### Bookmark Summary

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### High School

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### Area Summary

**HS Summary-8**  
Rev. 00.00.0000

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<tr>
<td></td>
<td><strong>Subtotal</strong></td>
<td></td>
<td></td>
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</tr>
<tr>
<td><strong>22</strong> Maintenance Cluster</td>
<td>A. Shop Area</td>
<td>1</td>
<td>520</td>
<td>520</td>
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</tr>
<tr>
<td></td>
<td>B. AFM Office</td>
<td>1</td>
<td>80</td>
<td>80</td>
<td></td>
</tr>
<tr>
<td></td>
<td>C. Storage</td>
<td>1</td>
<td>400</td>
<td>400</td>
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<td></td>
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<td></td>
</tr>
<tr>
<td></td>
<td><strong>Total</strong></td>
<td></td>
<td></td>
<td>1,793,155</td>
<td></td>
</tr>
</tbody>
</table>
1. General Educational Requirements

**HS0-1.1 General Requirements**

1. A school sign should be provided. The sign should be designed in concert with the exterior finishes of the school building and the features of the school site, within local municipal guidelines/requirements. It should be located to be highly visible from the surrounding roads and sidewalks. The sign should be relatively maintenance-free. All other specifics regarding the design of the sign will be determined during the design of the project, and in coordination with the WCPSS Senior Facility Planner assigned to the project and the Director of Planning & Design.

2. Demising walls between classrooms/teaching spaces shall extend to underside of deck.

3. Security system design shall follow WCPSS Design Guidelines for minimum requirements, but each school must be reviewed by senior WCPSS facility planner and security staff assigned to that school for site-specific needs.

4. In developing the site for a new school, or when providing a capital improvement project at an existing school, it is important to consider how students will get to school in the morning and return home after the school day has ended. It is always the goal of WCPSS to ensure the safety of students, no matter how they travel to and from school each day. Refer to HS20-Site “Design Considerations” for additional requirements.
1. General Educational Requirements

HS1-1.1 Objectives

1. Develop a foundation for lifelong learning upon which later courses in specific subject areas can build.
2. Help students develop positive attitudes and effective patterns of inquiry in problem solving.
3. Create a supportive environment for collaborative teaching and learning.
4. Integrate 21st Century literacy's/technology into all curricula.
5. Provide enrichment opportunities to allow students to explore elective areas such as the arts, foreign languages and vocational offerings.
6. Facilitate better parent/student/teacher interaction through individual and group conferences.
7. Provide space that is flexible for both large and small groups.
8. Provide video production space for taping, producing, and editing videotapes, and teach video production electives including video yearbook.

HS1-1.2 Trends

1. Computers will be increasingly used in the following teaching situations:
   a. Simulations of situations that would be expensive, difficult or impossible to create in the traditional classroom or laboratory.
   b. Creation of differentiated instruction to accommodate various learning styles and interests.
   c. Access to multimedia learning environments.
   d. Performing complex calculations with the computer to allow more time for interpretation, critical thinking and discussion of data.
   e. Using the computer network to access information from wide-ranging sources and collaborate on projects.
2. Emphasis on group projects and cooperative effort.
3. Advanced technological equipment such as video microscopes, electronic balances and satellite dishes.
4. Cooperative educational strategies between the school, the professional and working communities.
5. Heterogeneous grouping including physically, mentally and emotionally differently abled students.
6. Less emphasis on details, specific information and vocabulary and more emphasis on ideas, problem solving and thinking skills.
7. Discussion and exploration of ethical and moral questions arising from exploration in the various subject areas.
8. Teacher acting as a facilitator and advisor rather than a disseminator of information. Shift from teacher demonstrations to student experimentation and from rigidly structured exercises to open inquiry to better prepare the student to ask questions later in life.
9. Decision-making and problem solving will be increasingly emphasized in process-based instruction and assessment.
10. Available technology will revise our definitions of "school" and "teacher", and impact the relationship between teacher and learner. Teachers will move toward facilitating and helping students identify resources and strategies, rather than dispensing information.
11. Computers and advanced technology will become the norm rather than the exception and will become more affordable. Adequate technology resources are essential; as integrated video and telecommunications tools are merged into a more creative and user friendly synthesis.
12. Increased use of laptop computers will impact how we use, store, and access information, as well as how we plan space for computer stations.
13. More class time will be spent doing experimentation with a goal of 50% experimentation and 50% lecture/whole class time.
14. Video Production: Increased use of video as instructional format, and sharing of resources with other private and public educational institutions and business groups.

**HS1-1.3 Activities and Enrollment**

1. Whole group presentation as well as small group activities.
2. Listening, viewing, speaking and experimenting.
3. Individual and class projects and displays.
4. Collection and representation of data.
5. Computer enhanced instruction.
6. Ideally, 75%-80% of science classroom time will be devoted to laboratory and field exercises, though this is greatly dependent upon the curricula and the methods employed by each teacher.
7. Record, organize and research data utilizing data banks and computers.
8. Present, defend, and discuss findings.
9. Collect and care for living biological specimens (i.e. plants and animals).
10. Work on library techniques.
11. Individual and team experimentation.
12. Maximum anticipated class size is 32 students.
13. Maximum teacher/pupil ratio is 1:30 for English, Social Sciences, Foreign Languages and Math.
14. Smallest class: 14 -- largest class: 32
15. Lab teams consist of 2 to 4 students.
16. Video Production: CR used to stage video productions, live broadcasts, small group instruction related to equipment and techniques, and for faculty to produce instructional tapes and materials. Activities include taping, editing, set production, lighting, instruction, and still photography. Class size approximately 16 students in multiple stations.
2. Space Overview

HS1-2.1 Required Spaces

Reference:

<table>
<thead>
<tr>
<th>Identifier</th>
<th>Space</th>
<th>Quantity</th>
<th>Area Each (SF)</th>
<th>Area Total (SF)</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>General Classrooms</td>
<td>47</td>
<td>850</td>
<td>39,950</td>
</tr>
<tr>
<td>B</td>
<td>Student Government</td>
<td>1</td>
<td>200</td>
<td>200</td>
</tr>
<tr>
<td>C</td>
<td>General Ed Support Classrooms</td>
<td>1</td>
<td>1,000</td>
<td>1,000</td>
</tr>
<tr>
<td>D</td>
<td>Multipurpose Classroom</td>
<td>1</td>
<td>1,500</td>
<td>1,500</td>
</tr>
<tr>
<td>E</td>
<td>Video Production/Edit</td>
<td>1</td>
<td>260</td>
<td>260</td>
</tr>
<tr>
<td>F</td>
<td>Video Equipment Storage</td>
<td>1</td>
<td>50</td>
<td>50</td>
</tr>
</tbody>
</table>

Total                                                                                      52 42,960

HS1-2.2 Design Considerations

1. Grouping of general classrooms and science class / labs should be flexible enough to accommodate grade level "houses" or subject level "departments".
2. Space Overview (continued)

HS1-2.3 Adjacency Diagram:

General Ed. Support CR:

```
  Corridor
  |     |
  Door  Door

Primary Wall     Storage Wall
Secondary Wall   Windows   Secondary Wall
```

Multipurpose Classroom:

```
  Corridor
  |     |
  Door  Door

Primary Wall     Storage Wall
Secondary Wall   Windows   Secondary Wall
```

(Corridor) Video Production/ Edit CR Video Equip. Storage
A-3. Physical Requirements

**HS1-A-3.1 Space(s):**

**A. General Classrooms**

**HS1-A-3.2 Use:**

1. Whole group and small group projects and presentations.
2. Computer and telecommunications activities.

**HS1-A-3.3 Special Criteria:**

1. Classrooms should support a variety of teaching styles. Classroom arrangement
2. The design must be able to accommodate changes in technology over the life of the classroom.
3. Attractive learning spaces convey the message that classroom activities are valuable.
4. In locating and sizing windows consideration should be given to potential glare on the television and computer screens and the need to control light.

**HS1-A-3.4 Finishes and Features:**

<table>
<thead>
<tr>
<th>General Notes:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Floor:</td>
<td>Carpet</td>
</tr>
<tr>
<td>Floor Transitions:</td>
<td></td>
</tr>
<tr>
<td>Base:</td>
<td>Resilient top-set base</td>
</tr>
<tr>
<td>Walls:</td>
<td>Painted CMU / gypsum wallboard</td>
</tr>
<tr>
<td>Ceiling:</td>
<td>Acoustical ceiling panels</td>
</tr>
<tr>
<td>Ceiling Height:</td>
<td>9'-4&quot;</td>
</tr>
<tr>
<td>Doors:</td>
<td>Provide door with small vision panel.</td>
</tr>
<tr>
<td>Windows:</td>
<td></td>
</tr>
</tbody>
</table>

**HS1-A-3.5 Casework & Special Features:**

**General**

1. Window blinds at all exterior windows.
2. One synchronized wall-hung clock with batteries.

**CR Primary Wall:**

1. See [HS-1 Appendix 1](#) for typical teaching wall requirements.

**CR Secondary Wall:**

1. One (1) 4'-0" x 6'-0" white marker board with tack strip.
2. One (1) 4'-0" x 4'-0" tackboard (near door to corridor).
3. Provide one (1) tack strip 12" above the white marker board.

**Storage Wall:**

1. 12"D x approx. 44 LF x (varies with windowsill height) H bookshelves with adjustable, open shelves.

**HS1-A-3.6 Furniture, Fixtures & Equip.:**

(Provided by Owner's Furniture & Equipment Specialist, see room data sheets)
HS1-A-3.7 **Instruc. Mat & Equipment:**

(Provided by Owner's Inst. Mat. & Equip. Specialist, including presentation tech. (LCD projector, smartboard, etc.), classroom computers, tablets, printers, TV brackets, etc.)

HS1-A-3.8 **Mechanical Criteria:**

HS1-A-3.9 **Electrical Criteria:**

**Power:**

1. Provide two (2) duplex outlets on each wall.
2. See [HS-1 Appendix 1](#) for typical teaching wall requirements.
3. Provide two (2) duplex outlets on casework wall.

**Lighting:**

1. Lighting switching must take into consideration the student's ability to take notes when classroom is darkened for AV presentations.
2. Locate lighting controls conveniently for the instructor to adjust light level as needed.

**Data & Other:**

1. Locate intercom handset near door to corridor.
2. See [HS-1 Appendix 1](#) for typical teaching wall requirements.
3. Provide a data outlet on each of the three remaining walls.
4. Provide a data outlet above ceiling for Owner-provided wireless access point.

HS1-A-3.10 **Technology Criteria:**

1. Refer to [HS-1 Appendix 1](#) for teaching wall diagram.
B.3. Physical Requirements

HS1-B-3.1 Space(s):

B. Student Government

HS1-B-3.2 Use:

1. Meeting and work area for student government officers.

HS1-B-3.3 Special Criteria:

1. Set up as conference room with cabinets on one wall.

HS1-B-3.4 Finishes and Features:

<table>
<thead>
<tr>
<th>General Notes:</th>
<th>Carpet</th>
</tr>
</thead>
<tbody>
<tr>
<td>Floor:</td>
<td>Carpet</td>
</tr>
<tr>
<td>Floor Transitions:</td>
<td></td>
</tr>
<tr>
<td>Base:</td>
<td>Resilient top-set base</td>
</tr>
<tr>
<td>Walls:</td>
<td>Painted CMU / gypsum wallboard</td>
</tr>
<tr>
<td>Ceiling:</td>
<td>Acoustical ceiling panels</td>
</tr>
<tr>
<td>Ceiling Height:</td>
<td>9'-4&quot;</td>
</tr>
<tr>
<td>Doors:</td>
<td>Provide door with small vision panel.</td>
</tr>
<tr>
<td>Windows:</td>
<td></td>
</tr>
</tbody>
</table>

HS1-B-3.5 Casework & Special Features:

General

1. Window blinds at all exterior windows.
2. One (1) 4'-0" x 4'-0" tackboard.
3. One (1) 4'-0" x 4'-0" white marker board.
4. One synchronized wall-hung clock with batteries.

HS1-B-3.6 Furniture, Fixtures & Equip.:

(Provided by Owner's Furniture & Equipment Specialist, see room data sheets)

HS1-B-3.7 Instruc. Mat & Equipment:

(Provided by Owner's Inst. Mat. & Equip. Specialist, including presentation tech. (LCD projector, smartboard, etc.), classroom computers, tablets, printers, TV brackets etc.)

HS1-B-3.8 Mechanical Criteria:
HS1-B-3.9  Electrical Criteria:

Power:
1. One (1) duplex outlet per wall.
2. Two (2) additional duplex outlets for computers.

Lighting:

Data & Other:
1. Two (2) 2-port data outlets associated with computer duplex outlets.
2. Intercom speaker only.

HS1-B-3.10  Technology Criteria:
C.3. Physical Requirements

HS1-C-3.1 Space(s):

C. General Ed. Support Classrooms

HS1-C-3.2 Use:

1. Whole group and small group projects and presentations.
2. Computer and telecommunications activities.

HS1-C-3.3 Special Criteria:

1. Classrooms should support a variety of teaching styles. Classroom arrangement should be easily reconfigurable to accommodate different learning activities, presentations and interaction styles.
2. The design must be able to accommodate changes in technology over the life of the classroom.
3. Attractive learning spaces convey the message that classroom activities are
4. Provide common moveable partition to divide room into two (2) classrooms of 500 SF each, with one door from corridor into each space.
5. In locating and sizing windows consideration should be given to potential glare in the room and the need to control light.

HS1-C-3.4 Finishes and Features:

<table>
<thead>
<tr>
<th>General Notes:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Floor: Carpet</td>
</tr>
<tr>
<td>Floor Transitions:</td>
</tr>
<tr>
<td>Base: Resilient top-set base</td>
</tr>
<tr>
<td>Walls: Painted CMU / gypsum wallboard</td>
</tr>
<tr>
<td>Ceiling: Acoustical ceiling panels</td>
</tr>
<tr>
<td>Ceiling Height: 9'-4&quot;</td>
</tr>
<tr>
<td>Doors: Provide door with small vision panel. Provide two doors from corridor.</td>
</tr>
<tr>
<td>Windows:</td>
</tr>
</tbody>
</table>

HS1-C-3.5 Casework & Special Features:

**General**

1. Window blinds at all exterior windows.
2. Operable Partition to divide classroom.
3. Two (2) synchronized wall-hung clocks with batteries.

**CR Primary Walls:**

1. See [HS-1 Appendix 1](#) for typical teaching wall requirements.

**CR Secondary Walls:**

1. One (1) 4'-0" X 6'-0" white marker board with tack strip.
2. One (1) 4'-0" x 4'-0" tackboard (near door to corridor).
3. Provide one (1) tack strip 12" above the white marker board.
Storage Walls: 1. 12"D x approx. 44 LF x (varies with window sill height) H
bookshelves with adjustable, open shelves.

HS1-C-3.6  Furniture, Fixtures & Equip.: (Provided by Owner's Furniture & Equipment Specialist, see room data sheets)

HS1-C-3.7  Instruc. Mat & Equipment: (Provided by Owner's Inst. Mat. & Equip. Specialist, including presentation tech. (LCD projector, smartboard, etc.), classroom computers, tablets, printers, TV brackets etc.)

HS1-C-3.8  Mechanical Criteria:

HS1-C-3.9  Electrical Criteria:

Power: 1. Provide two (2) duplex outlets on each wall.
2. See HS-1 Appendix 1 for typical teaching wall requirements.

Lighting: 1. Lighting switching must take into consideration the student's ability to take notes when classroom is darkened for AV presentations.
2. Locate lighting controls conveniently for the instructor to adjust light level as needed.

Data & Other: 1. Locate intercom handset near door to corridor.
2. See HS-1 Appendix 1 for typical teaching wall requirements.
3. Provide a data outlet on each of the three remaining walls.
4. Provide data outlet above ceiling for Owner-provided wireless access point.

HS1-C-3.10  Technology Criteria: 1. See HS-1 Appendix 1 for technology layout requirements.
D-3. Physical Requirements

**HS1-D-3.1 Space(s):**

D. Multipurpose Classroom

**HS1-D-3.2 Use:**

1. Whole group and small group projects and presentations.
2. Computer and telecommunications activities.

**HS1-D-3.3 Special Criteria:**

1. Classrooms should support a variety of teaching styles. Classroom arrangement should be easily reconfigurable to accommodate different learning activities, presentations and interaction styles.
2. The design must be able to accommodate changes in technology over the life of the classroom.
3. Attractive learning spaces convey the message that classroom activities are
4. Provide operable partition to divide room into 2 classrooms of 750 SF each, with one door from corridor into each space.
5. In locating and sizing windows consideration should be given to potential glares in the room and the need to control light.

**HS1-D-3.4 Finishes and Features:**

<table>
<thead>
<tr>
<th>General Notes:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Floor:</td>
<td>Carpet</td>
</tr>
<tr>
<td>Floor Transitions:</td>
<td></td>
</tr>
<tr>
<td>Base:</td>
<td>Resilient top-set base</td>
</tr>
<tr>
<td>Walls:</td>
<td>Painted CMU / gypsum wallboard</td>
</tr>
<tr>
<td>Ceiling:</td>
<td>Acoustical ceiling panels</td>
</tr>
<tr>
<td>Ceiling Height:</td>
<td>9'-4&quot;</td>
</tr>
<tr>
<td>Doors:</td>
<td>Provide door with small vision panel. Provide two doors from corridor.</td>
</tr>
<tr>
<td>Windows:</td>
<td></td>
</tr>
</tbody>
</table>

**HS1-D-3.5 Casework & Special Features:**

**General**

1. Window blinds at all exterior windows.
2. Operable Partition to divide classroom.
3. Two (2) synchronized wall-hung clocks with batteries.

**CR Primary Walls:**

1. See [HS-1 Appendix 1](#) for typical teaching wall requirements.

**CR Secondary Walls:**

1. One (1) 4'-0" X 6'-0" white marker board with tack strip.
2. One (1) 4'-0" x 4'-0" tackboard (near door to corridor).
3. Provide one (1) tack strip 12" above the white marker board.
Storage Walls: 1. 12”D x approx. 44 LF x (varies with window sill height) H bookshelves with adjustable, open shelves.

HS1-D-3.6 Furniture, Fixtures & Equip.: (Provided by Owner's Furniture & Equipment Specialist, see room data sheets).

HS1-D-3.7 Instruc. Mat & Equipment: (Provided by Owner's Inst. Mat. & Equip. Specialist, including presentation tech. (LCD projector, smartboard, etc.), classroom computers, tablets, printers, TV brackets etc.)

HS1-D-3.8 Mechanical Criteria:

HS1-D-3.9 Electrical Criteria:

**Power:**
1. Provide two (2) duplex outlets on each wall.
2. See [HS-1 Appendix 1](#) for typical teaching wall requirements.

**Lighting:**
1. Lighting switching must take into consideration the student's ability to take notes when classroom is darkened for AV presentations.
2. Locate lighting controls conveniently for the instructor to adjust light level as needed.

**Data & Other:**
1. Locate intercom handset near door to corridor.
2. See [HS-1 Appendix 1](#) for typical teaching wall requirements.
3. Provide a data outlet on each of the three remaining walls.
4. Provide data outlet above ceiling for Owner-provided wireless access point.

HS1-D-3.10 Technology Criteria:
1. See [HS-1 Appendix 1](#) for technology requirements and layout.
E-3. Physical Requirements

HS1-E-3.1 Space(s):

**E. Video Production/Edit.**

HS1-E-3.2 Use:

1. Control for studio productions.
2. Workspace for editing video/audio tapes.

HS1-E-3.3 Special Criteria:

1. Direct access from Multi-purpose CR and corridor.
2. Sound isolation from corridor.

HS1-E-3.4 Finishes and Features:

<table>
<thead>
<tr>
<th>General Notes:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Floor: Carpet</td>
</tr>
<tr>
<td>Floor Transitions:</td>
</tr>
<tr>
<td>Base: Resilient top-set base</td>
</tr>
<tr>
<td>Walls: Painted CMU / gypsum wallboard</td>
</tr>
<tr>
<td>Ceiling: Acoustical ceiling panels</td>
</tr>
<tr>
<td>Ceiling Height: 9'-4&quot;</td>
</tr>
<tr>
<td>Doors: Provide door with small vision panel.</td>
</tr>
<tr>
<td>Windows: Non-glare window approximately 6' W x 4' H between this space and Multipurpose CR. Sill height to be 34&quot; AFF.</td>
</tr>
</tbody>
</table>

HS1-E-3.5 Casework & Special Features:

**General**
1. Window blinds at all exterior windows.
2. One (1) synchronized wall-hung clock with batteries.

HS1-E-3.6 Furniture, Fixtures & Equip.: (Provided by Owner's Furniture & Equipment Specialist, see room data sheets).

HS1-E-3.7 Instruc. Mat & Equipment: (Provided by Owner's Inst. Mat. & Equip. Specialist, including sound board, editing equipment, monitors, etc.)

HS1-E-3.8 Mechanical Criteria:

1. Ensure sufficient cooling is provided considering equipment loads.
HS1-E-3.9  Electrical Criteria:

Power:
1. Provide continuous outlet strips at counter height on wall adjacent to Multipurpose room and on opposite wall.
2. Provide one (1) duplex outlet on other two walls.

Lighting:

Data & Other:
1. Intercom with volume control.
2. Provide two (2) 2-port data outlets on same walls as power strips.
3. Provide data outlet above ceiling for Owner-provided wireless access point.

HS1-E-3.10  Technology Criteria:
F-3. Physical Requirements

HS1-F-3.1 Space(s):

F. Video Equipment Storage.

HS1-F-3.2 Use:

1. Storage of video equipment.

HS1-F-3.3 Special Criteria:

1. Directly accessible from Video Production/Edit.

HS1-F-3.4 Finishes and Features:

<table>
<thead>
<tr>
<th>General Notes:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Floor:</td>
<td>VCT</td>
</tr>
<tr>
<td>Floor Transitions:</td>
<td></td>
</tr>
<tr>
<td>Base:</td>
<td>Resilient top-set base</td>
</tr>
<tr>
<td>Walls:</td>
<td>Painted CMU / gypsum wallboard</td>
</tr>
<tr>
<td>Ceiling:</td>
<td>Acoustical ceiling panels</td>
</tr>
<tr>
<td>Ceiling Height:</td>
<td>12'-0&quot;</td>
</tr>
<tr>
<td>Doors:</td>
<td>Lockable.</td>
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<tr>
<td>Windows:</td>
<td></td>
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</tbody>
</table>

HS1-F-3.5 Casework & Special Features:

<table>
<thead>
<tr>
<th>General</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. 3'-0&quot; x 4'-0&quot; pegboard on one wall.</td>
</tr>
<tr>
<td>2. Maximum LF of 12&quot; deep shelving on rear wall.</td>
</tr>
</tbody>
</table>

HS1-F-3.6 Furniture, Fixtures & Equip.:

HS1-F-3.7 Instruc. Mat & Equipment:

HS1-F-3.8 Mechanical Criteria:

HS1-F-3.9 Electrical Criteria:

<table>
<thead>
<tr>
<th>Power:</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Provide one (1) duplex outlet.</td>
</tr>
</tbody>
</table>

| Lighting: |

| Data & Other: |

HS1-F-3.10 Technology Criteria:
WCPSS Typical Teaching Wall Elevation
Instructional Technology Infrastructure
1. General Educational Requirements

**HS2-1.1 Objectives**

1. To provide a variety of spaces in which students may work collaboratively in groups of different sizes.

**HS2-1.2 Trends**

1. Project-Based Learning.
2. Student-centered activities.
3. Spaces that are flexible and promote collaborative learning.
4. All areas of school and site regarded as “teaching spaces”.

**HS2-1.3 Activities and Enrollment**
2. Space Overview

HS2-2.1 Required Spaces

Reference:

<table>
<thead>
<tr>
<th>Identifier</th>
<th>Space</th>
<th>Quantity</th>
<th>Area Each (SF)</th>
<th>Area Total (SF)</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>Learning Commons</td>
<td>1</td>
<td>14,000</td>
<td>14,000</td>
</tr>
</tbody>
</table>

Total 1 14,000

HS2-2.2 Design Considerations

1. Learning Commons should be distributed throughout the school. They should be of a varied sizes and shapes, in areas convenient to classrooms.
2. Depending on size and location, Learning commons may (or may not) include marker boards, flat-screen monitors, areas for tables and chairs or leisure furniture.
3. Provide visual supervision from nearby classrooms.
4. Learning Commons may be adjacent to, but not obstruct, the required means of egress.
2. Space Overview (continued)

HS2-2.3 Adjacency Diagram:

(site specific)
A-3. Physical Requirements

HS2-A-3.1 Space(s):

A. Learning Commons.

HS2-A-3.2 Use:

1. Collaborative learning and working spaces.

HS2-A-3.3 Special Criteria:

HS2-A-3.4 Finishes and Features:

<table>
<thead>
<tr>
<th>General Notes:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Floor: Carpet/VCT/Terrazzo</td>
</tr>
<tr>
<td>Floor Transitions:</td>
</tr>
<tr>
<td>Base: Resilient top-set base</td>
</tr>
<tr>
<td>Walls: Painted CMU / gypsum wallboard.</td>
</tr>
<tr>
<td>Ceiling: (varies)</td>
</tr>
<tr>
<td>Ceiling Height: (varies)</td>
</tr>
<tr>
<td>Doors: Doors shall have full view lites.</td>
</tr>
<tr>
<td>Windows: Exterior windows preferable</td>
</tr>
</tbody>
</table>

HS2-A-3.5 Casework & Special Features:

General: 1. Window blinds at all exterior windows.
          2. Marker boards and tack boards as directed by WCPSS.

HS6-A-3.6 Furniture, Fixtures & Equip.:

(Provided by Owner’s Furniture & Equipment Specialist, see room data sheets).

HS2-A-3.7 Instruc. Mat & Equipment:

(Provided by Owner’s Inst. Mat. & Equip. Specialist).

HS2-A-3.8 Mechanical Criteria:

HS2-A-3.9 Electrical Criteria:

Power: 1. Provide duplex outlets as directed by WCPSS.
        2. Provide duplex outlets for Owner-provided monitor.

Lighting:

Data & Other: 1. Provide 2-port data outlet for monitor.
              2. Provide other 2-port data outlets as directed by WCPSS.
              3. Provide data outlet above ceiling for Owner-provided wireless access point system.
HS2-A-3.10  Technology Criteria:
1. General Educational Requirements

HS3-1.1 Objectives

1. Schools are mandated by Individuals with Disabilities Education Act (IDEA) to offer a free, appropriate public education to all disabled students in the least restrictive environment. This includes interaction with non-disabled peers in regular school settings.

2. Ensure the design of our schools provides equitable integrated spaces that support the mandates of No Child Left Behind (NCLB) and IDEA for access to general education for all students and supports individual education plan requirements for appropriate specially designed instruction.

3. Safe, efficient emergency egress from special education classrooms.

4. Schools must comply with ADA requirements.

HS3-1.2 Trends

1. Provision of related services (e.g. physical therapy, speech/language therapy, occupational therapy) in the natural environment with collaboration with other team members is considered best practice.

2. IDEA places greater emphasis on enabling each child to appropriately progress in the general curriculum. Facilities should support serving students in the least restrictive environment with greatest opportunity to participate in general education.

3. Increased need for spaces to provide for the medical and physical management of students.

4. Schools are mandated through IDEA to provided experiences, which transition students with disabilities into adult life activities.

HS3-1.3 Activities and Enrollment

1. Self-contained classrooms may serve as the regular classrooms for special students who are on an Adapted Curriculum.

2. Activities in these self-contained classrooms may include daily living skills and functional skills requiring access to a kitchen area. Because of the diverse number of activities, behaviors and equipment needs, special education classes – even those with significantly fewer students – must have a standard size classroom.

3. Cross Categorical (CC) classrooms serve students on the Standard Course of Study who need more limited services. The students are enrolled in regular classes and attend resource classes as "pull-out" programs.

4. These classes need to accommodate the following:
   a. One-to-one instruction.
   b. Group instruction.
   c. Individual workspace.
   d. Learning stations.
   e. Multi-sensory centers.
   f. Computer center.
2. Space Overview

HS3-2.1 Required Spaces

Reference:

<table>
<thead>
<tr>
<th>Identifier</th>
<th>Space</th>
<th>Quantity</th>
<th>Area Each (SF)</th>
<th>Area Total (SF)</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>Self-Contained Classrooms</td>
<td>3</td>
<td>850</td>
<td>2,550</td>
</tr>
<tr>
<td>B</td>
<td>Self-Contained Classrooms (in suite)</td>
<td>2</td>
<td>850</td>
<td>1,700</td>
</tr>
<tr>
<td>C</td>
<td>Instructional Kitchen (in suite w/toilets)</td>
<td>1</td>
<td>660</td>
<td>660</td>
</tr>
<tr>
<td>D</td>
<td>Toilets (in suite w/ kitchen)</td>
<td>2</td>
<td>120</td>
<td>240</td>
</tr>
<tr>
<td>E</td>
<td>CCR Classrooms</td>
<td>4</td>
<td>850</td>
<td>3,400</td>
</tr>
<tr>
<td>E</td>
<td>CCR Classrooms</td>
<td>4</td>
<td>450</td>
<td>1,800</td>
</tr>
</tbody>
</table>

Total                                      | 16       | 10,350         |

HS3-2.2 Design Considerations

1. Attention to acoustical details (avoiding excess noise, etc.) is important for learners with hearing and attention difficulties. Classrooms for students with disabilities should be located away from mechanical rooms, shops, music/band rooms, typing class and loading areas.

3. Locate near a major entrance. Special Education students may use bus or car drop off areas.

4. Group together as a suite: two (2), 850 SF self-contained classrooms with a shared instructional kitchen/toilets. All other self-contained and CCR classrooms should be integrated with age appropriate general education classrooms.

5. Exterior door on classrooms for emergency exit. Design should not suggest use of this as the primary entrance or exit to classroom.
2. Space Overview (continued)

HS3-2.3 Adjacency Diagram:

Self-Contained Suite:

- Toilet
- Self-Contained Classroom
- Instructional Kitchen
- Self-Contained Classroom
- Corridor
- Toilet
AB-3. Physical Requirements

HS3-AB-3.1 Space(s):

A. Self-Contained Classrooms.
B. Self-Contained Classrooms (in suite).

HS3-AB-3.2 Use:

1. Teaching of special education classes that include up to fourteen students, one teacher and one or more teacher assistants. In addition to daily classes the room may be simultaneously used by any of the following specialists: speech therapists, physical therapists, occupational therapists, visually impaired teacher, hearing impaired teacher, orientation/mobility specialists and audiologists.

HS3-AB-3.3 Special Criteria:

1. The self-contained suite shall be located on the ground floor.
2. The classroom must accommodate the space needs of numerous personnel, both instructional and non-instructional.
3. All facilities in the self-contained rooms should be accessible.
4. Some special equipment must be used in the classroom. For example, adaptive positioning equipment or furniture for differently abled students may be required. Students with attention deficits often require use of study carrels to reduce distractions.
5. Noise from return-air systems for climate control should be minimal.
6. Wall coverings/construction should maximize acoustical absorbency.
7. Self-contained classrooms should be designed like general education classrooms except as otherwise noted.

HS3-AB-3.4 Finishes and Features:

<table>
<thead>
<tr>
<th>General Notes:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Floor:</td>
<td>Carpet</td>
</tr>
<tr>
<td>Floor Transitions:</td>
<td>Resilient top-set base</td>
</tr>
<tr>
<td>Base:</td>
<td></td>
</tr>
<tr>
<td>Walls:</td>
<td>Painted CMU / gypsum wallboard</td>
</tr>
<tr>
<td>Ceiling:</td>
<td>Acoustical ceiling panels</td>
</tr>
<tr>
<td>Ceiling Height:</td>
<td>9’-4”</td>
</tr>
<tr>
<td>Doors:</td>
<td>Provide door with vision panel between classroom and kitchen.</td>
</tr>
<tr>
<td>Windows:</td>
<td></td>
</tr>
</tbody>
</table>

HS3-AB-3.5 Casework & Special Features:

<table>
<thead>
<tr>
<th>General</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1. Window blinds at all exterior windows.</td>
</tr>
<tr>
<td></td>
<td>2. Sixteen (16) student lockers in adjacent corridor, as close to classroom entrance as possible.</td>
</tr>
<tr>
<td></td>
<td>3. When the nature of the student’s disabilities requires, alternative furnishing will need to be substituted.</td>
</tr>
<tr>
<td></td>
<td>4. One synchronized wall-hung clock with batteries.</td>
</tr>
</tbody>
</table>
CR Primary Wall:
1. See HS-1 Appendix 1 for typical teaching wall requirements.
2. One (1) 4'-0" x 4'-0" tack board.
3. Corner cabinet for 32" TV.

CR Secondary Wall:
1. One (1) - 4'-0" x 8'-0" white board (no glare).
2. Two (2) - 16'-0" tackable strips, @ 42" and 78" AFF.

Storage Wall:
1. One (1) – Locking 48"W x 24"D X 84"H teacher cabinet
2. 12"D x approx. 44 LF x (varies with windowsill height) bookshelves with adjustable, open shelves.

HS3-AB-3.6 Furniture, Fixtures & Equip.:
(Provided by Owner's Furniture & Equipment Specialist, see room data sheets)

HS3-AB-3.7 Instruc. Mat & Equipment:
(Provided by Owner's Inst. Mat. & Equip. Specialist, including presentation tech. (LCD projector, smartboard, etc.), classroom computers, tablets, printers, TV brackets etc.)

HS3-AB-3.8 Mechanical Criteria:
1. Provide sink with counter and cabinet. Sink should have gooseneck faucet.

HS3-AB-3.9 Electrical Criteria:

Power:
1. See HS-1 Appendix 1 for typical teaching wall requirements.
2. Two (2) duplex outlets on two other walls.
3. Eight (8) duplex outlets for computers, with seven (7) data ports, on one wall. Locate 30" from corner, 60" OC, 36" AFF.

Lighting:
1. Lighting should reduce glare and be noise free.
2. Lighting levels must take into consideration the student's ability to take notes when classroom is darkened for AV presentations.
3. Locate lighting controls conveniently for the instructor to adjust light level as needed.

Data & Other:
1. See HS-1 Appendix 1 for typical teaching wall requirements.
2. The network hub should be 8 ports. Six student workstations, one teacher workstation and one for network printer.
3. Provide two (2) MATV outlets. One for wall mounted unit, one lower for TV on cart. Locate on primary wall, away from door.
4. Locate intercom handset near TV.

HS3-AB-3.10 Technology Criteria:
C-3. Physical Requirements

HS3-C-3.1 Space(s):

C. Instructional Kitchen.

HS3-C-3.2 Use:

1. The kitchen is used to implement the curricula for some special education programs. Life skills, including domestic skills, activities of daily living and vocational skills, are best implemented in a "real life" environment as is provided by barrier free
2. For some students in adapted curriculum classes (e.g., intellectually disabled (ID) Severe or Profound), kitchen appliances are also used for storage of medications and food preparation for special diets. Some students’ physical needs may require a private environment during meals.

