specimens to nursing area

**ADDITIONAL REQUIREMENTS****BUILT-IN FIXTURES:**

- F1 Towel dispenser
- F2 24" x 60" mirror
- F3 Toilet tissue holder
- F4 36" and 42" grab bars
- F5 Soap dispenser
- F6 Sanitary dispenser
- F7 Sanitary disposal
- F8 Coat hook
- F9 Casework: Wall cabinet

**LOOSE FURNISHINGS:**

None

**AUDIO VISUAL EQUIPMENT**

None

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## SECTION 1 Project Outline

## **1.1 GENERAL DESIGN CRITERIA**



## SECTION 2 DESIGN & CONSTRUCTION REQUIREMENTS

## **2.1 Site Design Requirements**

### **2.1.1 Exterior Performance Requirements**

#### **2.1.1.1 Exterior Shading**

- (a) The Buildings within the Project Site shall be positioned so as to provide shade and reduce urban heat effects. Structures with materials, design, or forms that produce solar glare into or onto adjoining Buildings, streets, pedestrian walkways or publicly accessible outdoor spaces shall be avoided.
- (b) Primary entrances into Buildings shall attain 25% shade coverage as measured at 1:00 P.M. on the equinox. This requirement does not apply to secondary entrances into such Buildings.

#### **2.1.1.2 Site Topography and Grading**

- (a) All Building entrances shall be universally accessible.
- (b) All Project Site grading shall be designed with consideration of adjacent Work, Facilities or Buildings so that landforms and grade transitions are coordinated between Project boundaries and such Work, Facilities or Buildings.
- (c) The grading plan shall be developed so as to maximize opportunities for on-site stormwater quantity and quality control.
- (d) Planted areas shall be graded to maximize opportunities for on-site stormwater quantity and quality control.
- (e) Paved areas shall be graded to encourage sheet flow to planted areas.

### **2.1.2 Landscaping Requirements**

#### **2.1.2.1 General Landscaping Requirements**

- (a) Developer shall design and construct all landscaping elements and associated irrigation systems within the Project Site.
- (b) Permanent irrigation is not required. Hose bibbs or quick connect irrigation connections shall be provided such that no landscaped or planted areas is more than 150' from a point of connection.
- (c) Developer shall design and construct Project Site landscaping to emphasize regional natives, avoid invasive or allergenic species, and to include plantings that are compatible with the Buildings and Outdoor Facilities.
- (d) Developer shall incorporate water-efficient landscaping practices in all landscape installations.
- (e) Where used, Irrigation systems shall be designed to an irrigation efficiency of greater than 0.85,
- (f) Developer shall provide landscaping around Buildings, except where pedestrian walkways directly abut the Building.
- (g) Planting within 100 feet of any Building shall not support flame or permit the spread of fire. Mulch, bark or other ground cover material shall not support flame or spread of fire.

#### 2.1.2.2 Plant Materials Requirements

- (a) Plant materials shall be first class representatives of their normal species or variety. They shall have typical branching systems and vigorous root systems. Plants shall be free of pests and diseases, disfiguring knots, scalds, bark abrasions, or other injuries. Trees shall have straight trunks with the leader intact, undamaged and uncut unless multi-trunk trees are specified. Trees shall provide good growth and rapid appearance of maturity.
- (b) Trees shall be a minimum 2" caliper size, ball and burlap. Groundcovers, vines, and ornamental grasses shall be a minimum of one (1) gallon container in size. Shrubs and woody perennials shall be a minimum of five (5) gallon container in size. All one (1) and five (5) gallon container stock shall have been grown in their containers for a minimum of six (6) months and a maximum of one (1) year. All balled and burlap trees are root pruned per PGCPs standards.
- (c) Planting shall be designed to have mature appearance within seven years.

#### 2.1.2.3 Irrigation Requirements

- (a) Where Irrigation systems are installed,
  - i. The irrigation system shall be designed to prevent overspray or run-off from the irrigation zone onto any paved surface or into any surface water drainage element. Overspray or run-off into other planting zones shall be minimized.
  - ii. The automatic irrigation system shall be designed based upon WUCOLS guidelines and meet the LEED v4 Requirements for Water Efficiency, Outdoor Water Use Reduction Credit: Water Efficient Landscaping to reduce overall landscape use of potable water by 50% from calculated midsummer baseline figures, and contain an evapotranspiration system. In addition, the system controllers shall include soil moisture monitoring and weather monitoring to manage watering cycles.
  - iii. All irrigation zones shall be separated by planting type and tree irrigation shall be considered a separate zone.

### 2.1.3 Exterior Amenities

#### 2.1.3.1 Waste Receptacles

Developer shall install exterior waste receptacles in Exterior Areas at main building entrance, and in accordance with the Project Master Plan

## **2.2 Project Site Circulation**

### **2.2.1 Vehicle & Pedestrian Circulation**

#### **2.2.1.1 Site Circulation elements**

- (a) all paved areas shall be constructed with clean and neat edges, and shall incorporate appropriate curbs or edging elements as needed to prevent spreading or edge degradation, and to prevent plant intrusion. Curbs shall be installed at all vehicular paving;

#### **2.2.1.2 Site Paving Materials**

All areas subject to vehicular traffic, including both regular traffic (roads, service and loading areas, and parking), and occasional traffic (walkways, plazas, bicycle paths and landscaped areas) shall include the following types of paving materials:

- (a) Vehicular paving:
  - i. all paving shall be uniform vehicular quality paving, constructed with appropriate subgrade preparation, sub base, and base to handle all anticipated traffic demands for loading, speed, turning, stopping and starting with no rutting or buckling. The pavement structure shall be engineered to determine the type and thickness of pavement surface course, base, and subbase layers that in combination are cost effective and structurally adequate for the projected traffic loading and site conditions.;
  - ii. hard vehicular paving shall be hard vehicular quality paving, such as asphalt, concrete, unit pavers, or similar. Road construction shall be appropriate for material selected. Refined coal tar sealers shall not be used
- (b) Pedestrian and bicycle paving:
  - i. all paving shall be uniform pedestrian and bicycle quality paving, constructed with appropriate subgrade preparation, sub base, and base, to handle all anticipated traffic demands for loading, speed, turning, stopping and starting with no rutting or buckling.
  - ii. hard paving shall be hard surfaces such as, concrete unit pavers or similar with a three year aged solar reflectance index no less than 0.4. Asphalt paving shall not be used for plazas, pedestrian or bicycle paving;
  - iii. all walking surfaces shall be slip resistant and have a coefficient of friction not less than 0.30. The coefficient of friction will be measured by California Test 342 before pavement is opened to public traffic.

#### **2.2.1.3 Traffic Loading and Dimensions**

Project Site circulation areas shall meet the following traffic loading requirements, as indicated by the Area Data Sheets:

- (a) Roadways, parking and service/loading zones. All vehicular areas shall be structurally designed to accommodate the maximum anticipated vehicle and withstand the anticipated load, speed, size and frequency. Anticipated vehicles include full sized busses and coaches,

and fully loaded fire trucks. All paving designs shall be based on a Traffic Index (TI) calculation. Loading capacity shall not be limited to designated fire lanes.

- (b) All elements within the paved areas, including tree grates, manhole/handhole/valve covers shall be designed to accommodate traffic loading.

#### 2.2.1.4 Project Site Roadway Signage

Developer shall provide all required signage for safe operations and wayfinding for all roadways, parking, pedestrian walkways, and bicycle paths. All pavement markings and roadway signage for circulation roadways shall conform to the requirements of the current edition of the MUTCD.

## **2.3 Site Infrastructure and Utilities**

Developer shall design and construct the Infrastructure in accordance with the requirements of this Section 2.3.

### **2.3.1 General Requirements**

2.3.1.1 All Utilities within the Project Site, all Infrastructure, and all modifications to Existing Infrastructure, shall be designed and sized to accommodate the required capacity of the Facilities and any existing facilities served by such utilities, and shall be designed and constructed in accordance with the PGCPs's construction standards Division 33.

2.3.1.2 Developer shall remove all abandoned utilities within the Building footprint and seal or cap all points of connection to existing utilities. All active utilities within the project site shall be relocated as part of the Project.

2.3.1.3 Underground "wet" utilities shall be buried at a minimum depth of five (5) feet. This exceeds maximum frost depth for the area.

2.3.1.4 Underground "dry" utilities shall be buried at a minimum depth of three (3) feet.

2.3.1.5 The location and use of Facility services and Utilities shall not create visual or safety impacts or impede circulation and all Utility Devices shall be screened from Users' sight.

2.3.1.6 Utility Metering:

- (a) All Utility services shall be provided with meters at individual Buildings to allow for the tracking and monitoring of individual Building usage. Meters for electricity, gas and water shall be provided and installed by Developer. These meters are in addition to any meters provided by utility company for billing purposes.
- (b) Meters shall be Revenue Grade with accuracy of 0.2% or better. All meters shall be connected to the Building Management System for the Project, and shall be capable of continuous reporting.
- (c) For volume based utility services (water and gas) meter shall measure volume, flow and pressure. For electricity, meter shall measure phase volts, phase currents, neutral currents, ground currents, power consumption kWh, adjustable power demand kW, kVA & kVAR, Power Factor, and peak loads. For chilled water, meter shall measure volume, flow, pressure, supply and return temperature, total power (Btu) consumption and peak demand.

2.3.1.7 Utility Corridors

- (a) All utility mains shall be installed within dedicated utility corridors.
- (b) Utility Corridors shall be of a minimum width to accommodate the family of utilities routed within, including utilities outlined in the master plan but not yet installed.
- (c) Utility corridors shall accommodate regulatory-mandated separation between utilities of certain type (e.g. the separation between domestic water and sanitary sewer), and be in accordance with Division 33 of the PGCPs Design Standards.

- (d) For utilities installed at a vertical depth of up to four (4) feet, a minimum of two (2) feet of horizontal clearance shall be maintained on both sides to accommodate excavation for service or repair. Multiple conduits of like service (e.g. Telecom) may be bundled and considered a single utility for spacing purposes.
- (e) For utilities installed at a vertical depth of greater than four (4) feet, one (1) additional foot of horizontal clearance shall be maintained on both sides for every additional two (2) feet of depth, to a maximum of five (5) either side.
- (f) Overhead and peripheral clearance shall be maintained to allow for work by excavating and lifting equipment such as backhoes.
- (g) Utility Corridors shall be placed outside the mature dripline of all planned and existing trees.

#### 2.3.1.8 Utility Devices

- (a) Utility Devices include any device or equipment that forms part of the Utility system, such as transformers, fire hydrants, meters, pressure reducing station and other utility devices ("Utility Devices").
- (b) Visible Utility Devices shall be designed as integral elements of the overall design and housed within the building footprint or visually screened by architectural or landscape screening (e.g. within service yards) to minimize visual impacts or circulation conflicts for Users. Screening or location shall not impair the Utility Device function, access, or maintainability. Screening shall not be used for fire protection devices requiring high visibility.
- (c) Above grade Utility Devices shall be set on concrete pads sized to provide a minimum of three (3) foot hard working surface at any required access points.
- (d) The locations of Utility Devices, delivery areas, and trash collection areas shall be integrated into the building and landscape design concept. Locations shall be shown on design development site plans.
- (e) Utility Devices shall not be allowed near main entrances to a Building.
- (f) A minimum setback of three (3) feet is required for all Utility Devices and fire department connections located behind a curb so as to avoid vehicle impact. In the event that such Utility Devices or fire department connections are exposed to damage or vehicle impact, protection for such elements shall be provided per the International Fire Code and Fire Authority
- (g) Vaults shall not be located on primary walking paths and shall be shown on design development site plans.
- (h) The design location of Utility Devices or other Infrastructure devices that are visible to the Users shall be identified in the Work Submittal Review Process.
- (i) All above grade Utility Devices shall be painted or coated to protect them from corrosion and to minimize their visual presence. Utility Devices shall be of a uniform color and finish. Specific paint or coating shall be subject to the Owner's review and shall be consistent with current Owner's practices.

### 2.3.2 Temporary Utilities

#### 2.3.2.1 General Requirements

- (a) Developer shall obtain temporary Utilities for all Construction Work from the Owner or directly from Utility Owners. Developer shall provide and maintain any necessary temporary structures required in connection with the temporary Utilities.
- (b) Developer shall submit to Owner for Owner's review and approval drawings and plans for temporary Utilities for the Construction Work.
- (c) Developer shall maintain and operate all temporary Utility systems to provide continuous service.
- (d) Developer shall modify and extend existing Utility systems, as required, during the performance of the D&C Work.
- (e) The use and methods of installation of temporary Utilities shall not create unsafe conditions or violate applicable Law.
- (f) Developer shall submit all plans for temporary Utilities to the Owner for review and approval in accordance with the Technical Requirements.
- (g) Developer must comply with PGCP's MS4 permit requirements for stormwater management during construction in accordance with Section 2.3.1

#### 2.3.2.2 Removal and Reconditioning of Temporary Utilities

- (a) All temporary Utilities and associated temporary structures shall be promptly removed at the completion of the Construction Work for which such temporary Utilities and associated temporary structures were required.
- (b) All Utilities shall be restored to their original condition at the completion of Work.

### 2.3.3 All Facilities affected by the Stormwater

#### 2.3.3.1 Stormwater

Developer shall design and construct a stormwater management system at the Project Site in accordance with PGPS Standard Specifications Division 33 and the following requirements:

#### 2.3.3.2 Municipal Permit

- (a) Comply with the requirements found in the most recently adopted "State Water Resources Control Board, National Pollutant Discharge Elimination System (NPDES) General Permit for Waste Discharge Requirements (WDRs) For Storm Water Discharges From Small Municipal Separate Storm Sewer Systems (MS4s) (General Permit)"

#### 2.3.3.3 Post-Construction Requirements

- (a) Comply with Post-Construction Requirements under the Phase II Small MS4 stormwater permit.

#### 2.3.3.4 Construction General Permit

- (a) Comply with the requirements found in the most recently adopted "State Water Resources Control Board, National Pollutant Discharge Elimination System (NPDES) General Permit for Waste Discharge Requirements (WDRs) For Storm Water Discharges Associated with Construction and Land Disturbing Activities (CGP)". Allocation Limits

#### 2.3.3.5 Storm Water Quality



- (a) Site design shall effectively reduce runoff and pollutants associated with runoff from development and pollutant-generating sources.
- (b)
- (a) Developer shall minimize the discharge of pollutants to the MS4 through installation, implementation, and maintenance of BMPs.

2.3.3.6 Lift stations within the stormwater utility are prohibited.

2.3.3.7 Drainage Report. The Developer shall submit a drainage report during design for Owner review and approval.

#### **2.3.4 Potable Water**

Developer shall design and construct a potable water system at the Project Site in accordance with PGPS Standard Specifications Division 33 and the following requirements:

##### **2.3.4.1 Performance Requirements**

- (a) The potable water system shall, at a minimum, provide adequate flow and pressure for the water demand (both “domestic” and “industrial”) and fire demand of each building.

#### **2.3.5 Wastewater**

Developer shall design and construct a waste water management system at the Project Site in accordance with PGPS Standard Specifications Division 33 and the following requirements:

##### **2.3.5.1 Performance Requirements**

- (a) The wastewater collection system shall, at a minimum, provide:
  - i. Design flow velocity in pipe shall be a minimum of two (2) feet per second at average daily flow and a maximum of ten (10) feet per second at peak daily flow.
  - ii. Wastewater pipe at peak daily flow shall have a maximum depth to diameter (d/D) ratio of 0.5.
- (b) Flows of all buildings served shall not exceed the maximum d/D ratio at any point.
  - i. A wastewater pipe at capacity is defined as a pipe flowing with a depth to diameter ratio (d/D) of 0.5 at peak flow.
- (c) Stormwater runoff shall not be conveyed to the sanitary sewer, with the exception of small, outdoor areas used for trash or washdown, in which case the area shall be minimized, served by a grease/sand interceptor, and stormwater run-on eliminated.

2.3.5.2 Lift stations within the wastewater utility are prohibited.

#### **2.3.6 Water For Fire Protection Systems**

2.3.6.1 Developer shall design and construct fire protection systems at the Project Site in accordance with PGPS Standard Specifications Division 33 and the following requirements:

2.3.6.2 Developer’s obligations for fire protection systems are to design and construct a complete fire protection system, including all required connections to existing piped systems for the Project. Developer

shall design and construct all fire protection systems, including fire department connections, as well as fire protection systems within the Buildings in accordance with the following requirements:

- (a) The design shall be undertaken in coordination with the local fire agency.
- (b) The location of fire department connections shall be subject to the approval of the Owner and local fire agency.
- (c) All fire hydrants, post indicator valves, and other fire related Utility Devices, including fire department connections, shall be clearly visible from the street.
- (d) The ports of any wet standpipe fire department connections that are accessible to the Users shall be protected with Knox style caps to prevent vandalism. Otherwise, metal caps are acceptable.
- (e) An inspection of underground installation, back flush, and hydrostatic test shall be conducted by Developer and witnessed by a representative of the Owner prior to backfill.
- (f) Developer shall obtain NFPA 24 inspection and installation certificates prior to acceptance testing and have them signed off by the Owner immediately after acceptance testing and approval.
- (g) Maintain a three (3)-foot clear radius around the fire department connection. Grade variation within this radius shall not exceed 1:12. The fire department connection shall be arranged so that hose lines can be ready and conveniently attached to inlets without interference from any nearby objects including Buildings, structures, fences, posts, landscape planting, or other fire department connections.
- (h) All piping shall be hydrostatic-pressure tested in accordance with the Technical Requirements, and the most recently adopted edition of NFPA 24 Underground piping shall be center-loaded and all fittings, joints, strapping, and thrust blocking shall be exposed for hydrostatic pressure testing and inspection per NFPA 24.
- (i) Fire hydrants shall be placed throughout the Project Site such that the hose lay to a building is no more than three hundred (300) feet, and distance between fire hydrants does not exceed 600 feet.

### **2.3.7 Power**

2.3.7.1 Developer shall design and construct an electrical power system at the Project Site in accordance with PGPS Standard Specifications Division 33

### **2.3.8 Natural Gas Infrastructure**

2.3.8.1 Developer shall design and construct a natural gas system at the Project Site in accordance with PGPS Standard Specifications Division 33

### **2.3.9 Exterior Lighting, Power and Data Systems and Infrastructure**

#### **2.3.9.1 Exterior Lighting**

Developer shall, in accordance with the following requirements, design and construct a safe and sustainable exterior lighting, power, and data system and associated Infrastructure that accommodate pedestrians and nighttime circulation. Developer shall comply with the following requirements:

- (a) Road and Service Lighting: Lighting levels shall be a minimum of 0.9 Foot Candle (FC), with a uniformity ratio of 4:1 or better. Lighting may not be reduced for off hours.
- (b) Parking Lighting: Lighting levels shall be a minimum of 1 FC, with a uniformity ratio of 6:1 or better. Lighting may be reduced to 0.5 FC between 11:00 p.m. and 6:00 a.m., provided adaptive lighting is used to increase lighting when people are present.
- (c) Pedestrian and Bike Lighting: Lighting levels shall be a minimum of 1 FC, with a uniformity ratio of 4:1 or better. Lighting may be reduced to 0.5 FC between 11:00 p.m. and 6:00 a.m., provided adaptive lighting is used to increase lighting when people are present.
- (d) Plaza and Gathering Area Lighting: Lighting levels shall be a minimum of 3 FC, with a uniformity ratio of 4:1 or better. 3 FC is required for events or gatherings. Lighting shall operate at 1 FC in normal usage, and may be reduced to 0.5 FC between 11:00 p.m. and 6:00 a.m., provided adaptive lighting is used to increase lighting when people are present.
- (e) Loading Zone Lighting: Lighting levels shall be a minimum of 30 FC, with a uniformity ratio of 4:1 or better. Lighting may be reduced to 0.5 FC when the loading dock is not in use, provided adaptive lighting is used to increase lighting when people are present.

#### 2.3.9.2 Site lighting shall be designed to follow Project Site landscape design concepts

- (a) All Project Site lighting shall be designed and constructed to at a minimum meet light level and uniformity requirements of the IESNA, except where the Project Transaction Documents require higher levels.
- (b) Project Site lighting shall be designed and constructed to meet the LEED 4.0 Requirements of Sustainable Sites: Light Pollution Reduction.
- (c) Light fixtures shall meet the Backlight, Uplight, Glare (BUG) ratings, in compliance with Illuminating Engineering Society (IES), Technical Memorandum TM-15, for the lighting zone of the site to limit light pollution. Accessible areas within the Project Site shall have a rating of LZ2. All other Areas shall have a rating of LZ0 unless otherwise determined by PGCPs.
- (d) Project Site lighting will be integrated with the BMS for photocell and time schedule control via relay panels.
- (e) Emergency and egress (safety) fixtures shall be coordinated with emergency power requirements and obtain approval from Designated Fire Marshal.
- (f) Lighting sources shall have a color rendering index of eighty (80) or better.

#### 2.3.9.3 Exterior Convenience Power and Data Points

Developer shall provide convenience power outlets and data distribution in accordance with the requirements set forth below:

General Site: Provide exterior grade lockable cover duplex receptacles distributed throughout the site to facilitate site maintenance and public use, including, but not limited to outdoor study, public performance activities, amplified music, food service, etc. Outlet distribution shall be planned based on outdoor space design, with higher density of outlets and circuits where higher activity levels are anticipated.

## **2.4 Building Performance Requirements**

### **2.4.1 General Requirements**

2.4.1.1 Developer shall design and construct the Buildings in accordance with the requirements of the Contract Documents, including, in respect of each Area with the Buildings, the requirements of the applicable Area Data Sheet.

### **2.4.2 Circulation Requirements**

#### **2.4.2.1 Specific Space and Accessibility Requirements**

- (a) The Buildings shall be designed to provide universal access and to conform to all ADA requirements.
- (b) Gender inclusive restrooms, changing rooms and showers.
  - i. For all Buildings, one gender inclusive, ADA compliant restroom shall be required on each floor that has gender specific restrooms.
  - ii. Gender inclusive, ADA compliant changing room shall be required in each Building where gender-specific locker rooms or changing rooms are provided, and shall be located within such locker room or changing room so the User need not leave the locker room or changing room to access such gender inclusive changing room;
  - iii. Gender inclusive, ADA-compliant showers shall be required in each Building in which gender-specific showers are provided. In the event such gender inclusive showers are to be located within a locker room or changing room, such gender inclusive showers shall be located so that the User need not leave the locker room or changing room to access such gender inclusive shower.

## **2.5 Buildings**

### **2.5.1 Structural Systems**

#### **2.5.1.1 General Requirements**

- (a) Building structural frames shall be designed to minimize impact on the Program and visual appearance of the interior of the Buildings. The columns and braces shall not be placed in a manner that will limit interior functional floor area or useable wall area.