HS3-C-3.3 Special Criteria:

1. Must be barrier free.
2. Two classrooms to share a kitchen and two toilets. The shared areas should be accessible to both classes. The kitchen should have direct corridor access.

HS3-C-3.4 Finishes and Features:

<table>
<thead>
<tr>
<th>General Notes:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Floor:</td>
<td>VCT</td>
</tr>
<tr>
<td>Floor Transitions:</td>
<td></td>
</tr>
<tr>
<td>Base:</td>
<td>Resilient top-set base</td>
</tr>
<tr>
<td>Walls:</td>
<td>Painted CMU / gypsum wallboard</td>
</tr>
<tr>
<td>Ceiling:</td>
<td>Acoustical ceiling panels</td>
</tr>
<tr>
<td>Ceiling Height:</td>
<td>9'-4&quot;</td>
</tr>
<tr>
<td>Doors:</td>
<td>Provide door with vision panel between classroom and kitchen</td>
</tr>
<tr>
<td>Windows:</td>
<td></td>
</tr>
</tbody>
</table>

HS3-C-3.5 Casework & Special Features:

General
1. Window blinds at all exterior windows.
2. Counter on two walls 30"-32" high by a minimum of 60" long with accessible knee space. Cabinets with adjustable shelving above and below. Lower doors to have pull type handles, upper doors handles should be latch type.
3. Soap dispenser.
5. One synchronized wall-hung clock with batteries.
HS3-C-3.6  Furniture, Fixtures & Equip.:

**Contractor provide:**
1. Range combination with controls in front, and at ADA height.
2. Hood over the range.
3. Refrigerator with Icemaker.
4. Front-loading standard size washer and dryer with controls in front, w/ adjacent 3'-0" linear counter top.
5. Dishwasher. (Requires 24" deep counter top).

1. Countertop microwave.

**WCPSS Furniture & Equip. Specialist provide:**

HS3-C-3.7  Instruc. Mat & Equipment:

HS3-C-3.8  Mechanical Criteria:
1. Provide double sink that meets ADA. Sink should have gooseneck faucet.
2. Provide hot and cold water.
4. Provide dishwasher hook-ups.
5. Ice maker hook-up for refrigerator.

HS3-C-3.9  Electrical Criteria:

**Power:**
1. Provide one (1) duplex outlet per six (6) feet of wall (minimum of three outlets per wall), above each counter.

**Lighting:**
1. Lighting should reduce glare and be noise free.

**Data & Other:**

HS3-C-3.10  Technology Criteria:
D-3. Physical Requirements

HS3-D-3.1 3.1 Space(s):

D. Toilets (in suite w/ Instructional Kitchen).

HS3-D-3.2 3.2 Use:

1. A health room type cot table is needed in each toilet for performing catheterizations and changing diapers or other health care procedures. Space for adult supervision/assistance, for a freestanding toilet chair if needed and for ease in maneuvering in a wheelchair is necessary. Storage is needed for health care supplies, bathroom supplies, diapers, etc.

2. Not all students are capable of independence and safety in using regular group toilets. Separate ADA accessible toilets between the two (2) classrooms provide an opportunity for a student to gain independence in self-help skills while being properly and safely supervised. It also provides an area for private health care procedures or special toileting assistance.

HS3-D-3.3 3.3 Special Criteria:

1. Must be accessible.

2. Two classrooms to share a kitchen and two toilets. The shared areas should be accessible to both classes.

3. Sufficient floor space to accommodate a 3'-0" x 6'-0" x 20"h health room type cot/catheterization table, and freestanding toilet chairs.

4. Space for storage cabinet that does not interfere with the accessibility of the room or space for locating the health room cot.

HS3-D-3.4 3.4 Finishes and Features:

| General Notes: | 
| Floor: | VCT |
| Floor Transitions: | 
| Base: | Resilient top-set base |
| Walls: | Painted CMU / gypsum wallboard |
| Ceiling: | Acoustical ceiling panels |
| Ceiling Height: | 9'-4" |
| Doors: | 
| Windows: | 

HS3-D-3.5 Casework & Special Features:

**Contractor provide:**
1. One (1) full-length mirror.
2. 24"d x 36"w x 72"h storage cabinet with lockable door and adjustable shelving.
3. Standard toilet paper holder (not large, institutional-type dispenser).
4. Sanitary napkin disposal.
5. Toilet should be standard height, round with closed front seat.
6. Paper towel dispensers (pull out type, not crank).
7. Soap dispensers

**WCPSS Furniture & Equip. Specialist provide:**
1. Two (2) movable health room cots 3’ x 6’ x 20”h covered in medical “vinyl”. We may replace one with hi-lo changing table, especially for low incidence classrooms at the secondary level. The hi-lo changing table dimensions (72 x 30”) are approximately the same as the health room cots and allow for use of a Hoyer lift to pass underneath. We will advise during design.

---

HS3-D-3.6 Furniture, Fixtures & Equip.: 

HS3-D-3.7 Instruc. Mat & Equipment:

HS3-D-3.8 Mechanical Criteria:
1. Provide an ADA-compliant sink with gooseneck faucet.
2. Provide an ADA-compliant toilet.

HS3-D-3.9 Electrical Criteria:

**Power:**
1. Provide dedicated outlet within each restroom to provide electrical service to hi-lo changing tables. Install on the wall where the changing table is to be placed. The top of the outlet box [hospital grade] is not to exceed 14” to allow clearance for operation of the table (lowers to 18”) to avoid damaging the upholstery.
2. Provide one (1) outlet immediately outside of door.

**Lighting:**
1. Lighting should reduce glare and be noise free.

**Data & Other:**

HS3-D-3.10 Technology Criteria:
E-3. Physical Requirements

HS3-E-3.1 3.1 Space(s):

E. CCR Classrooms

HS3-E-3.2 3.2 Use:

1. (All CCR Classrooms should be identical to, and integrated with, General Classrooms).
1. General Educational Requirements

**HS5-1.1 Objectives**

1. (Refer to Section HS1-General Classrooms)

**HS5-1.2 Trends**

1. (Refer also to Section HS1-General Classrooms).
2. Micro-scale experimentation requires use and disposal of smaller quantities of chemicals.
3. Integrated science approach will focus on interdisciplinary learning.

**HS5-1.3 Activities and Enrollment**

1. (Refer to Section HS1-General Classrooms).
2. Space Overview

HS5-2.1 Required Spaces

Reference:

<table>
<thead>
<tr>
<th>Identifier</th>
<th>Space</th>
<th>Quantity</th>
<th>Area Each (SF)</th>
<th>Area Total (SF)</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>Science Labs/CR (Chemistry)</td>
<td>3</td>
<td>1,500</td>
<td>4,500</td>
</tr>
<tr>
<td>B</td>
<td>Science Labs/CR (Earth/Environmental/Biology)</td>
<td>2</td>
<td>1,400</td>
<td>2,800</td>
</tr>
<tr>
<td>C</td>
<td>Science Labs/CR (Reconfigurable)</td>
<td>9</td>
<td>1,200</td>
<td>10,800</td>
</tr>
<tr>
<td>D</td>
<td>Prep Room</td>
<td>4</td>
<td>250</td>
<td>1,000</td>
</tr>
<tr>
<td>E</td>
<td>Prep Room (Shared)</td>
<td>5</td>
<td>250</td>
<td>1,250</td>
</tr>
<tr>
<td>F</td>
<td>Chemical Storage Room*</td>
<td>1</td>
<td>250</td>
<td>250</td>
</tr>
</tbody>
</table>

Total 24 20,600

*If Science Labs are located on more than one floor, Chemical Storage Rooms may be required on each floor.

HS5-2.2 Design Considerations

1. In site development consideration should be given to identifying and preserving natural features that could be resources for the science programs, (i.e. garden plots, outcroppings, streams, wooded areas and marshes.)
3. Where prep rooms are shared access to prep room should be from each class / lab as well as from the corridor.
4. Grouping of general classrooms and science class / labs should be flexible enough to accommodate grade level "houses" or subject level "departments".
2. Space Overview (continued)

HS5-2.3  Adjacency Diagram:
ABC-3. Physical Requirements

HS5-ABC-3.1 Space(s):

A. Science Lab/CR (Chemistry)
B. Science Lab/CR (Earth/Environmental/Biology)
C. Science Lab/CR (Reconfigurable)

HS5-ABC-3.2 Use:

1. Science curriculum includes biological, chemical, physical and earth sciences.
2. Whole group and small group projects and presentation.
3. Computer and telecommunications activities.
4. Multi-disciplinary experimentation using a variety of technologies.
5. Class / labs will be used for demonstrations and all activities associated with performing experiments. Lab students will work in pairs or in groups of four.

HS5-ABC-3.3 Special Criteria:

1. Fixed lab counters to be located along perimeter of lab area with additional adjustable- height tables that can be configured to accommodate different learning activities.
2. Class area should consist of:
   a. Primary Wall - major teaching focus with, , writing surface, tack strips and communication outlet
   b. Secondary Wall - perpendicular to primary wall with writing surface and tack strips.
3. Arrange lab stations so that instructor can move quickly to all points in the room without obstruction. Safe egress is a major design consideration.
4. Create a pipe chase behind base cabinets by setting cabinets 6" from wall.
5. Safety shower for Chemistry CR shall be in alcove. Other Science CRs shall have eyewash and drench hose immediately accessible from lab stations.
6. Provide one drench hose to the sink across from the eyewash station.
7. All secured cabinetry to be keyed alike per classroom.
8. In locating and sizing windows consideration should be given to potential glare on the interactive technology, computer screens and the need to control light.
9. See HS-5 Appendices 1,2 & 3 for schematic science classroom layouts.

HS5-ABC-3.4 Finishes and Features:

<table>
<thead>
<tr>
<th>General Notes:</th>
<th>VCT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Floor:</td>
<td></td>
</tr>
<tr>
<td>Floor Transitions:</td>
<td></td>
</tr>
<tr>
<td>Base:</td>
<td>Resilient top-set base</td>
</tr>
<tr>
<td>Walls:</td>
<td>Painted CMU / gypsum wallboard</td>
</tr>
<tr>
<td>Ceiling:</td>
<td>Acoustical ceiling panels</td>
</tr>
<tr>
<td>Ceiling Height:</td>
<td>10'-0&quot;</td>
</tr>
<tr>
<td>Doors:</td>
<td>Provide door with vision panel between classroom and corridor.</td>
</tr>
<tr>
<td>Windows:</td>
<td>Window sills shall be 8&quot; minimum above shelves or counters.</td>
</tr>
</tbody>
</table>
HS5-ABC-3.5  Casework & Special Features:

General
1. Window blinds at all exterior windows.
2. One synchronized wall-hung clock with batteries.

CR Primary Wall:
1. See HS-1 Appendix 1 for typical teaching wall requirements.

CR Casework:
1. Perimeter 36"H fixed lab counters with work surface of epoxy resin (homogeneous throughout).
2. Base cabinet options:
   a. Reinforced 1" thick x 48"W shelves with continuous steel angle support along back lower edge.
   b. 30"D x 48"W x 36"H locking sink cabinet (similar to Campbell Rhea 2362) with 30"D x 48"W x 36"H door / shelf cabinet (similar to Campbell Rhea 1522).
3. Base cabinets (at each end of cabinet run): 30"D x 48"W x 36"H door / shelf and drawer stack cabinet (similar to Campbell Rhea 1714).
4. All cabinets shall have doors.
5. All cabinets to be lockable (keyed to the individual classroom key).
6. Maximum of 2 peg board drying racks in Chemistry CR (locate on opposite walls), one (1) per other Science CRs.
7. Cantilever support for counters (to allow for additional support).
8. Provide open shelves above sinks with lips on shelves.
9. All overhead cabinets 12" deep with adjustable shelves.
10. Prefer to have no upper cabinets on the window wall (try to locate them on an adjacent wall to allow for as many windows as possible). If it is not possible to eliminate upper cabinets on the window wall, then locate the windows, and then locate a maximum of 1 upper cabinet on the window wall. The window wall upper cabinet does not have to be a double (as shown on the drawing), it can be two single opening cabinets on either side of the windows.
11. Provide 1 drawer stack cabinet in the teacher station.
12. Lockable cabinets under each sink.
13. Eight (8) student's deep epoxy resin sinks and 1 teacher deep epoxy resin sinks (located in teacher demo island).
14. 15"D x 30"H wall cabinets with open adjustable shelves above base cabinets. Reinforce 1" thick x 48"W shelves with continuous steel angle support along back lower edge. Avoid using shelves less than 36" in width.
15. One of the eight student permanent sinks to be ADA accessible with water, electricity, and work surface of phenolic resin.
16. One (1) wall mounted UV sterilizer/safety goggle cabinet.
17. One (1) barrier-free shower/eyewash in location readily accessible to all lab stations, preferably near rear of room away from traffic.

HS5-ABC-3.6 Furniture, Fixtures & Equip.:
(Provided by Owner's Furniture & Equipment Specialist, see room data sheets)

HS5-ABC-3.7 Instruc. Mat & Equipment:
(Provided by Owner's Inst. Mat. & Equip. Specialist, including presentation tech. (LCD projector, smartboard, etc.), classroom computers, tablets, printers, TV brackets etc.)

HS5-ABC-3.8 Mechanical Criteria:
1. Provide 8 sinks, (16” X 24” X 8”) with center drain and hot and cold water, in casework (nominal size). Two (2) sinks are to be placed at perimeter walls, and the remaining six (6) in islands.
2. Provide each room with a master cut-off for all utilities (water, electrical, etc.). Locate master cut-off (with cage cover) in single location in teacher’s area of the room.
3. All faucets to be heavy duty (not gooseneck) and have backflow preventers (vacuum breakers).
4. All plumbing pipes to be corrosive resistant.
5. Provide one dilution tank under the sink to the permanent teacher demo table.
6. All fittings to be vandal resistant.
7. Provide emergency shower and face eyewash (drench hose) with floor drain.
8. Provide active ventilation in classroom/lab so if an accidental spill occurs the air in the room can be evacuated directly to the building exterior.
9. Zone HVAC and exhaust so class / lab, storage and prep are separate from each other and separate from the rest of the school.
10. Locate a connection for one (1) permanent fume hood no greater than 5'-0" within Chemistry Lab near the prep room on each floor. (One Permanent Fume Hood per Floor), provide sufficient ventilation to remove fumes.
HS5-ABC-3.9  Electrical Criteria:

**Power:**
1. Provide GFCI outlets within CR as directed by WCPSS.
2. Provide one (1) duplex outlet for goggle sterilizer cabinet (coordinate with manufacturer's requirements).
3. See [HS-1 Appendix 1](#) for typical teaching wall requirements.

**Lighting:**
1. Lighting switching must take into consideration the student's ability to take notes when classroom is darkened for AV presentations.
2. Lighting controls should be conveniently located for the instructor to adjust light level as needed.

**Data & Other:**
1. Locate intercom handset near door to corridor.
2. See [HS-1 Appendix 1](#) for typical teaching wall requirements.
3. Provide a data outlet on each of the three remaining walls.
4. Provide data outlet above ceiling for Owner-provided wireless access point.

HS5-ABC-3.10  Technology Criteria:

1. See [HS-5 Appendix 1,2,3](#), and [HS-1 Appendix 1](#) for technology requirements and locations.
DE-3. Physical Requirements

HS5-DE-3.1 Space(s):

D. Prep Room  
E. Prep Room (Shared)

HS5-DE-3.2 Use:

1. Storage of supplies and equipment.  
2. Prepare chemicals for labs.  
3. Set-up and clean up for lab.

HS5-DE-3.3 Special Criteria:

1. Should open into class / labs as well as corridor.  
2. Eye Wash should be installed next to prep room sink.

HS5-DE-3.4 Finishes and Features:

General Notes:  
Floors: VCT  
Floors Transitions:  
Base: Resilient top-set base  
Walls: Painted CMU  
Ceilings: Acoustical ceiling panels  
Ceiling Height: 9'-4"  
Doors: Provide door with small vision panel.   
Windows: (none)

| General Notes: |  
| Floor: | VCT  
| Floor Transitions: |  
| Base: | Resilient top-set base  
| Walls: | Painted CMU  
| Ceiling: | Acoustical ceiling panels  
| Ceiling Height: | 9'-4"  
| Doors: | Provide door with small vision panel.   
| Windows: | (none) |

HS5-DE-3.5 Casework & Special Features:

General

1. Approx. 15'-0" LF of 36"H worksurface of plastic laminate (chemical resistant) homogeneous throughout. Drawer / shelf base cabinets below and 30" high wall-mounted open shelves above.  
2. Open adjustable shelves with lips - 18"D x max. W x 84" H.  
3. 36"W x 24"D 12-drawer flat file.  
4. Provide base unit with 8" deep drawers: 27"W x 30 1/2"D x 44"H.  
5. Clean-up assembly composed of deep sink (double drain board unit with hot and cold water). Pegboard on wall above sink with at least one base unit adjoining on each side.
HS5-DE-3.6  Furniture, Fixtures & Equip.:

Contractor provide:
1. Provide a maximum of one (1) laboratory-grade dishwasher in one (1) chemistry prep room per floor, with appropriate racks and shelves.
2. Provide a one (1) spark-free refrigerators per floor in the chemistry prep rooms only.

Owner provide:
1. Distiller.

HS5-DE-3.7  Instruc. Mat & Equipment:

HS5-DE-3.8  Mechanical Criteria:
1. Provide one large, deep single compartment sink, with hot and cold water, in counter.
2. Zone HVAC and exhaust so class / lab, storage and prep are separate from each other and separate from the rest of the school.
3. Sink with hot and cold water.
4. All plumbing pipes to be corrosive resistant, and to have a dilution system.
5. Provide power requirements for autoclave in one prep room.
6. Ice maker hookup for spark-free refrigerators in prep room used for chemistry only (should be located adjacent to the chemistry rooms). No more than 2 hookups per floor.
7. Water line with hookup for icemaker for spark-free refrigerator in the chemistry prep rooms only. No more than 2 hookups per floor.
8. Water hookup for dishwasher in prep room used for chemistry (should be located adjacent to the chemistry rooms). No more than 1 hookup per floor.
9. Provide water hookup next to prep room sink for a swing away emergency eye wash.

HS5-DE-3.9  Electrical Criteria:

Power:
1. Provide a minimum of six (6) duplex outlets, three (3) to be located above counter, @ 30" OC.

Lighting:
1. Task lighting on cabinets for work surface.

Data & Other:
1. One (1) 2-port data outlet, connecting to hub in nearest science lab.
2. Intercom handset and speaker.

HS5-DE-3.10  Technology Criteria:
F-3. Physical Requirements

HS5-F-3.1  Space(s):

F. Chemical Storage Room.

HS5-F-3.2  Use:

1. Storage of chemicals used in labs.

HS5-F-3.3  Special Criteria:

1. Separate room from prep room with separate ventilation
2. If Science Labs are located on more than one floor, Chemical Storage Rooms may be required on each floor.

HS5-F-3.4  Finishes and Features:

<table>
<thead>
<tr>
<th>General Notes:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Floor:</td>
<td>VCT</td>
</tr>
<tr>
<td>Floor Transitions:</td>
<td></td>
</tr>
<tr>
<td>Base:</td>
<td>Resilient top-set base</td>
</tr>
<tr>
<td>Walls:</td>
<td>Painted CMU/GWB</td>
</tr>
<tr>
<td>Ceiling:</td>
<td>Acoustical ceiling panels</td>
</tr>
<tr>
<td>Ceiling Height:</td>
<td>9'-4&quot;</td>
</tr>
<tr>
<td>Doors:</td>
<td>Provide cipher lock for this room, keyed separately from other doors.</td>
</tr>
<tr>
<td>Windows:</td>
<td>(none)</td>
</tr>
</tbody>
</table>

HS5-F-3.5  Casework & Special Features:

General
1. Provide maximum LF of 6" deep adjustable floor-to-ceiling shelving on one wall. Provide 8" deep adjustable shelving above chemical storage cabinets on two (2) walls. Provide lip on front edge of shelves.
2. Provide one (1) small built-in flammable storage cabinet and one (1) small corrosive/acid storage cabinet.

HS5-F-3.6  Furniture, Fixtures & Equip.:

1. Provide dishwasher.

HS5-F-3.7  Instruc. Mat & Equipment:

HS5-F-3.8  Mechanical Criteria:

1. Requires continuous exhaust and consistent year-round temperature. Provide minimum of six (6) air changes per hour (refer also to WCPSS Design Guidelines).
2. Provide water and waste connections for dishwasher.
HS5-F-3.9  Electrical Criteria:

Power:

Lighting: 1. Switch for light located outside room.

Data & Other:

HS5-F-3.10  Technology Criteria:
GENERAL CLASSROOMS

- Tall storage
- Computer stations
- Printer
- Teacher wardrobe & storage w/files
- Clear floor space for handicapped
- Floor outlets (typical for each table)
- Floor space for experiments
- Tackable surface this wall
- Tall storage
- Base cabinets
- Large, deep sink
- Clear floor space
- Safety cabinet
- Raised counter ht. to suit handicapped
- Window w/blackout shades
- MDF display
- Lab cart
- Prep/Stor. Room
- Tall storage
- TV monitor (wall or ceiling-mtd.)
- adjacent science lab
- Refrigerator
- Dish washer & base cabinets
- 24" deep open shelving
- Large, deep sink w/hot water & ease wash
- Demonstration desk
- Project screen
- Cell-mtd. projector if desired
- Sink
- Lab carts
1. General Educational Requirements

HS6-1.1 Objectives

1. The Visual Arts educational program includes learning experiences which provide for the making of art, the study of works of art from past and present, and the critical evaluation of art products.
2. The primary goal of the visual arts program is to teach content and skills from four disciplines of art that contribute to creating, understanding and appreciating; art history; art production; and art criticism and aesthetics.
3. Production of art will include experiences in both, two-dimensional and three-dimensional art. Students will study the works of art, both past and present using visual aids and resource materials.

HS6-1.2 Trends

1. Increased use of technology and multi-media presentation.
2. Overlapping and incorporation of disciplines with vocational programs i.e. computer graphics and publishing and interactive multi-media.

HS6-1.3 Activities and Enrollment

1. The maximum number of students on the secondary level should be determined by the type of course offered (i.e. a drawing class can handle 25 students but students in a printmaking class would be smaller because they need more counter and table space). The diversity of activities will be determined by the size of the art program in a particular school. Listed below are some activities to be experienced on the secondary level:
   a. painting (watercolor, oil, acrylic, tempera).
   b. fibers.
   c. clay (wheel thrown and hand built).
   d. batik.
   e. sculpture.
   f. photography.
   g. printmaking (silk screen, relief, etching) fibers.
   h. computer graphics and publishing.
   i. computer animation.
   j. interactive multi-media.
   k. art history.
   l. jewelry making.
2. Space Overview

HS6-2.1 Required Spaces

Reference:

<table>
<thead>
<tr>
<th>Identifier</th>
<th>Space</th>
<th>Quantity</th>
<th>Area Each (SF)</th>
<th>Area Total (SF)</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>Art Room</td>
<td>2</td>
<td>1,200</td>
<td>2,400</td>
</tr>
<tr>
<td>B</td>
<td>Auxilliary Art Room</td>
<td>1</td>
<td>1,200</td>
<td>1,200</td>
</tr>
<tr>
<td>C</td>
<td>Kiln Room</td>
<td>1</td>
<td>100</td>
<td>100</td>
</tr>
<tr>
<td>D</td>
<td>Supply and Equipment Storage</td>
<td>3</td>
<td>150</td>
<td>450</td>
</tr>
</tbody>
</table>

Total 7 4,150

HS6-2.2 Design Considerations

1. Art facilities should be centrally located
2. Location should provide for good quality natural, north lighting.
3. Art facilities should be on the ground floor with direct vehicular access for loading and unloading of supplies.
4. A lockable display case should be located in the adjacent corridor. It should be a minimum of 10 S.F. with adjustable shelves, lighting, electrical outlet and tackable surfaces.
5. A 30’ x 30’ concrete patio shall be provided outside of classroom, sloped away from building, with hose bibb and one (1) GFI duplex receptacle. Provide shade if possible. A seat wall is desirable. Refer to HS20-Site for SF requirements.
2. Space Overview (continued)

HS6-2.3 Adjacency Diagram:

(Corridor)

- Display Case

Art Room

- Art Storage

- Kiln Room

- Art Patio

Auxiliary Art Classroom
A-3. Physical Requirements

HS6-A-3.1  Space(s):

A. Art Room

HS6-A-3.2  Use:

1. Whole group presentations, small group presentations and individual projects.

HS6-A-3.3  Special Criteria:

1. Art Room should be rectangular in shape.
2. Shall have direct access to patio, auxiliary art room and storage room.
3. Provide a perimeter counter/work area with peninsula sinks (4 total) and cabinetry.
4. Provide maximum amount of tackable wall surface.
5. A wall area should be designated as the primary teaching space.

HS6-A-3.4  Finishes and Features:

<table>
<thead>
<tr>
<th>General Notes:</th>
<th>VCT or sealed concrete.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Floor:</td>
<td></td>
</tr>
<tr>
<td>Floor Transitions:</td>
<td></td>
</tr>
<tr>
<td>Base:</td>
<td>Resilient top-set base</td>
</tr>
<tr>
<td>Walls:</td>
<td>Painted CMU / gypsum wallboard. All walls should be a soft white color to enhance display of student work.</td>
</tr>
<tr>
<td>Ceiling:</td>
<td>Acoustical ceiling panels</td>
</tr>
<tr>
<td>Ceiling Height:</td>
<td>12'-0&quot; minimum.</td>
</tr>
<tr>
<td>Doors:</td>
<td>Provide 4'-0&quot; wide doors with vision panels, for access. This will allow for movement of large sculptures, canvases, etc.</td>
</tr>
<tr>
<td>Windows:</td>
<td>Maximize exterior windows, northern orientation. Consider providing an aesthetically pleasing view. Provide a connecting door between art and auxiliary art rooms.</td>
</tr>
</tbody>
</table>

HS6-A-3.5  Casework & Special Features:

General:  1. Window blinds at all exterior windows.
2. See HS-1 Appendix 1 for typical teaching wall requirements.
3. Counter with lockable base cabinets and 4 sink peninsulas. Provide drawer cabinets with a minimum of 30 drawers 5"h x 25"d x 36"w. Provide one unit each of horizontal and vertical slats for paper storage.
4. 10" deep low open shelving for student book storage, under window space (may substitute wall hooks).
5. Wall cabinets with adjustable shelving 20" above base cabinets with heavy-duty shelf brackets (do not use pins). Provide one-half w/ open adjustable shelves / one-half w/ lockable doors.
6. Flat storage for 30" x 40" sheets of matte board.
7. Four (4) sections of stackable totes.
8. One synchronized wall-hung clock with batteries.
HS6-A-3.6  Furniture, Fixtures & Equip.:

   WCPSS Furn. &
   Equip. Specialist
   provide:
   1. See room data sheets.
   2. Soap and paper towel dispensers.

HS6-A-3.7  Instruc. Mat & Equipment:

HS6-A-3.8  Mechanical Criteria:

   1. Provide hot and cold water.
   2. Provide one single compartment, acid resistant, barrier free sink with plaster and sand traps.
   3. Provide three deep single compartment, acid resistant utility sinks with plaster and sand traps.
   4. Provide swivel-mixing faucets at sinks.
   5. Provide a manually controlled recessed exhaust fan, vented to the outside, to evacuate fumes from paints, dust from projects, fumes from batik dyes (petroleum distillates), etc.

HS6-A-3.9  Electrical Criteria:

   Power:
   1. Provide outlets at 3' -0" intervals. Place above counters where applicable.
   2. Provide a quad power outlet on each wall of classroom, near data ports described below.
   3. See HS-1 Appendix 1 for typical teaching wall requirements.

   Lighting:
   1. In addition to standard classroom lighting provide 2 tracks; with 6 adjustable spotlights, each with dimmer controls. Locate on opposite sides of room.

   Data & Other:
   1. See HS-1 Appendix 1 for typical teaching wall requirements.
   2. Provide one hard-wired data port on each of the other classroom walls.
   3. Provide data outlet above ceiling for Owner-provided wireless access point.

HS6-A-3.10  Technology Criteria:
B-3. Physical Requirements

HS6-B-3.1 Space(s):

**B. Auxiliary Art Room**

(Program to same standards as Art Room except as noted below).

HS6-B-3.2 Use:

HS6-B-3.3 Special Criteria:

1. Direct access to patio if applicable, kiln room, art room and storage room.
2. Provide an open space for clay area.

HS6-B-3.4 Finishes and Features:

HS6-B-3.5 Casework & Special Features:

HS6-B-3.6 Furniture, Fixtures & Equip.:

HS6-B-3.7 Instruc. Mat & Equipment:

HS6-B-3.8 Mechanical Criteria:

HS6-B-3.9 Electrical Criteria:

HS6-B-3.10 Technology Criteria:
C-3. Physical Requirements

HS6-C-3.1 Space(s):

C. Kiln Room

HS6-C-3.2 Use:

1. Preparation and storage of clay, glazes and work in need of firing in the kiln.

2. Clay firing.

HS6-C-3.3 Special Criteria:

1. Locate on exterior wall adjacent to Auxiliary Art classroom.

2. Perimeter walls to be 1-hr fire barrier.

HS6-C-3.4 Finishes and Features:

| General Notes: |  |
| Floor: | VCT or sealed concrete. |
| Floor Transitions: |  |
| Base: | Resilient top-set base |
| Walls: | Painted CMU. |
| Ceiling: |  |
| Ceiling Height: | 12'-0” minimum. |
| Doors: |  |
| Windows: |  |

HS6-C-3.5 Casework & Special Features:

1. 18"d open adjustable non-rust grid metal shelving from floor to ceiling on two walls for storage of work in progress and work waiting to be fired.

HS6-C-3.6 Furniture, Fixtures & Equip.:

HS6-C-3.7 Instruc. Mat & Equipment:

HS6-C-3.8 Mechanical Criteria:

1. Exhaust fan vented to exterior.

2. Vent kiln to exterior.

3. The room should be well-ventilated for quick drying of projects.
HS6-C-3.9  Electrical Criteria:

**Power:**
1. Provide one (1) outlet per wall.
2. Provide a 208/240 VAC 3-phase connection for kiln. Coordinate with manufacturers requirements.

**Lighting:**

**Data & Other:**

HS6-C-3.10  Technology Criteria:
D. Physical Requirements

**HS6-D-3.1 Space(s):**

**D. Supply and Equipment Storage.**

**HS6-D-3.2 Use:**

1. Storage of supplies and equipment.

**HS6-D-3.3 Special Criteria:**

1. Each room should have direct access to one or two Art Rooms.
2. Locate one room adjacent to Kiln Room.

**HS6-D-3.4 Finishes and Features:**

<table>
<thead>
<tr>
<th>General Notes:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Floor:</strong></td>
<td>VCT or sealed concrete.</td>
</tr>
<tr>
<td><strong>Floor Transitions:</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Base:</strong></td>
<td>Resilient top-set base</td>
</tr>
<tr>
<td><strong>Walls:</strong></td>
<td>Painted CMU.</td>
</tr>
<tr>
<td><strong>Ceiling:</strong></td>
<td>Acoustical ceiling panels.</td>
</tr>
<tr>
<td><strong>Ceiling Height:</strong></td>
<td>12'-0&quot; minimum.</td>
</tr>
<tr>
<td><strong>Doors:</strong></td>
<td>Provide 4'-0&quot; wide door to Art Room.</td>
</tr>
<tr>
<td><strong>Windows:</strong></td>
<td></td>
</tr>
</tbody>
</table>

**HS6-D-3.5 Casework & Special Features:**

**General:**

1. Open adjustable shelving with heavy duty brackets on one wall, 24"d x 36"w x 80"h.
2. Open adjustable shelving with heavy-duty brackets on one wall, 12"d x 36"w x 80"h.
3. Provide fireproof chemical storage cabinet for combustible and corrosive materials.

**HS6-D-3.6 Furniture, Fixtures & Equip.:**

**HS6-D-3.7 Instruc. Mat & Equipment:**

**HS6-D-3.8 Mechanical Criteria:**

1. These rooms should be well ventilated for quick drying of projects.
HS6-D-3.9  Electrical Criteria:

   Power:  1. Provide one (1) duplex outlet per wall.

   Lighting:

   Data & Other:

HS6-D-3.10  Technology Criteria:
1. General Educational Requirements

HS7-1.1 Objectives
1. Study in the performing and visual arts at the high school level to provide students with a variety of opportunities for self-expression, critical thinking, creativity, and aesthetic appreciation while developing technical skills in each discipline. Students should cultivate attitudes and skills that will enrich their lives through visual art, music, dance, and drama development.
2. Within music education, students will develop musical competency (vocal, instrumental, listening and rhythmic) the understanding and application of musical concepts (theory), and an appreciation for a variety of musical styles.
3. Students will develop performance skills in the areas of vocal and/or instrumental music.
4. Students will develop aesthetic awareness through the study of music, past and present, and its relationship to the other arts and civilization.

HS7-1.2 Trends
1. Focus on the primary objectives as stated above with increasing emphasis on computer technology to assist instruction in the following areas:
   a. Group instruction of music theory.
   b. Individual concentration on music concepts.
   c. Creation and notation of music.
   d. Presentation of musical score for group reading.

HS7-1.3 Activities and Enrollment
1. The maximum number of students in a music class should not exceed the North Carolina State Department of Public Instruction pupil-teacher ratio on the secondary level. Exceptions are made for secondary music classes in large ensemble settings.
2. In performance oriented classes, students will develop technical music skills through ensemble and individual work, the music facility should accommodate music groups for rehearsal, performing, recording and telecasting.
3. Students may use computer technology to create individual and group music compositions.
4. Band Room and Choral Room could also be used for:
   a. Faculty and club meetings, and student council.
   b. Drama classes and theater.
   c. Speech classes.
   d. Professional education organization meetings.
   e. Concerts by small music groups.
   f. In-service training, both day and night.
   g. Audio-visual presentations.
2. Space Overview

HS7-2.1 Required Spaces

Reference:

<table>
<thead>
<tr>
<th>Identifier</th>
<th>Space</th>
<th>Quantity</th>
<th>Area Each (SF)</th>
<th>Area Total (SF)</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>Choral Room</td>
<td>1</td>
<td>1,200</td>
<td>1,200</td>
</tr>
<tr>
<td>B</td>
<td>Choral Storage/Library</td>
<td>1</td>
<td>200</td>
<td>200</td>
</tr>
<tr>
<td>C</td>
<td>Band Room</td>
<td>1</td>
<td>2,200</td>
<td>2,200</td>
</tr>
<tr>
<td>D</td>
<td>Ensemble Practice Rooms</td>
<td>2</td>
<td>225</td>
<td>450</td>
</tr>
<tr>
<td>E</td>
<td>Band Workroom</td>
<td>1</td>
<td>100</td>
<td>100</td>
</tr>
<tr>
<td>F</td>
<td>Uniform Storage</td>
<td>1</td>
<td>200</td>
<td>200</td>
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<tr>
<td>G</td>
<td>Instrument Storage</td>
<td>1</td>
<td>350</td>
<td>350</td>
</tr>
<tr>
<td>H</td>
<td>Band Storage/Library</td>
<td>1</td>
<td>200</td>
<td>200</td>
</tr>
</tbody>
</table>

Total: 9 4,900

HS7-2.2 Design Considerations

1. Locate music rooms:
   a. Across a corridor from theater/auditorium, near parking areas and practice fields.
   b. On ground floor for easier transport of heavy equipment and instruments.
   c. Convenient to other arts facilities to encourage frequent interaction, but not isolated from remainder of school.
2. Band needs after-hours access.
3. Music areas must be acoustically designed so pitches and tones are clear and balanced.
4. Music rooms should be acoustically separated by walls or distance from those school areas where sounds will cause annoyance and distraction.
5. Special attention should be given to acoustic design throughout all facilities for the performing arts.
6. Circulation must allow for large numbers of students to enter and exit together and rapidly prepare for rehearsal and return instruments to storage.
7. Circulation patterns should allow large quantities of equipment and instruments to be moved from one part of the music area to another and to performance sites.
8. Provide trophy display in corridor near music rooms.
9. Small groups may leave the Band Room and Choral Room and use storage rooms or ensemble rooms for sectional rehearsals.
2. Space Overview (continued)

HS7-2.3 Adjacency Diagram:
A-3. Physical Requirements

HS7-A-3.1 Space(s):

A. Choral Room

HS7-A-3.2 Use:

1. Rehearsal.
2. Recording or video taping of performances.
3. Maximum class size is 70 students.
4. Locate near Band and Auditorium

HS7-A-3.3 Special Criteria:

1. Configure room so portable choral risers can be added.
2. Locate near (but not directly adjacent to) Drama, Band, Auditorium and near an exterior exit.
3. Need after-hours access.
4. Walls need to isolate the sound from adjacent spaces; STC 60 suggested.
5. Angled walls are not necessary or desirable. Room shape should be determined acoustically, with consideration of risers.
6. Special acoustical treatment is needed to control sound within the space.

HS7-A-3.4 Finishes and Features:

<table>
<thead>
<tr>
<th>General Notes:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Floor: Carpet, level floor (not tiered).</td>
</tr>
<tr>
<td>Floor Transitions:</td>
</tr>
<tr>
<td>Base: Resilient top-set base</td>
</tr>
<tr>
<td>Walls: Painted CMU w/ acoustical treatment.</td>
</tr>
<tr>
<td>Ceiling: Acoustical ceiling panels, accommodate hanging mobiles &amp; posters</td>
</tr>
<tr>
<td>Ceiling Height: 16'-0&quot; AFF with acoustical treatment. 12'-0&quot; minimum above highest riser floor level.</td>
</tr>
<tr>
<td>Doors: Provide door with vision panel. Provide opening 5'-6&quot; minimum in width to allow for passage of grand piano.</td>
</tr>
</tbody>
</table>

HS7-A-3.5 Casework & Special Features:

General

1. Window blinds at all exterior windows.
2. Tackstrips on all walls wherever space will permit.
3. One (1) synchronized wall-hung clock with batteries

CR Primary Wall: 1. See HS-1 Appendix 1 for typical teaching wall requirements.

CR Secondary Wall: 1. 4'-0" x 8'-0" multimedia board.
HS7-A-3.6  Furniture, Fixtures & Equip.:

**Owner provide:**
1. Furniture provided by Owner’s Furniture & Equipment Specialist, see room data sheets.

**Contractor provide:**
1. Provide complete sound system per HS-7 Appendix 1.

HS7-A-3.7  Instruc. Mat & Equipment:
(Provided by Owner’s Inst. Mat. & Equip. Specialist, including presentation tech., classroom computers, tablets, printers, TV brackets etc.)

HS7-A-3.8  Mechanical Criteria:
1. Control sound produced by HVAC. Avoid sound transfer between music spaces (choral, band, ensemble) through the ductwork.
2. Provide drinking fountain.

HS7-A-3.9  Electrical Criteria:

**Power:**
1. Provide two (2) duplex outlets on each wall.
2. See HS-1 Appendix 1 for typical teaching wall requirements.
2. Provide two (2) duplex outlets on casework wall.

**Lighting:**
1. Light switching must take into consideration the student’s ability to take notes when classroom is darkened for AV presentations.
2. Provide a light switch at each entry door.
3. Locate lighting controls conveniently for the instructor to adjust light level as needed.
4. Mount 8'-0” track with 4 spots on dimmer at front center of room.

**Data & Other:**
1. Locate intercom handset near door to corridor.
2. See HS-1 Appendix 1 for typical teaching wall requirements.
3. Provide a data outlet on each of the three remaining walls.
4. Provide data outlet above ceiling for Owner-provided wireless access point.
5. Provide speakers in ceiling with auxiliary and microphone input.

HS7-A-3.10  Technology Criteria:
B-3. Physical Requirements

HS7-B-3.1 Space(s):

**B. Choral Storage / Library**

HS7-B-3.2 Use:

1. Store choral scores for instructor and performers.
2. Store musical recordings.
3. Store costumes.

HS7-B-3.3 Special Criteria:

1. Accessed only from Choral Room.

HS7-B-3.4 Finishes and Features:

<table>
<thead>
<tr>
<th>General Notes:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Floor:</td>
<td>VCT</td>
</tr>
<tr>
<td>Floor Transitions:</td>
<td></td>
</tr>
<tr>
<td>Base:</td>
<td>Resilient top-set base</td>
</tr>
<tr>
<td>Walls:</td>
<td>Painted CMU / gypsum wallboard</td>
</tr>
<tr>
<td>Ceiling:</td>
<td>Acoustical ceiling panels.</td>
</tr>
<tr>
<td>Ceiling Height:</td>
<td>9'-4&quot;</td>
</tr>
<tr>
<td>Doors:</td>
<td></td>
</tr>
<tr>
<td>Windows:</td>
<td></td>
</tr>
</tbody>
</table>

HS7-B-3.5 Casework & Special Features:

**General**

1. Maximum LF of double rod hanging space on one wall with 2-high, 18"D, adjustable shelving above.
2. Maximum LF of single rod hanging space on one wall with 2-high, 18"D, adjustable shelving above.

HS7-B-3.6 Furniture, Fixtures & Equip.:

HS7-B-3.7 Instruc. Mat & Equipment:

HS7-B-3.8 Mechanical Criteria:
HS7-B-3.9 Electrical Criteria:

**Power:**
1. Provide one (1) duplex outlet on each wall.
2. Provide two (2) duplex outlets for computers.

**Lighting:**

**Data & Other:**
1. Two (2) 2-port data outlets for future flexibility.
2. Intercom speaker only.

HS7-B-3.10 Technology Criteria:
C-3. Physical Requirements

HS7-C-3.1 Space(s):

C. Band Room

HS7-C-3.2 Use:

1. Maximum of 125 students per class.

HS7-C-3.3 Special Criteria:

1. Provide sound isolation; STC 60 suggested.
2. Room should be rectangular, not square.
3. For proper resonance, provide 10-15 feet from front of class group to front of room.

HS7-C-3.4 Finishes and Features:

<table>
<thead>
<tr>
<th>General Notes:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Floor:</td>
<td>VCT</td>
</tr>
<tr>
<td>Floor Transitions:</td>
<td></td>
</tr>
<tr>
<td>Base:</td>
<td>Resilient top-set base</td>
</tr>
<tr>
<td>Walls:</td>
<td>Painted CMU with acoustical treatment.</td>
</tr>
<tr>
<td>Ceiling:</td>
<td>Acoustical ceiling panels</td>
</tr>
<tr>
<td>Ceiling Height:</td>
<td>20'-0&quot; with acoustical treatment.</td>
</tr>
<tr>
<td>Doors:</td>
<td>Provide door with vision panel near outdoor pedestrian and vehicular circulation. Provide minimum 5'-6&quot; openings to allow passage of grand piano.</td>
</tr>
<tr>
<td>Windows:</td>
<td></td>
</tr>
</tbody>
</table>

HS7-C-3.5 Casework & Special Features:

General

1. Window blinds at all exterior windows.
2. Tackstrips on all walls wherever space will permit.
3. One (1) synchronized wall-hung clock with batteries.

CR Primary Wall:

1. See HS-1 Appendix 1 for typical teaching wall requirements.

CR Secondary Wall:

1. 4'-0" x 8'-0" multimedia board.
HS7-C-3.6 Furniture, Fixtures & Equip.:  
**Owner provide:**  1. Furniture provided by Owner's Furniture & Equipment Specialist, see room data sheets.

**Contractor provide:**  1. Provide complete sound system per [HS-7 Appendix 1](#).

HS7-C-3.7 Instruc. Mat & Equipment:

HS7-C-3.8 Mechanical Criteria:  
1. Control sound produced by HVAC. Avoid sound transfer between music spaces (choral, band, ensemble) through the duct work.
2. Provide drinking fountain.

HS7-C-3.9 Electrical Criteria:  

**Power:**  1. See [HS-1 Appendix 1](#) for typical teaching wall requirements.
2. Two (2) duplex outlets on storage and secondary walls.
3. Seven (7) duplex outlets for computers @ 30” from corner; 48” OC; 36” AFF.

**Lighting:**  1. Light switching must take into consideration the student’s ability to take notes when classroom is darkened for AV presentations.
2. Locate lighting controls conveniently for the instructor to adjust light level as needed.

**Data & Other:**  1. Locate intercom handset near door to corridor.
2. See [HS-1 Appendix 1](#) for typical teaching wall requirements.
3. Provide a data outlet on each of the three remaining walls.
4. Provide data outlet above ceiling for Owner-provided wireless access point.
5. Provide speakers in ceiling with auxiliary and microphone input.

HS7-C-3.10 Technology Criteria:
D-3. Physical Requirements

HS7-D-3.1 Space(s):

D. Ensemble Practice Rooms.

HS7-D-3.2 Use:

1. Practice and/or teaching space for smaller ensembles in instrumental/vocal programs.
2. Use of computers in theory and composition.

HS7-D-3.3 Special Criteria:

1. One room accessible from corridor and Choral Room. One room accessible from Band Room only.

HS7-D-3.4 Finishes and Features:

<table>
<thead>
<tr>
<th>General Notes:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Floor:</td>
<td>VCT</td>
</tr>
<tr>
<td>Floor Transitions:</td>
<td></td>
</tr>
<tr>
<td>Base:</td>
<td>Resilient top-set base</td>
</tr>
<tr>
<td>Walls:</td>
<td>Painted CMU w/ acoustical treatment on two adjoining walls</td>
</tr>
<tr>
<td>Ceiling:</td>
<td>Acoustical ceiling panels</td>
</tr>
<tr>
<td>Ceiling Height:</td>
<td>10'-0&quot; minimum, 12'-0&quot; preferred.</td>
</tr>
<tr>
<td>Doors:</td>
<td>4'-0&quot;W door from Band Room and Choral Room. Door should accommodate timpani and piano on dolly.</td>
</tr>
<tr>
<td>Windows:</td>
<td>Provide sidelights and / or large vision panels in doors connecting with classrooms.</td>
</tr>
</tbody>
</table>

HS7-D-3.5 Casework & Special Features:

General

1. Window blinds for exterior windows.
2. 4'-0" x 4'-0" multimedia board.

HS7-D-3.6 Furniture, Fixtures & Equip.:

HS7-D-3.7 Instruc. Mat & Equipment:

HS7-D-3.8 Mechanical Criteria:

1. Minimize sound produced by HVAC.
HS7-D-3.9 Electrical Criteria:

**Power:**
1. Three (3) duplex outlets for computers, plus one (1) additional duplex on each wall.

**Lighting:**

**Data & Other:**
1. Three (3) 2-port data outlets.
2. Intercom speaker only, with volume control.

HS7-D-3.10 Technology Criteria:
E-3. Physical Requirements

HS7-E-3.1 Space(s):

**E. Band Workroom.**

HS7-E-3.2 Use:

1. Servicing, cleaning and repairing musical instruments.

HS7-E-3.3 Special Criteria:

1. Access from Band Room.

HS7-E-3.4 Finishes and Features:

<table>
<thead>
<tr>
<th>General Notes:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Floor:</td>
<td>VCT</td>
</tr>
<tr>
<td>Floor Transitions:</td>
<td></td>
</tr>
<tr>
<td>Base:</td>
<td>Resilient top-set base</td>
</tr>
<tr>
<td>Walls:</td>
<td>Painted CMU / gypsum wallboard</td>
</tr>
<tr>
<td>Ceiling:</td>
<td>Acoustical ceiling panels</td>
</tr>
<tr>
<td>Ceiling Height:</td>
<td>9'-4&quot;</td>
</tr>
<tr>
<td>Doors:</td>
<td></td>
</tr>
<tr>
<td>Windows:</td>
<td></td>
</tr>
</tbody>
</table>

HS7-E-3.5 Casework & Special Features:

1. Eight (8) LF of 34" high work surface with base cabinet to include 8 lockable drawers for storage of tools and 36"W kneespace.
2. 30" high open shelving, above work surface.
3. Maximum LF of heavy-duty, adjustable, 24"-deep shelving on one wall.
4. Soap dispenser.
5. Paper towel dispenser.

HS7-E-3.6 Furniture, Fixtures & Equip.:  

HS7-E-3.7 Instruc. Mat & Equipment:

HS7-E-3.8 Mechanical Criteria:

1. Provide deep utility sink with hot and cold water for cleaning and soaking instruments.

HS7-E-3.9 Electrical Criteria:

**Power:**

1. Locate at least two (2) duplex outlets above counter with 2 additional duplex outlets on each wall.

**Lighting:**

1. Task lighting mounted below wall-mounted shelving to illuminate work surface.
Data & Other: 1. Intercom.

HS7-E-3.10 Technology Criteria:
F-3. Physical Requirements

HS7-F-3.1 Space(s):

F. Uniform Storage.

HS7-F-3.2 Use:

1. Storage for:
   a. 200 band uniforms (min.), including coats, pants, hats, gloves, belts, dickeys, buttons, chains, etc.
   b. 120 color guard uniforms. 50 flags - 6'-0" poles.
   c. 50 rifles - 40" long.
2. Fitting room.
3. Changing room.

HS7-F-3.3 Special Criteria:

1. Visual control of entrance from Office.
2. Locate full length mirrors at end of room.

HS7-F-3.4 Finishes and Features:

<table>
<thead>
<tr>
<th>General Notes:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Floor:</td>
<td>VCT</td>
</tr>
<tr>
<td>Floor Transitions:</td>
<td></td>
</tr>
<tr>
<td>Base:</td>
<td>Resilient top-set base</td>
</tr>
<tr>
<td>Walls:</td>
<td>Painted CMU / gypsum wallboard</td>
</tr>
<tr>
<td>Ceiling:</td>
<td>Acoustical ceiling panels</td>
</tr>
<tr>
<td>Ceiling Height:</td>
<td></td>
</tr>
<tr>
<td>Doors:</td>
<td></td>
</tr>
<tr>
<td>Windows:</td>
<td></td>
</tr>
</tbody>
</table>

HS7-F-3.5 Casework & Special Features:

General

1. Two (2) full length mirrors
2. Clothes rods on both long walls of room: 1/4 of total length to be single rod, 3/4 of total length to be double rods.
3. 2-high heavy duty adjustable 18"D shelving above clothes rods.

HS7-F-3.6 Furniture, Fixtures & Equip.:

HS7-F-3.7 Instruc. Mat & Equipment:

HS7-F-3.8 Mechanical Criteria:

1. Need year-round temperature and humidity control.
HS7-F-3.9 Electrical Criteria:

**Power:**
1. Provide two (2) duplex outlets.

**Lighting:**

**Data & Other:**
1. Intercom speaker only.

HS7-F-3.10 Technology Criteria:
G-3. Physical Requirements

HS7-G-3.1 Space(s):

**G. Instrument Storage.**

HS7-G-3.2 Use:

1. Storing student instruments between classes.
2. Storing large instruments that remain at the school.

HS7-G-3.3 Special Criteria:

1. Access from Band Room.
2. Locate for easy access to vehicular circulation.
3. For 8'-0" of wall, start shelving @ 6'-0" AFF for large floor-standing instruments.

HS7-G-3.4 Finishes and Features:

<table>
<thead>
<tr>
<th>General Notes:</th>
<th>Floor: VCT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Floor: VCT</td>
<td></td>
</tr>
<tr>
<td>Floor Transitions:</td>
<td></td>
</tr>
<tr>
<td>Base: Resilient top-set base</td>
<td></td>
</tr>
<tr>
<td>Walls: Painted CMU / gypsum wallboard</td>
<td></td>
</tr>
<tr>
<td>Ceiling: Acoustical ceiling panels.</td>
<td></td>
</tr>
<tr>
<td>Ceiling Height: 9'-4&quot;</td>
<td></td>
</tr>
<tr>
<td>Doors: Provide at least a 4'-0&quot;W opening.</td>
<td></td>
</tr>
<tr>
<td>Windows: (none)</td>
<td></td>
</tr>
</tbody>
</table>

HS7-G-3.5 Casework & Special Features:

HS7-G-3.6 Furniture, Fixtures & Equip.:

**Contractor provide:** 1. Provide instrument storage as described below, based on the Wenger Corporation's "AcoustiCabinets":

a. Seven (7) each, cabinet #4.
b. Five (5) each, cabinet #5.
c. Seven (7) each, cabinet #11.

HS7-G-3.7 Instruc. Mat & Equipment:

HS7-G-3.8 Mechanical Criteria:

1. Should maintain consistent year-round temperature and relative humidity to help prevent damage to instruments. Temperature and humidity should be constant between 65°-72° F, and relative humidity between 35%-50%.
HS7-G-3.9  Electrical Criteria:

**Power:**
1. Provide two (2) duplex outlets.

**Lighting:**

**Data & Other:**
1. Intercom speaker only.

HS7-G-3.10  Technology Criteria:
H-3. Physical Requirements

HS7-H-3.1 Space(s):

H. Band Storage / Library.

HS7-H-3.2 Use:

1. Store and sort music scores for use by instructors and performers.
2. Store musical recordings.
3. Work area for music teachers.

HS7-H-3.3 Special Criteria:

1. Access from Band Room.

HS7-H-3.4 Finishes and Features:

| General Notes: | 
| Floor: | VCT |
| Floor Transitions: | 
| Base: | Resilient top-set base |
| Walls: | Painted CMU / gypsum wallboard |
| Ceiling: | Acoustical ceiling panels |
| Ceiling Height: | 9'-4" |
| Doors: | Provide door with vision panel |
| Windows: | (none) |

HS7-H-3.5 Casework & Special Features:

1. Eight (8) LF sorting counter - 34"H x 24"D with open adjustable shelving below.
2. Maximum LF of heavy duty adjustable shelving, 12" and 18" deep.

HS7-H-3.6 Furniture, Fixtures & Equip.:

HS7-H-3.7 Instruc. Mat & Equipment:

HS7-H-3.8 Mechanical Criteria:
HS7-H-3.9 Electrical Criteria:

**Power:**
1. Two (2) duplex outlets on each wall.
2. Two (2) additional duplex outlets for computers

**Lighting:**

**Data & Other:**
1. Two (2) 2-port data outlets associated with 2 of the electrical outlets.
2. Intercom speaker only.

HS7-H-3.10 Technology Criteria:
GENERAL NOTES:
1. RACK SHALL BE SIZED TO HOUSE COMPONENTS AS REQUIRED, MINIMUM OF 16 RACK UNITS (RU), MOUNT RACK 48" AFF TO TOP OF ENCLOSURE.
2. SPEAKERS SHALL BE WALL MOUNTED, SEE PLAN FOR SPEAKER LOCATIONS.
3. THE SOUND SYSTEM SHALL BE INTERCONNECTED WITH FIRE ALARM SYSTEM FOR SOUND OVERRIDE VIA THE REMOTE POWER CONTROLER, CONTROLLER SHALL HAVE INTEGRAL SURGE SUPPRESSION, PROVIDE FIRE ALARM RELAY AND WIRING AS NEEDED.
4. PROVIDE CD PLAYER WITH DOCKING STATION (I.E. IPOD) AND AUXILIARY INPUT.
5. ALL WIRING SHALL BE IN CONDUIT BELOW LAY-IN CEILING, POWER AS INDICATED ON PLANS.
6. CONTRACTOR SHALL PROVIDE AND INSTALL A 100% COMPLETE AND OPERATIONAL SYSTEM.
7. SYSTEM SHALL BE TESTED, CALIBRATED, ETC. PRIOR TO COMPLETION. PROVIDE WRITTEN DOCUMENTATION OF ADJUSTABLE SETTINGS IN O&M MANUAL. PROVIDE LAMINATED COPY OF SETTINGS IN DRAWER WITH PHOTOS.
8. PROVIDE OWNER PERSONNEL TRAINING & PROVIDE SYSTEM DOCUMENTATION IN THE O&M MANUALS.

FINE ARTS SOUND SYSTEM RISER
SCALE: NONE
1. General Educational Requirements

HS8-1.1 Objectives

1. The primary goal of the drama program is to teach verbal and non-verbal communication skills through the aesthetic of theatre. The drama education program includes learning experiences in dramatic technique and technical theater, communication skills and the critical evaluation of drama and aesthetic awareness. Students will explore drama as a performing art through the observation of and participation in live and taped performances.

2. The primary goal of the dance program is to develop movement skills, explore a variety of dance techniques and styles, study dance concepts, and develop aesthetic awareness. The dance education program includes learning experiences in the above as well as choreography and the critical evaluation of dance. Students will explore dance as a performing art through the observation of and participation in live and taped performances.

3. Dance and Drama study should include experiences in basic technique, creative exploration, informal and formal presentation.

4. Provide a teaching auditorium to meet the needs of the total school and community by providing an assembly space as well as multiple, simultaneous classroom space.

HS8-1.2 Trends

1. Individual and group improvisation, creation and performance of theater pieces and the integration of technical theater and technology.

2. Student choreography and performance to include the use of technology.

HS8-1.3 Activities and Enrollment

1. Drama students will explore communication skills through individual and ensemble work. Students will create and perform complete theater pieces and observe a variety of theatrical productions by school, community, and/or professional organizations.

2. Dance students will explore gross and fine motor skills in and through space. Students will explore dance concepts through teacher directed and/or student created movement phrases. Students will work individually and in groups to produce completed choreographic works for both informal and formal performance.

3. Dance and drama technique and appreciation.

4. Debate activities.

5. Movie presentation.


7. Concerts/performances.
2. Space Overview

HS8-2.1 Required Spaces

Reference:

<table>
<thead>
<tr>
<th>Identifier</th>
<th>Space</th>
<th>Quantity</th>
<th>Area Each (SF)</th>
<th>Area Total (SF)</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>Theater (seating for 850)</td>
<td>1</td>
<td>8,000</td>
<td>8,000</td>
</tr>
<tr>
<td>B</td>
<td>Stage</td>
<td>1</td>
<td>2,515</td>
<td>2,515</td>
</tr>
<tr>
<td>C</td>
<td>Control Room</td>
<td>1</td>
<td>300</td>
<td>300</td>
</tr>
<tr>
<td>D</td>
<td>Dressing Rooms</td>
<td>2</td>
<td>180</td>
<td>360</td>
</tr>
<tr>
<td>E</td>
<td>Spot Deck</td>
<td>2</td>
<td>80</td>
<td>160</td>
</tr>
<tr>
<td>F</td>
<td>Dance/Drama Room</td>
<td>2</td>
<td>1,800</td>
<td>3,600</td>
</tr>
<tr>
<td>G</td>
<td>Cat Walk (size varies)</td>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>H</td>
<td>Workroom</td>
<td>1</td>
<td>500</td>
<td>500</td>
</tr>
<tr>
<td>I</td>
<td>Storage</td>
<td>1</td>
<td>700</td>
<td>700</td>
</tr>
<tr>
<td>J</td>
<td>Chair Storage (may be split into 2 spaces)</td>
<td>1</td>
<td>100</td>
<td>100</td>
</tr>
</tbody>
</table>

| Total      |                                | 13       |                | 16,235          |

HS8-2.2 Design Considerations

1. Consultation with an acoustical professional is required.
2. Auditorium should be in the public area of the building for crowd control during events.
3. Sound and Light locks should be included at primary entrances to auditorium seating area.
4. Dance and drama instruction will take place in the auditorium as well as in the Dance/Drama classroom.
5. Provide vehicular access to workroom for loading and unloading of materials and equipment.
6. Avoid placing stage adjacent to noisy areas such as band room or vocational shops.
7. Provide a crossover path backstage from stage left to stage right outside of the physical stage space.
2. Space Overview (continued)

HS8-2.3 Adjacency Diagram:

Exterior
Workroom
Storage
(Backstage Crossover space)
Dance Room
Drama Room
Dressing Room
Dressing Room
Stage
Chair Storage
Theater
(CatWalk)
Spot Deck
Control Room
Spot Deck
Chair Storage
Main Corridor
A-3. Physical Requirements

HS8-A-3.1 Space(s):

Theater (800 fixed seats and 50 portable seats).

HS8-A-3.2 Use:

1. Space will be used for teaching, assemblies, rehearsals and performances both during and after school hours.

HS8-A-3.3 Special Criteria:

1. Acoustics and sound isolation must be considered. Avoid locating adjacent to noisy areas.
2. Slope floor for 800 fixed, theater type seats.
3. Flat floor area at front for 50 movable seats, not to exceed a total of two rows.
4. Theater should have adjacent chair storage area(s).
5. Control Room and spot decks should be located at back of Auditorium.
6. Catwalk should run above ceiling and be located in optimum front of house lighting position to light both stage and orchestra area.
7. Access from Theater to stage/backstage area should not be visible from audience.
8. This area may need to be accessed after school and/or during the summer, so secure and isolate from remainder of building.
9. Access through light lock vestibule area, not directly from Lobby.
10. Perimeter walls should protect adjacent spaces from sound transmission – STC 60 suggested.
11. Provide two (2) teaching spaces in rear of auditorium with movable partitions.

HS8-A-3.4 Finishes and Features:

<table>
<thead>
<tr>
<th>General Notes:</th>
<th>Carpeted aisles with sealed/painted concrete under permanent seating on sloped floor.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Floor:</td>
<td></td>
</tr>
<tr>
<td>Floor Transitions:</td>
<td></td>
</tr>
<tr>
<td>Base:</td>
<td></td>
</tr>
<tr>
<td>Walls:</td>
<td>Acoustical treatment required on ceiling and side walls to ensure maximum range of frequency throughout auditorium for speaking, strings, band, and vocal music.</td>
</tr>
<tr>
<td>Ceiling:</td>
<td>Open with acoustical treatment.</td>
</tr>
<tr>
<td>Ceiling Height:</td>
<td>Varies</td>
</tr>
<tr>
<td>Doors:</td>
<td>Pair of 3'-0&quot; doors at each main entrance with no mullion between.</td>
</tr>
<tr>
<td>Windows:</td>
<td>(none)</td>
</tr>
</tbody>
</table>

HS8-A-3.5 Casework & Special Features:

Contractor provide:

1. Three (3) synchronized wall-hung clocks with batteries (1 per instructional area). Place these in non-prominent locations.

HS8-A-3.6 Furniture, Fixtures & Equip.:
Contractor provide:  
1. Eight hundred (800) fixed, upholstered seat. Provide tablet arms on approximately sixty (60) seats at the front of the auditorium. Tablets should be on alternating seats.
2. Fifty (50) stacking chairs: select chairs that coordinate with fixed seating and will not interfere with sightlines.
3. Electrically-powered personnel lift (not battery powered).

Owner provides:  
1. Two (2) tilt-top AV tables to be placed over seats in center of house for use with projection equipment.
2. (Others items provided by Owner’s Furniture & Equipment Specialist, see room data sheets)

HS8-A-3.7 Instruc. Mat & Equipment:  
(Provided by Owner’s Inst. Mat. & Equip. Specialist, including presentation tech. (LCD projector, smartboard, etc.), classroom computers, tablets, printers, TV brackets etc.)

HS8-A-3.8 Mechanical Criteria:
1. Sound isolate all mechanical equipment.

HS8-A-3.9 Electrical Criteria:

Power:
1. Provide a minimum of three (3) duplex outlets along each wall.
2. Provide a minimum of three (3) duplex electrical outlets, evenly spaced, hidden from view under the front apron of the stage.
3. Provide recessed floor outlet at first row of seats, middle of house and back row of seats with two (2) duplex electrical outlets, coaxial video, 2 XLR, data jacks and audio outlets that run to the control booth.

Lighting:
1. LED House lights must be able to be dimmed from the control room and backstage area on separate system from stage lighting as well as main entrance with lock-out capabilities.
2. Light levels: As required for classrooms evenly distributed with appropriate footcandles for instruction.
3. Provide concealed low level lighting along aisles integral with seating.
4. Entire lighting system to be easily accessible for maintenance from the floor or catwalk without having to remove seating or purchase special lift equipment.
5. One (1) theatrical lighting batten at catwalk - See HS-8 Appendix 3.
Data & Other:

1. Provide data jacks off-stage on each side of the stage.
2. Provide a minimum of three (3) data outlets, evenly spaced, hidden from view under the front apron of the stage.
3. School-wide P.A./Intercom with on/off capability in order to prevent disruption during performances, operated from control room. Provide speaker in each teaching area.
4. A minimum of three microphone jacks and two 1/4” speaker jacks should be located, hidden from view, under stage apron. (See HS-8 Appendix 1).
5. Provide speaker system for sound reinforcement acoustically placed and aesthetically designed.
6. Provide a separate monitoring system of stage activity by placing 1 microphone over the stage and 1 microphone in the auditorium – run through the sound system to Band Room, Choral Room, Dance/Drama Room, Workroom, Dressing Rooms and Control Booth (each speaker in these rooms needs a volume control). This system can also be used for assistive listening devices per ADA.
7. Sound system jacks and speakers.

HS8-A-3.10 Technology Criteria:
B-3. Physical Requirements

HS8-B-3.1 Space(s):

B. Stage

HS8-B-3.2 Use:

1. Space will be used for both performance and rehearsal. It may also be used for classes.

HS8-B-3.3 Special Criteria:

1. Acoustics and sound isolation must be considered.
2. Provide a crossover path backstage from stage left to stage right outside of the physical stage space.
3. Provide 34'-0"d x 76'-0"w x 3'-0"h (min.) thrust type stage with 4'-0" deep apron. (Apron should not be curved).
4. Provide 40'-0"w x 16'-0"h proscenium opening.
5. Stage loft not intended for full flying of scenery.
6. Mount projection screen on auditorium side of Main curtain, between valence in soffit.
7. Stage curtains and lighting battens should be appropriately spaced. See HS-8 Appendix 3.
8. Rear cyclorama should travel on a single track.

HS8-B-3.4 Finishes and Features:

<table>
<thead>
<tr>
<th>General Notes:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Floor: Sprung wooden floor with acoustic dampening painted flat black.</td>
</tr>
<tr>
<td>Floor Transitions:</td>
</tr>
<tr>
<td>Base:</td>
</tr>
<tr>
<td>Walls: Flat Black-painted CMU</td>
</tr>
<tr>
<td>Ceiling: (none)</td>
</tr>
<tr>
<td>Ceiling Height: 24'-0&quot; minimum clearance</td>
</tr>
<tr>
<td>Doors:</td>
</tr>
<tr>
<td>Windows:</td>
</tr>
</tbody>
</table>

HS8-B-3.5 Casework & Special Features:

HS8-B-3.6 Furniture, Fixtures & Equip.:

Contractor provide: 1. 12'-0" x 12'-0" (minimum) motorized projection screen mounted in center of proscenium between soffit and valence.
2. Curtains, main drape, legs, borders, mid-stage traveler, back traveler and single track traveling cyclorama. See HS-8 Appendix 3 for placement.
3. Masking and soft goods need to have flexibility based on sight lines and depth/width of stage. Provide 3-5 wing masking.
4. All rigging on stage shall be dead-hung.
HS8-B-3.7  Instruc. Mat & Equipment:

HS8-B-3.8  Mechanical Criteria:

1. Air Conditioning.
2. Sound isolate all mechanical equipment.

HS8-B-3.9  Electrical Criteria:

   **Power:**
   1. Two (2) duplex outlets on each side wall of stage, three (3) outlets along back wall of stage below mirrors and one (1) outlet on each side of Proscenium, each on separate 20-amp circuits.
   2. For theatrical needs see **HS-8 Appendices 1&2.**

   **Lighting:**
   1. Separate lighting with appropriate footcandles for daily classroom instruction.
   2. Four (4) lighting pipe battens.
   3. Provide running lights on side walls and on stage sides of Proscenium (recessed low wattage with louvered covers) operated by a switch at backstage houselight control panel.
   4. Outlets for Remote Focus Capabilities.
   5. Provide one (1) dedicated circuit per dimmer. Ninety-six (96) thru-power dimmers (this may appear as 48 modules house 2 dimmers each) with additional separate house lighting rack as required for appropriate foot candles.
   6. Theatrical lighting system - see **HS-8 Appendix 2.**
   7. Provide remote control stations throughout theater utilizing the same control protocol as the theater lighting system.

   **Data & Other:**
   1. Intercom: Theatrical- Communication between stage right, stage left, control room, catwalk, spot decks and dance/drama room.
   2. Wall boxes for microphone connections and speaker jacks, absolutely no floor boxes on stage.
   3. Audio system separate from school's intercom system.
   4. Provide data ports at each overhead electric for intelligent light control.
   5. Provide one data port at each side of stage.

HS8-B-3.10  Technology Criteria:
C-3. Physical Requirements

HS8-C-3.1 Space(s):

C. Control Room

HS8-C-3.2 Use:

1. Space will be used as a lighting and audio control room during performances and assemblies.

HS8-C-3.3 Special Criteria:

1. Sound isolate; locate to rear and above seating area; audio/visual contact with stage and spot decks.
2. Access through light lock vestibule area, not directly from Theater.
3. If standard staircase is not feasible in overall space design, spiral stairs are preferable to steep ship's ladder (consider second story access options in overall design).

HS8-C-3.4 Finishes and Features:

<table>
<thead>
<tr>
<th>General Notes:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Floor:</td>
<td>Carpet</td>
</tr>
<tr>
<td>Floor Transitions:</td>
<td></td>
</tr>
<tr>
<td>Base:</td>
<td>Resilient top-set base</td>
</tr>
<tr>
<td>Walls:</td>
<td>Black painted CMU</td>
</tr>
<tr>
<td>Ceiling:</td>
<td>Acoustical ceiling panels, black color.</td>
</tr>
<tr>
<td>Ceiling Height:</td>
<td>8'-0&quot;</td>
</tr>
<tr>
<td>Doors:</td>
<td>Solid</td>
</tr>
<tr>
<td>Windows:</td>
<td>Window into Theater should be completely open (no glass) to permit people in control room to hear proceedings in the auditorium.</td>
</tr>
</tbody>
</table>

HS8-C-3.5 Casework & Special Features:

General

1. Open shelving where space permits.
2. Plastic laminate countertop 24” deep full width below window openings, with height such that top of control panels is at 30” AFF. Window openings to have bottom @ 32” AFF.