#### **2.5.1.2 Foundations**

- (a) The foundations for all Buildings and structures shall be designed and constructed in conformance with the geotechnical investigation report.
- (b) Design and construct perimeter walls for lateral soil, hydrostatic and seismic soil pressures, as designated by Developer's geotechnical investigation report.
- (c) Provide subdrainage systems for below-grade walls to relieve hydrostatic pressure associated irrigation water, or stormwater. Permanent pumped dewatering systems to lower the groundwater table at the site shall not be permitted.

#### **2.5.1.3 Gravity Loads**

- (a) The structural frame of the Buildings shall conform to the design live loads set forth in Table 2.5.1.3-a.

<b>Live Load Requirements for Buildings Structural Design</b>	
<b>Area or Element</b>	<b>Minimum Design Live Load</b>
Laboratory	100 psf plus 35 psf for casework and partitions <sup>1</sup>
Area Types identified as Storage: General	150 psf
Area Types identified as Stairwells	100 psf
All other spaces	80 psf plus 20 psf for partition loads
Rooftop mechanical spaces	Weight of equipment plus 30 psf. Snow loading, including snow drift loading shall be included per ASCE 7-10, with a minimum drift load of 35 psf

**Table 2.5.1.3-a**

- (b) All other design gravity loads shall conform to applicable Law.

### **2.5.2 Minimum Floor-To-Floor Heights**

**2.5.2.1** Floor-to-floor heights shall be designed and constructed to accommodate structural frame and Facility System components concealed within ceiling space in accordance with these Technical Requirements. Maintenance space above ceilings shall not require any special equipment or demolition of ceiling for access.

2.5.2.2 Ceiling height shall be defined as the minimum clear distance between the dominant floor surface, excluding lecture platforms or daises and the dominant ceiling plane. Soffits, beams, light fixtures and fire sprinklers may penetrate below the plane by up to three (3) inches, provided they do not interfere with sightlines or overall room performance, and provided a minimum safe clearance underneath is maintained. Soffits and beams may not comprise more than eight percent (8%) of the total ceiling area.

- (a) For rooms with exposed structure and utilities, the dominant ceiling plane shall be defined as the underside of the lowest element, except that soffits, beams, light fixtures and fire sprinklers may penetrate below the plane by up to three (3) inches.
- (b) For rooms with multiple ceiling planes, the dominant ceiling plane shall be defined as the underside of the lowest ceiling plane, except that soffits, beams, light fixtures and fire sprinklers may penetrate below the plane by up to three (3) inches.
- (c) Ceiling mounted equipment, such as projectors may be located below the dominant ceiling plane, provided they do not interfere with sightlines or overall room performance, and provided a minimum safe clearance underneath is maintained. Acoustic clouds or other treatment may not be placed below the dominant ceiling plane
- (d) Pendant (Direct/Indirect) light fixtures may be used, provided ceiling heights are increased to ensure that the overall appearance and operation of the space is maintained. In general, for ceilings heights of less than twelve (12) feet, ceiling heights will be required to increase by two (2) feet. Ceiling heights from twelve (12) to fourteen (14) will need to increase by one (1) foot.

### 2.5.3 Floor Systems

2.5.3.1 Slab on grade:

- (a) All slabs on grade shall be constructed with under slab vapor barriers with a water vapor permeance no greater than 0.010 perms (0.6 ng/(s m<sup>2</sup> Pa).
- (b) Moisture or waterproofing shall be provided at all slabs subject to ground water
- (c) Physical (non-chemical) termite barriers shall be provided at all slabs where termite activity is possible and where there is a potential for damage to building fabric
- (d) The site shall be evaluated for the presence of Radon or other soil gasses, and appropriate measures shall be implemented including passive or active systems in accordance with ANSI CC-1000 if indicated.

2.5.3.2 All slabs shall be constructed to be suitable for the intended floor finish, and to protect the finish from failure or accelerated deterioration. This shall include

- (a) moisture control, including limiting slab moisture, moisture testing and moisture barriers
- (b) surface smoothness, including elimination of trowel marks and ridges
- (c) crack control through control joints

2.5.3.3 Finish surfaces to the following tolerances, according to ASTM E 1155 (ASTM E 1155M), for a randomly trafficked floor surface:

- (a) For slabs-on-grade, overall values of flatness, F(F) 35; and of levelness, F(L) 25; with minimum local values of flatness, F(F) 24; and of levelness, F(L) 17

- (b) For suspended slabs, overall values of flatness, F(F) 30; and of levelness, F(L) 20; with minimum local values of flatness, F(F) 24; and of levelness, F(L) 15
- (c) Finish and measure surface so gap at any point between concrete surface and an unlevelled, freestanding, 10-ft.- long straightedge resting on two high spots and placed anywhere on the surface does not exceed 1/8 inch.

#### **2.5.4 Building Envelope**

##### **2.5.4.1 General Design Principles**

- (a) Building envelope shall be designed for efficiency, maintainability, security, and privacy.
- (b) All exterior surfaces shall be treated to be readily cleansable from graffiti.
- (c) Building envelope shall be designed to accommodate thermal movement across the range of temperatures normally experienced in Maryland, including solar radiative heating.
- (d) Cladding shall be designed for snow and freeze resistance.
  - i. Provide wall protection at areas where snow might accumulate. Wall protection shall be waterproof and resistant to moisture or freeze/thaw damage.
  - ii. Eliminate thermal bridging at attached exterior elements.
  - iii. Provide snow melt in gutters or other elements subject to damage from repeated freeze/thaw cycles.
- (e) Provide covered or recessed entries at all buildings.

##### **2.5.4.2 General Requirements**

- (a) Exterior cladding shall be designed to provide very high levels of passive thermal performance, including:
  - i. Minimizing air, moisture and vapor leakage
  - ii. Elimination of thermal bridges: provision of continuous layer of insulation
  - iii. Use of high performance glazing with high visual light transmission to reduce lighting loads, and efficient solar shading

##### **2.5.4.3 Building Façade**

- (a) All exterior cladding shall be designed in accordance with Developer's Integrated Pest Management plan, and shall at a minimum:
  - i. ensure that facilities do not provide potential attraction or habitat for pests
  - ii. be designed to exclude pests
  - iii. be designed to facilitate inspection and monitoring of pest activities
- (b) Developer shall utilize structural and procedural modifications to reduce food, water, harborage, and access used by pests.
- (c) All exterior cladding shall be designed to limit dirt/dust accumulation, and to allow cleaning either from ground boom-lift equipment or from roof mounted staging.
- (d) Where sun control devices are used, operable and fixed sun control devices must be used, which allow for ease of maintenance, repair, and replacement. Window washing systems used for the facility must also be compatible with any sunscreens or sun control devices.
- (e) The facilities must have provisions for cleaning the interior and exterior surfaces of all windows, skylights, and other glazed openings. Demonstrate that cleaning and maintenance

of interior glazing surfaces can be achieved without extraordinary means and methods.  
Submit this information with the construction documents.

## **2.5.5 Interior Finishes**

PR1	
PR2	

**Table 2.5.7.1-a**

### **2.5.5.1 General Partitions Requirements**

Any material selected by Developer for partitions, including movable unitized partitions or any other type of partition selected by Developer, shall conform to all requirements, including load requirements, of the Contract Documents.

2.5.5.2 Provide, impact protection as required to protect against scratches, dents, and other surface damage. Wall protection may include use of high impact resistant construction (masonry, etc.) or use of bumper rails, floor bumper rails, corner guards or wall paneling. Impact protection shall be stainless steel, Acrovyn or similar. Impact resistance shall protect the full height of the wall from surface damage. Surface damage is defined as any damage that breaks or deflects the surface finish or reduces its functional or visual performance.

## **2.5.6 Autoclaves and Sterilizers**

2.5.6.1 The Developer shall install the autoclaves and sterilizers noted in the Area Data Sheets and Equipment Lists.

2.5.6.2 Steam supply shall be at the developer's discretion. Developer may install a building level steam boiler and provide steam to autoclaves and sterilizers, or may use local steam generators. Where local steam generators are used they shall not use Assignable Area. Local generators may be located within an autoclave's footprint, or additional room area may be provided.

2.5.6.3 Provide vented hoods at all autoclaves, sterilizers, glass wash/dryers and other heat producing equipment.

2.5.6.4 Provide valved cold water supply to drain outlets to allow for automatic waste water temperature control.

## **2.5.7 Vertical Circulation**

### **2.5.7.1 General Requirements**

- (a) Elevators shall conform to "Division 14 – Conveying Equipment" of PGCP's Building Construction Standards



- (b) Elevators are inspected by the State of Maryland, Elevator Inspectors, Accommodate all associated requirements for design, construction and inspections.

#### 2.5.7.2 Piping

- (a) Sanitary line sloping shall be 2% for piping connected to 1.2 GPF water closets and/or 1.0 GPF urinals

#### 2.5.7.3 Fixtures

- (a) All fixtures shall be low flow and WaterSense labeled. Except for service/utility sinks, dormitories and kitchen/breakrooms, faucets and other water supply devices shall be motion sensor activated wherever possible, or shall include other automatic shut off. Flush valves shall be low flow manually operated flushometers.
- (b) Toilets: Toilets shall be wall hung, vitreous china, siphon jet action, Maximum Performance (MaP) tested by IAPMO to exceed 500g capacity.
- (c) Urinal: Urinals shall be wall hung, vitreous china.
- (d) Lavatory: Wall hung, vitreous china, 20-inch by 18-inch. Sanitary waste traps for equipment shall be "P" type, 17 gauge, cast brass, slip joint nuts, cast brass escutcheons, and cleanout plug. Visible traps shall be chrome plated.
- (e) Sink (Counter Mounted): 18 gauge, type 304 stainless steel sink counter mounted, single bowl, 19-inch by 18-inch by 10-inch deep stainless steel. Deck mounted low flow faucet, lever handle, gooseneck, rigid spout plain outlet. 17 gauge chrome plated 1-1/2-inch by 1-1/2-inch trap.
- (f) Fixtures with metal finishes exposed to and visible by Users shall have a polished chrome finish.
- (g) All fixtures shall be lead free, regardless of if usage is for consumption or not.
- (h) All fixtures shall be vandal resistant.

#### 2.5.7.4 Sewage Systems

- (a) All toilet rooms, laundry rooms and first floor Trash/Recycling rooms shall have floor drains.
- (b) Make all cleanouts accessible. If cleanouts are installed in an accessible ceiling space, the cleanout shall be extended through the floor above. Use graphite on all cleanouts with all threads being thoroughly greased after acceptable pressure test.

#### 2.5.7.5 Emergency Plumbing Fixtures

- (a) Emergency eye or eye/facewash equipment (including appropriate drainage) shall be provided in accordance with the Area Data Sheets. This equipment must meet the performance and installation requirements of American National Standards Institute (ANSI) Z358.1 1998.
- (b) A combination eyewash/emergency shower shall be provided in accordance with the Area Data Sheets. The combination unit must be located so that the travel distance is no more than 10 seconds or 100 feet with no obstructions and only one door to pass through to reach the unit.
- (c) Hand held drench hoses shall not be considered eyewash units. In some cases, a sink-mounted eyewash and a drench hose may be installed in lieu of a combination

eyewash/safety shower. Such cases shall be discussed by Developer's Authorized Representative and the Owner's Authorized Representative.