HS8-C-3.6 Furniture, Fixtures & Equip.:

Contractor provide:

1. Locked storage cabinet with two doors, shelves and pegboard inside to store microphones etc. (Campbell Rhea 8115 or similar).

HS8-C-3.7 Instruc. Mat & Equipment:
HS8-C-3.8  Mechanical Criteria:
1. Provide separate air conditioning control.

HS8-C-3.9  Electrical Criteria:

   Power: 1. Four (4) duplex outlets distributed 2'-0" O.C. below countertop at window area.

   Lighting: 1. Dimmer-controlled lighting at workstations and separate fluorescent work lights.
   2. Theatrical lighting system and control boards. See HS-8 Appendix 2.

   Data & Other: 1. Two (2) 2-port data outlets.
   2. P.A. system with on off control for use during performances.
   3. Theatrical Intercom (single channel theatrical communications): to stage, dressing rooms, spot decks, work room and Dance/Drama room.
   4. Provide telephone.
   5. Sound system amplifiers and control mixing board. See HS-8 Appendix 1.

HS8-C-3.10  Technology Criteria:
D-3. Physical Requirements

HS8-D-3.1  Space(s):

D. Dressing Rooms

HS8-D-3.2  Use:

1. Changing and make-up area during performances.
2. Changing area/rest rooms during dance/drama classes.

HS8-D-3.3  Special Criteria:

1. Sound isolate.
2. Locate behind stage, preferably between stage and crossover space.
3. Designate one dressing room for females and one for males.
4. Provide a separate soundproof toilet room in each dressing room.

HS8-D-3.4  Finishes and Features:

<table>
<thead>
<tr>
<th>General Notes:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Floor:</td>
</tr>
<tr>
<td>Floor Transitions:</td>
</tr>
<tr>
<td>Base:</td>
</tr>
<tr>
<td>Walls:</td>
</tr>
<tr>
<td>Ceiling:</td>
</tr>
<tr>
<td>Ceiling Height:</td>
</tr>
<tr>
<td>Doors:</td>
</tr>
<tr>
<td>Windows:</td>
</tr>
</tbody>
</table>

HS8-D-3.5  Casework & Special Features:

1. Each dressing room shall have a sink in a 10'-0" long counter.
2. Each dressing room should have 10'-0" linear feet of hanging clothes rod with shelving above.
3. 10'-0" LF mirror above counter.
4. Full length mirror on back of door.

HS8-D-3.6  Furniture, Fixtures & Equip.:

HS8-D-3.7  Instruc. Mat & Equipment:

HS8-D-3.8  Mechanical Criteria:

1. Provide sink with hot and cold water.
2. Toilet.
HS8-D-3.9  Electrical Criteria:

**Power:**
1. Two (2) GFI outlets above counter.
2. One (1) outlet per each other wall.
3. Outlets controlled by switch at entrance.

**Lighting:**
1. Color-corrected LED lamps should be used above mirror/counter area.

**Data & Other:**
1. Computer network outlets

HS8-D-3.10  Technology Criteria:
E-3. Physical Requirements

HS8-E-3.1 Space(s):

E. Spot Decks

HS8-E-3.2 Use:

1. Location for the operation of spot lights during instruction, performances and rehearsals.

HS8-E-3.3 Special Criteria:

1. Locate in rear of Theater with sufficient elevation for follow-spot operation – can be on either side of control booth.

HS8-E-3.4 Finishes and Features:

<table>
<thead>
<tr>
<th>General Notes:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Floor:</td>
<td>Carpet</td>
</tr>
<tr>
<td>Floor Transitions:</td>
<td></td>
</tr>
<tr>
<td>Base:</td>
<td></td>
</tr>
<tr>
<td>Walls:</td>
<td>(railings)</td>
</tr>
<tr>
<td>Ceiling:</td>
<td>(open to theatre)</td>
</tr>
<tr>
<td>Ceiling Height:</td>
<td></td>
</tr>
<tr>
<td>Doors:</td>
<td></td>
</tr>
<tr>
<td>Windows:</td>
<td></td>
</tr>
</tbody>
</table>

HS8-E-3.5 Casework & Special Features:

General 1. Safety railings.

HS8-E-3.6 Furniture, Fixtures & Equip.:

HS8-E-3.7 Instruc. Mat & Equipment:

HS8-E-3.8 Mechanical Criteria:

HS8-E-3.9 Electrical Criteria:

Power: 1. Two (2) 120v duplex outlets and one (1) 240v duplex outlet per deck.

Lighting: 1. Provide work lights.

Data & Other: 1. Headset jacks for theatrical communication.

HS8-E-3.10 Technology Criteria:
F-3. Physical Requirements

HS8-F-3.1 Space(s):

**F. Dance/Drama Room.**

HS8-F-3.2 Use:

1. Space will be used as a classroom for dance and drama classes as well as an informal greenroom during stage performances.

HS8-F-3.3 Special Criteria:

1. Locate to rear of stage, near workroom and adjacent to storage spaces (see adjacency diagram).
2. Dance/drama room should have direct access to adjacent costume storage room.
3. Perimeter walls should protect adjacent spaces from sound transmission – STC 60 suggested.

HS8-F-3.4 Finishes and Features:

<table>
<thead>
<tr>
<th>General Notes:</th>
<th>Sprung wooden floor suspended with acoustic dampening. Provide soft room size floor covering (carpet or other) that can be unrolled to protect floor during non-dance activities.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Floor:</td>
<td>F. Dance/Drama Room.</td>
</tr>
<tr>
<td>Floor Transitions:</td>
<td></td>
</tr>
<tr>
<td>Base:</td>
<td></td>
</tr>
<tr>
<td>Walls:</td>
<td>Sound tight CMU to deck. Acoustics should be considered to enhance sound system.</td>
</tr>
<tr>
<td>Ceiling:</td>
<td>Acoustical ceiling above theatrical lighting grid (provide lighting grid in Drama Classroom only). Ceiling color to be black in both rooms, with black trim for ceiling mounted devices.</td>
</tr>
<tr>
<td>Ceiling Height:</td>
<td>16'-0&quot; clear below lighting grid</td>
</tr>
<tr>
<td>Doors:</td>
<td>Provide two 5'-6&quot;w double doors (one inactive and one active leaf), one set with access to backstage area and one set to corridor.</td>
</tr>
<tr>
<td>Windows:</td>
<td>(none)</td>
</tr>
</tbody>
</table>

HS8-F-3.5 Casework & Special Features:

**General**

1. In Dance Room only - Mirrors on two adjoining walls to be covered by black traveling perimeter curtains.
2. Lockable built-in storage cabinets on one short wall to accommodate sound system and lighting control board, as well as space for computer workstation and misc. storage. See also **HS-8 Appendices 1 & 2.**
3. See **HS-1 Appendix 1** for typical teaching wall requirements. Omit marker trays.
4. 4'-0" LF Tackboard.
5. One (1) synchronized wall-hung clock with batteries.

HS8-F-3.6 Furniture, Fixtures & Equip.:
HS8-F-3.7 Instruc. Mat & Equipment:

1. Provide water fountain recessed into wall.

HS8-F-3.8 Mechanical Criteria:

1. Provide duplex receptacles at 6'-0" intervals. On mirrored walls, install outlets sideways below mirrors.
2. See HS-1 Appendix 1 for typical teaching wall requirements.
3. Provide power as required for lighting grid.

HS8-F-3.9 Electrical Criteria:

**Power:**
1. Provide duplex receptacles at 6'-0" intervals. On mirrored walls, install outlets sideways below mirrors.
2. See HS-1 Appendix 1 for typical teaching wall requirements.
3. Provide power as required for lighting grid.

**Lighting:**
1. Provide recessed LED lighting, with sufficient footcandles for classroom instruction, in addition to theatrical lighting.
2. Theatrical lighting grid in Drama room only (similar to stage lighting):
   a. 12 Source 4 Pars.
   b. 12 Source 4 Ellipsoidals.
   c. 12 Source 4 Fresnels.
   d. Cables and accessories as required per project.

**Data & Other:**
1. Provide speaker cabling and hook-ups in four upper corners of room.
2. See HS-1 Appendix 1 for typical teaching wall requirements.
3. Provide power feed for sound system in cabinet.
4. Provide four (4) 2-port data outlets.
5. Sound system-jacks and speakers. See HS-8 Appendix 1.

HS8-F-3.10 Technology Criteria:
G-3. Physical Requirements

HS8-G-3.1 Space(s):

G. Cat Walk

HS8-G-3.2 Use:

1. Provides access to front of house lighting position.

HS8-G-3.3 Special Criteria:

1. Catwalk shall be width of stage.
2. Locate no less than 45° angle (from the vertical) from the apron, and no more than 60° angle.
3. Locate between ceiling and structure, hidden from view, over theater seating area.
4. One front of house position with adequate opening to illuminate the stage.
5. Should be accessed from ladder inside of chair storage.

HS8-G-3.4 Finishes and Features:

<table>
<thead>
<tr>
<th>General Notes:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Floor:</td>
</tr>
<tr>
<td>Floor Transitions:</td>
</tr>
<tr>
<td>Base:</td>
</tr>
<tr>
<td>Walls:</td>
</tr>
<tr>
<td>Ceiling:</td>
</tr>
<tr>
<td>Ceiling Height:</td>
</tr>
<tr>
<td>Doors:</td>
</tr>
<tr>
<td>Windows:</td>
</tr>
</tbody>
</table>

HS8-G-3.5 Casework & Special Features:

General

1. Provide security railings etc. for catwalks. Front railing should be unobstructed horizontal pipe system with rails spaced 24” O.C. (2 or 3) rails depending on site lines. Pipe should be 1-1/2 I.D. schedule 40 pipe. (2” O.D. maximum).

HS8-G-3.6 Furniture, Fixtures & Equip.: 

HS8-G-3.7 Instruc. Mat & Equipment:

HS8-G-3.8 Mechanical Criteria:
HS8-G-3.9 Electrical Criteria:

- **Power:**
  1. Two duplex outlets evenly spaced.

- **Lighting:**
  1. Work lights controlled from bottom of access ladder.

- **Data & Other:**
  1. Two (2) XLR audio mic lines, two (@) DMX lines and one (1) connection for Remote Focus Capabilities.
  2. Two (2) theatrical intercom connections spaced equidistant from center.

HS8-G-3.10 Technology Criteria:
H-3. Physical Requirements

HS8-H-3.1 Space(s):

H. Workroom

HS8-H-3.2 Use:

1. Assembly of scenery and props.

HS8-H-3.3 Special Criteria:

1. Adjacent to storage room with access through storage to stage wings, classroom and stage. Locate behind stage.
2. Provide access to external vehicular circulation by means of an overhead door.
3. Provide for easy movement of large props.
4. Sound isolate.

HS8-H-3.4 Finishes and Features:

<table>
<thead>
<tr>
<th>General Notes:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Floor:</td>
<td>Concrete</td>
</tr>
<tr>
<td>Floor Transitions:</td>
<td></td>
</tr>
<tr>
<td>Base:</td>
<td>Resilient top-set base</td>
</tr>
<tr>
<td>Walls:</td>
<td>Painted CMU</td>
</tr>
<tr>
<td>Ceiling:</td>
<td>(same as stage ceiling)</td>
</tr>
<tr>
<td>Ceiling Height:</td>
<td></td>
</tr>
<tr>
<td>Doors:</td>
<td>Two 8'-0&quot; x 10'-0&quot; electrically-operated overhead coiling doors, located out of sight lines, one to exterior and one to adjacent interior storage room. Provide 3'-0&quot; access door to storage area also.</td>
</tr>
<tr>
<td>Windows:</td>
<td></td>
</tr>
</tbody>
</table>

HS8-H-3.5 Casework & Special Features:

General
1. Service sink in 6'-0" LF counter with shelving below and above.
2. 8'-0" LF Multi-purpose board.
3. 4'-0" LF Tackboard.
4. 8’ –0” LF Pegboard.

Owner provide:
1. Shop vacuum for tools.

HS8-H-3.6 Furniture, Fixtures & Equip.:

HS8-H-3.7 Instruc. Mat & Equipment:
HS8-H-3.8 Mechanical Criteria:
1. Provide a deep utility sink with hot and cold water.
2. Provide air conditioning.
3. Provide manually switched exhaust fan vented directly outside.

HS8-H-3.9 Electrical Criteria:

**Power:**
1. Duplex outlets 8'-0" O.C. on all walls.
2. Emergency shut offs for all outlets.

**Lighting:**
1. Classroom lighting.
2. Provide switches at each door.

**Data & Other:**
1. Provide intercom.
2. Provide 2-port data outlet.

HS8-H-3.10 Technology Criteria:
I-3. Physical Requirements

HS8-I-3.1 Space(s):

I. Storage Room.

HS8-I-3.2 Use:

1. Flat, prop, and costume storage.

HS8-I-3.3 Special Criteria:

1. Adjacent to work room with direct access to stage wings, accessible from Dance/Drama classroom and stage.
2. Locate near loading dock if possible.
3. Separate 100 SF costume storage room within main Storage Room with access from Dance/Drama room only. (With mid & high level closet rods – include shelving above).

HS8-I-3.4 Finishes and Features:

| General Notes: |  |
| Floor: | VCT |
| Floor Transitions: |  |
| Base: | Resilient top-set base |
| Walls: | Painted CMU |
| Ceiling: | Same as stage and workroom |
| Ceiling Height: |  |
| Doors: | Two (2) 8'-0" x 10'-0" electrically-controlled overhead coiling doors. One door to lead to the stage and one to the workroom. Also include single doors to all adjacent spaces. Doors must be out of sight lines. |
| Windows: | (none) |

HS8-I-3.5 Casework & Special Features:

HS8-I-3.6 Furniture, Fixtures & Equip.:

HS8-I-3.7 Instruc. Mat & Equipment:

HS8-I-3.8 Mechanical Criteria:
HS8-I-3.9  Electrical Criteria:

**Power:**
1. Provide a minimum of eight (8) duplex outlets in the room.

**Lighting:**
1. Classroom lighting.

**Data & Other:**
1. Locate dimmers for stage and Dance/Drama room theatrical lighting in this room.

HS8-I-3.10  Technology Criteria:
J-3. Physical Requirements

HS8-J-3.1 Space(s):

**J. Chair Storage.**

HS8-J-3.2 Use:

1. Storage of chairs for auditorium, stage and dance/drama room.
2. Access to catwalks from ladder located in this space.

HS8-J-3.3 Special Criteria:

1. Locate to serve auditorium. May be incorporated into splayed section of walls in seating area.
2. May be divided into two spaces.

HS8-J-3.4 Finishes and Features:

<table>
<thead>
<tr>
<th>General Notes:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Floor: VCT or concrete</td>
</tr>
<tr>
<td>Floor Transitions:</td>
</tr>
<tr>
<td>Base: Resilient top-set base</td>
</tr>
<tr>
<td>Walls: Painted CMU. Provide wall and door protection plates wherever necessary.</td>
</tr>
<tr>
<td>Ceiling:</td>
</tr>
<tr>
<td>Ceiling Height:</td>
</tr>
<tr>
<td>Doors: Pair of 3'-0&quot; x 7'-0&quot; doors with removable center mullion.</td>
</tr>
<tr>
<td>Windows: (none)</td>
</tr>
</tbody>
</table>

HS8-J-3.5 Casework & Special Features:

HS8-J-3.6 Furniture, Fixtures & Equip.:

HS8-J-3.7 Instruc. Mat & Equipment:

HS8-J-3.8 Mechanical Criteria:

HS8-J-3.9 Electrical Criteria:

**Power:**
1. One (1) duplex outlet.

**Lighting:**

**Data & Other:**

HS8-J-3.10 Technology Criteria:
CROSS SECTION OF STAGE

- Overhead Borders
- Traveling Cyclorama
- Lighting Battens
- Rear Traveler
- Legs
- Front of House Light
- Batten
- Projection Screen
- Valence
- Main Drape
1. General Educational Requirements

**HS9.01-1.1 Objectives**

1. The Family and Consumer Sciences (FACS) Education curriculum seeks to integrate state-of-the-art technology while fostering a cooperative learning environment for critical thinking, decision making, problem-solving, evaluation, creativity and the application of new ideas. Hands-on activities that explore and apply interdisciplinary learning help students prepare for making informed consumer decisions and applying practical life skills, as well as, assisting students in making educational career choices.

2. Develop social and communication skills for use in the home and workplace, encourage life long learning, introduce students to FACS Education and explore these areas for interest and possible future study.

3. Provide students with life management skills in a barrier free environment through the following courses:
   a. Personal Finance.
   b. Child Development.
   c. Apparel Development.
   d. Foods.
   e. Food Technology.
   f. Prostart.
   g. Housing and Interiors.
   h. Early Childhood Education.
   i. Culinary Arts and Hospitality.
   j. FACS Advanced Studies.
   k. Principles of Family and Human Services.

**HS9.01-1.2 Trends**

1. Family and Consumer Sciences (FACS) curricula will mirror broader educational trends emphasizing active cooperative learning environments. Increased integration and implementation of technology based tools and equipment in all content areas.

2. Incorporation of new technologies to perform traditional tasks.

3. Flexible use of space.

4. Concurrent learning with increased independent work.

5. Peer group learning.

6. CAD use for interior design with three-dimensional imaging capabilities.

7. Increased emphasis on hands-on activities that apply basic and problem-solving skills.

8. Increased need for skilled workforce in the hospitality industry.
HS9.01-1.3 Activities and Enrollment

1. Enrollment for courses ranges from 20-30.
2. The nature of the courses necessitates the use of a combination of stationary and portable workstations that can be re-configured for a variety of different activities.
3. Grouping include: individual, small group, whole class.
4. Activities include: Lecture, Teacher/student demonstration/preparation, audio-visual presentations, testing.
5. Movement of students and teacher is the norm. Different activities occur simultaneously throughout the facility.
2. Space Overview

HS9.01-2.1 Required Spaces

Reference:

<table>
<thead>
<tr>
<th>Identifier</th>
<th>Space</th>
<th>Quantity</th>
<th>Area Each (SF)</th>
<th>Area Total (SF)</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>FACS Food Lab w/ (5) food lab stations</td>
<td>1</td>
<td>1,700</td>
<td>1,700</td>
</tr>
<tr>
<td>B</td>
<td>FACS Food Lab Storage</td>
<td>1</td>
<td>130</td>
<td>130</td>
</tr>
<tr>
<td>C</td>
<td>FACS Design Classroom</td>
<td>1</td>
<td>1,470</td>
<td>1,470</td>
</tr>
<tr>
<td>D</td>
<td>Dressing/Storage Room</td>
<td>1</td>
<td>60</td>
<td>60</td>
</tr>
<tr>
<td>E</td>
<td>FACS Classroom</td>
<td>1</td>
<td>940</td>
<td>940</td>
</tr>
<tr>
<td>F</td>
<td>FACS CR Storage</td>
<td>1</td>
<td>60</td>
<td>60</td>
</tr>
</tbody>
</table>

Total 6 4,360

HS9.01-2.2 Design Considerations

1. Where possible Foods Lab should be on ground level, easily accessible to students and should have direct access to driveway for grocery pick-up and appliance repair. If on another level, locate as close to the elevator as feasible.

2. The school design should facilitate HVAC zoning of the FACS labs so that it may be managed separately from the rest of the building because of its own unique requirements and the need to separate it from Technology/Construction labs that may have problems with chemical and saw dust transmission.

3. Where possible FACS Foods Lab and the other FACS classrooms should be adjacent to maximize utilization of instructional materials, storage/dressing spaces and washer/dryer use.

4. Where corridor space is available, a lockable display area should be provided in an adjacent corridor. No space should be taken from this facility for the display case.

5. Include primary teaching wall similar to general classroom primary teaching wall within FACS Food Lab, FACS Design Classroom, and FACS Classroom.
2. Space Overview (continued)

HS9.01-2.3 Adjacency Diagram:
A-3. Physical Requirements

**HS9.01-A-3.1 Space(s):**

- **A. FACS Food Lab**

**HS9.01-A-3.2 Use:**

1. Food preparation and demonstrations, storage of food and utensils, lecture and large/small group instruction, cooperative learning activities, computer applications and demonstrations.

**HS9.01-A-3.3 Special Criteria:**

1. Provide five (5) distinct food lab stations (including one island demonstration station). Four food lab stations shall have a 4-burner free-standing range, microwave, sink, counter, cabinet and drawer space. The use of peninsulas and/or U-shaped areas is allowable to maximize counter and cabinet space while accommodating safe movement of students and clearly defining each station. Every effort shall be made to equitably distribute counter, cabinet and drawer space among the five food lab stations. Each 4-burner range must have proper venting to the outside, and appropriate clearances provided between the venting hood and the top of the burners. Avoid placing sinks back-to-back.

2. Provide a classroom area that does not overlap the kitchen area, and borders the primary teaching wall.

3. The island demonstration station shall be centrally located to facilitate viewing by all students and shall have a tilting mirror mounted above for student viewing of demonstrations to be placed so that it can view demonstration on both the range and countertop areas. Demo station shall have 4 burner cooktop with downdraft ventilation, and a dishwasher. It shall have a convection wall oven installed along perimeter in close proximity to demonstration station. Provide wall storage for demo station. Demo station shall not have wall or backsplash impeding student viewing.

4. The demonstration food lab station must be barrier free and meet ADA height regulations. It shall have a slide in range with controls on the front (height of range to be flush with countertop on each side of range), a countertop microwave, and a double sink for dishwashing that is accessible while sitting in a wheelchair. (without garbage disposal).

5. Two (2) refrigerators are to be provided in the food lab area, one of which is to be near the island demonstration station. If possible, place both refrigerators side by side.

6. Facilities and resources must be extremely flexible to accommodate movement of individuals, groups and activities as well as integration of tasks.

7. The configuration should be an open plan and facilitate visual control from all areas within the lab. No walls should divide space.

8. Lockable cabinets with versatile storage capabilities are to be placed wherever possible around perimeter walls. All cabinets should be keyed alike.

9. Microwaves and wall ovens shall be recessed and installed at a height appropriate for the safe removal of hot items. Coordinate width and depth of cabinetry with equipment.
**HS9.01-A-3.4 Finishes and Features:**

<table>
<thead>
<tr>
<th>General Notes:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Floor: Resilient flooring with a non-glare, matte finish.</td>
</tr>
<tr>
<td>Floor Transitions:</td>
</tr>
<tr>
<td>Base: Resilient top-set base</td>
</tr>
<tr>
<td>Walls: Painted CMU / gypsum wallboard</td>
</tr>
<tr>
<td>Ceiling: Acoustical ceiling panels</td>
</tr>
<tr>
<td>Ceiling Height: 9’-4”</td>
</tr>
<tr>
<td>Doors: Provide door with small vision panel.</td>
</tr>
<tr>
<td>Windows: 42” AFF minimum sill height to clear cabinetry.</td>
</tr>
</tbody>
</table>

**HS9.01-A-3.5 Casework & Special Features:**

**General**
1. Window blinds at all exterior windows.
2. See [HS-1 Appendix 1](#) for typical teaching wall requirements.
3. Tack strip on all walls where feasible.
4. Base for two flags.
5. One (1) Tilting mirror mounted above island demonstration station for student viewing of demonstrations to be placed so that it can view demonstration on both the range and countertop areas. Ceiling Mounted Tilting Mirror (similar to the ones at the following links: [http://trimworksinc.com/page/15p3e/Demonstration_Mirrors.htm](http://trimworksinc.com/page/15p3e/Demonstration_Mirrors.htm); or [http://www.meekmirrors.com/demonstrationmirror.asp](http://www.meekmirrors.com/demonstrationmirror.asp).
7. Paper towel dispensers.
8. One (1) synchronized wall-hung clock with batteries.

**Food Lab Stations**
1. Food lab stations shall each have storage as follows:
   a. 24”d x 36”h (34”h at demo station) lockable base cabinets with solid-surface countertop, and laminate drawers and adjustable shelving. Counter colors should be neutral.
   b. 16”d x 36”h lockable upper cabinets with adjustable shelving, to be installed 20” above base cabinets along perimeter walls. All cabinets to be keyed alike.
HS9.01-A-3.6  Furniture, Fixtures & Equip.:

Owner provide:
1. All small equipment, cookware, bakeware and cooking utensils.
2. (Owner’s Furniture & Equipment Specialist to provide other items per room data sheets).

Contractor provide:
1. Dishwasher with the following features: large capacity, stainless-steel tub, adjustable racks, several wash cycles, power miser option and small items/utility basket installed in or near island food lab station.
2. For island demonstration food lab station: One (1) 4-burner cooktop with the following features: controls to one side or center of the top, no backsplash, and exhaust hood above (similar to GE model JD630DF).
3. Each Food Lab station shall have a free-standing range with self-cleaning convection oven with two oven racks and see-through window and stand alone microwave in a recessed shelf above the counter with a minimum of 1000 watts. The Demo Food Lab station must be ADA compliant and contain all features included in other stations.
4. Four (4) heavy-duty garbage disposals (1 per sink, except at ADA station).
5. Two (2) Lockable, 20 cubic foot (minimum) frost-free refrigerators with the following features: top mount freezer, factory-installed icemaker, adjustable shelves and four crispers. To be installed with adjacent counter areas, near food lab stations.

HS9.01-A-3.7  Instruc. Mat & Equipment:

HS9.01-A-3.8  Mechanical Criteria:

1. Provide a down-draft exhaust vent for cooktop in island demo food lab station.
2. Provide exhaust hoods and vents that exhaust to the exterior for the other four ranges (do not use recirculating charcoal filter vents).
3. Provide a hot water heater for washing dishes and linens.
4. Provide hookup for dishwasher.
5. Provide hookups for two refrigerators with icemakers.
6. Hot water temperature should be at least 120 degrees to safely sanitize utensils and equipment. Provide recirculating loop to ensure hot water availability.
7. One (1) 3-compartment 30”L x 30”W x 14”D sink, with wall shelf, undershelf, and gooseneck faucets. (Sim. to Elkay Weldbilt triple-compartment scullery sink).
8. One (1) quick-recovery water heater with a minimum capacity of 100 gallons. Ensure capacity is sufficient to serve all sinks, dishwashers, and other equipment.
9. Four (4) 10”d x 33”l x 19 1/2”w 10D x 33L x 22W double compartment, stainless steel undermount sinks in solid surface countertops with 3 faucet holes and no spray attachments (similar to Elkay Lustertone LR-3319). Ensure that faucets are gooseneck of an appropriate size and do not swivel 180 degrees.
10. One (1) Accessible 33"x 19 1/2"w double compartment, stainless undermount steel sink with 3 faucet holes in solid surface countertop, gooseneck faucets and no spray attachments (similar to Elkay Lustertone LR-3319). (No garbage disposal). Make sink as deep as possible, while still meeting ADA requirements.

HS9.01-A-3.9 Electrical Criteria:

Power: 1. See HS-1 Appendix 1 for typical teaching wall requirements.

2. Provide separate wiring for each food lab station including a minimum of three duplex receptacles above the counter for small appliances. Provide electrical in recessed shelf above countertops for microwave. One circuit of each 120V and 240V should be provided for each food lab station (provide separate circuit for each major appliance).

3. Provide 110V outlets at 3'-0" intervals in the areas not used for cooking.

4. No floor outlets are to be used.

5. Provide five (5) duplex outlets coordinated with 2-port communication outlets on secondary wall.

6. Provide duplex electrical outlets below the countertop on the sides of the food island.

Lighting: 1. Provide under-cabinet lighting over kitchen workstations.

2. Lighting design shall efficiently combine use of daylighting with artificial lighting.

Data & Other: 1. Five (5) 2-port data outlets on secondary wall.

2. See HS-1 Appendix 1 for typical teaching wall requirements.

3. Provide circuit breaker panel with master switch to all appliances in food lab stations, accessible to teacher.

HS9.01-A-3.10 Technology Criteria:
B-3. Physical Requirements

HS9.01-B-3.1  Space(s):

| B. FACS Food Lab Storage |

HS9.01-B-3.2  Use:

1. This space will be used as a barrier-free, lockable pantry and storage space for equipment as well as a utility area for freezer, washer and dryer.

HS9.01-B-3.3  Special Criteria:

1. Locate to one side of FACS Food Lab so that overall visibility is not impaired. The space should allow for shelving and staging of equipment. Configuration and placement of doors should not interfere with stored materials or barrier free access.

2. Locate adjacent to dressing room with direct access if the FACS Design classroom is located adjacent to the Foods Lab.

HS9.01-B-3.4  Finishes and Features:

<table>
<thead>
<tr>
<th>General Notes:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Floor: VCT</td>
</tr>
<tr>
<td>Floor Transitions:</td>
</tr>
<tr>
<td>Base: Resilient top-set base</td>
</tr>
<tr>
<td>Walls: Painted CMU / gypsum wallboard</td>
</tr>
<tr>
<td>Ceiling: Acoustical ceiling panels</td>
</tr>
<tr>
<td>Ceiling Height:</td>
</tr>
<tr>
<td>Doors: Door to dressing room and solid lockable door to FACS Food Lab.</td>
</tr>
<tr>
<td>Windows:</td>
</tr>
</tbody>
</table>

HS9.01-B-3.5  Casework & Special Features:

<table>
<thead>
<tr>
<th>General</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Lockable wall cabinet above washer and dryer for storing cleaning supplies.</td>
</tr>
<tr>
<td>2. Built-in shelving of varying depths 12&quot;, 18&quot;, 24&quot;.</td>
</tr>
<tr>
<td>3. Provide 24&quot;d counter adjacent to laundry sink.</td>
</tr>
<tr>
<td>4. Soap dispenser and paper towel dispenser.</td>
</tr>
</tbody>
</table>
HS9.01-B-3.6  Furniture, Fixtures & Equip.:  

Contractor provide:  
1. One (1) heavy-duty, large capacity washing machine with the following features: top-loading, detergent/bleach dispenser and several wash cycles with varying water levels. Install in enclosed, well-ventilated space with overhead locking cabinets.  
2. One (1) heavy-duty, large capacity dryer with the following features: choice of automatic or timed cycles and varying temperature selections (Sears Kenmore 2662841 or equivalent). Install in enclosed, well-ventilated space with overhead locking cabinets.  
3. One (1) Freezer with minimum 13 cu ft capacity, frost-free, upright arrangement.

HS9.01-B-3.7  Instruc. Mat & Equipment:

HS9.01-B-3.8  Mechanical Criteria:  
1. Provide washer and dryer hook-ups and appropriate outside venting.  
2. Provide a laundry sink, no spray attachments.

HS9.01-B-3.9  Electrical Criteria:

Power:  
1. Two (2) duplex outlets on each wall.  
2. Provide 220V receptacle for dryer.  
3. Provide circuits and outlets for washer and dryer.
C-3. Physical Requirements

HS9.01-C-3.1  Space(s):

C. FACS Design Classroom

HS9.01-C-3.2  Use:

1. Space will be designated for lecture and large group instruction, cooperative learning activities, limited food preparation and demonstrations, storage of food and utensils, and computer applications.
2. Courses include Apparel Development, Housing and Interiors, and Principles of Family and Human Services.

HS9.01-C-3.3  Special Criteria:

1. Where possible, FACS Design Lab and the other FACS rooms should be adjacent to maximize utilization of instructional materials, storage/dressing spaces and washer/dryer use.
2. Food Lab Station must be ADA-compliant.

HS9.01-C-3.4  Finishes and Features:

<table>
<thead>
<tr>
<th>General Notes:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Floor:</td>
<td>VCT</td>
</tr>
<tr>
<td>Floor Transitions:</td>
<td></td>
</tr>
<tr>
<td>Base:</td>
<td>Resilient top-set base</td>
</tr>
<tr>
<td>Walls:</td>
<td>Painted CMU / gypsum wallboard</td>
</tr>
<tr>
<td>Ceiling:</td>
<td>Acoustical ceiling panels</td>
</tr>
<tr>
<td>Ceiling Height:</td>
<td></td>
</tr>
<tr>
<td>Doors:</td>
<td>to corridor</td>
</tr>
<tr>
<td>Windows:</td>
<td>Exterior windows required.</td>
</tr>
</tbody>
</table>
HS9.01-C-3.5  Casework & Special Features:

General
1. Window blinds at all exterior windows.
2. See [HS-1 Appendix 1](#) for typical teaching wall requirements.
3. One (1) 4'-0" x 8'-0" Multi-purpose board 35"AFF on secondary wall.
4. 30"d (seated height) counters extending on free wall space not including primary teaching wall.
5. 16"d x 36"h lockable upper cabinets with adjustable shelving, to be installed above counters on perimeter walls. All cabinets to be keyed alike.
6. Two (2) 7’hx3’wx12”d Bookshelves, with adjustable shelving.
7. One (1) synchronized wall-hung clock with batteries.

HS9.01-C-3.6  Furniture, Fixtures & Equip.:

Contractor provide:
1. A minimum of 114 – 3” deep tote boxes, in 2 cabinets 47.5"w x 84"h x 29"d (T2633 TMI Systems or equivalent).
2. One (1) Storage Cabinet w/ 6 drawers – 42”wX36”hX29”d (TMI D6851 or equivalent).

Owner's furniture and Equipment
Specialist provide:
1. Instructional Materials and Equipment per district list.
2. One (1) Chart and paper storage cabinet 34 1/2”w x 42”l x 35”h with 7 pullout drawers, installed on storage wall (Campbell Rhea 3894 or equivalent).
3. Other items as indicated in room data sheets.

HS9.01-C-3.7  Instruc. Mat & Equipment:

HS9.01-C-3.8  Mechanical Criteria:
1. Double sink with hot water, required for washing dishes and linens.
HS9.01-C-3.9  Electrical Criteria:

**Power:**
1. See [HS-1 Appendix 1](#) for typical teaching wall requirements.
2. Provide separate circuit for each major appliance.
3. Provide 120V duplex outlets at 2'-0" intervals approximately 42" AFF in the areas not used for cooking or the primary teaching wall.
4. Ten (10) duplex outlets to correspond to 2-port communication outlets approximately 42" AFF.
5. Provide duplex outlets for 25 sewing machines in regular spacing along the seating counters (at each work station).

**Lighting:**
1. Lighting design shall efficiently combine use of daylighting with artificial lighting.

**Data & Other:**
1. Ten (10) 2-port data outlets approximately 42" AFF on walls other than primary teaching wall and food lab station area.
2. See [HS-1 Appendix 1](#) for typical teaching wall requirements.
3. Provide circuit breaker panel with master switch to all appliances in classroom accessible to teacher, not easily accessible to students.

---

HS9.01-C-3.10  Technology Criteria:
D.3. Physical Requirements

HS9.01-D-3.1 Space(s):

**D. Dressing/Storage Room**

HS9.01-D-3.2 Use:

1. Dressing area for sewing classes
2. Storage of sewing machines.
3. Laundry.

HS9.01-D-3.3 Special Criteria:

1. Accessible directly from FACS Design Classroom.

HS9.01-D-3.4 Finishes and Features:

<table>
<thead>
<tr>
<th>General Notes:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Floor: VCT</td>
</tr>
<tr>
<td>Floor Transitions:</td>
</tr>
<tr>
<td>Base: Resilient top-set base</td>
</tr>
<tr>
<td>Walls: Painted CMU / gypsum wallboard</td>
</tr>
<tr>
<td>Ceiling: Acoustical ceiling panels</td>
</tr>
<tr>
<td>Ceiling Height:</td>
</tr>
<tr>
<td>Doors: Lockable door.</td>
</tr>
<tr>
<td>Windows:</td>
</tr>
</tbody>
</table>

HS9.01-D-3.5 Casework & Special Features:

**General**

1. Built-in dressing bench, 24”d x 54”w x 18”h.
2. One (1) Full-length mirror to be wall mounted opposite bench.
3. Minimum 4’-0” LF of clothes rod with shelf above.
4. 24”d full height shelving on remaining available wall.

HS9.01-D-3.6 Furniture, Fixtures & Equip.:

**Contractor provide:**

1. One (1) heavy-duty, large capacity washing machine with the following features: top-loading, detergent/bleach dispenser and several wash cycles with varying water levels. Install in enclosed, well-ventilated space.
2. One (1) heavy-duty, large capacity dryer with the following features: choice of automatic or timed cycles and varying temperature selections. Install in enclosed, well-ventilated space.

HS9.01-D-3.7 Instruc. Mat & Equipment:
HS9.01-D-3.8 Mechanical Criteria:
   1. Provide washer and dryer hook-ups and appropriate outside venting.

HS9.01-D-3.9 Electrical Criteria:
   1. Provide two (2) duplex outlets per wall.
   2. Provide 220V receptacle for dryer.
   3. Provide circuits and outlets for washer and dryer.

   Lighting:

   Data & Other:

HS9.01-D-3.10 Technology Criteria:
E-3. Physical Requirements

**HS9.01-E-3.1 Space(s):**

**E. FACS Classroom**

**HS9.01-E-3.2 Use:**

1. Space will be designated for lecture and large group instruction, cooperative learning activities, limited food preparation and demonstrations, storage of food and utensils, and computer applications.
2. Courses include Principles of Family and Human Services, Child Development, Early Childhood Education, and FACS Advanced Studies.

**HS9.01-E-3.3 Special Criteria:**

1. Where possible FACS Classroom and the other FACS rooms should be adjacent to maximize utilization of instructional materials, storage/dressing spaces and washer/dryer use.
2. Food Lab Station must be barrier free.

**HS9.01-E-3.4 Finishes and Features:**

<table>
<thead>
<tr>
<th>General Notes:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Floor:</td>
<td>VCT</td>
</tr>
<tr>
<td>Floor Transitions:</td>
<td></td>
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<tr>
<td>Base:</td>
<td>Resilient top-set base</td>
</tr>
<tr>
<td>Walls:</td>
<td>Painted CMU / gypsum wallboard</td>
</tr>
<tr>
<td>Ceiling:</td>
<td>Acoustical ceiling panels</td>
</tr>
<tr>
<td>Ceiling Height:</td>
<td>9'-4&quot;</td>
</tr>
<tr>
<td>Doors:</td>
<td>to corridor</td>
</tr>
<tr>
<td>Windows:</td>
<td>Exterior windows required.</td>
</tr>
</tbody>
</table>

**HS9.01-E-3.5 Casework & Special Features:**

**General**

1. Window blinds at all exterior windows.
2. See [HS-1 Appendix 1](#) for typical teaching wall requirements.
3. One (1) 4'-0" x 8'-0" Multi-purpose board 35"AFF on secondary wall.
4. 12"d Bookshelves, with adjustable shelving, installed to windowsill height in remaining space on storage wall.
5. Soap and Paper towel dispensers.
6. One (1) synchronized wall-hung clock with batteries.
HS9.01-E-3.6  Furniture, Fixtures & Equip.:  

**Contractor provide:** 
1. One (1) Barrier-free Food Lab Station, installed on storage wall, with the following: 
   a. One (1) Electric 4 burner cooktop, with nearby wall-mounted self-cleaning convection oven with two oven racks and see-through window. 
   b. One (1) 1000 watt (minimum) microwave oven. 
   c. One (1) 20 cubic foot capacity, frost-free refrigerator with the following features: top mount freezer, factory-installed icemaker, two adjustable shelves and two crispers. Doors should open towards adjacent counters. 
   d. One (1) Dishwasher with the following features: large capacity, stainless-steel tub, adjustable racks, several wash cycles, power miser option and small items/utility basket. 
   e. 24"d locking base cabinets with solid-surface countertop, laminate drawers and adjustable shelving. All cabinets to be keyed alike. 
   f. Locking upper cabinets 12"d x 36"h to be installed at 20" above base cabinet. 
   g. One (1) 10"d x 33"l x 19 1/2"w double compartment, stainless steel sink with individual controls, no spray attachments and knee space below (similar to Elkay Lustertone LR-3319). 
   h. One (1) lockable food storage cabinet. 
2. Cleaning utensil cabinet with overhead shelf 24 "w x 84"h x 24 1/2"d (7172 Campbell Rhea or equivalent). 
3. One (1) Teacher wardrobe cabinet with display shelves (TMI - T2592 or equivalent). 
4. A minimum of 57 – 3" deep tote boxes, in 1 cabinet, 47.5"wx84"hx29"d (T2633 TMI Systems or equivalent). 

**Owner's Furniture and Equipment Specialist provide:** 
1. Instructional Materials and Equipment per district list. 
2. One (1) Chart and paper storage cabinet 34 1/2"w x 42"l x 35"h with 7 pullout drawers, installed on storage wall (Campbell Rhea 3894 or equivalent). 
4. Other items as indicated in room data sheets. 

HS9.01-E-3.7  Instruc. Mat & Equipment: 

HS9.01-E-3.8  Mechanical Criteria:  
1. Provide exhaust vent for range. 
2. Hot water required for washing dishes and linens. 
3. Provide hook-up for refrigerator with icemaker. 
4. Provide hook-up for dishwasher.
HS9.01-E-3.9  Electrical Criteria:

**Power:**
1. See [HS-1 Appendix 1](#) for typical teaching wall requirements.
2. Provide separate circuit for each major appliance.
3. Provide 120 V and 240V outlets as required for all counter equipment used in food lab station.
4. Provide 120V outlets at 3'-0" intervals in the areas not used for cooking, including for 25 sewing machines in regular spacing along seating counters (at each work station).
5. Six (6) duplex outlets coordinated with 2-port communication outlets on secondary wall.

**Lighting:**
1. Lighting design shall efficiently combine use of daylighting with artificial lighting.

**Data & Other:**
1. Six (6) 2-port data outlets on one wall other than primary teaching wall.
2. See [HS-1 Appendix 1](#) for typical teaching wall requirements.
3. Provide circuit breaker panel with master switch to all appliances in classroom accessible to teacher, not easily accessible to students.

HS9.01-E-3.10  Technology Criteria:
F-3. Physical Requirements

HS9.01-F-3.1  Space(s):

**F. FACS Classroom Storage**

HS9.01-F-3.2  Use:

1. Storage area.

HS9.01-F-3.3  Special Criteria:

1. Locate to one side of and accessible to Storage if adjacent to FACS Foods Lab.

2. If stand-alone FACS Classroom, make accessible directly from classroom.

HS9.01-F-3.4  Finishes and Features:

<table>
<thead>
<tr>
<th>General Notes:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Floor:</td>
</tr>
<tr>
<td>VCT</td>
</tr>
<tr>
<td>Floor Transitions:</td>
</tr>
<tr>
<td>Base:</td>
</tr>
<tr>
<td>Resilient top-set base</td>
</tr>
<tr>
<td>Walls:</td>
</tr>
<tr>
<td>Painted CMU / gypsum wallboard</td>
</tr>
<tr>
<td>Ceiling:</td>
</tr>
<tr>
<td>Acoustical ceiling panels</td>
</tr>
<tr>
<td>Ceiling Height:</td>
</tr>
<tr>
<td>9'-4&quot;</td>
</tr>
<tr>
<td>Doors:</td>
</tr>
<tr>
<td>Lockable door</td>
</tr>
<tr>
<td>Windows:</td>
</tr>
</tbody>
</table>

HS9.01-F-3.5  Casework & Special Features:

**General**

1. 12”d, 18”d and 24”d full height shelving on two walls.

HS9.01-F-3.6  Furniture, Fixtures & Equip.:

HS9.01-F-3.7  Instruc. Mat & Equipment:

HS9.01-F-3.8  Mechanical Criteria:

1. Provide washer and dryer hool-ups and appropriate outside venting.

HS9.01-F-3.9  Electrical Criteria:

**Power:**

1. Provide two (2) duplex outlets per wall.

**Lighting:**

**Data & Other:**

1. Provide one (1) 2-port data outlet.

HS9.01-F-3.10  Technology Criteria:
1. General Educational Requirements

**HS9.02-1.1 Objectives**

1. Introduce skills for design projects that focus on problem solving.

**HS9.02-1.2 Trends**

1. Increased emphasis will be placed on learning theoretical concepts in the classroom and lab with practical application of skills.
2. Increased emphasis on computerized instructional activities.
3. Instruction will be self-paced with increased individual responsibility, centered on problem solving and creative thinking for groups and individuals.
4. The expectation of these course sequences are for students to be better prepared for the appropriate industry credentialing exams.

**HS9.02-1.3 Activities and Enrollment**

1. Whole class instruction.
2. Demonstration.
3. Construction and assembly.
5. Planning and design.
6. Individual work.
7. Whole class projects.
8. Small group projects.
9. Enrollment recommendations range from 16-25 students.
2. Space Overview

HS9.02-2.1 Required Spaces

Reference:

<table>
<thead>
<tr>
<th>Identifier</th>
<th>Space</th>
<th>Quantity</th>
<th>Area Each (SF)</th>
<th>Area Total (SF)</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>Technology Engineering &amp; Design CR</td>
<td>1</td>
<td>1,600</td>
<td>1,600</td>
</tr>
<tr>
<td>B</td>
<td>TE&amp;D Storage</td>
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<tr>
<td>Total</td>
<td></td>
<td>2</td>
<td></td>
<td>1,800</td>
</tr>
</tbody>
</table>

HS9.02-2.2 Design Considerations

1. These spaces should be integrated with general classrooms.
2. Space Overview (continued)

HS9.02-2.3  Adjacency Diagram:

Technology Engineering & Design CR

TE&D Storage
A-3. Physical Requirements

HS9.02-A-3.1 Space(s):

A. Technology Engineering & Design CR.

HS9.02-A-3.2 Use:

1. Lecture, demonstration of equipment.
2. Students will each have a computer and work area.

HS9.02-A-3.3 Special Criteria:

1. TE&D Storage area should open into classroom.
2. Make space as glare-free as possible.

HS9.02-A-3.4 Finishes and Features:

| General Notes: | | |
|----------------|-------------------|
| Floor: | VCT or sealed concrete |
| Floor Transitions: | | |
| Base: | Resilient top-set base |
| Walls: | Painted CMU / gypsum wallboard |
| Ceiling: | Acoustical ceiling panels |
| Ceiling Height: | 9'-4" |
| Doors: | To corridor and lockable storage area. |
| Windows: | Provide exterior windows. |

HS9.02-A-3.5 Casework & Special Features:

General
1. Window blinds at all exterior windows.
2. See HS-1 Appendix 1 for typical teaching wall requirements.
3. Open adjustable shelving.
4. One (1) Teacher wardrobe/storage cabinet (Campbell Rhea 5872 or equivalent).
5. Laminate counter 24"d x 34"h x 12'-0"l with 18"d locking cabinetry above and 24"d below, with single bowl sink.
8. One (1) wall mounted UV sterilizer/safety goggle cabinet (power required).
9. One (1) synchronized wall-hung clock with batteries.

HS9.02-A-3.6 Furniture, Fixtures & Equip.:

(Provided by Owner's Furniture & Equipment Specialist, see room data sheets)

HS9.02-A-3.7 Instruc. Mat & Equipment:

(Provided by Owner's Inst. Mat. & Equip. Specialist, including presentation tech. See Educational Equipment list.)
HS9.02-A-3.8 Mechanical Criteria:
1. Provide single compartment, stainless steel sink in base cabinet with hot and cold water.
2. Provide eyewash.

HS9.02-A-3.9 Electrical Criteria:

**Power:**
1. Provide power coordinated with communications outlets at 42” increments around the perimeter of the room. Mount 36” AFF. No power poles are allowed.
2. Provide buss bar with reels. Each reel shall have 4 outlets.
3. See [HS-1 Appendix 1](#) for typical teaching wall requirements.
4. Power for goggle sterilizer.

**Lighting:**
1. Lighting with multi-level and/or zoned switching.

**Data & Other:**
1. Provide 2-port data outlets with corresponding power at 42” increments around the room to support at least 20 student computer stations, 1 server and peripherals (total 30 drops).
2. See [HS-1 Appendix 1](#) for typical teaching wall requirements.
3. Locate intercom handset near smartboard technology.

HS9.02-A-3.10 Technology Criteria:
B-3. Physical Requirements

HS9.02-B-3.1  Space(s):

B. TE&D Storage.

HS9.02-B-3.2  Use:

1. A variety of project materials and computer hardware and software will be stored in this area.

HS9.02-B-3.3  Special Criteria:

1. Should be adjacent and directly accessible to Technology Engineering & Design CR.

HS9.02-B-3.4  Finishes and Features:

<table>
<thead>
<tr>
<th>General Notes:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Floor: VCT or sealed concrete</td>
</tr>
<tr>
<td>Floor Transitions:</td>
</tr>
<tr>
<td>Base: Resilient top-set base</td>
</tr>
<tr>
<td>Walls: Painted CMU / gypsum wallboard</td>
</tr>
<tr>
<td>Ceiling: Acoustical ceiling panels or exposed structure</td>
</tr>
<tr>
<td>Ceiling Height: 9'-4&quot;</td>
</tr>
<tr>
<td>Doors: Lockable door.</td>
</tr>
<tr>
<td>Windows:</td>
</tr>
</tbody>
</table>

HS9.02-B-3.5  Casework & Special Features:

General 1. Adjustable steel shelving 8’-0"h x 24"d along walls.

HS9.02-B-3.6  Furniture, Fixtures & Equip.:

HS9.02-B-3.7  Instruc. Mat & Equipment:

HS9.02-B-3.8  Mechanical Criteria:

HS9.02-B-3.9  Electrical Criteria:

Power: 1. Provide two (2) duplex outlets per wall.

Lighting:

Data & Other:

HS9.02-B-3.10  Technology Criteria:
1. General Educational Requirements

**HS9.03-1.1 Objectives**

1. **Business, Finance, and Information Technology Education:**
   a. Provide students with meaningful instruction for and about business. Instruction in this program encompasses business skills and techniques, an understanding of basic economics, and attitudes necessary to enable students to participate in our global economy as wage earners and consumers.
   b. Develop occupational and entrepreneurial skills necessary for initial employment and advancement in a business career.
   c. Develop economic understanding needed for intelligent participation in global economic systems.
   d. Develop background information for further study in the field of business.
   e. Develop computer literacy for personal use and work-related environments.
   f. Develop abilities needed to exercise and follow effective leadership in fulfilling occupational, social, and civic responsibilities.
   g. Develop interpersonal, teamwork, and leadership skills needed to function in diverse business and information technology settings.
   h. Collaborative learning.

2. **Marketing Education:**
   a. Prepare students for initial employment and advancement in marketing, and the management of enterprises engaged in marketing. The instructional program includes subject matter and learning experiences related to the performance of activities that direct the flow of goods and services from the producer to the consumer.
   b. Develop attitudes, skills, and knowledge related to marketing, managing and owning a business. Individuals are prepared to perform one or more marketing functions such as selling, buying, pricing, promoting, financing, transporting, storing, marketing research and marketing management.
   c. Make realistic career choices in marketing.
   d. Develop an understanding and appreciation of the social and economic values of the production, distribution, and consumption of goods and services.
   e. Increase students marketing occupational efficiency through classroom instruction, individual projects, on-the-job training, laboratory experiences, internships, and co-curricular student organization activities.
   f. Develop initiative and leadership.
   g. Develop the desire to further education in the field of marketing.
   h. Collaborative learning.
3. **Computer/Network Engineering Technology:**
   - a. Provide job skills for various Network Engineering Technology (NET), and Computer Engineering Technology (CET) occupations.
   - b. Introduce skills for design projects that focus on problem solving.
   - c. Emphasis is on PC/ network hardware and operating systems, architecture, protocols, design and security, and career development (NET).
   - d. Hands-on skills needed to design, set-up, maintain networks, install cabling, and configure vendor-specific routers and switches (NET).
   - e. Concepts of wide area networks, advanced router configurations, switched networks, VLANs, and simple vendor-specific network management protocols (NET).
   - f. Essential hardware competencies for an entry-level PC service technician (CET).
   - g. Explore, and provide the foundation for, various careers in Electronics, NET and CET.

**HS9.03-1.2 Trends**

1. Emphasis on developing marketable occupational and entrepreneurial skills.
2. Environments that echo the workplace, including flexible space for collaborative learning.
6. Increased emphasis of hands-on activities that apply basic and problem solving.

7. Instructional presentations by local businesses.
8. Increased emphasis on real world issues and project-based learning.
9. Cross curriculum interactive learning including on-line resources.
10. Increased availability of Web based instruction and on-line testing.
11. Increased emphasis will be placed on learning theoretical concepts in the classroom and lab with practical application of skills.
12. The expectation of these course sequences are for students to be better prepared for the appropriate industry credentialing exams.

**HS9.03-1.3 Activities and Enrollment**

1. Enrollment for courses ranges from 26-30.
2. Activities that are common to all courses include:
   - a. Industry standard computer applications.
   - b. Whole class and small group instruction.
   - c. Demonstrations.
   - d. Multi-media presentations.
   - e. Discussions.
   - f. Testing.
   - g. Simulations.
   - h. Projects.
   - i. On-line research.
   - j. On-line testing.
2. Space Overview

**HS9.03-2.1 Required Spaces**

Reference:

<table>
<thead>
<tr>
<th>Identifier</th>
<th>Space</th>
<th>Quantity</th>
<th>Area Each (SF)</th>
<th>Area Total (SF)</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>Business Computer Lab (BCL)</td>
<td>4</td>
<td>1,200</td>
<td>4,800</td>
</tr>
<tr>
<td>B</td>
<td>Marketing Education Lab</td>
<td>2</td>
<td>1,200</td>
<td>2,400</td>
</tr>
<tr>
<td>C</td>
<td>Work-Based Learning (WBL) Rooms</td>
<td>2</td>
<td>120</td>
<td>240</td>
</tr>
<tr>
<td>D</td>
<td>Computer/Network Engineering Technology CR</td>
<td>1</td>
<td>1,500</td>
<td>1,500</td>
</tr>
<tr>
<td>E</td>
<td>CNE Storage</td>
<td>1</td>
<td>100</td>
<td>100</td>
</tr>
</tbody>
</table>

Total 10 7,440

**HS9.03-2.2 Design Considerations**

1. Labs should be as distant as possible from cafeteria and classes with high noise levels, such as Career and Technical Education (CTE) construction labs and band areas.
2. Locate so that the Work-Based Learning rooms are shared between the Marketing Lab and one Business Computer Lab.
3. Integrate all six (6) labs with general classrooms. Do not isolate in a “CTE Wing”.
4. Keep at least two labs on same floor or Wing to allow sharing of textbooks/instructional materials/small equipment.
2. Space Overview (continued)

HS9.03-2.3 Adjacency Diagram:
A-3. Physical Requirements

HS9.03-A-3.1 Space(s):

A. Business Computer Lab

HS9.03-A-3.2 Use:

2. Computer Skills and Applications I, II and III and Exploring Business, Marketing, and Entrepreneurship are the courses taught in the Business labs.

HS9.03-A-3.3 Special Criteria:

1. The configuration should be open plan and facilitate visual control from all areas within the Labs. No walls of any kind should divide space.
2. Facilities and resources must be extremely flexible to accommodate movement of individuals, groups, furniture, equipment and activities as well as integration of tasks.

HS9.03-A-3.4 Finishes and Features:

<table>
<thead>
<tr>
<th>General Notes:</th>
<th>Carpet</th>
</tr>
</thead>
<tbody>
<tr>
<td>Floor:</td>
<td></td>
</tr>
<tr>
<td>Floor Transitions:</td>
<td></td>
</tr>
<tr>
<td>Base:</td>
<td>Resilient top-set base</td>
</tr>
<tr>
<td>Walls:</td>
<td>Painted CMU</td>
</tr>
<tr>
<td>Ceiling:</td>
<td>Acoustical ceiling panels</td>
</tr>
<tr>
<td>Ceiling Height:</td>
<td>9'-4&quot;</td>
</tr>
<tr>
<td>Doors:</td>
<td>To WBL rooms and corridor</td>
</tr>
<tr>
<td>Windows:</td>
<td>Exterior windows with non-glare treatment</td>
</tr>
</tbody>
</table>

HS9.03-A-3.5 Casework & Special Features:

**General**

1. Window blinds at all exterior windows.
2. See HS-1 Appendix 1 for typical teaching wall requirements.
3. Provide one 4'-0" x 4'-0" tackboard and one 4' x 8' markerboard on another wall.
4. Display Area: Tack strip on all walls where space will permit.
5. 3'-0" W x 6'-0" H wardrobe cabinet with adjustable shelves on rear wall.
6. One (1) synchronized wall-hung clock with batteries.

HS9.03-A-3.6 Furniture, Fixtures & Equip.:

(Provided by Owner's Furniture & Equipment Specialist, see room data sheets)
HS9.03-A-3.7 Instruc. Mat & Equipment: (Provided by Owner's Inst. Mat. & Equip. Specialist, including 30-32 computers, 2 networkable printers (2 laser, 1 color & 1 B&W)).

HS9.03-A-3.8 Mechanical Criteria:
1. Size HVAC system to include internal heat load generated by electronic equipment planned for the classroom.

HS9.03-A-3.9 Electrical Criteria:

**Power:**
1. See [HS-1 Appendix 1](#) for typical teaching wall requirements.
2. Accommodate collaborative learning: provide five floor boxes with a quad floor outlet and 5-port data outlets per location.
3. No power poles or raised “tombstone” receptacles.

**Lighting:**
1. Lighting should reduce glare.
2. Lighting design shall efficiently combine use of daylighting with artificial lighting.

**Data & Other:**
1. Surge protection for computer outlets at panel board.
2. See [HS-1 Appendix 1](#) for typical teaching wall requirements.
3. The computer facilities should be networked with the facilities in all other Business and Information Technology Education Computer Labs, Marketing Education Lab and the Business Faculty workstations in the Faculty offices.
4. Provide 35-port minimum (including the teacher drop) patch panel in the network hub cabinet.
5. 35 data outlets (including the teacher drop and network printer drops) should be paired with quad outlets at 36” increments around the perimeter of the room (two duplex electrical outlets for each duplex data outlet). Mount above work surface height (36” AFF). Teacher’s drop (2-port data outlet) should be on primary wall.
6. Specific layout requirements will be determined during design based on program emphasis and needs.

HS9.03-A-3.10 Technology Criteria:
B-3. Physical Requirements

HS9.03-B-3.1 Space(s):

B. Marketing Education Lab.

HS9.03-B-3.2 Use:

1. Marketing Education class activities.

HS9.03-B-3.3 Special Criteria:

1. The configuration should be open plan and facilitate visual control from all areas within the Labs. No walls of any kind should divide space.
2. Group with one Business Computer lab and WBL room.

HS9.03-B-3.4 Finishes and Features:

<table>
<thead>
<tr>
<th>General Notes:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Floor: Carpet</td>
</tr>
<tr>
<td>Floor Transitions:</td>
</tr>
<tr>
<td>Base: Resilient top-set base</td>
</tr>
<tr>
<td>Walls: Painted CMU, w/ one wall having a tackable surface</td>
</tr>
<tr>
<td>Ceiling: Acoustical ceiling panels</td>
</tr>
<tr>
<td>Ceiling Height: 9'-4&quot;</td>
</tr>
<tr>
<td>Doors: Provide door to corridor.</td>
</tr>
<tr>
<td>Windows: Exterior windows with non-glare treatment</td>
</tr>
</tbody>
</table>

HS9.03-B-3.5 Casework & Special Features:

General

1. Window blinds at all exterior windows.
2. See HS-1 Appendix 1 for typical teaching wall requirements.
3. Provide one 4'-0" x 4'-0" tackboard and one 4' x 8' markerboard on another wall.
4. Display Area: tack strip on all walls wherever space will permit, a minimum of 16'-0" LF.
5. Locking cabinets above tables on 2 walls.
6. 3'-0" W x 6'-0" H wardrobe cabinet with adjustable shelves on rear wall.
7. One (1) synchronized wall-hung clock with batteries.

HS9.03-B-3.6 Furniture, Fixtures & Equip.:

(Provided by Owner's Furniture & Equipment Specialist, see room data sheets)

HS9.03-B-3.7 Instruc. Mat & Equipment:

(Provided by Owner's Inst. Mat. & Equip. Specialist, including 30-32 Networkable Computers, and two networkable laser printers (1 color, one B&W).)
HS9.03-B-3.8 Mechanical Criteria:
1. Size HVAC system to include internal heat load generated by business machines planned for the classroom.

HS9.03-B-3.9 Electrical Criteria:

Power:
1. Four (4) duplex outlets on primary wall.
2. Accommodate collaborative learning: provide five floor boxes with a quad floor outlet and 5-port data outlets per location.
3. No power poles or raised “tombstone” receptacles.
4. See HS-1 Appendix 1 for typical teaching wall requirements.

Lighting:
1. Lighting should reduce glare and be noise free.
2. Lighting design shall efficiently combine use of daylighting with artificial lighting.

Data & Other:
1. Surge protection for computer outlets at panel board.
2. See HS-1 Appendix 1 for typical teaching wall requirements.
3. The computer facilities should be networked with the facilities in all other Business and Information Technology Education Computer Labs, Marketing Education Lab and the Business Faculty workstations in the Faculty offices.
4. Provide 35-port minimum (including the teacher drop) patch panel in the network hub cabinet.
5. 35 data outlets (including the teacher drop and network printer drops) should be paired with quad outlets at 36” increments around the perimeter of the room (two duplex electrical outlets for each duplex communications outlet). Mount above work surface height (36” AFF). Teacher’s drop (2-port data outlet) should be on primary wall.
6. Specific layout requirements will be determined during design based on program emphasis and needs.

HS9.03-B-3.10 Technology Criteria:
C. Physical Requirements

HS9.03-C-3.1  Space(s):  

C. Work-Based Learning (WBL) Rooms.

HS9.03-C-3.2  Use:

1. Small group work areas for career-based learning activities to include internship and cooperative education planning.
2. Special Populations Coordinator to work one-on-one or small group with students.
3. Career Academy Coordinator to work with students and/or Business Advisory members.

HS9.03-C-3.3  Special Criteria:

1. Locate between one Business Computer Lab and Marketing Lab.
2. Direct access from corridor as well as to one lab from each smaller area.

HS9.03-C-3.4  Finishes and Features:

<table>
<thead>
<tr>
<th>General Notes:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Floor:</td>
<td>Carpet</td>
</tr>
<tr>
<td>Floor Transitions:</td>
<td></td>
</tr>
<tr>
<td>Base:</td>
<td>Resilient top-set base</td>
</tr>
<tr>
<td>Walls:</td>
<td>Painted CMU</td>
</tr>
<tr>
<td>Ceiling:</td>
<td>Acoustical ceiling panels</td>
</tr>
<tr>
<td>Ceiling Height:</td>
<td>9'-4&quot;</td>
</tr>
<tr>
<td>Doors:</td>
<td>Provide door to corridor.</td>
</tr>
<tr>
<td>Windows:</td>
<td>Provide windows to adjacent CTE rooms.</td>
</tr>
</tbody>
</table>

HS9.03-C-3.5  Casework & Special Features:

<table>
<thead>
<tr>
<th>General</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Window blinds.</td>
<td></td>
</tr>
<tr>
<td>2. Two (2) Marker boards, 4'-0&quot; x 4'-0&quot;, one per room.</td>
<td></td>
</tr>
<tr>
<td>3. Two (2) Tackboards, 4'-0&quot; x 4'-0&quot;, one per room.</td>
<td></td>
</tr>
</tbody>
</table>

HS9.03-C-3.6  Furniture, Fixtures & Equip.:

HS9.03-C-3.7  Instruc. Mat & Equipment:

HS9.03-C-3.8  Mechanical Criteria:
**HS9.03-C-3.9**  Electrical Criteria:

- **Power:**
  1. One (1) duplex outlet on each wall.

- **Lighting:**

- **Data & Other:**
  1. Provide two (2) 2-port data outlets, one in each half of space.
  3. The WBL workroom should be networked with the facilities in all other Business and Information Technology Education Computer Labs, Marketing Education Lab and the Business Faculty workstations in the Faculty offices.

**HS9.03-C-3.10**  Technology Criteria:
C-3. Physical Requirements

HS9.02-C-3.1 Space(s):

C. Computer/Network Engineering CR.

HS9.02-C-3.2 Use:

1. Lecture, demonstration of equipment.
2. Students will each have a computer and work area.

HS9.02-C-3.3 Special Criteria:

1. Storage area should open into classroom.
2. Make space as glare-free as possible.

HS9.02-C-3.4 Finishes and Features:

<table>
<thead>
<tr>
<th>General Notes:</th>
<th>Floor: VCT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Floor Transitions:</td>
<td></td>
</tr>
<tr>
<td>Base:</td>
<td>Resilient top-set base</td>
</tr>
<tr>
<td>Walls:</td>
<td>Painted CMU / gypsum wallboard</td>
</tr>
<tr>
<td>Ceiling:</td>
<td>Acoustical ceiling panels</td>
</tr>
<tr>
<td>Ceiling Height:</td>
<td>9'-4&quot;</td>
</tr>
<tr>
<td>Doors:</td>
<td>To corridor and lockable storage area.</td>
</tr>
<tr>
<td>Windows:</td>
<td>Provide exterior windows</td>
</tr>
</tbody>
</table>

HS9.02-C-3.5 Casework & Special Features:

General
1. Window blinds at all exterior windows.
2. See HS-1 Appendix 1 for typical teaching wall requirements.
3. Provide one 4'-0" x 4'-0" tackboard and one 4' x 8' markerboard on another wall.
4. Open adjustable shelving.
5. One (1) Teacher wardrobe/storage cabinet (Campbell Rhea 5872 or equivalent).
6. Laminate counter with sink 24"d x 34"h x 12'-0"l with 18"d locking cabinetry above and 24"d below.
7. Soap dispenser.
9. One (1) wall mounted UV sterilizer/safety goggle cabinet.
10. One (1) synchronized wall-hung clock with batteries.

HS9.02-C-3.6 Furniture, Fixtures & Equip.:

(Provided by Owner's Furniture & Equipment Specialist, see room data sheets)
HS9.02-C-3.7 Instruc. Mat & Equipment:

(Provided by Owner's Inst. Mat. & Equip. Specialist, including presentation tech. See Educational Equipment List.)

HS9.02-C-3.8 Mechanical Criteria:

1. Provide single-compartment, stainless steel sink in base cabinet with hot and cold

HS9.02-C-3.9 Electrical Criteria:

Power: 1. Provide power coordinated with data outlets at 42” increments around the perimeter of the room. Mount 36” AFF. No power poles are allowed.
2. Provide buss bar with reels. Each reel shall have 6 outlets.
3. See HS-1 Appendix 1 for typical teaching wall requirements.

Lighting: 1. Lighting with multi-level and/or zoned switching.

Data & Other: 1. Provide 2-port data outlets with corresponding power at 42” increments around the room to support at least 20 student computer stations, 1 server and peripherals (total 40 drops).
2. See HS-1 Appendix 1 for typical teaching wall requirements.
3. Locate intercom handset near teaching wall.

HS9.02-C-3.10 Technology Criteria:
D.3. Physical Requirements

HS9.02-D-3.1 Space(s):

D. CNE Storage.

HS9.02-D-3.2 Use:

1. A variety of project materials and computer hardware and software will be stored in this area.

HS9.02-D-3.3 Special Criteria:

1. Should be adjacent and directly accessible to Computer/Network Engineering CR.

HS9.02-D-3.4 Finishes and Features:

<table>
<thead>
<tr>
<th>General Notes:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Floor:</td>
<td>VCT</td>
</tr>
<tr>
<td>Floor Transitions:</td>
<td></td>
</tr>
<tr>
<td>Base:</td>
<td>Resilient top-set base</td>
</tr>
<tr>
<td>Walls:</td>
<td>Painted CMU / gypsum wallboard</td>
</tr>
<tr>
<td>Ceiling:</td>
<td>Acoustical ceiling panels</td>
</tr>
<tr>
<td>Ceiling Height:</td>
<td>9'-4&quot;</td>
</tr>
<tr>
<td>Doors:</td>
<td>Provide lockable door.</td>
</tr>
<tr>
<td>Windows:</td>
<td></td>
</tr>
</tbody>
</table>

HS9.02-D-3.5 Casework & Special Features:

General

1. Adjustable steel shelving 8'-0"h x 24"d along walls.

HS9.02-D-3.6 Furniture, Fixtures & Equip.:

HS9.02-D-3.7 Instruc. Mat & Equipment:

HS9.02-D-3.8 Mechanical Criteria:

HS9.02-D-3.9 Electrical Criteria:

Power:

1. Provide two (2) quad outlets per wall.

Lighting:

Data & Other:

1. One (1) data outlet.

HS9.02-D-3.10 Technology Criteria:
1. General Educational Requirements

HS9.04-1.1 Objectives

1. **Trade & Industrial:**
   a. Develop a foundation for lifelong learning upon which later courses in specific subject areas can build.
   b. Help students develop positive attitudes and effective patterns of inquiry in problem solving.
   c. Create a supportive environment for collaborative teaching and learning.
   d. Integrate 21st Century literacy's/technology into all curricula.
   e. Provide enrichment opportunities to allow students to explore elective areas such as the arts, foreign languages and career and technical offerings.
   f. Facilitate better parent/student/teacher interaction through individual and group conferences
   g. Provide space that is flexible for both large and small groups.