- (d) All emergency plumbing fixtures shall be:
  - i. supplied by domestic tempered water
  - ii. readily visible and accessible to the laboratory or work site. The unit shall be located as close to the hazard as possible and cannot be blocked by building structures, cabinets, supplies or equipment;
  - iii. provided with an activation device, such as stay open ball valve, that allows the user full movement of both hands after the valve is turned on;
  - iv. identified with a highly visible sign; and
  - v. located so as not to pose an electrical shock hazard. No electrical outlets shall be permitted within six (6) feet unless such electrical outlets are GFI protected.
- (e) In addition to the requirements set forth in Section 2.5.12.10 (d), all eyewash units shall be:
  - i. regulated to provide a spray force of 0.4 gallons per minute at 30 psi;
  - ii. mounted such that the water nozzles are 33 inches to 53 inches from the floor level; height shall also comply with ADA requirements; and
  - iii. mounted so that spray nozzles, when activated, are no more than 18 inches from the counter front when located above work counters or benches.
- (f) In addition to the requirements set forth in Section 2.5.12.10 (d), emergency shower units shall be:
  - i. Installed and located so both the shower and eyewash can be used at the same time by one person;
  - ii. Adequately supplied with potable water to meet the requirements of each component. The shower must be able to deliver a minimum of 20 gallons per minute. The diameter of the water pattern of the shower measured 60 inches above the surface on which the user stands must be a minimum of 20 inches. The center of the spray pattern shall be located at least 16 inches from any obstruction; and
  - iii. Installed so that the shower head is not less than 82 inches or more than 96 inches from the surface on which the user stands.
  - iv. Include floor drains.

#### 2.5.7.6 Rainwater Management

- (a) Open faced downspouts may be used for building rainwater management, provided downspouts along public areas:
  - i. are connected to sub surface storm water systems;
  - ii. occur at articulated corners of the Buildings;
  - iii. are complementary to the architectural style and Building aesthetic in terms of location, profile and color;
  - iv. do not exceed 8" in any dimension; and
  - v. are not used to drain large contiguous and flat roof areas over 18,000 square feet.
- (b) Where downspouts discharge onto paved areas, water flows shall be managed to limit volume and rate of flow to eliminate nuisance flooding. Standing water shall not be

permitted. Sheet flowing water depths shall not exceed 1/8 inch at any point for pedestrian paving and 1/4 inch for vehicular paving.

## **2.5.8 Mechanical Systems**

### **2.5.8.1 General Design Elements**

- (a) HVAC systems for all community spaces (gym, multipurpose room, etc.), health suite, instrumental storage, and main office areas shall be zoned to be able to operate efficiently outside normal school hours, and without requiring operation of other portions of the building. If connected to the central plant, central plant shall be able to be operated efficiently under the lower load. These spaces are often utilized outside of normal school hours and should have systems to limit energy consumption during this time.
- (b) Each classroom shall be a separate thermostatic zone.
- (c) Zones that require powered exhaust by code shall not be grouped with other zones to protect the air balance in the building.
- (d) Buildings shall be balanced to provide 10-15% positive pressurization of all outside air.

### **2.5.8.2 General Requirements**

- (a) Comply with PGCPs Design and Construction Standards
- (b) Developer shall comply with the following Manuals and Guidelines in performing the Work in respect of mechanical systems and associated support system designs:
  - i. ANSI - American National Standards Institute, Inc.;
  - ii. FM - Factory Mutual;
  - iii. UL - Underwriter's Laboratories, Inc.; and
  - iv. SMACNA – Sheet Metal Developer's National Association.
- (c) The Buildings shall also be designed to comply with the following Manuals and Guidelines, except where relevant codes exceed the requirements of the Manuals and Guidelines:
  - i. ASHRAE 55-2017;
  - ii. ASHRAE 62.1-2019; and
  - iii. ASHRAE 90.1-2019.
- (d) The installation or utilization of mechanical systems that use chlorofluorocarbons or hydrochlorofluorocarbons shall not be permitted.

### **2.5.8.3 Ventilation**

- (a) Outdoor air rates shall be the larger of:
  - i. Approved State Building Codes; or
  - ii. ASHRAE Standard 62.1 rates at the breathing level (per LEED EQ credit Enhanced Indoor Air Quality Strategies).
- (b) Outdoor air measurement and control and/or CO<sub>2</sub> sensors are required in accordance with LEED EQ credit Minimum Indoor Air Quality Performance and Enhanced Indoor Air Quality Strategies and Building Code.
- (c) Operable windows shall not be the sole source of ventilation for any occupied space.
- (d) Systems relying on infiltration drawn in by negative pressure from exhaust systems shall not be permitted.

#### 2.5.8.4 General Exhaust Systems

- (a) Exhaust systems shall meet the rates listed in ASHRAE Standard 62.1 except the following higher rates shall be used:
  - i. Toilet rooms (both public and private): 50 cfm per fixture;
  - ii. Shower rooms: 20 cfm per shower head; and
  - iii. Printer/Copy Rooms and rooms with chemical handling shall be exhausted to the outdoors sufficient to maintain a 0.05 inches negative pressure per LEED EQ 5 (Enhanced Indoor Air Quality Strategies). With a minimum of 1 cfm/ft<sup>2</sup>.

#### 2.5.8.5 Filtration

- (a) Air handlers shall include:
  - i. Two (2) inch MERV 8 pleated prefilter. This filter shall serve as a construction filter and be permanently removed post-construction; and
  - ii. Fifteen (15) inch MERV 13 bag filter.
  - iii. Static pressure for central units shall be designed accordingly.
- (b) Fan-coils and other air handlers serving lab areas shall be protected with minimum four (4) inch MERV 8 pleated filters.
- (c) Fan coils serving rooms such as telecom, electrical rooms, utility spaces shall be protected with a minimum two (2) inch MERV 8 pleated filters

#### 2.5.8.6 HVAC Zoning

- (a) All areas of a Building shall be zoned as required to prevent non-uniform temperatures due to variable heat gain from factors including outdoor exposure or variation in people density. Each zone shall have its own thermostat(s) and terminal unit.
- (b) All interior zones shall have heating capability to prevent overcooling except for the following:
  - i. spaces with high internal loads;
  - ii. spaces that are not considered livable per the Approved State Building Codes, such as MDF/IDF rooms and small storage rooms

### 2.5.9 Building Management System

Developer shall install a comprehensive building management system. The BMS installed by Developer shall comply with PGCPs Construction Standards Division 23.

### 2.5.10 Electrical and Lighting Systems

- (c) Floor set power outlets:
  - i. In-floor power outlets shall be recessed or flush as noted in the ADS. Raised or monument outlets shall not be permitted.
  - ii. All flush floor outlets shall have captive/hinged covers that can be held closed by turn screw or similar positive latching mechanism.
  - iii. Recessed outlet boxes shall have hinged covers with wire slots and be large enough to fully enclose any standard 120V plugs, such that the lids close fully when outlets are in use.
  - iv. All outlet boxes and covers shall be corrosion resistant construction and liquid-tight where likely to be exposed to liquid.

#### 2.5.10.1 Generator System

- (a) Emergency Generators shall be installed when required by MEMA Regulations.
- (b) Standby Generators shall be provided to support non-emergency essential loads as noted in the Program Data sheets for a minimum of 24 hours. Essential non-emergency loads include, but are not limited to:
  - i. Security systems, including ACAMS, locks and readers, cameras, etc
  - ii. Alarm and annunciation systems
  - iii. Communications systems, including phones, VOIP, WiFi, Mas Notification, DAS/ERRC/BDA, etc.
  - iv. IT and data systems
  - v. Cafeteria food storage
- (c) MEMA emergency generators and required standby generators may be used to support code mandated emergency loads (emergency lighting, etc). Where such loads are carried by the generator, they shall be included in the fuel capacity calculation such that all connected loads can operate with no load shedding for 24 hours.
- (d) Where installed, generators and associated emergency power systems shall be in full compliance with PGCPs Standard Specification Division 26 for diesel generators
- (e) The emergency and standby generator system must consist of one or more central engine generators and a separate distribution system with automatic transfer switches, distribution panels, lighting panels, and, where required, dry-type transformers feeding 208Y/120V panels.
- (f) The engine generators must be sized to serve approximately 100% of the design load and to run at a maximum of 60% to 80% of their rated capacities after the effect of the inrush current declines. When sizing the generators, the initial voltage drop on generator output due to starting currents of loads must not exceed 15%. Day tanks must be sized for a minimum capacity of 24 hours of generator operation and shall be double-walled. Provide direct fuel oil supply and fuel oil return piping to the on-site storage tank. Care must be exercised in sizing fuel oil storage tanks by taking into account that the bottom 10% of the tank is unusable and that the tank is normally not full (normally at a 70% level) before the operation of the generator.
- (g) Engines and generator sets shall be new
- (h) Generator alarms must be provided on the exterior wall of the generator room. All malfunctions must be transmitted to the BAS. In all buildings, with or without BAS, a generator alarm annunciator must be located within the fire command center. The generator output breaker must have a contact connected to the BAS indicating output breaker position, to allow annunciation of the open position on the BAS.
- (i) Automatic transfer switches must include a bypass isolation switch that allows manual bypass of the normal or emergency source to ensure continued power to emergency circuits in the event of a switch failure or required maintenance.

#### 2.5.10.2 Power Monitoring Systems

- (a) All Facilities shall incorporate power monitoring systems to monitor the total electrical demand load at the service entrance of the Facility.

## 2.5.11 Fire Protection Systems

### 2.5.11.1 Fire Sprinkler Systems

Developer shall design, construct and install a fire sprinkler system that includes, at a minimum, a complete hydraulically calculated automatic wet pipe sprinkler system for entire buildings, in accordance with NFPA 13, Approved State Building Codes and FM Global Fire Code. The system shall also conform to PGCPs design and technical standards.

FP1	
FP2	
FP3	

Table 2.5.16.1-a

### 2.5.11.2 Specific Fire Sprinkler Requirements

- (a) Developer to verify and coordinate requirements by building type with the Fire Authority prior to or with required fire suppression system shop drawing review.
- (b) Coordinate with the overall architectural design to ensure sprinkler head layout addresses interferences and or obstructions requiring special protection, additional piping and heads, or drains. Sprinkler heads shall be placed, as far as possible, within the architectural grid or pattern of the design, and coordinate with the overall architecture of all spaces. Sprinklers shall be symmetrically placed, centered in ceiling tiles, and equidistant between lights, diffusers, and other elements. Sprinklers may be spaced closer than the maximum spacing allowed so that symmetry and even spacing are achieved.
- (c) The maximum permissible flow velocity through automatic sprinkler piping shall be 15.0 feet per second. The minimum starting pressure at the most remote sprinkler head shall be not less than 7 psi.
- (d) Paint all exposed fire sprinkler piping to match wall/ceiling paint color.
- (e) Coordinate routing of sprinkler piping with the other trades for the Project. Main piping runs shall be organized within utility zones where possible to ensure ease of access, renovation or alteration.
- (f) Identify valves and label piping in accordance with NFPA 13 and PGCPs standards. Install stickers applied to the fire sprinkler piping indicating the direction of flow
- (g) Valves in the ceiling or interstitial space shall be located so they are easily accessible by ladder without removing the ceiling grid to access the valves.
- (h) Design shall comply with the Owner's Insurance Underwriters' requirements.

### 2.5.11.3 Sprinkler Heads

- (a) Provide high temperature sprinkler heads in all electrical rooms or other areas with elevated temperatures such as mechanical rooms. Avoid running sprinklers and piping over electrical equipment and electrical panels.
- (b) Provide recessed sprinkler heads in all area. Semi-recessed sprinkler heads are not permitted.