2. **Agricultural Education/Greenhouse:**
   a. Integrate biological and physical sciences with technology as they relate to natural resources, food production, agribusiness and the environment.
   b. Provide and expand instruction in the broad field of horticulture, with emphasis on the scientific and technical knowledge for a career in the horticulture industry.
   c. Provide and expand instruction to environmental studies and natural resource management.
   d. Focus and expand upon the knowledge and skills needed to understand scientific methods and processes applied to food, fiber and environmental systems, with emphasis on computation and communication skills.
   e. The agriculture education program deals specifically in an organized and systematic manner with the acquisition of skills, understanding, attitudes, and abilities that are necessary for entry into or progress in an agriculture or agriculture-related occupation.
   f. Provide students with skills and knowledge to utilize landscape plans creatively to beautify and enrich their personal lives and their communities.
   g. Provide students with agricultural skills in a barrier free environment through the following programs of study:
      - Agriscience Applications.
      - Horticulture.
      - Animal Science.
      - Biotechnology & Agriscience Research.
      - Environmental and Natural Resources.
      - Agricultural Advanced Studies.
3. *Culinary Lab:*
   a. The Culinary Sciences Education curriculum seeks to integrate state-of-the-art technology while fostering a cooperative learning environment for critical thinking, decision making, problem-solving, evaluation, creativity and the application of new ideas. Hands-on activities that explore and apply interdisciplinary learning helps students prepare for careers in the culinary and hospitality industry.

   b. Develop social and communication skills for use in the home and workplace, encourage life long learning, introduce students to Culinary Education and explore these areas for interest and possible future study.

   c. Provide students with life management skills in a barrier free environment through the following courses: Culinary Arts and Hospitality, ProStart, and Advanced Studies.

HS9.04-1.2 *Trends*

1. *Trade & Industrial:*
   a. Computers will be increasingly used in the following teaching situations:
   b. Simulations of situations that would be expensive, difficult or impossible to create in the traditional classroom or laboratory.
   c. Creation of differentiated instruction to accommodate various learning styles and interests.
   d. Access to multimedia learning environments.
   e. Performing complex calculations with the computer to allow more time for interpretation, critical thinking and discussion of data.
   f. Using the computer network to access information from wide-ranging sources and collaborate on projects.
   g. Emphasis on group projects and cooperative effort.
   h. Cooperative educational strategies between the school, the professional and working communities.
   i. Heterogeneous grouping including physically, mentally and emotionally differently abled students.
   j. Less emphasis on details, specific information and vocabulary and more emphasis on ideas, problem solving and thinking skills.
   k. Discussion and exploration of ethical and moral questions arising from exploration in the various subject areas.
   l. Teacher acting as a facilitator and advisor rather than a disseminator of information. Shift from teacher demonstrations to student experimentation and from rigidly structured exercises to open inquiry to better prepare the student to ask questions later in life.

   m. Decision-making and problem solving will be increasingly emphasized in process-based instruction and assessment.
   n. Integrated science approach will focus on interdisciplinary learning.
   o. Available technology will revise our definitions of “school” and “teacher”, and impact the relationship between teacher and learner. Teachers will move toward facilitating and helping students identify resources and strategies, rather than dispensing information.
p. Computers and advanced technology will become the norm rather than the exception and will become more affordable. Adequate technology resources are essential; as integrated video and telecommunications tools are merged into a more creative and user friendly synthesis.
q. Increased use of change to technology will impact how we use, store, and access information, as well as how we plan space for computer stations.
t. More class time will be spent doing experimentation with a goal of 50% experimentation and 50% lecture/whole class time.

2. Agricultural Education Classroom and Greenhouse:
a. Creating individualized instruction to accommodate various learning styles and interests.
b. Access to multimedia learning environments.
c. Emphasis on group projects and cooperative effort.
d. Cooperative educational strategies between the school, the professional and working communities.
e. Heterogeneous grouping including physically, mentally and emotionally differently-abled students.
f. Discussion and exploration of ethical and moral questions arising from exploration in the subject area.
g. Teacher acting as facilitator and advisor rather than disseminator of information. Shift from teacher demonstrations to student experimentation and from rigidly structured exercises to open inquiry to better prepare the student to ask questions later in life.

h. Decision-making and problem solving will be increasingly emphasized in process-based instruction and assessment
i. Increased job opportunities the biotechnology field.
j. Increased emphasis on horticulture programs in response to suburban growth and job market.

3. Culinary Lab:
a. Culinary Sciences curricula will mirror broader educational trends emphasizing active cooperative learning environments. Increased integration and implementation of technology based tools and equipment in all content.
b. Incorporation of new technologies to perform traditional tasks.
c. Flexible use of space to include dining area.
d. Concurrent learning with increased independent work.
e. Peer group learning.
f. Increased emphasis on hands-on activities that apply basic and problem-solving skills.
g. Increased need for skilled workforce in the hospitality industry.
HS9.04-1.3 Activities and Enrollment

1. Trade & Industrial:
   a. Whole group presentation as well as small group activities.
   b. Listening, viewing, speaking and experimenting.
   c. Individual and class projects and displays.
   d. Collection and representation of data.
   e. Computer enhanced instruction.
   f. Ideally, 50%-60% of science classroom time will be devoted to laboratory and field exercises, though this is greatly dependent upon the curricula and the methods employed by each teacher.
   g. Record, organize and research data utilizing data banks and computers. Present, defend, and discuss findings.
   h. Individual and team experimentation.
   i. Maximum anticipated class size is 20 students.

2. Agricultural Education/Greenhouse:
   a. Whole group presentation as well as small group activities.
   b. Individual and class projects.
   c. Collection and representation of data.
   d. Computer assisted instruction.
   e. Laboratory and field exercises.
   f. Record, organize and research data utilizing data banks and computers.
   g. Collect and care for living biological specimens (i.e. plants and animals).
   h. Laboratory/fabrication activities and land laboratory activities. Activities include scientific investigation, design, repair, and fabrication of equipment and various structures and care of plants.
   i. Classroom study is combined with activities in greenhouses and environmental controlled houses. Lab teams consist of 2 to 4 students.
   j. Maximum class size = 25.

3. Culinary Lab:
   a. Enrollment for courses is 20 students maximum.
   b. The nature of the courses necessitates the use of a combination of stationary and portable workstations that can be re-configured for a variety of different activities.
   c. Groupings include: Individual, small group, whole class.
   d. Activities include: lecture, teacher/student demonstrations/preparation, audito-visual presentations, food preparation and service.
   e. Movement of students and teacher is the norm. Different activities occur simultaneously throughout the facility.
2. Space Overview

HS9.04-2.1 Required Spaces

<table>
<thead>
<tr>
<th>Identifier</th>
<th>Space</th>
<th>Quantity</th>
<th>Area Each (SF)</th>
<th>Area Total (SF)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aa</td>
<td>Classroom/Lab</td>
<td>1</td>
<td>1,800</td>
<td>1,800</td>
</tr>
<tr>
<td>Ab</td>
<td>Trade &amp; Industrial</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ac</td>
<td>Agricultural Education Classroom</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ad</td>
<td>Culinary Lab (1500 sf)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ae</td>
<td>Culinary Teaching Space (500 sf)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Af</td>
<td>Culinary Office (120 sf)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Af</td>
<td>Culinary Toilet Room (56 sf)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ba</td>
<td>Material Storage</td>
<td>2</td>
<td>200</td>
<td>400</td>
</tr>
<tr>
<td>Bb</td>
<td>T&amp;I Material Storage</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bc</td>
<td>Ag Educ. Material Storage</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bd</td>
<td>Culinary Storage</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bc</td>
<td>Food Storage (150 SF)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bd</td>
<td>Washer/Dryer Storage (50 sf)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>C</td>
<td>Tool Storage</td>
<td>2</td>
<td>200</td>
<td>400</td>
</tr>
<tr>
<td>D</td>
<td>Exterior Greenhouse *</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>E</td>
<td>Exterior Agricultural Storage *</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td>5</td>
<td></td>
<td>2,600</td>
</tr>
</tbody>
</table>

* See HS20-Site for SF requirements.

HS9.04-2.2 Design Considerations

1. Trade & Industrial:
   a. Provide dumpster in close proximity. Ag Mechanics, Ag Lab, Masonry, Auto Tech. cannot dispose of building materials in regular trash.
   b. The facility should be on ground level with direct access to driveway and in close proximity to the greenhouse.
   c. Due to noise producing equipment, locate away from quiet areas.
   d. Movement of students and teacher is the norm. Different activities occur simultaneously throughout the facility. The configuration should facilitate visual control from all areas within the lab.
   e. Students should enter directly into classroom/lab.
2. Agricultural Education/Greenhouse:
   a. In site development consideration should be given to identifying and preserving
      natural features that could be resources for the Ag Ed programs, (i.e. garden plots,
      outcroppings, streams, wooded areas and marshes.)
   b. The facility should be on ground level with direct access to driveway and in close
      proximity to the greenhouse. Preferred location for Greenhouse is directly outside
   c. Due to noise producing equipment, locate away from quiet areas.
   d. Movement of students and teacher is the norm. Different activities occur
      simultaneously throughout the facility. The configuration should facilitate visual control
      from all areas within the lab.
   e. Students should enter directly into classroom/lab.

3. Culinary Lab:
   a. Culinary Lab should be on ground level, easily accessible to students and should
      have direct access to driveway for grocery pick-up and appliance repair. Lab should
      also be located near Child Nutrition Services (CNS) kitchen for shared use of grease
      traps, loading dock, dining space, etc..
   b. The school design should facilitate HVAC zoning of the Culinary lab so that it may
      be managed separately from the rest of the building because of its own unique
      requirements and the need to separate it from Technology/Construction labs that may
      have problems with chemical and saw dust transmission.
   c. Where corridor space is available, a lockable display area should be provided in an
      adjacent corridor. No space should be taken from this facility for the display case.
2. Space Overview (continued)

HS9.04-2.3 Adjacency Diagram:
Aa-3. Physical Requirements

HS9.04-Aa-3.1 Space(s):

**Aa. Trade & Industrial Classroom/Lab.**

HS9.04-Aa-3.2 Use:

1. Lecture, demonstration of equipment and projects, student projects and experiments. Students will work at four workbenches.

HS9.04-Aa-3.3 Special Criteria:

1. Allow space around perimeter for power equipment used to fabricate student projects.
2. Lab should have direct access as well as visual access to classroom area; there should be no "hidden areas".
3. Exterior double doors (overhead coiling door preferred) should be provided in lab for access to driveway.
4. Material storage area should be provided in lab, near exterior doors.
5. Tool storage area should be near workbench area.
6. Facilities, equipment and furnishings should be designed for a variety of activities and efficient movement of students.
7. One-hour fire rating required for room.

HS9.04-Aa-3.4 Finishes and Features:

<table>
<thead>
<tr>
<th>General Notes:</th>
<th>Sealed concrete. Floors around machines and work benches to be slip-resistant with special abrasive material. Provide traffic lines around work stations to be clearly marked with 2 inch wide yellow stripes.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Floor:</td>
<td></td>
</tr>
<tr>
<td>Floor Transitions:</td>
<td></td>
</tr>
<tr>
<td>Base:</td>
<td>Resilient top-set base</td>
</tr>
<tr>
<td>Walls:</td>
<td>Epoxy-painted CMU</td>
</tr>
<tr>
<td>Ceiling:</td>
<td>Acoustical ceiling panels or exposed structure.</td>
</tr>
<tr>
<td>Ceiling Height:</td>
<td>14'-0&quot;</td>
</tr>
<tr>
<td>Doors:</td>
<td>To corridor, adjacent classroom and lockable storage areas. Doors should be tightly sealed with weather stripping to prevent dust from entering the hallway and classroom. Provide pair of doors, or 8'-0&quot; x 8' – 0&quot; overhead coiling door (preferred) to exterior.</td>
</tr>
<tr>
<td>Windows:</td>
<td>Provide windows to exterior as well as into classroom.</td>
</tr>
</tbody>
</table>
HS9.04-Aa-3.5 Casework & Special Features:

General

1. Window blinds at all exterior windows.
2. Marker boards.
3. Tack strip on all walls where feasible.
4. Air compressor, with air drops located every 12’ along room perimeter with regulators.
5. One (1) 18”d x 36”h, min. 12'-0”l counter along one wall with open adjustable shelving below.
7. Soap dispenser.
8. One (1) wall mounted UV sterilizer/safety goggle cabinet (with power required).
9. A minimum of one (1) fire extinguishers within space.
10. One (1) synchronized wall-hung clock with batteries.

HS9.04-Aa-3.6 Furniture, Fixtures & Equip.:

(Provided by Owner’s Furniture & Equipment Specialist, see room data sheets)

HS9.04-Aa-3.7 Instruc. Mat & Equipment:

(Provided by Owner’s Inst. Mat. & Equip. Specialist)

HS9.04-Aa-3.8 Mechanical Criteria:

1. Provide utility sink with hot and cold water.
2. Provide separate HVAC zone.
3. Provide eyewash and emergency shower.
4. Compressor to be provided with air drops located every 12’ around perimeter of room. Provide compressed air outlets with regulators and 5/16 inch quick-clip couplings (male and female).
5. Mechanical ventilation system to be installed whenever natural ventilation is inadequate.
6. All heavy machinery shall be anchored to the floor.
HS9.04-Aa-3.9 Electrical Criteria:

**Power:**
1. Provide 120V and two (2) 240V outlets at a height of 36"AFF with maximum spacing of 10'-0" along walls. Power requirements to be coordinated with equipment layout.
2. Provide two (2) buss bars 120/240V below finished ceiling. Locate as per design layout.
3. Three (3) outlets on primary teaching wall.
4. Equipment must be installed by the electrical contractor.
5. Provide 120-V rail type convenience outlet with male and female plugs hanging above (20 inches) each of 8 workbenches. Rail to be securely braced from swinging.
6. Provide 120-V convenience outlets every 4 feet above all counter tops and along walls.
7. Provide overhead electrical system with branched outlets and starter switches for all machinery with power ratings to meet the furniture and equipment standards.
8. Provide two duplex outlets on each wall.
9. Provide one duplex outlet on teaching wall, above projection area, for installing technology equipment (such as an ultra short-throw projector). Box should be approximately 7'-0" AFF. (Verify exact specifications/locations with WCPSS Facility Planner).
10. Also on primary teaching wall, provide one duplex outlet, below projection area, not on center line. (Verify exact specifications/locations with WCPSS Facility Planner). Provide two (2) duplex outlets on casework wall.

**Lighting:**

**Data & Other:**
1. Provide master, automatic, electrical cut-off switches on two opposing walls, one by door to classroom to control all lab equipment power circuits and compressor. All switches must have cages.
2. 2-port data outlet for teaching computer on primary wall and 2-port data outlets on opposing walls for students (20 total drops in room).
3. Locate intercom handset near door to corridor.
4. Provide one (1) 2-port data outlet on primary teaching wall (for the teacher’s use).
5. Also on primary teaching wall, provide one (1) data port, approximately 7'-0" AFF. (Verify exact specifications/locations with WCPSS Facility Planner).
6. Provide a data outlet on each of the three remaining walls.
7. Provide data outlet above ceiling for Owner-provided wireless access point.

HS9.04-Aa-3.10 Technology Criteria:
Ab-3. Physical Requirements

HS9.04-Ab-3.1  Space(s):

**Ab. Agricultural Education Classroom**

HS9.04-Ab-3.2  Use:

1. Lecture, demonstration of equipment and projects, student projects and experiments.
2. Whole group and small group projects and presentation.
3. Computer activities.
4. Multi-disciplinary experimentation using a variety of technologies.
5. Demonstrations and all activities associated with performing scientific experiments. Lab students will work in pairs or in groups of four.
6. Accommodate 20 students.

HS9.04-Ab-3.3  3.3 Special Criteria:

1. Facilities, equipment and furnishings should be designed for a variety of activities and efficient movement of students.
2. Fixed lab counters to be located along one wall of lab area with additional adjustable height tables that can be configured to accommodate different learning activities.
3. Class area should consist of: Primary Wall - major teaching focus with writing surface, tack strips and communication outlet.
4. Arrange lab stations so that instructor can move quickly to all points in the room without obstruction. Safe egress is a major design consideration.
5. Create a pipe chase behind base cabinets by setting cabinets 6" from wall for sinks.
6. Safety shower and eyewash should be immediately accessible from lab stations. Do not locate beside door into corridor or under TV.
7. All secured cabinetry to be keyed alike per classroom.
8. In locating and sizing windows consideration should be given to potential glare on the television and computer screens and the need to control light.
9. Exterior double doors should be provided in lab for access to driveway.
10. Storage area should be provided in lab, near exterior doors.
11. Room must be one-hour fire rated.
12. Exterior hose bibs.
13. Stainless steel utility sink in close proximity to exterior door.
HS9.04-Ab-3.4 Finishes and Features:

<table>
<thead>
<tr>
<th>General Notes:</th>
<th>Potential presence of water needs to be considered in selection of wall and ceiling materials</th>
</tr>
</thead>
<tbody>
<tr>
<td>Floor:</td>
<td>VCT</td>
</tr>
<tr>
<td>Floor Transitions:</td>
<td></td>
</tr>
<tr>
<td>Base:</td>
<td>Resilient top-set base</td>
</tr>
<tr>
<td>Walls:</td>
<td>Painted CMU</td>
</tr>
<tr>
<td>Ceiling:</td>
<td>Moisture-resistant acoustical panels due to moisture and odor</td>
</tr>
<tr>
<td>Ceiling Height:</td>
<td>10'-0&quot; minimum</td>
</tr>
<tr>
<td>Doors:</td>
<td>To corridor and lockable storage area. Doors should be tightly sealed with weather stripping to prevent dust from entering the hallway. Provide exterior double door with removable mullion.</td>
</tr>
<tr>
<td>Windows:</td>
<td>Provide windows to exterior as well as into classroom (if adjacent). Windows should be located a minimum of 8&quot; above shelves or counters.</td>
</tr>
</tbody>
</table>

HS9.04-Ab-3.5 Casework & Special Features:

1. Window blinds at all exterior windows.
2. Perimeter 36"H fixed lab counters with work surface of epoxy resin (homogeneous throughout).
3. Base cabinets:
   a. (Reinforce 1" thick x 48"W shelves with continuous steel angle support along back lower edge.)
   b. Alternate 30"D x 48"W x 34"H locking sink cabinet (similar to Campbell Rhea 2362).
   c. 30"D x 48"W x 34"H door / shelf cabinet (similar to Campbell Rhea 1522).
4. Base cabinets - at each end of cabinet run: 30"D x 48"W x 36"H door / shelf and drawer stack cabinet (similar to Campbell Rhea 1714).
5. Four (4) deep epoxy resin sinks.
6. One (1) drying rack above each sink.
7. 15"D x 30"H wall cabinets with open adjustable shelves above base cabinets. Reinforce 1" thick x 48"W shelves with continuous steel angle support along back lower edge.
8. Tack strip on all walls where feasible.
9. Bracket for 32" TV and bracket for VCR – minimum 80" clearance under TV/VCR bracket per ADA.
11. Soap dispenser.
12. One (1) wall mounted UV sterilizer/safety goggle cabinet.
13. See HS-1 Appendix 1 for typical teaching wall requirements.
14. Four (4) 30" x 60" tables for lab stations and 15 - 2 person lecture format tables.
15. Provide fire extinguishers and signage per building code requirements.
16. One (1) synchronized wall hung clock with batteries.
HS9.04-Ab-3.6  Furniture, Fixtures & Equip.:
(Provided by Owner’s Furniture & Equipment Specialist, see room data sheets)

HS9.04-Ab-3.7  Instruc. Mat & Equipment:
(Provided by Owner’s Inst. Mat. & Equip. Specialist, including presentation tech. (LCD projector, smartboard, etc.), classroom computers, tablets, printers, TV brackets etc.)

HS9.04-Ab-3.8  Mechanical Criteria:
1. Provide three (3) sinks, (16"X24"X8") with center drain and hot and cold water, in casework. Provide one ADA-compliant 16" x 24" x 6" sink for ADA workstation.
2. Provide room with a master cut-off for all utilities in that room, i.e., water, electricity. Locate master cut-off in single location in teacher’s area of the room.
3. All faucets to be heavy duty (not gooseneck) and have backflow preventers (vacuum breakers).
4. All plumbing pipes to be corrosive resistant, and to have a dilution system.
5. All fittings to be vandal resistant.
6. One (1) barrier free shower/eyewash in location readily accessible to all lab stations with floor drain. Do not locate beside door or under TV.
7. Provide active ventilation in classroom/lab so if an accidental spill occurs the air in the room can be evacuated directly to the building exterior.
8. Zone HVAC and exhaust so class / lab and storage are separate from the rest of the school.
9. See Sustainable Design Criteria for guidance in the development of air conditioning and/or ventilation systems.
10. Provide one hose bibb on wall exterior to the double doors.
11. Provide one single compartment, large (36"w x 22" x 13"d) stainless steel countertop sink with a gooseneck faucet. Sink provided with a solids interceptor. Hot and cold water.
HS9.04-Ab-3.9  Electrical Criteria:

**Power:**
1. Provide 120V outlets at a height of 36" AFF with maximum spacing of 10'-0" along walls.
2. Provide one (1) buss bar 120/240V below finished ceiling. Locate as directed.
3. See HS-1 Appendix 1 for typical teaching wall requirements.
4. Provide a minimum of two (2) 120 volt duplex outlets per each wall for general use.
5. Provide one (1) 120 volt G.F.I. duplex outlet near the sink above the backsplash.
6. Provide a 120 volt duplex outlet for each permanent computer station.
7. If there is are inconsistencies between LEGS and the program equipment list, the required design shall use the higher number.
8. Need for 220V power to be determined during design.
9. Locate one (1) 4-plex outlet in the apron of the base cabinet at one side of each sink. Consider total load when planning circuitry.
10. Ten (10) duplex outlets for computers, on one wall.
11. Outlet for goggle sterilizer cabinet (coordinate with manufacturer's requirements).
12. Provide one duplex outlet on teaching wall, above projection area, for installing technology equipment (such as an ultra short-throw projector). Box should be approximately 7'-0" AFF. (Verify exact specifications/locations with WCPSS Facility Planner).
13. Also on primary teaching wall, provide one duplex outlet, below projection area, not on center line. (Verify exact specifications/locations with WCPSS Facility Planner).
14. Provide two duplex outlets on casework wall.

**Lighting:**
1. Lighting design shall efficiently combine use of daylighting with artificial lighting.
2. Multi-level and/or zoned switching.
Data & Other:

1. Locate intercom handset near door to corridor.
2. See HS-1 Appendix 1 for typical teaching wall requirements.
3. Provide a data outlet on each of the three remaining walls.
4. Provide data outlet above ceiling for Owner's provided wireless access point.
5. Six (6) 2-port data outlets on opposing walls for students (14 total drops in room).
6. Two way intercom with P.A. speaker.
7. Due to exterior grounds implication, lab is typically located adjacent to areas for greenhouse, planting and aquaculture tanks/ponds, etc.
8. Storage facilities for the accommodation of supplies and equipment, i.e., for gardening farm tools, tractor and other related equipment, fertilizer, need to be easily accessible from both the building and outdoor areas.

HS9.04-Ab-3.10 Technology Criteria:
Ac-3. Physical Requirements

HS9.04-Ac-3.1 Space(s):

**Ac. Culinary Lab**

HS9.04-Ac-3.2 Use:

1. Food preparation and demonstrations, storage of food and utensils, lecture and large/small group instruction, cooperative learning activities, computer applications and demonstrations.

HS9.04-Ac-3.3 Special Criteria:

1. There will be one full size instruction kitchen with at least four (4) student work areas in the center of the space. There will also be one (1) island demonstration station for the instructor. Each work area will have access to electrical. See HS-9.04 Appendix 1 and 2 for schematic layout.

2. There will be a classroom area that does not overlap into the Culinary Lab area and has a primary teaching wall.

3. Provide a pass-thru window between the Culinary Lab and the classroom area.

4. The island demonstration station will be centrally located to facilitate viewing by all. The island will also have an under-counter refrigerator, and a sink.

5. One (1) food prep area must be barrier free and meet ADA height regulations.

6. Cooler/freezer with independent walls.

7. Facilities and resources must be extremely flexible to accommodate movement of individuals, groups and activities as well as integration of tasks.

8. The configuration should be an open plan and facilitate visual control from all areas within the lab. No walls should divide space.

HS9.04-Ac-3.4 Finishes and Features:

<table>
<thead>
<tr>
<th>General Notes:</th>
<th>Quarry Tile (similar to CNS kitchen for Lab. Provide VCT in Classroom.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Floor:</td>
<td>Quarry Tile (similar to CNS kitchen) in Lab. Provide resilient base in Classroom.</td>
</tr>
<tr>
<td>Floor Transitions:</td>
<td>Wall behind hood is to be covered in stainless steel. Washable surface on remaining walls.</td>
</tr>
<tr>
<td>Base:</td>
<td>NSF-compliant washable acoustical ceiling panels</td>
</tr>
<tr>
<td>Walls:</td>
<td>Ceiling: 12'-0&quot;</td>
</tr>
<tr>
<td>Doors:</td>
<td>Provide door with vision panel to corridor</td>
</tr>
<tr>
<td>Windows:</td>
<td>(none)</td>
</tr>
</tbody>
</table>

HS9.04-Ac-3.5 Casework & Special Features:

General:

1. One (1) synchronized wall-hung clock with batteries.
HS9.04-Ac-3.6 Furniture, Fixtures & Equip.:  

**Contractor provide:**  
1. Refer to Floor Plan and Equipment list in **HS-9.04 - Appendices 1 and 2.**  
2. One (1) Washdown station (In plumbing contract)  
3. One (1) Fire Extinguisher cabinet.  

**Owner provide:**  
(Furniture and other equipment provided by Owner's Furniture & Equipment Specialist, see room data sheets)  

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HS9.04-Ac-3.7 Instruct. Mat & Equipment:  

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HS9.04-Ac-3.8 Mechanical Criteria:  

1. Exhaust system should carry food odors directly outside.  
2. Provide a hood with fire suppression for the ranges, fryers, griddles, skillets,  
3. Provide a quick recovery hot water heater for washing dishes and linens.  
4. Provide hookups for icemaker.  
5. Hot water temperature should be at least 120 degrees to safely sanitize utensils and equipment.  
6. Provide a hose reel for cleaning the floor.  
7. Provide a floor drain.  
8. One (1) handwash sink.  

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HS9.04-Ac-3.9 Electrical Criteria:  

**Power:**  
1. Provide separate wiring for each work area including a minimum of three duplex receptacles for small appliances. One circuit for each 120V and 240V should be provided for food prep areas.  
2. Provide 110V outlets at 3'-0" intervals in the areas not used for cooking.  
3. No floor outlets are to be used.  
4. Provide overhead power reels over each of five (5) worktables, with 4 outlets each.  

**Lighting:**  
1. Lighting design shall efficiently combine use of daylighting with artificial lighting.  

**Data & Other:**  
1. Provide circuit breaker panel with master switch to all appliances in lab (except cooler/freezer), accessible to teacher.  

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HS9.04-Ac-3.10 Technology Criteria:
Ad-3. Physical Requirements

HS9.04-Ad-3.1 Space(s):

Ad. Culinary Teaching Space.

HS9.04-Ad-3.2 Use:

1. Space will be designated for lecture and large group instruction, cooperative learning activities, limited food preparation and demonstrations, storage of food and utensils, and computer applications.

2. Courses include: ProStart I & II, Intro to Culinary Arts & Hospitality, Culinary Arts & Hospitality I & II.

HS9.04-Ad-3.3 Special Criteria:

HS9.04-Ad-3.4 Finishes and Features:

| General Notes: |  
| --- | --- |
| Floor: | VCT |
| Floor Transitions: |  
| Base: | Resilient top-set base |
| Walls: | Painted GWB |
| Ceiling: | Acoustical ceiling panels |
| Ceiling Height: |  
| Doors: | Provide door with vision panel to corridor |
| Windows: | Exterior windows required. |

HS9.04-Ad-3.5 Casework & Special Features:

General

1. Window blinds at all exterior windows.
2. Ten (10) half-height student lockers.
3. Coat racks for aprons.
4. See [HS-1 Appendix 1](#) for typical teaching wall requirements.
5. One (1) 4'-0" X 6'-0" white marker board with tack strip on secondary wall.
6. One (1) 4'-0" x 4'-0" tackboard (near door to corridor).
7. One (1) synchronized wall-hung clock with batteries.
HS9.04-Ad-3.6 Furniture, Fixtures & Equip.:  
(Provided by Owner's Furniture & Equipment Specialist, see room data sheets)

HS9.04-Ad-3.7 Instruc. Mat & Equipment:  
(Provided by Owner's Inst. Mat. & Equip. Specialist, including five computers and one printer)

HS9.04-Ad-3.8 Mechanical Criteria:

HS9.04-Ad-3.9 Electrical Criteria:

**Power:**
1. Five (5) duplex outlets coordinated with 2-port communication outlets on secondary wall.
2. Provide 120V duplex outlets at 2'-0" intervals approximately 42" AFF.
3. Ten (10) duplex outlets to correspond to 2-port communication outlets approximately 42" AFF.
4. See HS-1 Appendix 1 for typical teaching wall requirements.

**Lighting:**
1. Lighting design shall efficiently combine use of daylighting with artificial lighting.

**Data & Other:**
1. Ten (10) 2-port data outlets approximately 42” AFF on walls other than primary teaching wall and food lab station area.
2. Locate intercom handset near door to corridor.
3. See HS-1 Appendix 1 for typical teaching wall requirements.
4. Provide data outlet above ceiling for Owner-provided wireless access point.

HS9.04-Ad-3.10 Technology Criteria:
Ae-3. Physical Requirements

HS9.04-Ae-3.1 Space(s):

Ad. Culinary Office.

HS9.04-Ae-3.2 Use:

1. Space for teacher use.

HS9.04-Ae-3.3 Special Criteria:

HS9.04-Ae-3.4 Finishes and Features:

<table>
<thead>
<tr>
<th>General Notes:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Floor: VCT</td>
</tr>
<tr>
<td>Floor Transitions:</td>
</tr>
<tr>
<td>Base: Resilient top-set base</td>
</tr>
<tr>
<td>Walls: Painted GWB</td>
</tr>
<tr>
<td>Ceiling: Acoustical ceiling panels</td>
</tr>
<tr>
<td>Ceiling Height:</td>
</tr>
<tr>
<td>Doors: Door into Culinary Lab.</td>
</tr>
<tr>
<td>Windows: Provide 4' wide view window into Culinary Lab.</td>
</tr>
</tbody>
</table>

HS9.04-Ae-3.5 Casework & Special Features:

HS9.04-Ae-3.6 Furniture, Fixtures & Equip.:

(Provided by Owner's Furniture & Equipment Specialist, see room data sheets)

HS9.04-Ae-3.7 Instruc. Mat & Equipment:

HS9.04-Ae-3.8 Mechanical Criteria:

HS9.04-Ae-3.9 Electrical Criteria:

1. One (1) duplex outlet on three walls.

HS9.04-Ae-3.10 Technology Criteria:

1. One (1) 2-port data outlet on side wall desk location.
Af-3. Physical Requirements

HS9.04-Af-3.1 Space(s):

Af. Culinary Toilet Room.

HS9.04-Af-3.2 Use:

1. Unisex toilet room.

HS9.04-Af-3.3 Special Criteria:

HS9.04-Af-3.4 Finishes and Features:

<table>
<thead>
<tr>
<th>General Notes:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Floor:</td>
<td>VCT</td>
</tr>
<tr>
<td>Floor Transitions:</td>
<td></td>
</tr>
<tr>
<td>Base:</td>
<td>Resilient top-set base</td>
</tr>
<tr>
<td>Walls:</td>
<td>Painted GWB</td>
</tr>
<tr>
<td>Ceiling:</td>
<td>Acoustical ceiling panels</td>
</tr>
<tr>
<td>Ceiling Height:</td>
<td></td>
</tr>
<tr>
<td>Doors:</td>
<td>Solid door.</td>
</tr>
<tr>
<td>Windows:</td>
<td></td>
</tr>
</tbody>
</table>

HS9.04-Af-3.5 Casework & Special Features:

<table>
<thead>
<tr>
<th>General</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Grab bars.</td>
<td></td>
</tr>
<tr>
<td>2. Toilet Paper dispenser.</td>
<td></td>
</tr>
<tr>
<td>4. Soap dispenser.</td>
<td></td>
</tr>
<tr>
<td>5. Mirror over sink</td>
<td></td>
</tr>
</tbody>
</table>

HS9.04-Af-3.6 Furniture, Fixtures & Equip.:  

HS9.04-Af-3.7 Instruc. Mat & Equipment:

HS9.04-Af-3.8 Mechanical Criteria:

1. Sink with hot and cold water.
2. Toilet

HS9.04-Af-3.9 Electrical Criteria:

<table>
<thead>
<tr>
<th>Power:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1. One GFCI outlet near sink.</td>
<td></td>
</tr>
</tbody>
</table>

| Lighting: |  |
| Data & Other: |  |

HS9.04-Af-3.10 Technology Criteria:
Ba-3. Physical Requirements

HS9.04-Ba-3.1   Space(s):

    **Ba. Trade & Industrial Material Storage.**

HS9.04-Ba-3.2   Use:

    1. A variety of project materials and small equipment will be stored in this area.

HS9.04-Ba-3.3   Special Criteria:

    1. Should be adjacent to lab and near exterior door.

HS9.04-Ba-3.4   Finishes and Features:

<table>
<thead>
<tr>
<th>General Notes:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Floor:</td>
<td>Sealed concrete</td>
</tr>
<tr>
<td>Floor Transitions:</td>
<td></td>
</tr>
<tr>
<td>Base:</td>
<td>Resilient top-set base</td>
</tr>
<tr>
<td>Walls:</td>
<td>Painted CMU</td>
</tr>
<tr>
<td>Ceiling:</td>
<td>Acoustical ceiling panels or exposed structure.</td>
</tr>
<tr>
<td>Ceiling Height:</td>
<td>(match T&amp;IM lab height)</td>
</tr>
<tr>
<td>Doors:</td>
<td>Lockable 4'-0&quot; wide door to T&amp;IM Lab.</td>
</tr>
<tr>
<td>Windows:</td>
<td></td>
</tr>
</tbody>
</table>

HS9.04-Ba-3.5   Casework & Special Features:

    **General** 1. Ten (10) linear feet minimum of adjustable steel shelving 8’h x 18”d.

HS9.04-Ba-3.6   Furniture, Fixtures & Equip.:

HS9.04-Ba-3.7   Instruc. Mat & Equipment:

HS9.04-Ba-3.8   Mechanical Criteria:

HS9.04-Ba-3.9   Electrical Criteria:

    **Power:** 1. Two (2) duplex outlet per wall minimum.

    **Lighting:**

    **Data & Other:** 1. One (1) 2-port data outlet.

HS9.04-Ba-3.10  Technology Criteria:
Bb-3. Physical Requirements

HS9.04-Bb-3.1 Space(s):

**Bb. Ag. Educ. Material Storage**

HS9.04-Bb-3.2 Use:

1. A variety of project materials, chemicals, fertilizers and small equipment will be stored in this area.

HS9.04-Bb-3.3 Special Criteria:

1. Should be adjacent to lab and near exterior door.
2. Storage facilities for the accommodation of supplies and equipment, i.e. for gardening farm tools and other related equipment, fertilizer, need to be easily accessible from both the building and outdoor areas.