- (c) Provide sprinkler head protection for all heads at exposed ceilings or in areas where heads may be vulnerable to impact from activities in the area below.
- (d) Provide stainless steel or other corrosion resistant heads in all high humidity areas, such as shower rooms and locker rooms and in concealed locations.
- (e) Provide upright type sprinklers for exposed piping, or pendent type heads for concealed piping.
- (f) Use of flexible connectors is permitted. Connector must be UL rated and supported by bracket system connected to the ceiling grid.
- (g) Sidewall Locations: Where required and where approved by the Designated Fire Authority. Sidewall sprinklers are desired for exterior protection to avoid the use of exposed pipe and the requirement for freeze protection.
- (h) Finished Ceilings: Located at all ceilings with lay in acoustical tile ceiling and at plaster or gypsum board type ceilings; Semi recessed sprinkler.
- (i) Ceilings in exterior of Building: Provide sidewall fire sprinkler heads and escutcheons to match ceiling color.
- (j) Where fire sprinkler heads are located in rooms with surfaced mounted lights, provide 2 piece adjustable sprinkler escutcheon, with adjustment from 1-7/8 inches to 3-1/8 inches below finished ceilings. Fire sprinkler drop nipple shall be mounted 2-1/4 inches below the finished ceiling surface.

#### 2.5.11.4 Fire Protection Specialties

- (a) Install drains on main rises and auxiliary drains at all low points in the system. Drains shall be plumbed to the exterior at a location approved by the Designated Fire Authority and in accordance with CDPHE policy.
- (b) One Inspector's test drain shall be installed for each sprinkler system. Drains and Inspector's tests shall be at locations approved by Designated Fire Authority. Inspectors test drains shall be located at a remote location from the riser to facilitate removal of air from the system.
- (c) Provide drain line to sanitary sewer standpipe and P-trap assembly. Drain valves shall be of the angle type. Main drains are to be run into the sanitary sewer, not all drains. The drain shall be sized to accommodate the full flow of the main drain.
- (d) Pipe drain valves to a floor sink or to the other receptors. Discharge shall be visible from sight drain fittings or open end drain pipe. Provide flushing connections at ends of all cross mains. Inspectors test valves and main drains shall not be run into floor sinks. Auxiliary drains may be run into floor sinks, but not drains requiring flow tests such as main drains and inspector's test valves.
- (e) Freeze protection must be provided for all exterior pipes and any pipe that is located in exterior soffits or spaces that do not insulate the sprinkler pipe from freezing.
- (f) Combined standpipe systems (Class I Standpipes combined with a wet fire sprinkler riser): The 2 1/2" fire department outlets that are accessible to the public shall be provided with Knox caps.
- (g) Fire sprinkler risers shall not be located in custodial spaces or storage rooms.

## **2.5.12 Fire Protection and Life Safety Alarm System**

- (a) Fire Protection and Life Safety Systems Components
  - i. Developer shall design, construct and implement a fire protection and life safety system (a “**Fire Alarm System**”) that includes, at a minimum, the following components:
    - 1. fire alarm control panel;
    - 2. initiating devices;
    - 3. fire alarm notification devices;
    - 4. mass notification devices;
    - 5. fireman’s remote annunciator panel (FRAP) with remote microphone; and
    - 6. fire alarm auxiliary equipment control.
- (b) Systems with Connections to the Fire Alarm System
  - i. The following systems, at a minimum, shall be connected to the Fire Alarm System:
    - 1. Automatic extinguishing systems alarm system flow switches, valve monitors and post indicating valves;
    - 2. elevator controllers for recall;
    - 3. door hold-open/closure devices without integral smoke detectors;
    - 4. fire barrier roll-down and shutters;
    - 5. fire/smoke dampers;
    - 6. fire pump controller to monitor status;
    - 7. duct mounted smoke detectors and programmable relays;
    - 8. Gas detection systems or any hazardous materials monitoring systems; and
    - 9. Flow alarms to emergency showers.
- (c) Fire Alarm System shall meet all requirements of PGCPs Technical Standards.
- (a) Fire Protection and Life Safety Alarm System: General Requirements The Fire Alarm system shall be in full compliance with PGCPs Standard Specification 284600 Fire Detection and Alarm System

## **2.5.13 Mass Notification Requirements**

### **2.5.13.1 General Requirements**

The Mass Notification System shall include the following:

- (a) The system shall be capable of the reproduction of prerecorded, synthesized, and live messages with voice intelligibility from two (2) locations; within each building and from Campus Dispatch. Two-way communications systems are not required.
- (b) The system shall provide Layer 1 (in-building emergency communication system) and Layer 2 (wide area MNS) in accordance with NFPA 72.
- (c) The system design shall be based on a risk analysis and assessment by a third party in collaboration with the Designated Fire Official and Public Safety with consideration of each building's use and risks, as well as any exterior spaces such as parking lots, outdoor assembly areas, etc. Prior to system design, the Risk Analysis must be reviewed and approved by the Designated Fire Official and Public Safety.



- (d) The system shall provide seamless, integrated operation from Campus Dispatch with the capabilities of issuing an individual building message or simultaneously delivering a campus-wide message (Layer 1 and Layer 2 simultaneously) for the existing and new portions of the campus.
- (e) The MNS shall be compatible with existing equipment in Central Plant and Campus Dispatch.
- (f) The Designated Fire Official shall approve the sequence of operation for the MNS prior to final design.
- (g) The system shall be integrated with any developer provided PA or other sound reinforcement system in such a manner that it can over-ride or mute audio signals. The system shall also provide input feed for any Owner-provided PA or sound reinforcement system.

## **2.5.14 Security Systems and Infrastructure**

### **2.5.14.1 Access Control and Alarm Monitoring Systems (ACAMS)**

- (h) Developer shall develop and implement a Security System that utilizes an ACAMS platform that utilizes the same software versions being currently utilized in the Existing Campus.
- (i) The ACAMS system shall be in full compliance with PGCPs Standard Specification 281000 Access Control

### **2.5.14.2 Video Surveillance System**

- (a) Developer shall procure and install video monitoring in accordance with the Area Data Sheets to provide comprehensive video surveillance. The locations and positioning of the video surveillance cameras shall be determined in consultation with the Owner during the design review process, but shall include, at a minimum the areas noted in section the education specifications
- (b) Video Surveillance System shall be in full compliance with PGCPs Standard Specification 280000 Electronic Safety and Security

### **2.5.14.3 Emergency Responder Radio Coverage (ERRC)/Bi Directional Amplifiers (BDA)/Distributed Antenna System (DAS)**

- (a) Developer shall provide emergency responder radio coverage (ERRC) for all Facilities in accordance with Approved State Building Codes. The ERRC shall be provided by installation of an amplified distributed antenna system, bi directional amplifier, or other acceptable signal amplification technology approved by code or by the Designated Campus Fire Marshal.

## PGCPS ACF TECHNOLOGY PACKAGES

Updated 8/19/2020

Type	Item	Purc	Coord	Install	O&M	Notes
Building Service (Data and Phone)	Incoming Services - Coordinate with IT	D	D	V	P	
Building Service	Rigid conduit to MDF x 4 inch	D	D	D	D	
Building Service	TV Service	D	D	V	P	
Building Service	TV Distribution System	D	D	D	D	
Building Service	Back-up generator (fly wheel)	D	D	D	D	
Energy Management	BAS Controllers	D	D	D	D	Coordinate with PGCPs maintenance for product.
Energy Management	Cabling for BAS	D	D	V	P	
Multi-purpose rooms AV (Cafetorium/Music/Dance/Media center/Gym/Choral)	Cabling	D	D	D	D	
Multi-purpose rooms AV (Cafetorium/Music/Dance/Media center/Gym/Choral)	Electronics	D	D	D	D	
Phones	Rack	P	D	V	P	
Phones	Cabling	D	D	V	P	
Phones	Jacks	D	D	V	P	
Phones	Faceplates	D	D	V	P	
Misc.	Computers	P	P	V	P	
Misc.	Copiers	P	P	V	P	
Misc.	PoE Clock	D	D	V	P	
Category 6A Cabling	Category 6A Cabling	D	D	V	P	
Category 6A Cabling	Conduits	D	D	D	D	
Category 6A Cabling	Patch Panels	D	D	V	P	
Category 6A Cabling	Jacks	D	D	V	P	
Category 6A Cabling	Faceplates	D	D	V	P	
Category 6A Cabling	Patching	D	D	V	P	
Fiber	Multi-Mode Fiber	D	D	V	P	
Fiber	Connectors	D	D	V	P	
Fiber	Fiber Enclosures	D	D	V	P	
Fiber	Patching	D	D	V	P	
Closet	Rack	D	D	V	P	
Closet	Ladder Runway	D	D	V	P	
Closet	Vertical Wire Managers	D	D	V	P	
Closet	Servers	P	P	V	P	
Network Equipment	Controller	D	D	V	P	
Network Equipment	Network Switches	D	D	V	P	
Network Equipment	Wireless Access Points	D	D	V	P	
Network Equipment	Programming	D	D	V	P	
Network Equipment	UPS	D	D	V	P	
AV	Bell System	D	D	D	P	
AV	PA System	D	D	D	P	
AV	Audio Enhancement System	D	D	V	P	
AV	Cabling (Audio Enhancement)	D	D	V	P	
AV	Interactive Panels	D	D	V	P	
AV	Cabling (Interactive Panels)	D	D	V	P	
AV	Projectors	D	D	V	P	
AV	Non-Interactive Displays	D	D	V	P	
CCTV	Cameras	D	D	D	D	Genetech certified installer.
CCTV	Switches	D	D	V	P	
CCTV	Programming	D	D	D	D	Genetech certified installer.
Access Control	Door Contacts	D	D	D	D	Genetech certified installer.
Access Control	Card Readers	D	D	D	D	Genetech certified installer.

## PGCPS ACF TECHNOLOGY PACKAGES

Updated 8/19/2020

Type	Item	Purc	Coord	Install	O&M	Notes
Access Control	Electronic Strike	D	D	D	D	Genetech certified installer.
Access Control	Proximity Exit Sensor	D	D	D	D	Genetech certified installer.
Access Control	Motion Sensor	D	D	D	D	Genetech certified installer.
Intercom	Intercom	D	D	D	D	Front Door.
Intercom	Cabling	D	D	V	D	
MDF/IDF	Conduits	D	D	D	D	
MDF/IDF	Cabling	D	D	V	D	

### Key

D	Developer
V	Required Vendor
P	PGCPS

**FF&E LIST**

**Introduction**



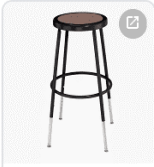



PGCPS does not currently have an adopted furniture standard. The tabs in this spreadsheet should provide some guidance to the type and quality of the movable furniture PGCPS expects. Pictures are provided as visual examples but should not be construed to represent a particular vendor or model. All furniture will be purchased through a PGCPS vapproved vendor.





The first four tabs provide guidance on the most common furniture items. These items should be consistent through the school and across schools.







The remaining tabs address unique furniture or movable equipment and are arranged according to the sections in the educational specification.






Every attempt has been made to identify all the furniture or movable equipment in the educational specification; however, if an item has been overlooked, the educational specification supercedes this document and must be provided.

On occasion, a furniture item may be more efficiently provided as a built-in. This is acceptable as long as the requirements listed are met.



Chairs	Example	Requirements	Where	In addition	comments
Student chair		Smooth Cantilever Chair 15 gauge steel tubing base with textured enamel shell seat; flex back; no chair baskets for PK-5.	All classrooms and small group rooms		PreK 13" height Grades 1-4 15" height Grades 5-8 18" height
Swivel chair		Swivel chair; 19 1/4 " with no wheels or lockable wheels	Computer work stations		No swivel chairs in PK-K
Stool		Adjustable height stool; 15 gauge steel tubing base	Art and Stem Labs		Adjustable height swivel chair for Science Teacher
Teacher chair		Swivel/tilt adjustable height; integral arms; consider 19" mesh back	All classrooms and small group rooms		
Admin chair (ergonomic)		Swivel/tilt adjustable height; integral arms; consider 27" mesh back	All offices and conference rooms		


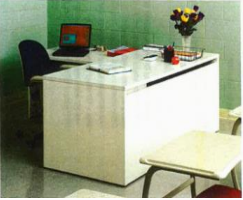



Chairs	Example	Requirements	Where	In addition	comments
Principal Chair		Swivel/tilt adjustable height; integral arms; 27" back; Leather	Principal office		
Side or guest chair		15 gauge steel tubing base with textured seat and back and integral arm; 17 1/2 to seat height; medium to dark color	Most offices and reception		
Music posture chair		16 gauge tube frame with molded polypropylene seat; 18 1/2 " seat; folding tablet arm	Music classrooms		Wenger preferred
Stackable chair		23.0"D x 21.0"W x 32.25"H	Cafetorium		Chair cart match to chair option
Soft seating		Medium to dark colors; wood or no arms; no loose cushions	media center and teacher lounge		
Alternative seating		Swivel (no wheels) seating for high top tables or benches; ball seats for computer work stations; rocking stools	Throughout the school		



Tables and Desks	Example	Requirements	Where	In addition	comments
Student desks		25x27x18 top Adjust. height	All classrooms and small group rooms	Standing desks	
Science Lab desk		72" Height x 36" Width x 18" Depth	Science labs		May be option for STEAM lab
Art table		Four person 54w x64l x33.75h; Wood block top; storage below; on casters	Art Room STEAM	Note: Elementary art tables are two person tables with adjustable legs	
Work Tables		High wear laminate top with integrated edges; 36"x 72"; adjustable legs	Classrooms, admin area		42" diameter laminate top
Computer Workstations		30d X60l X 28h	Resource rms, media center		optional use in STEAM lab


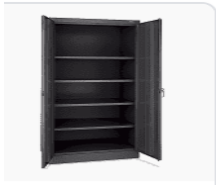



Tables and Desks	Example	Requirements	Where	In addition	comments
Media Center tables		15 Gauge steel base with high impact laminate top in a variety of shapes	Media Center		Consider a couple of high top tables and bench tops (maybe at windows)
Cafeteria tables		Folding uniframe with seats attached; on casters; may be round or rectangular	Dining Area		Some cafeteria tables must be for K-3 children who typically eat together as a class (24-26)
Printer Table					
Mobile teacher's cart			Classrooms		








Tables and Desks	Example	Requirements	Where	In addition	comments
Horseshoe table		adjustable table legs; lamine top w/ 15 gauge metal legs	PK-5 classrooms and small group areas		
Primary grades table		48' X 24"; adjustable table legs; lamine top w/ 15 gauge metal legs	PK-K classrooms and small group areas; Optional tables vs chairs in Grade 1		






Admin Desks	Example	Requirements	Where	In addition	comments
teacher desk		Rectangular work surface with mobile file pedestal; 30" x 66"; casters with modesty panel	Classrooms, small group spaces		
admin desk #1		Desk (30"X66"); Return (24" X 42"); mobile pedestal box (right or left)	Offices unless otherwise specified		
admin desk #2		Conference L shaped desk; Height: 730mm, Width: 2100mm; note; right or left flexibility	Assistant principals and guidance counselors		An alternative would be a desk and small circular table
principal's desk		Office suite - wood - desk, bookshelf, small conference table	Principal's office		
Side table		20x20x20	Teacher's lounge, reception, guidance		

Conference table		60x144x42x29h; with electric and data connections	Conf rooms with one table		36x84 or 42 X 83; 16 gage base with laminate top for flexible configurations
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Casework	Example	Requirements	Where	In addition	comments
Teacher wardrobe		Metal or wood laminate or built-in 36"W x 22"D x 72-84"H; lockable	All classrooms, small group rooms		May be built-in
Cabinets		Metal or wood laminate or built-in 36"W x 18"D x 72-84"H; adjustabe shelves, lockable	Science, art		See science tab for glass front cabinet
Bookcases		Metal or wood laminate or built-in; Size to fit room design	Classrooms, small group areas, offices		May be built-in
File cabinets		Metal - four drawer vertical	Classrooms, small group areas, offices		Fire safe files in record storage; lateral files only in low use settings; leveled at installation
Cubbies		Wood -11" cubbies; 14" deep X 52" H for PK and K; 14" deep X 60" H for Grades 1-5	All classrooms - PK-5		Cubbies may be buit-in casework

Main Office and Guidance	Example	Requirements	Where	In addition	comments
Display Case		Safety glass with adj. shelves	Both Lobbies		
Electronic display		75" - 86" wall signage	Both Lobbies		
Two drawer under desk file cabinet		metal, two draw on casters	Reception		See typical admin desk configuration as an option
Display Rack			Reception		
Small safe		3-4 Cu. Ft.; fire resistant	Main office		

# Health Suite Space and School Based Health Center

	Example	Requirements	Where	In addition	comments
Changing Table	TBD				
Cots		72" L x 20" H x 29" W. 300 lbs. capacity	Health suite		
Exam Table		Seamless upholstery ; one step adjustable back	Health suite		
Lamps		Reading lamp; metal, LED	Health suite		
Privacy Curtains		mesh top/solid panel; flame retardant, antimicrobial polyester	Health suite		
Refrigerator		Full size refrigerator with ice maker	Health suite		

**Built-In Fixtures**

<b>Kitchen</b>	<b>Requirements/Representative Example</b>
<b>Description</b>	
Hand Sink	
Soap & Towel Dispenser	
Walk In Cooler/Freezer	
Cooler Refrigeration System	
Freezer Refrigeration System	
Prep Sink	
Floor Trough	
Tilting Skillet 30-Gallon	Items #20 and #21 below
Comb Oven	Items #16 and #17 below
Convection Oven	Items #3, #4, #5, and #6 below
Counters for serving with Cashier's Stand	
Pot Washing Sink	

**Loose Furnishings**

<b>Kitchen</b>	<b>Requirements/Representative Example</b>
<b>Description</b>	
Utility Cart, Mobile	
Dunnage Rack	
Shelving, Mobile	
Can Rack, Mobile	
Worktable	Item #22 below
Pan Rack Cart, Mobile	
Reach-Refrigerator, Mobile	Item #12 below
Pass-Thru Heated Cabinet, Mobile	Item #1 below
Pass-Thru Refrigerator, Mobile	Item #11 below
Milk Cooler, Mobile	Items #7, #8, #9, and #10 below
Refrigerated Display Merchandiser	
Cash Register	
Condiment Counter, Mobile	
Pot & Pan Shelving, Mobile	
Railing	

ITEM NUMBER	ITEM DESCRIPTION
1	<b>Metro heated cabinet. Model number C569-SDS-UA.</b> Provide heated cabinet with top-mounted Controls. Cabinet Material: Type 304 stainless steel; 20-gauge polished exterior; 22-gauge interior. • Insulation: Full perimeter, 2.5" thick, high-density fiberglass. R Value=9.9 • Casters: Four casters with 6" donut neoprene wheel, double ball bearing swivel, ball bearing axle, nickel plated, two with brake. Doors: Solid Dutch doors fully insulated, double-panel construction. • Hinges: Self-closing, lift-off, double hinged, with long-life nylon bearings. • Gaskets: High temperature, cabinet mounted, Santoprene gaskets. • Latches: Two chrome plated, high-strength magnetic pull latches with lever-action release. • Handles: Four built-in polymer handles. • Universal Slides: Universal wire slides; 1 /4" diameter nickel chrome wire adjustable on 11 /2" increments. Type 304, stainless steel vertical uprights. • Display and Controls: Analog cabinet thermometer with independent thermostat control knob. • Heat Generation System: Thermostatically controlled 1950 Watt heating element, ball bearing blower motor, and ducted air system. • Cord: 71 /2' cord with NEMA 5-20P plug. Cord mounted on top • Thermal Performance: 200° F maximum temperature. Unit shall come with 2-year parts and labor warranty. Unit shall be ENERGY STAR compliant
2	<b>Continental 1 section pass-thru warmer with half doors. Model number DL1W-PT-HD.</b> Provide 1 section pass-thru warmer with 4 half doors, Stainless Steel Interior and Exterior including doors, Self-Contained Performance-Rated Heating System, 90°F to 180°F Temperature Range, Unique Air Flow Distribution Ducts, Top Mounted Heating Plenum "Plug" with Circulating Fan, 3" Non-CFC Polyurethane Foam Insulation, Smooth, Polished Chrome Workflow Door Handles, Cam-Action, Lift-Off Hinges, Tray Slides (9 top, 6 bottom), Stainless Steel Strip Heaters (Located at the Base of the Interior), Magnetic Snap-In Door Gasket, Cylinder Lock in Each Door, 6" Locking Casters, Self-Closing Doors, Automatic Interior Lighting, Electronic Controller w/Digital Display & Hi-Low Alarm, 26” wide, 83 ¼ Height. Unit shall come with 3 year parts and labor warranty.
3	<b>Southbend single stack electric convection oven. Model number KLES/10SC.</b> Provide standard sized Energy Star compliant electric convection oven, 11kW high efficiency heating elements, standard depth. Single deck convection oven is 55” in height with legs and casters, Patented “plug-in, plug-out” control panel, Slide out control panel for full view servicing, Stainless Steel front, sides and top, Dependent 2-piece stainless steel glass doors (Full 180° opening),Energy saving high efficiency glass windows, Heat keeping dual door seal system, Coved, fastener-free, porcelain interior, Stay cool heavy duty door handle, Two speed, 1/2 hp, fan motor, 11-position rack guides and 5 plated oven racks, Solid state thermostat and 60 minute mechanical cook timer, Forced cool down fan mode, Oven “heat” light cycles with burners, Two 40 watt interior high temperature recessed lamps, Manual reset high limit temperature control, Control Panel located on front, at right side of oven, away from heat zone, unit shall come installed with 26” Stainless steel, triangular legs with 6” locking casters. Unit shall have 3 year parts and labor warranty and 5 year door warranty. <b>280/408</b>
4	<b>Southbend double stack electric convection oven. Model number KLES/20C.</b> Provide standard sized Energy Star compliant double stack electric convection oven, 11kW high efficiency heating elements, standard depth. Double deck convection oven is 64.8” in height with casters, Patented “plug-in, plug-out” control panel, Slide out control panel for full view servicing, Stainless Steel front, sides and top, Dependent 2-piece stainless steel glass doors (Full 180° opening),Energy saving high efficiency glass windows, Heat keeping dual door seal system, Coved, fastener-free, porcelain interior, Stay cool heavy duty door handle, Two speed, 1/2 hp, fan motor, 11-position rack guides and 5 plated oven racks, Solid state thermostat and 60 minute mechanical cook timer, Forced cool down fan mode, Oven “heat” light cycles with burners, Two 40 watt interior high temperature recessed lamps, Manual reset high limit temperature control, Control Panel located on front, at right side of oven, away from heat zone, unit shall come installed with 6” locking casters. Unit shall have 3 year parts and labor warranty and 5 year door warranty. <b>280/408</b>