HS9.04-Bb-3.4 Finishes and Features:

<table>
<thead>
<tr>
<th>General Notes:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Floor:</td>
</tr>
<tr>
<td>Sealed concrete</td>
</tr>
<tr>
<td>Floor Transitions:</td>
</tr>
<tr>
<td>Base:</td>
</tr>
<tr>
<td>Resilient top-set base</td>
</tr>
<tr>
<td>Walls:</td>
</tr>
<tr>
<td>Painted CMU</td>
</tr>
<tr>
<td>Ceiling:</td>
</tr>
<tr>
<td>Acoustical ceiling panels</td>
</tr>
<tr>
<td>Ceiling Height:</td>
</tr>
<tr>
<td>(height to match Lab)</td>
</tr>
<tr>
<td>Doors:</td>
</tr>
<tr>
<td>Lockable door to Lab</td>
</tr>
<tr>
<td>Windows:</td>
</tr>
</tbody>
</table>

HS9.04-Bb-3.5 Casework & Special Features:

**General**

1. Ten (10) linear feet minimum of heavy duty adjustable steel shelving 8'h x 18"d. (as much shelving as will fit in the space). All shelving must be bolted to floor and wall.
2. Two (2) Hazardous Materials Storage Cabinets (One each for flammables and acid/corrosives).

HS9.04-Bb-3.6 Furniture, Fixtures & Equip.:

HS9.04-Bb-3.7 Instruc. Mat & Equipment:

HS9.04-Bb-3.8 Mechanical Criteria:

1. Enclosed storage areas for fertilizers, insecticides, equipment and oil/gas shall be ventilated to meet the requirements of the Building Code and Fire Code.
2. Provide active ventilation in storage so if an accidental spill occurs the air in the room can be evacuated directly to the building exterior.
3. Zone HVAC and exhaust so class/lab and storage are separate from the rest of the school.
HS9.04-Bb-3.9 Electrical Criteria:

- **Power:** 1. Two (2) duplex outlets on each wall.
- **Lighting:** 1. Multi-level and/or zoned switching.
- **Data & Other:**

HS9.04-Bb-3.10 Technology Criteria:
Bc-3. Physical Requirements

HS9.04-Bc-3.1 Space(s):

**Bc. Food Storage.**

HS9.04-Bc-3.2 Use:

1. This space will be used as a barrier free, lockable pantry and storage space for food/equipment.

HS9.04-Bc-3.3 Special Criteria:

1. Locate to one side of Culinary Lab so that overall visibility is not impaired. The space should allow for shelving and staging of equipment. Configuration and placement of doors should not interfere with stored materials or barrier free access.

2. Locate with direct access to lab.

HS9.04-Bc-3.4 Finishes and Features:

<table>
<thead>
<tr>
<th>General Notes:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Floor:</td>
<td>VCT</td>
</tr>
<tr>
<td>Floor Transitions:</td>
<td></td>
</tr>
<tr>
<td>Base:</td>
<td>Resilient top-set base</td>
</tr>
<tr>
<td>Walls:</td>
<td>Painted CMU / gypsum wallboard</td>
</tr>
<tr>
<td>Ceiling:</td>
<td>Acoustical ceiling panels</td>
</tr>
<tr>
<td>Ceiling Height:</td>
<td>9’-4”</td>
</tr>
<tr>
<td>Doors:</td>
<td>Lockable door with top half vision panel.</td>
</tr>
<tr>
<td>Windows:</td>
<td></td>
</tr>
</tbody>
</table>

HS9.04-Bc-3.5 Casework & Special Features:

HS9.04-Bc-3.6 Furniture, Fixtures & Equip.:

1. Stainless steel shelving on casters.

HS9.04-Bc-3.7 Instruc. Mat & Equipment:

HS9.04-Bc-3.8 Mechanical Criteria:

HS9.04-Bc-3.9 Electrical Criteria:

**Power:**

1. Two (2) duplex outlets on each wall.

**Lighting:**

**Data & Other:**

HS9.04-Bc-3.10 Technology Criteria:
Bd-3. Physical Requirements

HS9.04-Bd-3.1 Space(s):

**Bd. Washer and Dryer Storage**

HS9.04-Bd-3.2 Use:

1. This space will be used as a barrier free, storage space for equipment as well as a utility area for washer and dryer.

HS9.04-Bd-3.3 Special Criteria:

1. Locate to one side of Culinary Lab so that overall visibility is not impaired. The space should allow for shelving and staging of equipment. Configuration and placement of doors should not interfere with stored materials or barrier free access.
2. Locate adjacent to storage room with direct access.
3. Mop sink.

HS9.04-Bd-3.4 Finishes and Features:

<table>
<thead>
<tr>
<th>General Notes:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Floor:</td>
<td>VCT</td>
</tr>
<tr>
<td>Floor Transitions:</td>
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<td>Walls:</td>
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</tr>
<tr>
<td>Ceiling:</td>
<td>Acoustical ceiling panels</td>
</tr>
<tr>
<td>Ceiling Height:</td>
<td></td>
</tr>
<tr>
<td>Doors:</td>
<td>(space can be designed without door)</td>
</tr>
<tr>
<td>Windows:</td>
<td></td>
</tr>
</tbody>
</table>

HS9.04-Bd-3.5 Casework & Special Features:

HS9.04-Bd-3.6 Furniture, Fixtures & Equip.:

**Contractor provide:**

1. One (1) Heavy duty, large capacity washing machine with the following features: top-loading, detergent/bleach dispenser and several wash cycles with varying water levels. Install in enclosed, well-ventilated space with overhead locking cabinets.
2. One (1) Heavy duty, large capacity dryer with the following features: choice of automatic or timed cycles and varying temperature selections. Install in enclosed, well-ventilated space with overhead locking cabinets.
3. Lockable wall cabinet above washer and dryer for storing cleaning supplies.
4. Stainless steel shelving unit for chemicals and supplies.

HS9.04-Bd-3.7 Instruc. Mat & Equipment:

HS9.04-Bd-3.8 Mechanical Criteria:
HS9.04-Bd-3.9  Electrical Criteria:

**Power:**
1. Two (2) outlets on each wall.
2. Provide 220V receptacle for dryer.
3. Provide circuits and outlets for washer and dryer.

**Lighting:**

**Data & Other:**

HS9.04-Bd-3.10  Technology Criteria:

1. Provide washer and dryer hook-ups and appropriate outside venting.
2. Provide a mop sink, no spray attachments.
C-3. Physical Requirements

HS9.04-C-3.1 Space(s):

C. Tool Storage

HS9.04-C-3.2 Use:
1. Tools of varying sizes and materials will be stored in these areas.

HS9.04-C-3.3 Special Criteria:
1. Should be adjacent to workbench area in T&I Lab.

HS9.04-C-3.4 Finishes and Features:

<table>
<thead>
<tr>
<th>General Notes:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Floor:</td>
<td>Sealed concrete</td>
</tr>
<tr>
<td>Floor Transitions:</td>
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</tr>
<tr>
<td>Base:</td>
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</tr>
<tr>
<td>Walls:</td>
<td>Painted CMU</td>
</tr>
<tr>
<td>Ceiling:</td>
<td>Acoustical ceiling panels or exposed structure.</td>
</tr>
<tr>
<td>Ceiling Height:</td>
<td>(match Lab height)</td>
</tr>
<tr>
<td>Doors:</td>
<td>Lockable door.</td>
</tr>
<tr>
<td>Windows:</td>
<td></td>
</tr>
</tbody>
</table>

HS9.04-C-3.5 Casework & Special Features:

General
1. 18"d shelving from floor to 8'-0"h on one wall.
2. 24"d shelving from floor to 8'-0"h on one wall.
3. Remaining wall to have pegboard for clamps, etc. (Brodhead Garrett, model 180070 or equivalent).

HS9.04-C-3.6 Furniture, Fixtures & Equip.:  

HS9.04-C-3.7 Instruc. Mat & Equipment:

HS9.04-C-3.8 Mechanical Criteria:
1. Provide venting to exterior due to hazardous materials storage.

HS9.04-C-3.9 Electrical Criteria:

Power:
1. Two (2) duplex outlets per wall.

Lighting:

Data & Other:
1. One (1) data outlet.

HS9.04-C-3.10 Technology Criteria:
D-3. Physical Requirements

HS9.04-D-3.1 Space(s):

D. Greenhouse.

HS9.04-D-3.2 Use:

1. Agriculture curriculum includes food, fiber and environmental systems.
2. Whole group and small group projects and presentation.
3. Multi-disciplinary experimentation using a variety of technologies.
4. Greenhouse will be used for demonstrations and activities associated with plant production and management, and performing experiments.
5. Students will work in pairs or in groups of four.
6. The greenhouse itself is used as equipment to demonstrate maintenance techniques, proper care and use of systems such as lighting and irrigation.

HS9.04-D-3.3 Special Criteria:

1. The Green House shall include benches, irrigation drip and/or sprinkler systems, timers and hose bibbs. Provide pipes/wires for hanging baskets. The Green House will be used for vegetable crop production and hands-on horticultural learning experiences. The Green House shall have drip irrigation system with submain, connectors, and dripline, fertilizer injector, pressure regulator and valves. The outdoor areas shall be fenced in for security.
2. Locate on relatively flat, open space free of trees and other obstacles.
3. In identifying the location, consideration should be given to proximity of grouped toilets and Agricultural Education classroom space.
4. Relative ease of transporting the unit to the site is also important. Site should be buffered from vehicular traffic.
5. The aesthetic impact on the school campus should be considered.
6. Include tables.

HS9.04-D-3.4 Finishes and Features:

<table>
<thead>
<tr>
<th>General Notes:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Floor: Concrete pad.</td>
</tr>
<tr>
<td>Floor Transitions:</td>
</tr>
<tr>
<td>Base:</td>
</tr>
<tr>
<td>Walls: 8mm twinwall polycarbonate cover with aluminized shade cloth</td>
</tr>
<tr>
<td>Ceiling: (included in wall specs)</td>
</tr>
<tr>
<td>Ceiling Height:</td>
</tr>
<tr>
<td>Doors: Two (2) 3 x 7 twinwall hinged doors</td>
</tr>
<tr>
<td>Windows:</td>
</tr>
</tbody>
</table>
HS9.04-D-3.5 Casework & Special Features:

**General**
1. See Design Guideline section 13 34 13 "Greenhouses" for specifications.
2. Solenoid valve to control mist timing.
3. Cold water line to mist nozzles mounted every 3 feet along interior walls.
4. Ten (10) 6’x10’ free standing benches – expanded metal tops. One must be ADA-compliant.
5. Propagation table.

HS9.04-D-3.6 Furniture, Fixtures & Equip.:

HS9.04-D-3.7 Instruc. Mat & Equipment:

HS9.04-D-3.8 Mechanical Criteria:
1. Provide adequate water supply for green house, mist house, and garden irrigation requirements.
2. Provide hose bibbs and irrigation. Main supply shall be protected by approved backflow preventer device meeting requirements of the local Plumbing Code.
3. Main water lines shall have easily accessible shut-off.
4. Where natural gas is available, use for heating of greenhouse.
5. Heating, cooling and ventilation to be provided with greenhouse package.

HS9.04-D-3.9 Electrical Criteria:

**Power:**
1. Provide as indicated by green house supplier to support heating, cooling and ventilation.

**Lighting:**
1. Lighting is required.

**Data & Other:**
1. Conduit: For future electrical connection provide underground conduit and stub ups from nearest power panel in main building to the greenhouse site. The power panel should be designed with the required extra capacity.

HS9.04-D-3.10 Technology Criteria:
E-3. Physical Requirements

HS9.04-E-3.1 Space(s):

E. Exterior Agricultural Storage

HS9.04-E-3.2 Use:

1. Storage of agricultural equipment.
2. Storage of tractor.

HS9.04-E-3.3 Special Criteria:

1. Plan for safely storing and accessing agricultural equipment and tractor.
2. Should be placed on shared concrete pad with greenhouse.
3. Access from exterior – 6’ w minimal to allow for movement of tractor.

HS9.04-E-3.4 Finishes and Features:

<table>
<thead>
<tr>
<th>General Notes:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Floor:</td>
</tr>
<tr>
<td>Concrete</td>
</tr>
<tr>
<td>Floor Transitions:</td>
</tr>
<tr>
<td>Base:</td>
</tr>
<tr>
<td>Walls:</td>
</tr>
<tr>
<td>Ceiling:</td>
</tr>
<tr>
<td>Ceiling Height:</td>
</tr>
<tr>
<td>Doors:</td>
</tr>
<tr>
<td>Double 3'-0” Doors</td>
</tr>
<tr>
<td>Windows:</td>
</tr>
</tbody>
</table>

HS9.04-E-3.5 Casework & Special Features:

HS9.04-E-3.6 Furniture, Fixtures & Equip.:

HS9.04-E-3.7 Instruc. Mat & Equipment:

HS9.04-E-3.8 Mechanical Criteria:

HS9.04-E-3.9 Electrical Criteria:

HS9.04-E-3.10 Technology Criteria:
# EQUIPMENT SCHEDULE

<table>
<thead>
<tr>
<th>No.</th>
<th>Equipment Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>MIXER, 10 QT. WITH ATTACHMENTS (HOBART HL-120)</td>
</tr>
<tr>
<td>3</td>
<td>TABLE, STAINLESS STEEL, 2’-0” X 2’-0” WITH ROLLED EDGES. NO CASTERS. (EASTERN EQUIPMENT CO. MODEL # 350-30-14)</td>
</tr>
<tr>
<td>4</td>
<td>FOOD PROCESSOR (ROBOT COUPE CL50E)</td>
</tr>
<tr>
<td>5</td>
<td>MOBILE HEAT PROOF CABINET, ROLL THRU (SIMILAR TO TRUE MODEL STA2HRT-2S-25) WITH CASTERS</td>
</tr>
<tr>
<td>6</td>
<td>ICE MACHINE (400 LB. CAPACITY) WITH WATER FILTER AND STORAGE BIN (SIMILAR TO MANITOWAC MODEL RF-0300A)</td>
</tr>
<tr>
<td>7</td>
<td>MOBILE END-LOAD PAN RACK (SIMILAR TO METRO RD3N)</td>
</tr>
<tr>
<td>10</td>
<td>DOUBLE CONVECTION OVEN WITH STAINLESS STEEL BACK PANEL (BLODGETT MARK V)</td>
</tr>
<tr>
<td>11</td>
<td>MOBILE POT AND PAN SHELVING RACK, 50”W X 24”D X 68”H (SIMILAR TO METRO SUPER ERECTA W/ METROSEAL II COATING)</td>
</tr>
<tr>
<td>12</td>
<td>ROLL THRU REFRIGERATION. (SIMILAR TO TRUE MODEL STR 2RRT-2S-28)</td>
</tr>
<tr>
<td>13</td>
<td>SLICER (SIMILAR TO HOBART 2912)</td>
</tr>
<tr>
<td>14</td>
<td>WORKTABLE, 2’-6” X 6’-0” WITH 2 DRAWERS AND ONE UNDERSHELF EACH END. CUSTOM FABRICATED. NO CASTERS</td>
</tr>
<tr>
<td>15</td>
<td>THREE-COMPARTMENT SINK, 2’-8” X 12’-0” (30”W SINKS, WITH DRAIN BOARDS AND UNDERSHELF AT EACH END). CUSTOM FABRICATED.</td>
</tr>
<tr>
<td>15A</td>
<td>FOUR-COMPARTMENT SINK, 2’-6” X 12’-0” (28”W SINKS, WITH DRAIN BOARDS AND UNDERSHELF AT EACH END). CUSTOM FABRICATED.</td>
</tr>
<tr>
<td>16</td>
<td>MICROWAVE OVEN, DOUBLE-STACK (SIMILAR TO AMANA MODEL MS035) ON CUSTOM FABRICATED TABLE;</td>
</tr>
<tr>
<td>16B</td>
<td>MICROWAVE OVEN, SINGLE ON CUSTOM FABRICATED TABLE; OFCI-B</td>
</tr>
<tr>
<td>17</td>
<td>STAINLESS STEEL WALL SHELF, 8’-0”L (MOUNTED AT 5’-1” AFF)</td>
</tr>
<tr>
<td>18</td>
<td>DRYING RACK (SIMILAR TO METRO MODEL #PR48VX3)</td>
</tr>
<tr>
<td>19</td>
<td>HANDWASH SINK</td>
</tr>
<tr>
<td>21</td>
<td>WASHDOWN STATION (SIM TO T&amp;S MODEL MV-0771-12CW) IN PLUMBING CONTRACT</td>
</tr>
<tr>
<td>23</td>
<td>SILVER AND TRAY CADDY/STAND W/ PLEXIGLASS SIDES</td>
</tr>
<tr>
<td>24</td>
<td>HOT FOOD COUNTER W/ 5 RECESS WELLS. SINGLE SERVICE, ADJ. BUFFET SHIELD, SS DOOR W/ DRAIN VALVE BEHIND DOOR (COLORPOINT EF5-CPA)</td>
</tr>
<tr>
<td>25</td>
<td>CONVERTIBLE FOOD COUNTER W/ 4 RECESS WELLS, SINGLE SERVICE, 2-TIER DISPLAY, CURVED SNEEZE GUARDS, QUIK SWITCH COLD FOOD TABLE (UH-STOSHP-4F)</td>
</tr>
<tr>
<td>26</td>
<td>MOBILE HOT-TOP TABLE; DUAL SERVICE BUFFET; LED LIGHTS (COLORPOINT 36 CPS)</td>
</tr>
<tr>
<td>27</td>
<td>CASHIER STANDS W/ FULL-LENGTH SS TRAY SLIDES (COLORPOINT 50-CSE)</td>
</tr>
<tr>
<td>28</td>
<td>CONDIMIENT STATION (COLORPOINT 50-ST-EB)</td>
</tr>
<tr>
<td>29</td>
<td>REFRIGERATED MERCHANDISER (SIMILAR TO TRUE MODEL GDM-33CPT-54-LD)</td>
</tr>
<tr>
<td>30</td>
<td>EXHAUST HOOD, ABOVE. SEE MECHANICAL.</td>
</tr>
<tr>
<td>31</td>
<td>6 BURNER RANGE, OFCI-B</td>
</tr>
<tr>
<td>32</td>
<td>TWO COMPARTMENT FRYER (FRYMASTER H55-2)</td>
</tr>
<tr>
<td>33</td>
<td>24” GRIDLE, (BLODGETT-MODEL BR-36-G-36) OFCI-B</td>
</tr>
<tr>
<td>34</td>
<td>30 GALLON TILT-SKILLET (CLEVELAND POWER PAN SERIES, MODEL SGL-30-TI)</td>
</tr>
<tr>
<td>35B</td>
<td>COMBINATION OVEN/STEAMER (SIMILAR TO CLEVELAND MODEL OCG10.10)</td>
</tr>
<tr>
<td>35B</td>
<td>COMBINATION OVEN/STEAMER, DOUBLE-STACK (RATIONAL MODEL 62E); OFCI-B</td>
</tr>
<tr>
<td>36</td>
<td>DOUBLE STACK CONVECTION OVEN (BLODGETT MODEL DFG-200)</td>
</tr>
<tr>
<td>37</td>
<td>DEMO TABLE (UNDERCOUNTER REFRIGERATOR &amp; KNEE SPACE) W/ SINK - CUSTOM FABRICATION W/ UNDERCOUNTER REFRIGERATOR (TRUE MODEL TUC-36)</td>
</tr>
<tr>
<td>38</td>
<td>BAKING TABLE - CUSTOM FABRICATION</td>
</tr>
<tr>
<td>39</td>
<td>MIXER, 12 QUART. (SIMILAR TO HOBART HL-120)</td>
</tr>
<tr>
<td>40</td>
<td>STUDENT TABLE, 30” X 60” W/ UNDERSHELF AND DRAWER (CUSTOM FABRICATION); OFCI-B</td>
</tr>
<tr>
<td>40A</td>
<td>STUDENT TABLE, 30” X 60” W/ UNDERSHELF AND DRAWER, ACCESSIBLE UNIT (CUSTOM FABRICATION)</td>
</tr>
<tr>
<td>41</td>
<td>VEGETABLE PREP TABLE, 30” X 84” W/ SINK (CUSTOM FABRICATION)</td>
</tr>
<tr>
<td>41A</td>
<td>VEGETABLE PREP TABLE, 30” X 84” W/ SINK, ACCESSIBLE UNIT (CUSTOM FABRICATION)</td>
</tr>
<tr>
<td>42</td>
<td>STAINLESS STEEL SHELF (CUSTOM FABRICATION)</td>
</tr>
<tr>
<td>43</td>
<td>ICE MACHINE, 400 LB CUBER WITH 270 LB CAPACITY STORAGE BIN (SCOTSMAO/ 0030D WITH BSS30P)</td>
</tr>
<tr>
<td>44</td>
<td>PROOFER/HOLDING CABINET; OFCI-B</td>
</tr>
<tr>
<td>45</td>
<td>3 COMPARTMENT POT SINK (CUSTOM FABRICATION); OFCI-B</td>
</tr>
<tr>
<td>46</td>
<td>MOBILE PAN RACK (METRO MODEL N666EC)</td>
</tr>
<tr>
<td>48</td>
<td>SINKP Rep-WASH STACK TABLE (CUSTOM FABRICATION)</td>
</tr>
<tr>
<td>50</td>
<td>EMERGENCY STATION WITH FIRST AID KIT AND FIRE EXTINGUISHER - REFER TO SPEC FOR FIRE EXTINGUISHER AND LABORATORY EQUIPMENT</td>
</tr>
<tr>
<td>51</td>
<td>STAINLESS WALL STEEL SHELF - CUSTOM FABRICATION; OFCI-B</td>
</tr>
<tr>
<td>52</td>
<td>DISHWASHER UNIT, ADVASYS VENTLESS FRONT LOADING (HOBART MODEL AM15VLF)</td>
</tr>
<tr>
<td>53</td>
<td>SERVING COUNTER WITH STORAGE UNIT</td>
</tr>
<tr>
<td>54</td>
<td>WASHER, REFERR TO SPECIFICATION FOR RESIDENTIAL APPLIANCES</td>
</tr>
<tr>
<td>54A</td>
<td>DRYER, REFER TO SPECIFICATION FOR RESIDENTIAL APPLIANCES</td>
</tr>
<tr>
<td>55</td>
<td>STORAGE SHELVING, 2’ LONG X 12’ DEEP. ON CASTERS</td>
</tr>
<tr>
<td>56</td>
<td>STORAGE SHELVING, 4’ LONG X 18’ DEEP. ON CASTERS</td>
</tr>
<tr>
<td>57</td>
<td>STORAGE SHELVING, 4’ LONG X 12’ DEEP. ON CASTERS</td>
</tr>
<tr>
<td>58</td>
<td>STORAGE SHELVING, 3’-6” LONG X 18’ DEEP. ON CASTERS</td>
</tr>
<tr>
<td>59</td>
<td>STORAGE SHELVING, 3’ LONG X 16’ DEEP. ON CASTERS</td>
</tr>
<tr>
<td>60</td>
<td>UTILITY DISTRIBUTION UNIT</td>
</tr>
<tr>
<td>62</td>
<td>PAPER TOWEL DISPENSER, OFCI</td>
</tr>
<tr>
<td>63</td>
<td>HALF HEIGHT STUDENT LOCKERS</td>
</tr>
<tr>
<td>67</td>
<td>23” X 23” X 12” TWO COMPARTMENT STAINLESS STEEL SINK</td>
</tr>
<tr>
<td>68</td>
<td>STAINLESS STEEL WORK SURFACE</td>
</tr>
<tr>
<td>69</td>
<td>STAINLESS STEEL SERVING LEDGE</td>
</tr>
<tr>
<td>70</td>
<td>RANGE, OFCI-A</td>
</tr>
<tr>
<td>71</td>
<td>CHEST FREEZER, OFOI</td>
</tr>
<tr>
<td>72</td>
<td>DRINK COOLER, OFOI</td>
</tr>
<tr>
<td>73</td>
<td>POPCORN MACHINE, OFOI</td>
</tr>
<tr>
<td>74</td>
<td>COFFEE MAKER, OFOI</td>
</tr>
<tr>
<td>75</td>
<td>MICROWAVE, OFOI</td>
</tr>
<tr>
<td>76</td>
<td>WARMING EQUIPMENT, OFOI</td>
</tr>
<tr>
<td>77</td>
<td>SOAP DISPENSER, OFCI</td>
</tr>
<tr>
<td>78</td>
<td>KITCHEN LINE DIVIDER</td>
</tr>
<tr>
<td>80</td>
<td>WALK-IN COOLER</td>
</tr>
<tr>
<td>81</td>
<td>WALK-IN FREEZER</td>
</tr>
<tr>
<td>82</td>
<td>FOOD SERVICE SHELVING - METROMAX Q - 5 TIER WITH CASTERS 24” X 36”</td>
</tr>
<tr>
<td>83</td>
<td>DUNNAGE SHELVING - METRO BOW-TIE SERIES HP2236PD (24 X 36)</td>
</tr>
<tr>
<td>84</td>
<td>FOOD SERVICE SHELVING - METROMAX Q - 5 TIER WITH CASTERS 18” X 36”</td>
</tr>
</tbody>
</table>

HIGH SCHOOL CULINARY LAB EQUIPMENT LIST
1. General Educational Requirements

HS9.05-1.1 Objectives (Digital Media)
1. Provide job skills for various digital media and multimedia occupations.
2. Apply a holistic perspective to the interrelationship of other courses and digital media.
3. Introduce skills for designing digital and multimedia projects that focus on problem solving.
4. Explore, and provide the foundation for, various career opportunities associated with digital media careers.

HS9.05-1.2 Trends
1. Increased emphasis will be placed on learning theoretical concepts in the classroom and lab with practical application of skills.
2. Lab activities will be diverse, ranging from problem-solving strategies, representation methods, graphic procedures, animation, audio, video and web-based design.
3. Increased emphasis on computerized instructional activities.
4. Much of the instruction will be self-paced with increased individual responsibility, centered on problem solving and creative thinking for groups and individuals.

HS9.05-1.3 Activities and Enrollment
1. Whole class instruction.
2. Demonstration.
3. Experimentation.
5. Multi-media presentation.
7. Planning and design.
8. Individual work.
9. Whole class projects.
10. Small group projects.
11. Enrollment maximum 25 students.
2. Space Overview

**HS9.05-2.1 Required Spaces**

Reference:

<table>
<thead>
<tr>
<th>Identifier</th>
<th>Space</th>
<th>Quantity</th>
<th>Area Each (SF)</th>
<th>Area Total (SF)</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>Digital Media OR Tech Course TBD Lab</td>
<td>1</td>
<td>1,800</td>
<td>1,800</td>
</tr>
<tr>
<td>B</td>
<td>Storage</td>
<td>1</td>
<td>200</td>
<td>200</td>
</tr>
</tbody>
</table>

Total 2 2,000

**HS9.05-2.2 Design Considerations**

1. These spaces should be integrated with general classrooms.
2. Space Overview (continued)

HS9.05-2.3 Adjacency Diagram:
A-3. Physical Requirements

**HS9.05-A-3.1 Space(s):**

*A. Digital Media or Tech Course TBD Lab.*

**HS9.05-A-3.2 Use:**

1. Lecture, modeling, demonstration through projection.
2. Refer to Apex Friendship High School for optimal layout.

**HS9.05-A-3.3 Special Criteria:**

1. Storage area should open into classroom.
2. Make space as glare free as possible.
3. Each student will have a computer, for a total of 25 stations.
4. Facilities, equipment and furnishings should be designed for a variety of activities and efficient movement of students.

**HS9.05-A-3.4 Finishes and Features:**

<table>
<thead>
<tr>
<th>General Notes:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Floor: Carpet</td>
</tr>
<tr>
<td>Floor Transitions:</td>
</tr>
<tr>
<td>Base: Resilient top-set base</td>
</tr>
<tr>
<td>Walls: Painted CMU / gypsum wallboard, with one wall having tackable surface.</td>
</tr>
<tr>
<td>Ceiling: Acoustical ceiling panels</td>
</tr>
<tr>
<td>Ceiling Height: 9’-4”</td>
</tr>
<tr>
<td>Doors: To corridor and lockable Storage Room.</td>
</tr>
<tr>
<td>Windows: Exterior windows</td>
</tr>
</tbody>
</table>

**HS9.05-A-3.5 Casework & Special Features:**

General

1. Window blinds at all exterior windows.
2. See [HS-1 Appendix 1](#) for typical teaching wall requirements.
3. Provide one 4’-0” x 4’-0” tackboard and one 4’x 8’ markerboard on another wall.
4. Tack strip on all walls where feasible.
5. One (1) Teacher wardrobe/storage cabinet (Campbell Rhea 5872 or equivalent).
6. One (1) synchronized wall-hung clock with batteries.

**HS9.05-A-3.6 Furniture, Fixtures & Equip.:**

(Provided by Owner’s Furniture & Equipment Specialist, see room data sheets)
2. Provide 26-30 networkable computers and two (2) laser printers (1 color & 1 B&W).

HS9.05-A-3.8 Mechanical Criteria:
1. Size HVAC system to include internal heat load generated by machines planned for the classroom.

HS9.05-A-3.9 Electrical Criteria:

Power: 1. Provide power coordinated with communications outlets at 42” increments along three walls, at 36” AFF, to support 25 student computer stations and needed peripherals in various configurations. No power poles are allowed.
2. See HS-1 Appendix 1 for typical teaching wall requirements.

Lighting: 1. Lighting should be glare-free.
2. Lighting design shall efficiently combine use of daylighting with artificial lighting.

Data & Other: 1. Provide 2-port data outlets with corresponding power at 42” increments along three walls, 36” AFF, to support 25 student computer stations and peripherals in various configurations (32 total). No power poles are allowed.
2. See HS-1 Appendix 1 for typical teaching wall requirements.
3. Locate intercom handset near smartboard technology.
4. Surge protection for computer outlets at panel board.

HS9.05-A-3.10 Technology Criteria:
B-3. Physical Requirements

HS9.05-B-3.1  Space(s):

B. Storage Room.

HS9.05-B-3.2  Use:
1. Projects and materials of varying sizes and materials will be stored in these areas.

HS9.05-B-3.3  Special Criteria:
1. Should be adjacent to lab.

HS9.05-B-3.4  Finishes and Features:

<table>
<thead>
<tr>
<th>General Notes:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Floor:</td>
<td>VCT</td>
</tr>
<tr>
<td>Floor Transitions:</td>
<td></td>
</tr>
<tr>
<td>Base:</td>
<td>Resilient top-set base</td>
</tr>
<tr>
<td>Walls:</td>
<td>Painted CMU</td>
</tr>
<tr>
<td>Ceiling:</td>
<td>Acoustical ceiling panels</td>
</tr>
<tr>
<td>Ceiling Height:</td>
<td>(as high as possible)</td>
</tr>
<tr>
<td>Doors:</td>
<td>Lockable door</td>
</tr>
<tr>
<td>Windows:</td>
<td></td>
</tr>
</tbody>
</table>

HS9.05-B-3.5  Casework & Special Features:

General
1. Provide 18'' deep adjustable shelving from floor to 8'-0'' AFF on three walls.

HS9.05-B-3.6  Furniture, Fixtures & Equip.:

HS9.05-B-3.7  Instruc. Mat & Equipment:

HS9.05-B-3.8  Mechanical Criteria:

HS9.05-B-3.9  Electrical Criteria:

Power: 1. Two (2) duplex outlets on each wall.

Lighting:

Data & Other: 1. One (1) data outlet per wall.

HS9.05-B-3.10  Technology Criteria:
1. General Educational Requirements

HS9.06-1.1 Objectives
1. Introduce students to Health Science or Public Safety.
2. Activities integrate science, mathematics and language arts.
3. To introduce skills in various Health Science applications.
4. Explore, and provide the foundation for various career opportunities associated with Health Science or Public Safety.
5. Provide space that is flexible for both large and small groups.
6. Help students develop positive attitudes and effective patterns of inquiry in problem solving.
7. Create a supportive environment for collaborative teaching and learning.

HS9.06-1.2 Trends

HS9.06-1.3 Activities and Enrollment
1. Demonstration.
2. Experimentation.
4. Testing.
5. Individual work.
6. Whole class projects.
7. Small group projects.
8. Enrollment recommendations range from 20-30 students.
2. Space Overview

HS9.06-2.1 Required Spaces

Reference:

<table>
<thead>
<tr>
<th>Identifier</th>
<th>Space</th>
<th>Quantity</th>
<th>Area Each (SF)</th>
<th>Area Total (SF)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Classroom/Lab</td>
<td></td>
<td>2</td>
<td>1,380</td>
<td>2,760</td>
</tr>
<tr>
<td>Aa</td>
<td>Health Science Classroom/Lab</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ab</td>
<td>Public Safety Classroom (Police/Fire)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Storage</td>
<td></td>
<td>2</td>
<td>120</td>
<td>240</td>
</tr>
<tr>
<td>Ba</td>
<td>Health Science Storage</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bb</td>
<td>Public Safety Storage</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Total

4

3,000

HS9.06-2.2 Design Considerations

1. Movement of students and teacher is the norm. Different activities occur simultaneously throughout the facility. The configuration should facilitate visual control from all areas within the lab/classroom.
2. Students should enter directly into classroom/lab.
2. Space Overview (continued)

HS9.06-2.3 Adjacency Diagram:

```
<table>
<thead>
<tr>
<th>Storage</th>
<th>Classroom/Lab</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Corridor</td>
</tr>
</tbody>
</table>
```
Aa-3. Physical Requirements

HS9.06-Aa-3.1 Space(s):

Aa. Health Sciences Classroom/Lab

HS9.06-Aa-3.2 Use:

1. Lecture, collaborative learning, demonstration, practice health care skills, learn and practice CPR and first aid, on-line instruction, sterilization & sanitation practices, multimedia presentation.

HS9.06-Aa-3.3 Special Criteria:

1. Classroom is divided into areas for computers, classroom instruction, hospital simulation/medical practice.
2. Classroom area to instruct 20-30 students, using 15 computers and associated peripherals to be separated from the medical practice, hospital simulation and storage areas. Create distinct space divisions between these two areas, but without placing physical barriers.
3. The configuration should be an open plan and facilitate visual control from all areas within the classroom/lab.
4. Facilities, equipment and furnishings should be designed for a variety of activities and efficient movement of students.
5. U-shaped Medical Practice area with 2 double sinks in casework with laminate finish countertop.
6. Two (2) Hospital Simulation areas: each contain one hospital bed, one bedside table, and one single sink (with on-demand hot water) behind privacy curtain (not hard walled on more than 2 sides).
7. Storage area.