5	<b>Southbend single stack gas convection oven. Model number KLGS/17SC .</b> Provide standard sized Energy Star compliant single stack gas convection oven with 3 ft. ¾ inch quick-connect flex gas hose. Oven shall have patented, high efficiency, non-clog Inshot burners, 53,000 BTU (NAT or LP), standard depth single deck convection oven is 57-1/2” in height with 6” casters, “plug-in, plug-out” control panel, easy to service slide out control panel for full view servicing, stainless steel front, top and sides, dependent glass doors (Full 180° opening), energy saving high efficiency glass windows , heat keeping dual door seal system, coved, fastener-free, porcelain interior, stay cool heavy duty door handle, soft air, two speed, 1/2 hp, fan motor, 11-position rack guides and 5 plated oven racks, electronic ignition with solid state temperature controls, 140°F to 500°F solid state thermostat and 60 minute mechanical cook timer. Forced cool down fan mode, oven “heat” light cycles with burners, interior oven lights, Unit shall have 3 years parts and labor warranty and 5 year door warranty, Unit shall come installed with 26” Stainless steel, triangular legs with 6” locking casters. Unit shall come with ¾ inch, 3 ft. quick disconnect flexible gas hose.
6	<b>Southbend double stack gas convection oven. Model number KLGS/27SC.</b> Provide standard sized Energy Star compliant double stack gas convection ovens with 3 ft. ¾ inch quick-connect flex gas hose. Both compartments shall have patented, high efficiency, non-clog Inshot burners, 53,000 BTU (NAT or LP), standard depth single deck convection oven is 66.8” in height with 6” casters, “plug-in, plug-out” control panel, easy to service slide out control panel for full view servicing, stainless steel front, top and sides, dependent glass doors (Full 180° opening), energy saving high efficiency glass windows , heat keeping dual door seal system, coved, fastener-free, porcelain interior, stay cool heavy duty door handle, soft air, two speed, 1/2 hp, fan motor, 11-position rack guides and 5 plated oven racks, electronic ignition with solid state temperature controls, 140°F to 500°F solid state thermostat and 60 minute mechanical cook timer. Forced cool down fan mode, oven “heat” light cycles with burners, interior oven lights, Unit shall have 3 years parts and labor warranty and 5 year door warranty, Unit shall come installed with 6” locking casters. Unit shall come with ¾ inch, 3 ft. quick disconnect flexible gas hose for each unit
7	<b>Continental 34" single access forced air milk cooler. Model number MC3-SS-S.</b> Provide 34” single access, forced air milk cooler. Unit must NSF approved. Milk Cooler shall have stainless steel exterior and interior, heavy-duty stainless-steel lid, door hinges, latches, with reinforced stainless-steel floor. Unit shall come with forced air, performance-rated refrigeration system, environmentally-safe R134a refrigerant, easily serviceable, bottom mounted compressor, and built-in, electric condensate evaporator. Cabinet shall consist of 2” high-density, non-CFC polyurethane foamed-in place insulation, snap-in door and lid gasket, non-corrosive, heavy-duty, epoxy-coated steel wire floor racks, door cylinder security lock, and 5” swivel caster with front locking brakes. Unit shall have electronic controller with digital display and hi-low alarm, floor drain with connected floor drain hose, have a 10 ft. long cord with plug, and unique forced air flow curtain. Unit will come with a 3 year parts and labor warranty and a 5 year compressor warranty
8	<b>Continental 34" dual access forced air milk cooler with low profile evaporator. Model number MC3-SS-D.</b> Provide 34” dual access, forced air milk cooler. Unit must NSF approved. Milk Cooler shall have stainless steel exterior and interior, heavy-duty stainless steel lids, door hinges, latches, with reinforced stainless steel floor. Unit shall come with forced air, performance-rated refrigeration system, environmentally-safe R134a refrigerant, easily serviceable, bottom mounted compressor, and built-in, electric condensate evaporator. Cabinet shall consist of 2” high-density, non-CFC polyurethane foamed-in place insulation, snap-in door and lid gasket, non-corrosive, heavy-duty, epoxy-coated steel wire floor racks, door cylinder security lock, and 5” swivel caster with front locking brakes. Unit shall have electronic controller with digital display and hi-low alarm, floor drain with connected floor drain hose, have a 10 ft. long cord with plug, and unique forced air flow curtain. Unit will come with a 3 year parts and labor warranty and a 5 year compressor warranty
9	<b>Continental 49" single access forced air milk cooler. Model number MC4-SS-S.</b> Provide 49” single access, forced air milk cooler. Unit must NSF approved. Milk Cooler shall have stainless steel exterior and interior, heavy-duty stainless-steel lid, door hinges, latches, with reinforced stainless steel floor. Unit shall come with forced air, performance-rated refrigeration system, environmentally-safe R134a refrigerant, easily serviceable, bottom mounted compressor, and built-in, electric condensate evaporator. Cabinet shall consist of 2” high-density, non-CFC polyurethane foamed-in place insulation, snap-in door and lid gasket, non-corrosive, heavy-duty, epoxy-coated steel wire floor racks, door cylinder security lock, and 5” swivel caster with front locking brakes. Unit shall have electronic controller with digital display and hi-low alarm, floor drain with connected floor drain hose, have a 10 ft. long cord with plug, and unique forced air flow curtain. Unit will come with a 3 year parts and labor warranty and a 5 year compressor warranty






10	<b>Continental 49" dual access forced air milk cooler with low profile evaporator. Model number MC4-SS-D.</b> Provide 49" dual access, forced air milk cooler. Unit must NSF approved. Milk Cooler shall have stainless steel exterior and interior, heavy-duty stainless-steel lids, door hinges, latches, with reinforced stainless-steel floor. Unit shall come with forced air, performance-rated refrigeration system, environmentally-safe R134a refrigerant, easily serviceable, bottom mounted compressor, and built-in, electric condensate evaporator. Cabinet shall consist of 2" high-density, non-CFC polyurethane foamed-in place insulation, snap-in door and lid gasket, non-corrosive, heavy-duty, epoxy-coated steel wire floor racks, door cylinder security lock, and 5" swivel caster with front locking brakes. Unit shall have electronic controller with digital display and hi-low alarm, floor drain with connected floor drain hose, have a 10 ft. long cord with plug, and unique forced air flow curtain. Unit will come with a 3 year parts and labor warranty and a 5 year compressor warranty
11	<b>Continental 1 Section (2 Section) pass-thru refrigerator with half doors. Model number 1(2)RNSSPTH.</b> Provide and install 1-section(2-Section) Energy Star qualified pass-thru refrigerator. Unit shall have stainless steel interior and exterior including doors, self-contained, performance-rated "plug" refrigeration system, environmentally-safe R-290 refrigerant, top of cabinet refrigeration system accessibility, 3" non-CFC polyurethane foam insulation, smooth, polished chrome workflow door handles, cam-action, lift-off hinges, 11 tray slides per half section, automatic hot gas condensate evaporator, expansion valve system, magnetic snap-in door gasket, cylinder lock in each door, 5" casters, self-closing doors, LED interior lighting, electronic controller w/digital display & Hi-Low alarm, 21 cu.ft, 26" wide, 38-3/4 in. deep, 82-1/4 in. high, 4 half doors, 10 ft attached cord with plug, Unit shall come with 3 year parts and labor warranty and 5 year compressor warranty.
12	<b>Continental 2 section reach in refrigerator. Model number 2RNSS.</b> Provide and install 2-section Energy Star qualified 2 section reach in refrigerator with 2 full doors with condensate pan. Unit shall have stainless steel interior, exterior, and doors, Self-Contained, Performance-Rated "Plug" Refrigeration System, Environmentally-Safe R-290 refrigerant, top of cabinet refrigeration system accessibility, 3" Non-CFC Polyurethane Foam Insulation Smooth, Polished Chrome Workflow Door Handles, Cam-Action, Lift-Off Hinges, 6 Heavy-Duty, Epoxy-Coated Steel Shelves, Automatic, Electric Condensate Evaporator, Magnetic Snap-In Door Gaskets, Cylinder Lock in Each Door, 5" Casters, Self-Closing Doors, LED Interior Lighting, Electronic Controller w/Digital Display & Hi-Low Alarm, 48 cu. ft, 52" wide, 35-3/8 in. deep, 82-1/4 in. in height with 5" casters, 10 ft attached cord with plug, Unit shall come with 3 year parts and labor warranty and 5 year compressor warranty.
13	<b>Continental 2 section reach in freezer. Model number 2F-SS.</b> Provide and install 2-section Energy Star qualified 2 section reach in freezer with 2 full doors with condensate pan Unit must be NSF approved. Unit shall have two full size doors and a minimum net capacity of at least 46 cubic feet. The interior and exterior including the doors shall be stainless steel and will have polyurethane insulation throughout. Each door will have an integrated handle, spring assisted self-closing hinges. The unit shall have LED lighting with proximity door switches and 3 epoxy coated wire shelves per cabinet section. The refrigeration system shall be hermetically sealed, air cooled, and located on top of the cabinet. All condensate water will be disposed of with a non-electric condensate evaporator. Unit shall feature an LED temperature indicator an audio/visual alarms for temperature, power interruption, door ajar. Unit will go into energy saving mode when the doors have not been opened for four hours. Unit shall come mounted on 4" casters. Unit will come with a 3 year parts and labor warranty and a 5 year warranty for the compressor
14	<b>Cleveland 2 compartment gas steamer. Model number 25CGA10.2ES.</b> Unit shall be a two compartment gas steamer with SteamSaver™ Technology and Energy Star approved, Independent steam generators, 50,000 BTU's input per compartment. "SureCook" electro mechanical timer with load compensating feature. Gas valve and water level control system. Exclusive remote probe-type water level controls. Exclusive Brass "Steam Jet" distribution system. Two-piece free-floating compartment door. Pullout service drawer for controls and Gemini Drain/Power Control System. Cooking Capacity for up to ten 12" x 20" x 2 1/2" deep Hotel Pans, five each compartment. Cabinet exterior and cooking compartments shall be 14 gauge, 304 stainless steel. Unit shall come with quick-connect flex ¾ inch, 3 ft. gas hose and water filtration system specific to water composition based on test results conducted and provided by vendor. Unit will come with at least 2 year parts and labor warranty

15	<b>Cleveland 2 compartment electric steamer. Model number 24CEA10.</b> Unit shall be a two compartment floor model electric steamer with twin electric atmospheric steam generator, 32 KW input. Remote probe type water level controls Steam generator with automatic water fill on start-up. Automatic generator blowdown, 2 each 16.5 KW fire bar heating elements. Cold water condenser design. Unit must distribute steam through high velocity jets without using fans. Cabinet exterior and cooking compartments shall be Type 430 stainless steel. Unit shall come with water filtration system specific to water composition based on test results conducted and provided by vendor. Unit will come with 2 year parts and labor warranty. <b>208/480</b>
16	<b>Rational combination gas convection oven/steamer. Model number SCC-102-G.</b> Unit shall be an Energy Star Qualified combination convection oven / steamer with simple to operate programmable controls for Hot Air, Convection Steam, and Combination cooking modes, slow cooking capabilities, multiple cooking stage programs, stored recipe library, multipoint core temperature probe, one step recipe start buttons, smart key for selecting option settings. Five speed auto reversing convection fan. Delta T cooking. Quiet high efficiency power burner heating system; door with antibacterial hygienic door handle. Must have the capacity to hold up to ten 12" x 20" x 2 ½" pans. Unit shall come with hands free automatic compartment washing system, stand, provided water filtration system specific to water composition based on test results conducted by vendor, ¾ in, 3 ft. quick connect flex gas hose, 10 wire racks, and sheet tray adapter bar. WiFi diagnostic capability. Unit will come with 2 year parts and labor warranty and 5 year generator warranty
17	<b>Rational combination electric convection oven/steamer. Model number SCC-102-E.</b> Unit shall be an Energy Star Qualified combination convection oven / steamer with simple to operate programmable controls for Hot Air, Convection Steam, and Combination cooking modes, slow cooking capabilities, Multiple cooking stage programs, stored recipe library, multipoint core temperature probe, one step recipe start buttons, smart key for selecting option settings. Five speed auto reversing convection fan. Delta T cooking, Quiet high efficiency power burner heating system; door with antibacterial hygienic door handle. Must have the capacity to hold up to ten 12" x 20" x 2 ½" pans. Unit shall come with hands free automatic compartment washing system, stand, provided water filtration system specific to water composition based on test results conducted by vendor, at least 10 wire racks, and sheet tray adapter bar. WiFi diagnostic capability. Unit will come with 2 parts and labor warranty and 5 year generator warranty. <b>240/480</b>
18	<b>Garland heavy duty electric range . Model number 36E.</b> Unit be a heavy duty electric range with boiling plate top. Top will consist of two 18" boiling plates with four heat zones, each controlled by three-heat switch. Full Sized oven is controlled by a heavy duty electromechanical thermostat. Oven interior shall be approximately 13" high x 26" wide x 29" deep with removable four-position chrome plated rack guides and one oven rack, front and rear stainless steel grease troughs. Oven body will have stainless steel front and sides. Unit shall have four polyurethane swivel casters with front brakes. Manufacturer training (repair and maintenance) provided for County equipment maintenance employees. Unit will come with 2 year parts and labor warranty
19	<b>Southbend heavy duty open burner gas range. Model number S24C.</b> The unit shall be a 24-3/8" wide restaurant style range with four (4) 28,000 BTU NAT (24,000 BTU LP) open-top burners with four (4) removable cast iron grate tops. The exterior of the unit shall be constructed of stainless steel and have a 4" stainless steel front rail with closed, welded end caps. The unit shall have 6" casters. The unit shall come with a 10" high stainless-steel flue riser. The unit shall come with a factory installed regulator and ¾" 3 ft. quick disconnect flexible gas hose. The unit shall come with an aluminized cabinet base with doors. Must have one unit available in-house for immediate delivery defined as within 72 hours of receipt of Purchase Order. Unit will come with 2 year parts and labor warranty
20	<b>Cleveland 30 gallon gas tilt skillet. Model number SGL-30-T1</b> Complete with Dual Power Setting, Normal and High Power Cooking Controls, Power Burner (Forced-Air) Gas Combustion System, Automatic Ignition, Splash-Proof Construction, Spring Assist Cover with Vent, Gallon/Liter Markings, 5/8" Stainless Steel Clad Cooking Surface with Bead Blasted Finish, Easy to use Manual Hand Tilt with Enclosed Permanently Lubricated Gearbox, Adjustable Feet with Rear Flanged and Front Bullet Style. Shall also include the following: 2" (50 mm) Tangent Draw-Off Valve (TD2SK), left side only • Single Pantry Faucet (SPS14), includes Faucet Mounting Bracket • Faucet Bracket (FBKT1) • Hot & Cold Water Pre-Rinse Spray Head with Hose (PRS-S)

21	<b>Cleveland 30 gallon electric tilt skillet. Model number SEL-30-T1.</b> Complete with Thermostatic and Safety Controls, Gallon/Liter Markings, 5/8" Stainless Steel Clad Cooking Surface with Bead Blasted Finish, Easy to use Manual Hand Tilt with Enclosed Permanently Lubricated Gearbox, Spring Assist Cover with adjustable Vent, Adjustable Feet with Rear Flanged and Front Bullet Style, Gallon/Liter Markings and Splash Proof Controls. Shall also include the following: 2" (50 mm) Tangent Draw-Off Valve (TD2SK), left side only • Single Pantry Faucet (SPS14), includes Faucet Mounting Bracket • Faucet Bracket (FBKT1) • Hot & Cold Water Pre-Rinse Spray Head with Hose (PRS-S) • Protective Control Cover (CP-PCB-T1) <b>240/480 V</b>
22	<b>Advance Tabco stainless steel work table. Model number SS-306 or approved equal.</b> Provide fully assembled work table, 72"L x 30"W x 34H" Work Height, 14 gauge 304 stainless steel flat top with bull nose edge, 18 gauge stainless steel undershelf installed 10" above the floor, stainless steel legs & adjustable bullet feet, NSF, two year warranty.

Media Center	Example	Requirements	Where	In addition	comments
Book Case on Casters		48" includes casters	Commons		
Peripheral Book case		37x12x60; adjustable, solid 1/4" wood shelving	Commons		Linear FT total for 12,000 volumes
Flat files			workroom		
Circulation Desk		modular - or	Commons		Typically Casework
Head End Room	Consult PGCPs instructional technology for detailed list		Head end room		Snowier Thrower, Ariens, 520E (Oracle #6832); gammet racks

Media Center	Example	Requirements	Where	In addition	comments
Charging Station/tables		outlets for up to 3 devices; counter edge standing height	catetorium, media center, colaborative areas in corridors		
Picture Book Shelvs on casters			Primary Library		
Seating for PK-2		Alternative seating 13-15" height	Primary Library		tables are optional

Multi-Media (\$30,000 Cap)	Example	Requirements	Where	In addition	comments
Audio and Video Mixer and recording package		All-in-one turnkey digital TV studio system (sound mixer, audio and video switchers, computer with double monitor and speakers, SSD recording, earphones, microphones (handheld and lapel)	control room		
Studio camera		Includes a teleprompter	studio	w/ Tripod on wheels	A minimum of two
Lights		Fresnel lantern - 200 W	studio		A minimum of two
Zoom LiveTrak L-8 2-Person Podcasting Kit with 8-Channel Mixer					
Tricast Mini		HD4			
Achor Desk'	Space for three students				

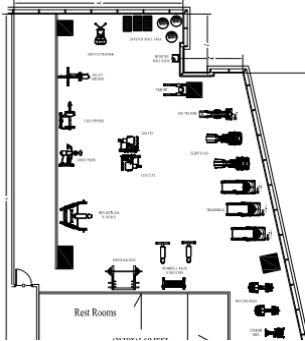








Studio set-up for live production (news, interviews, small performances) includes green screen, over head lighting grid, and mobile furniture .






The control booth (pictured) has a digital mixer with the ability to do multitrack recording and a video switcher for live production. This technology in the control booth allows those creating media projects to direct the production in the multimedia studio










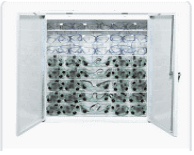


Physical Education	Example	Requirements	Where	In addition	comments
Display cases and electronic board - see admin tab			Lobby		
Portable sound system		Microphone, amp, speakers for gymnasium	Gym		
Fitness equipment		treadmill (3), elliptical (2),stationary bikes (3), dumbbell rack and benches(2), Precor glide w/ bench, chest press, leg curl, leg ext., leg press, high lat/mid row, arc trainer, VKR dip, medicine ball rack, kettle ball rack, stretch ball rack	Wellness Lab		
Heavy Duty washer (top load)		5.3 Cu Ft.	laundry		
Heavy Duty Dryer		8 Cu Ft.	laundry		
Ice machine		75 pound capacity	laundry		



Performing Arts	Example	Requirements	Where	In addition	comments
Portable Acoustical Shell			Performing art/stage		
Keyboard stands			Choral		
Music stands		Deck height: 13.5" Deck Width: 20" Heights range from 25" x 49"	performing arts		
piano		Digital; Height: 44 1/2" (113 cm) Width: 59" (150 cm) Depth: 24" (61 cm)	choral		
podium		Base: 43"W x 38"d x 6"H Upper: 32" W x 38" D x 6" H	performing arts		



Performing Arts	Example	Requirements	Where	In addition	comments
Sheet music storage		32" w x 14" d x 23" h	performing arts		
Sound equipment cart		for recording and replay equipment; on casters; typically 40" X 18-21"; adjustable shelving	performing arts		
Risers		Light weight, eay fold, on wheels; 150 lb per SF load	choral		

Athletics	Example	Requirements	Where	In addition	comments
Goal Posts and Nets (Soccer and lacrosse)		8' X24' (soccer) 6'X6' (lacrosse)	Generic field		
Backstops			Baseball and softball		
Home plate			Baseball and softball		
Team and spectator benches			Baseball, softball and soccer/football		
Manual score boards					
Security fencing					





Science	Example	Requirements	Where	In addition	comments
Storage Cabinet		36" W X 84" H; One with glass front, one with solid door - both lockable	Lab		
Chemical Storage		One per school - lockable for acids	Prep Room		
Flamable Storage		one per school - lockable and vented to the outside; single door	Prep Room		
Fire Blanket		18" W x 16" H x 5¼" D	Lab		
First Aid kit		For 50 people	Lab		





Science	Example	Requirements	Where	In addition	comments
Fire Extinguisher			Lab		
Duckless fume hood		one per school	Prep Room		
Goggle Storage and Sanitizer			Lab		
Glassware Drying Rack		for beakers and other glassware	Prep Room		
High heat oven (optional)		one per school	Prep Room		
Mobile Demonstration Table with utilities		Tables are 28"x48" and 36" high	Lab		



Science	Example	Requirements	Where	In addition	comments
Under Counter Refrigerator		Width: 23.625" Height: 34.125" Depth: 23.75"	Prep Room		
Shower and eye wash station		ADA-Compliant (tamper proof cord to avoid students activating unless authorized)	Lab		




STEAM	Example	Requirements	Where	In addition	comments
Tote Tray Cabinet		Tray dimensions: 19" W x 14 1/2" D x 3 1/2" H	STEAM Lab		
Work Benches		24" X 72"; peripheral	STEAM Lab		
Mobile work table		48" X 60"; wood; on casters	STEAM Lab		Tables need access to electricity
Goggle storage - see science					



Special Education	Example	Requirements	Where	In addition	comments
Rifton positioning Chair					Equivalent to 'Rifton' considered
Changing Table		height adjustable; up to 300 lbs.			privacy curtain in not in the restroom
Hoyer Lift		height adjustable; up to 450 lbs			
Mobile art cabinet					

Visual Ars	Example	Requirements	Where	In addition	comments
Cabinet Drying Rack		30"H x 20"W x 15"D.	art room		
Display panels		72" W x 38" H	art room		
Kiln		Model e23T-3 Easy-Fire Automatic Kiln with with Multi-Program Three-Zoned DynaTrol mounted in an easy-open cool-firing piggy-back control panel that is angled for easy viewing of control. Kiln comes with hard ceramic element holders, protected thermocouples, strong solid-top stand, easy-lift spring hinge, and solid peephole plugs. 22-3/8" diameter by 27" high (6.7 cubic feet). 3" K23 brick. NEMA 6-50 single phase or 15-50 three phase 6 foot power cord included. C-MET-us listed in the USA & Canada. Cone 10 for all voltages.	kiln room		minmum of 2 per school
Greenware Shelves			kiln room		
Prject Storage - See STEAM		Trays: 10" x 15" x 20"))			

Visual Ars	Example	Requirements	Where	In addition	comments
Light table			art room		
Project Storage		3D storage 10" high X 15 " deep (30); and flat storage (30 min.)			

Site	Example	Requirements	Where	In addition	comments
Flag Pole		40-45 ' tall	Front of school		
School Marquee Sign		Signs should be in full color and not black & white, double-sided for visibility by both directions of traffic and include software for school updating of information & include broadband communication	By the school entrance	2018 Quote: \$36 K - sign only	Additional wayfinding signs with PGCPs Format
Bike Racks		Stainless Steel Grid Rack; 60"x43x31" for a 10 bike rack	Visiable from the school (main entrance) and near student walkways; a covered overhang would be ideal.		Racks should support a minimum of 40 bikes

Lockers	Example	Requirements	Where	In addition	comments
Lockers corridor		Double high, 12" X 12" X30"; HDPE (high-density polyethylene) lockers; external locking	Classroom corridors		Space saver Day Locker (metal) 24" or 36" high
Lockers PE		Locker size 12"x12" X 15" deep; venting; external locks	PE locker room		
Adult Lockers		Metal 24"	Kitchen and Maintenance		