HS9.06-Aa-3.4 Finishes and Features:

<table>
<thead>
<tr>
<th>General Notes:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Floor:</td>
<td>VCT</td>
</tr>
<tr>
<td>Floor Transitions:</td>
<td></td>
</tr>
<tr>
<td>Base:</td>
<td>Resilient top-set base</td>
</tr>
<tr>
<td>Walls:</td>
<td>Painted CMU / gypsum wallboard, with tackable surface on one wall.</td>
</tr>
<tr>
<td>Ceiling:</td>
<td>Acoustical ceiling panels</td>
</tr>
<tr>
<td>Ceiling Height:</td>
<td>10'-0&quot;</td>
</tr>
<tr>
<td>Doors:</td>
<td>Door to corridor must be wide enough for movement of hospital bed (typical bed dimension minimum 38&quot; wide).</td>
</tr>
<tr>
<td>Windows:</td>
<td></td>
</tr>
</tbody>
</table>
HS9.06-Aa-3.5 Casework & Special Features:

1. Window blinds at all exterior windows.
2. See HS-1 Appendix 1 for typical teaching wall requirements.

3. Provide one 4'-0" x 4'-0" tackboard and one 4' x 8'
markerboard on another wall.
4. Tack strip on all walls where feasible.
5. One (1) 18"d x 36"h, min. 12'-0"l counter along one wall with
open adjustable shelving below.
7. Wall mounted glove dispensers.
8. Medicine Cabinet.
9. Two (2) Ceiling-mounted privacy curtains.
10. One (1) synchronized wall-hung clock with batteries.

HS9.06-Aa-3.6 Furniture, Fixtures & Equip.:

(Provided by Owner’s Furniture & Equipment Specialist, see
room data sheets)

HS9.06-Aa-3.7 Instruc. Mat & Equipment:

(Provided by Owner’s Inst. Mat. & Equip. Specialist, see
equipment list)

HS9.06-Aa-3.8 Mechanical Criteria:

1. Provide sinks with hot and cold water.

HS9.06-Aa-3.9 Electrical Criteria:

Power:
1. See HS-1 Appendix 1 for typical teaching wall requirements.
2. Provide-110V duplex recepticles on walls corresponding to
network connections.
3. Provide 120V duplex outlets at 3'-0" intervals in all
other areas (including above countertop in Medical Practice
area).

Lighting:
1. Lighting design shall efficiently combine use of daylighting
with artificial lighting.
2. Lighting shall have multi-level and zoned switching.

Data & Other:
1. See HS-1 Appendix 1 for typical teaching wall requirements.
2. 18 network connections on walls at corresponding power
outlets.
3. Specific layout requirements will be determined during
design based on program emphasis and needs.
4. Locate intercom handset near teachers station.

HS9.06-Aa-3.10 Technology Criteria:
Ab-3. Physical Requirements

HS9.06-Ab-3.1 Space(s):

Ab. Public Safety Classroom (Police/Fire)

HS9.06-Ab-3.2 Use:

1. Whole group and small group projects and presentations.
2. Computer and telecommunications activities.

HS9.06-Ab-3.3 Special Criteria:

1. It is preferred to have space located on the first floor to access “classroom use” emergency vehicles.
2. Classroom should support a variety of teaching styles. Classroom arrangement should be easily reconfigurable to accommodate different learning activities, presentations and interaction styles.
3. The design must be able to accommodate changes in technology over the life of the classroom.
4. Attractive learning spaces convey the message that classroom activities are valuable.
5. In locating and sizing windows consideration should be given to potential glare on the television and computer screens and the need to control light.

HS9.06-Ab-3.4 Finishes and Features:

<table>
<thead>
<tr>
<th>General Notes:</th>
<th>VCT or sealed concrete</th>
</tr>
</thead>
<tbody>
<tr>
<td>Floor:</td>
<td>VCT or sealed concrete</td>
</tr>
<tr>
<td>Floor Transitions:</td>
<td></td>
</tr>
<tr>
<td>Base:</td>
<td>Resilient top-set base</td>
</tr>
<tr>
<td>Walls:</td>
<td>Painted CMU / gypsum wallboard</td>
</tr>
<tr>
<td>Ceiling:</td>
<td>Acoustical ceiling panels</td>
</tr>
<tr>
<td>Ceiling Height:</td>
<td>10'-0&quot; minimum</td>
</tr>
<tr>
<td>Doors:</td>
<td>Provide small view lite in doors. One door to corridor and one oversized door to exterior.</td>
</tr>
<tr>
<td>Windows:</td>
<td></td>
</tr>
</tbody>
</table>

HS9.06-Ab-3.5 Casework & Special Features:

General

1. Window blinds at all exterior windows.
2. One (1) synchronized wall-hung clock with batteries.

CR Primary Wall:

1. See HS-1 Appendix 1 for typical teaching wall requirements.
2. Provide one 4'-0" x 4'-0" tackboard and one 4' x 8’ markerboard on another wall.
CR Secondary Wall: 1. One (1) - 4'-0" x 8'-0" white board (no glare).  
   2. Two (2) - 16'-0" tackable strips, @ 42" and 78" AFF

CR Storage Wall: 1. 12"D x approx. 44 LF x (varies with windowsill height) H bookshelves with adjustable, open shelves.

HS9.06-Ab-3.6  Furniture, Fixtures & Equip.:  
(Provided by Owner's Furniture & Equipment Specialist, see room data sheets)

HS9.06-Ab-3.7  Instruc. Mat & Equipment:

HS9.06-Ab-3.8  Mechanical Criteria:

HS9.06-Ab-3.9  Electrical Criteria:

   Power: 1. See HS-1 Appendix 1 for typical teaching wall requirements.  
         2. Two (2) duplex outlets on storage and secondary walls.  
         3. Eight (8) duplex outlets for computers (with 7 data ports) on one wall. Locate @ 30" from corner; 60" OC, 36" AFF.

   Lighting: 1. Lighting switching must take into consideration the student's ability to take notes when classroom is darkened for AV presentations.  
           2. Locate lighting controls conveniently for the instructor to adjust light level as needed.

   Data & Other: 1. See HS-1 Appendix 1 for typical teaching wall requirements.  
                 2. The network hub should be 32-port minimum for 30 student stations.  
                 3. Locate intercom handset near entrance door.

HS9.06-Ab-3.10  Technology Criteria:
Ba-3. Physical Requirements

HS9.06-Ba-3.1 Space(s):

**Ba. Health Sciences Storage**

HS9.06-Ba-3.2 Use:

1. Materials of varying sizes will be stored in these areas.

HS9.06-Ba-3.3 Special Criteria:

1. Should be adjacent to Medical Simulation area and/or Medical Practice area and accessible to classroom.

HS9.06-Ba-3.4 Finishes and Features:

| General Notes: |  
| Floor: | VCT |
| Floor Transitions: |  
| Base: | Resilient top-set base |
| Walls: | Painted CMU |
| Ceiling: | Acoustical ceiling panels |
| Ceiling Height: | (as high as possible) |
| Doors: | Lockable door |
| Windows: |  

HS9.06-Ba-3.5 Casework & Special Features:

General

1. Three (3) walls to have 18"d adjustable shelving from floor to 8'-0" h.

HS9.06-Ba-3.6 Furniture, Fixtures & Equip.:

HS9.06-Ba-3.7 Instruc. Mat & Equipment:

HS9.06-Ba-3.8 Mechanical Criteria:

HS9.06-Ba-3.9 Electrical Criteria:

Power:

1. One (1) duplex outlet on each wall.

Lighting:

Data & Other:

HS9.06-Ba-3.10 Technology Criteria:
Bb-3. Physical Requirements

HS9.06-Bb-3.1 Space(s):

**Bb. Public Safety Storage**

HS9.06-Bb-3.2 Use:

1. Materials of varying sizes will be stored in this area.

HS9.06-Bb-3.3 Special Criteria:

HS9.06-Bb-3.4 Finishes and Features:

<table>
<thead>
<tr>
<th>General Notes:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Floor:</td>
<td>Sealed concrete</td>
</tr>
<tr>
<td>Floor Transitions:</td>
<td></td>
</tr>
<tr>
<td>Base:</td>
<td>Resilient top-set base</td>
</tr>
<tr>
<td>Walls:</td>
<td>Painted CMU</td>
</tr>
<tr>
<td>Ceiling:</td>
<td>Acoustical ceiling panels</td>
</tr>
<tr>
<td>Ceiling Height:</td>
<td>(match lab ceiling height)</td>
</tr>
<tr>
<td>Doors:</td>
<td>Lockable door</td>
</tr>
<tr>
<td>Windows:</td>
<td></td>
</tr>
</tbody>
</table>

HS9.06-Bb-3.5 Casework & Special Features:

**General**

1. 18"d adjustable shelving from floor to 8'-0"h on one wall.
2. 24"d adjustable shelving from floor to 8'-0"h on one wall.
3. Remaining wall to have pegboard for clamps, etc.
   (Brodhead Garrett, model 180070 or equivalent).

HS9.06-Bb-3.6 Furniture, Fixtures & Equip.:

HS9.06-Bb-3.7 Instruc. Mat & Equipment:

HS9.06-Bb-3.8 Mechanical Criteria:

HS9.06-Bb-3.9 Electrical Criteria:

**Power:**

1. Two (2) duplex outlet per wall.

**Lighting:**

**Data & Other:**

1. Provide one (1) data outlet.

HS9.06-Bb-3.10 Technology Criteria:
1. General Educational Requirements

HS9.07-1.1 Objectives
1. Provide job skills for various drafting occupations utilizing computer drafting systems and traditional drafting board skills.
2. Apply a holistic perspective to the interrelationship of other courses and technology.
3. Introduce skills for design projects that focus on problem solving.
4. Explore, and provide the foundation for, various career opportunities associated with technical, engineering and architectural careers.

HS9.07-1.2 Trends
1. Increased emphasis will be placed on learning theoretical concepts in the classroom and lab with practical application of skills.
2. Lab activities will be diverse, ranging from problem-solving strategies, classical representation methods such as sketching, geometric construction techniques, as well as CAD (computer assisted design), orthographic projection, and 3-D modeling.
3. Increased emphasis on computerized instructional activities.
4. Instruction will be self-paced with increased individual responsibility, centered on problem solving and creative thinking for groups and individuals.

HS9.07-1.3 Activities and Enrollment
1. Demonstration.
2. Experimentation.
3. Construction and assembly.
5. Testing.
6. Planning and design.
7. Two to three students for problem solving.
8. Individual work.
9. Whole class projects.
10. Small group projects.
11. Enrollment recommendations range from 20-25 students.
2. Space Overview

HS9.07-2.1 Required Spaces

Reference:

<table>
<thead>
<tr>
<th>Identifier</th>
<th>Space</th>
<th>Quantity</th>
<th>Area Each (SF)</th>
<th>Area Total (SF)</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>CADD Drafting Classroom</td>
<td>1</td>
<td>1,500</td>
<td>1,500</td>
</tr>
<tr>
<td>B</td>
<td>Storage</td>
<td>1</td>
<td>200</td>
<td>200</td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td>2</td>
<td></td>
<td>1,700</td>
</tr>
</tbody>
</table>

HS9.07-2.2 Design Considerations

1. The facility should be integrated with general classrooms.
2. Space Overview (continued)

HS9.07-2.3 Adjacency Diagram:
A-3. Physical Requirements

HS9.07-A-3.1 Space(s):

A. CADD Drafting Classroom

HS9.07-A-3.2 Use:

1. Lecture, modeling, computer drafting, board drafting, demonstration of equipment use.

HS9.07-A-3.3 Special Criteria:

1. Storage area should open into classroom.
2. Make space as glare free as possible.
3. Students will each have a computer and drafting board area, for a total of 20 stations.
4. Facilities, equipment and furnishings should be designed for a variety of activities and efficient movement of students.

HS9.07-A-3.4 Finishes and Features:

<table>
<thead>
<tr>
<th>General Notes:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Floor:</td>
<td>VCT</td>
</tr>
<tr>
<td>Floor Transitions:</td>
<td>Resilient top-set base</td>
</tr>
<tr>
<td>Base:</td>
<td>Painted CMU / gypsum wallboard, with one wall having tackable surface</td>
</tr>
<tr>
<td>Walls:</td>
<td>Acoustical ceiling panels</td>
</tr>
<tr>
<td>Ceiling:</td>
<td>10’-0” minimum.</td>
</tr>
<tr>
<td>Ceiling Height:</td>
<td>To corridor and lockable storage room</td>
</tr>
<tr>
<td>Doors:</td>
<td>Exterior windows</td>
</tr>
</tbody>
</table>

HS9.07-A-3.5 Casework & Special Features:

General

1. Window blinds.
2. See HS-1 Appendix 1 for typical teaching wall requirements.
3. Provide one 4’-0” x 4’-0” tackboard and one 4’x 8’ markerboard on another wall.
4. Tack strip on all walls where feasible.
5. Two (2) Tote tray cabinets with 96 tote trays each (Campbell Rhea 6357 or equivalent).
6. One (1) Teacher wardrobe/storage cabinet (Campbell Rhea 5872 or equivalent).
8. Soap dispenser.
9. One (1) synchronized wall-hung clock with batteries.
HS9.07-A-3.6 Furniture, Fixtures & Equip.:  
(Provided by Owner’s Furniture & Equipment Specialist, see room data sheets)

HS9.07-A-3.7 Instruc. Mat & Equipment:  
(Provided by Owner’s Inst. Mat. & Equip. Specialist.)

HS9.07-A-3.8 Mechanical Criteria:
1. Provide plastic laundry sink with hot and cold water.

HS9.07-A-3.9 Electrical Criteria:

Power:  
1. See HS-1 Appendix 1 for typical teaching wall requirements.
2. Provide power coordinated with data outlets at 42" increments along three walls, at 36" AFF, to support 25 student computer stations and needed peripherals in various configurations. NO Power Poles.
3. Provide duplex outlet for large format printer.
4. Specific layout requirements will be determined during design based on program emphasis and needs.

Lighting:

Data & Other:  
1. Provide 2-port data outlets with corresponding power at 42" increments along three walls, 36" AFF, to support 25 student computer stations and peripherals in various configurations. No power poles are allowed.
2. See HS-1 Appendix 1 for typical teaching wall requirements.
3. Provide one 2-port data outlet for large format printer.
4. Locate intercom handset near primary wall.

HS9.07-A-3.10 Technology Criteria:
B.3. Physical Requirements

HS9.07-A-3.1 Space(s):

B. Storage Room

HS9.07-A-3.2 Use:

1. A variety of project materials and computer hardware and software will be stored in this area.

HS9.07-A-3.3 Special Criteria:

1. Locate adjacent to CADD Drafting Classroom, accessed only from classroom.

HS9.07-A-3.4 Finishes and Features:

<table>
<thead>
<tr>
<th>General Notes:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Floor:</td>
<td>VCT</td>
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<tr>
<td>Floor Transitions:</td>
<td></td>
</tr>
<tr>
<td>Base:</td>
<td>Resilient top-set base</td>
</tr>
<tr>
<td>Walls:</td>
<td>Painted CMU / gypsum wallboard</td>
</tr>
<tr>
<td>Ceiling:</td>
<td>Acoustical ceiling panels</td>
</tr>
<tr>
<td>Ceiling Height:</td>
<td>10’-0” minimum.</td>
</tr>
<tr>
<td>Doors:</td>
<td>Provide lockable door.</td>
</tr>
<tr>
<td>Windows:</td>
<td></td>
</tr>
</tbody>
</table>

HS9.07-A-3.5 Casework & Special Features:

General

1. A minimum of 10 linear feet of adjustable steel shelving 8’h x 18”d
2. Base cabinet 36”d x 34”h on one wall with an assortment of storage underneath, including drawers for deep paper storage.

HS9.07-A-3.6 Furniture, Fixtures & Equip.:

HS9.07-A-3.7 Instruc. Mat & Equipment:

HS9.07-A-3.8 Mechanical Criteria:

HS9.07-A-3.9 Electrical Criteria:

Power: 1. Provide two (2) duplex outlets per wall.

Lighting:

Data & Other: 1. Provide one (1) data outlet.

HS9.07-A-3.10 Technology Criteria:
1. General Educational Requirements

**HS9.08-1.1 Objectives (Scientific & Tech. Vis. And Game Art)**
1. Develop computer literacy for personal use and work-related environments.
2. Develop abilities needed to exercise and follow effective leadership in fulfilling occupational, social, and civic responsibilities.
3. Develop interpersonal, teamwork, and leadership skills needed to function in diverse business and information technology settings.

**HS9.08-1.2 Trends**
1. Increased emphasis of hands-on activities that apply basic and problem solving.
2. Instructional presentations by local businesses.
3. Incorporation of interactive multi-media workstations and multi-media skills for presentations.

**HS9.08-1.3 Activities and Enrollment**
1. Activities common to all courses include:
   a. Industry standard computer applications.
   b. Whole class and small group instruction.
   c. Demonstrations
   d. Multi-media presentations.
   f. Simulations.
   g. Projects.
   h. On-line research.
   i. On-line testing.
2. Enrollment for courses ranges from 20-25.
2. Space Overview

HS9.08-2.1 Required Spaces

Reference:

<table>
<thead>
<tr>
<th>Identifier</th>
<th>Space</th>
<th>Quantity</th>
<th>Area Each (SF)</th>
<th>Area Total (SF)</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>SciVis &amp; Game Art Design Lab OR Technical Course TBD</td>
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<td>1,200</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td>1</td>
<td></td>
<td>1,200</td>
</tr>
</tbody>
</table>

HS9.08-2.2 Design Considerations

1. Labs should be as distant as possible from cafeteria and classes with high noise levels, such as Career and Technical Education (CTE) construction labs and band areas.

2. Integrate with general classrooms. Do not isolate in a "CTE Wing".
2. Space Overview (continued)

HS9.08-2.3 Adjacency Diagram:

(none)
A-3. Physical Requirements

HS9.08-A-3.1 Space(s):  
A. SciVis & Game Art Design Lab OR Tech Course TBD.

HS9.08-A-3.2 Use:  
1. Design Lab

HS9.08-A-3.3 Special Criteria:

HS9.08-A-3.4 Finishes and Features:

| General Notes: |  
| --- | --- |
| Floor: | VCT |
| Floor Transitions: |  
| Base: | Resilient top-set base |
| Walls: | Painted CMU |
| Ceiling: | Acoustical ceiling panels |
| Ceiling Height: | 10'-0" minimum. |
| Doors: | To corridor |
| Windows: | Exterior windows with non-glare treatment |

HS9.08-A-3.5 Casework & Special Features:

General  
1. Window blinds at all exterior windows.
2. See HS-1 Appendix 1 for typical teaching wall requirements.
3. Provide one 4'-0" x 4'-0" tackboard and one 4' x 8' markerboard on another wall.
4. Display Area: Tack strip on all walls wherever space will permit.

HS9.08-A-3.6 Furniture, Fixtures & Equip.:  
(Provided by Owner's Furniture & Equipment Specialist, see room data sheets)

HS9.08-A-3.7 Instruc. Mat & Equipment:  
(Provided by Owner's Inst. Mat. & Equip. Specialist, including 25-30 networkable computers, and one (w) networkable laser printer and one (1) networkable 3D printer.)

HS9.08-A-3.8 Mechanical Criteria:
1. Size HVAC system to include internal heat load generated by computers and machines planned for the classroom.
**HS9.08-A-3.9 Electrical Criteria:**

**Power:**
1. See [HS-1 Appendix 1](#) for typical teaching wall requirements.
2. Quad outlets in 42” increments around the perimeter of the room. Mount at 36” AFF.
3. No power poles or raised “tombstones” allowed.

**Lighting:**
1. Lighting should reduce glare and be noise free
2. Lighting design should effectively combine use of artificial lighting and natural daylighting.

**Data & Other:**
1. Surge protection for computer outlets at panel board.
2. See [HS-1 Appendix 1](#) for typical teaching wall requirements.
3. Provide 35-port minimum (including the teacher drop) patch panel.
4. Thirty-five (35) data outlets (including the teacher drop and network printer drops) should be paired with quad outlets at 36” increments around the perimeter of the room (two duplex electrical outlets for each duplex data outlet). Mount at work surface height (36” AFF).
5. Specific layout requirements will be determined during design based on program emphasis and needs.

**HS9.08-A-3.10 Technology Criteria:**
1. General Educational Requirements

HS9.09-1.1 Objectives
1. Develop an understanding of the basic concepts and functions of automobiles.
2. Develop a knowledge and awareness of career opportunities as related to the automotive industry.
3. Introduce skills in the various systems through projects and troubleshooting exercises.
4. Apply a holistic perspective to the interrelationship of other courses and Automotive Service Technology.

HS9.09-1.2 Trends
1. Automotive technology is rapidly changing from year to year. The Automotive Service Technology facility must be able to accommodate present technology and be flexible enough to provide and house newer forms as they develop.
2. Increased emphasis will be placed on the development of automotive theory with increased practical application in class and in lab.
3. Electronic computer control systems and theory will be explored in greater depth and will include classroom theory and practical application.
4. Instruction will be self paced with increased individual responsibility, centered on systems construction, troubleshooting and unit identification.

HS9.09-1.3 Activities and Enrollment
1. Enrollment for courses range from 16-20.
2. Activities and groupings include:
   a. whole class instruction.
   b. demostration.
   c. experimentation.
   d. construction and assembly.
   e. multi-media presentation.
   f. discussion.
   g. testing.
   h. project building.
   i. group problem solving.
   j. individual problem solving.
   k. whole class projects.
   l. small group projects.
2. Space Overview

HS9.09-2.1 Required Spaces

Reference:

<table>
<thead>
<tr>
<th>Identifier</th>
<th>Space</th>
<th>Quantity</th>
<th>Area Each (SF)</th>
<th>Area Total (SF)</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>Lab</td>
<td>1</td>
<td>2,500</td>
<td>2,500</td>
</tr>
<tr>
<td>B</td>
<td>Material Storage</td>
<td>1</td>
<td>155</td>
<td>155</td>
</tr>
<tr>
<td>C</td>
<td>Tool Storage</td>
<td>1</td>
<td>120</td>
<td>120</td>
</tr>
<tr>
<td>D</td>
<td>Classroom</td>
<td>1</td>
<td>850</td>
<td>850</td>
</tr>
<tr>
<td>E</td>
<td>Office</td>
<td>1</td>
<td>120</td>
<td>120</td>
</tr>
</tbody>
</table>

Total 5 3,745

HS9.09-2.2 Design Considerations

1. Lab should be on ground level with direct access to driveway.
2. Facility should have 3,000 SF outside, fenced in parking/storage area.
3. Configuration should facilitate visual control over entire area within the Lab and adjacent classroom in order to control movement of students performing different activities simultaneously.
2. Space Overview (continued)

HS9.09-2.3 Adjacency Diagram:

```
Lab -----> Classroom
      |         |
      v         v
Material Storage ----> Office
      |         |
      v         v
Tool Storage
```
A-3. Physical Requirements

HS9.09-A-3.1 Space(s):

A. Lab.

HS9.09-A-3.2 Use:

1. Lecture, demonstration of equipment and projects, student projects and experiments. Student will work at four workbenches as well as in automobile bays. There should be spaces allowed around the Lab perimeter for power equipment used in automotive repair and building of student projects.

HS9.09-A-3.3 Special Criteria:

1. Students will work at one of four workbenches.
2. Perimeter wall is to be lined with power equipment.
3. Lab should have direct access to all support areas and classroom, as well as visual access to classroom area. There should be no hidden areas.
4. Exterior double doors should be provided in Lab with access to driveway.
5. Material storage area should be provided in Lab, near exterior doors.
6. Tool storage area should be near workbench area.
7. Lab should have a minimum of (2) two 12'-0" electric overhead coiling service doors, all accessible from driveway.
8. Wash area should be located near one roll up door. It should have floor drains.
9. Lab area should accommodate the following equipment:
   a. Two high lifts which meet ANSI 1, ALI B153 requirements.
   b. Two tire service lifts.
   c. 17-1/2 Ton Open Throat Press.
10. Lab shall have health and environmentally-concious equipment.

HS9.09-A-3.4 Finishes and Features:

<table>
<thead>
<tr>
<th>General Notes:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Floor:</td>
<td>Sealed concrete.</td>
</tr>
<tr>
<td>Floor Transitions:</td>
<td>Resilient top-set base</td>
</tr>
<tr>
<td>Base:</td>
<td>Resilient top-set base</td>
</tr>
<tr>
<td>Walls:</td>
<td>Epoxy-painted CMU or GWB.</td>
</tr>
<tr>
<td>Ceiling:</td>
<td>Acoustical ceiling panels or exposed structure.</td>
</tr>
<tr>
<td>Ceiling Height:</td>
<td>14'-0&quot; minimum.</td>
</tr>
<tr>
<td>Doors:</td>
<td>Double door at all support areas. 12'-0&quot; electric overhead coiling service</td>
</tr>
<tr>
<td></td>
<td>doors in Lab at automotive bays and wash area. Door shall be sealed to</td>
</tr>
<tr>
<td></td>
<td>prevent fumes, odor, and dust from entering classrooms and corridors.</td>
</tr>
<tr>
<td>Windows:</td>
<td>Exterior windows, and interior view panels into classroom.</td>
</tr>
</tbody>
</table>

HS9.09-A-3.5 Casework & Special Features:

<table>
<thead>
<tr>
<th>General</th>
<th>1. Window blinds at all exterior windows.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>2. One (1) synchronized wall-hung clock with batteries.</td>
</tr>
</tbody>
</table>
HS9.09-A-3.6 Furniture, Fixtures & Equip.:  
1. General: All equipment must meet current NATEF standards.

Owner furnish, Contractor install:  
1. Four (4) 30-gallon rubber trash cans.
2. Four (4) heavy-duty metal-top workbenches with storage drawers.
4. Soap dispenser.
5. Rubber oil containers (NATEF requirement).

HS9.09-A-3.7 Instruc. Mat & Equipment:  
1. WCPSS provided equipment; see list from NATEF (National Automotive Technicians Education Foundation).

HS9.09-A-3.8 Mechanical Criteria:  
1. Provide shop-wide vehicle exhaust ventilation system.
2. Provide compressor with air drops as follows:
   a. Two (2) on each wall.
   b. One (1) in Classroom.
   c. One (1) at each workbench.
   d. One (1) in Material Storage and Tool Storage area.
   e. One (1) at each automotive bay (two bays required).
3. Provide large hand wash sink with hot and cold water.
4. Provide floor drains.

HS9.09-A-3.9 Electrical Criteria:

Power:  
1. Provide 110V and 220V outlets at a height of 36" AFT along walls. Specific requirements are to be coordinated with equipment layout.
2. Provide 2 bus bars 120V/290V below finished ceiling.
3. Two (2) -120V outlets at each workbench.
4. Equipment must be installed by Electrical Contractor.

Lighting:  
1. Fluorescent or LED work lights.
2. Lights should be placed to enhance side and front views of vehicles. Area should be well lit.
3. All power equipment should have task lighting.
4. Provide a hand held work light, dropped from ceiling, at each automotive bay.

Data & Other:  
1. Provide master automatic electrical cut-off switch on two opposing walls, one by door to classroom.

HS9.09-A-3.10 Technology Criteria:
B-3. Physical Requirements

HS9.09-B-3.1 Space(s):

B. Material Storage

HS9.09-B-3.2 Use:

1. A variety of consumable materials and small equipment will be stored in this area.
2. A variety of training aids and practice models will be stored in this area.

HS9.09-B-3.3 Special Criteria:

1. Shall be located adjacent to Lab and near exterior door.

HS9.09-B-3.4 Finishes and Features:

<table>
<thead>
<tr>
<th>General Notes:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Floor:</td>
<td>Sealed concrete.</td>
</tr>
<tr>
<td>Floor Transitions:</td>
<td></td>
</tr>
<tr>
<td>Base:</td>
<td>Resilient top-set base</td>
</tr>
<tr>
<td>Walls:</td>
<td>Painted CMU or GWB.</td>
</tr>
<tr>
<td>Ceiling:</td>
<td>Acoustical ceiling panels</td>
</tr>
<tr>
<td>Ceiling Height:</td>
<td></td>
</tr>
<tr>
<td>Doors:</td>
<td>Lockable double doors.</td>
</tr>
<tr>
<td>Windows:</td>
<td></td>
</tr>
</tbody>
</table>

HS9.09-B-3.5 Casework & Special Features:

General
1. Provide a minimum of 10 linear feet adjustable shelving- 8' H x 18"D.

Owner furnish,
Contractor install:
1. One (1) safety cabinet.

Owner provide:
1. Four (4) small storage cabinets with 16-20 mini storage drawers each, for storage of screws, nuts and other hardware or electronic items.

HS9.09-B-3.6 Furniture, Fixtures & Equip.:

HS9.09-B-3.7 Instruc. Mat & Equipment:

HS9.09-B-3.8 Mechanical Criteria:

1. One (1) compressed air drop.
HS9.09-B-3.9  Electrical Criteria:

Power: 1. One (1) duplex outlet on each wall.

Lighting:

Data & Other:

HS9.09-B-3.10  Technology Criteria:
C-3. Physical Requirements

HS9.09-C-3.1 Space(s):

C. Tool Storage.

HS9.09-C-3.2 Use:

1. Tools (hand tools) of varying sizes will be stored in this area.

HS9.09-C-3.3 Special Criteria:

1. Should be accessible to Lab workbenches.

HS9.09-C-3.4 Finishes and Features:

| Floor: | Sealed concrete. |
| Floor Transitions: |  |
| Base: | Resilient top-set base |
| Walls: | Painted CMU or GWB. |
| Ceiling: | Acoustical ceiling panels. |
| Ceiling Height: |  |
| Doors: | Dutch door with double lock. |
| Windows: |  |

HS9.09-C-3.5 Casework & Special Features:

HS9.09-C-3.6 Furniture, Fixtures & Equip.:

1. 8"D shelving from floor to 8'-0"H on one wall. One shelf to be slanted with lip at the bottom and hinges at the top. Additional tool storage underneath hinged shelf.
2. 24"D shelving from floor to 8'-0"H on one wall, one shelf to be slanted with hinges at the top and storage underneath.
3. Remaining wall to have pegboard for tools, etc.

HS9.09-C-3.7 Instruc. Mat & Equipment:

HS9.09-C-3.8 Mechanical Criteria:

1. One (1) compressed air drop.

HS9.09-C-3.9 Electrical Criteria:

Power: 1. One (1) duplex outlet per wall.

Lighting:  

Data & Other:
HS9.09-C-3.10 Technology Criteria:
D-3. Physical Requirements

HS9.09-D-3.1 Space(s):

D. Classroom.

HS9.09-D-3.2 Use:

1. Teaching space.

HS9.09-D-3.3 Special Criteria:

1. Must be adjacent to and have complete visual access to Lab.

HS9.09-D-3.4 Finishes and Features:

<table>
<thead>
<tr>
<th>General Notes:</th>
<th>Sealed concrete.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Floor:</td>
<td></td>
</tr>
<tr>
<td>Floor Transitions:</td>
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</tr>
<tr>
<td>Base:</td>
<td>Resilient top-set base</td>
</tr>
<tr>
<td>Walls:</td>
<td>Painted CMU or GWB.</td>
</tr>
<tr>
<td>Ceiling:</td>
<td>Acoustical ceiling panels</td>
</tr>
<tr>
<td>Ceiling Height:</td>
<td></td>
</tr>
<tr>
<td>Doors:</td>
<td>Door to Lab.</td>
</tr>
<tr>
<td>Windows:</td>
<td>Exterior windows, and interior view panels into Lab.</td>
</tr>
</tbody>
</table>

HS9.09-D-3.5 Casework & Special Features:

General

1. Window blinds at all exterior windows.
2. Refer to **HS-1 Appendix 1** for typical teaching wall requirements.
3. One (1) synchronized wall-hung clock with batteries.

HS9.09-D-3.6 Furniture, Fixtures & Equip.:

(To be provided by WCPSS.)

HS9.09-D-3.7 Instruc. Mat & Equipment:

HS9.09-D-3.8 Mechanical Criteria:
HS9.09-D-3.9 Electrical Criteria:

Power: 1. Refer to HS-1 Appendix 1 for typical teaching wall requirements.

Lighting:

Data & Other: 1. Refer to HS-1 Appendix 1 for typical teaching wall requirements.

HS9.09-D-3.10 Technology Criteria:
E-3. Physical Requirements

HS9.09-E-3.1 Space(s):

**E. Office.**

HS9.09-E-3.2 Use:

1. Storage of confidential information.
2. Communication with vendors.
3. Placement of students doing work-based learning.

HS9.09-E-3.3 Special Criteria:

1. Must be adjacent to and have complete visual access to Lab.

HS9.09-E-3.4 Finishes and Features:

| General Notes: |  
| Floor: | Sealed concrete. |
| Floor Transitions: |  
| Base: | Resilient top-set base |
| Walls: | Painted CMU or GWB. |
| Ceiling: | Acoustical ceiling panels |
| Ceiling Height: |  
| Doors: | To Lab. |
| Windows: | Exterior windows preferred. Provide vision panels to Lab. |

HS9.09-E-3.5 Casework & Special Features:

**General**

1. Window blinds at all exterior windows.

HS9.09-E-3.6 Furniture, Fixtures & Equip.:

(Provided by Owner's Furniture & Equipment Specialist, see room data sheets)

HS9.09-E-3.7 Instruc. Mat & Equipment:

HS9.09-E-3.8 Mechanical Criteria:

HS9.09-E-3.9 Electrical Criteria:

**Power:**

1. One (1) duplex outlet per wall.

**Lighting:**

**Data & Other:**

1. One (1) 2-port data outlet.

HS9.09-E-3.10 Technology Criteria:
1. General Educational Requirements

**HS9.09-1.1 Objectives**
1. Refer to HS9.04 Agricultural Education.

**HS9.09-1.2 Trends**
1. Refer to HS9.04 Agricultural Education.

**HS9.09-1.3 Activities and Enrollment**
1. Refer to HS9.04 Agricultural Education.
2. Space Overview

**HS9.09-2.1 Required Spaces**

Reference:

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<tr>
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<td>300</td>
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<td>C</td>
<td>Tool Storage</td>
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<td>D</td>
<td>Ag Mech./Prod. Classroom</td>
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<td>E</td>
<td>Ag Mech. Locker/Storage Room</td>
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<td>200</td>
<td>200</td>
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</tbody>
</table>

**Total** 5 3,100

**HS9.09-2.2 Design Considerations**

1. Refer to HS9.04 Agricultural Education.
2. Exterior 40 CY dumpster is required in close proximity to Lab space.
2. Space Overview (continued)

HS9.09-2.3 Adjacency Diagram:

- Exterior & dumpster
- Ag Mech/Prod Lab
- Material Storage
- Tool Storage
- Locker/Storage room
- Corridor
- Ag Mech/Prod. Classroom
A. Physical Requirements

HS9.10-A-3.1 Space(s):

A. Agricultural Mechanics/Production Lab

HS9.10-A-3.2 Use:

1. Demonstration of equipment and projects
2. Students will work at four workbenches.
3. Student projects & experiments in welding, metal fabrication, carpentry, electrical wiring, plumbing, masonry, small engine repair, equipment maintenance & painting.

HS9.10-A-3.3 Special Criteria:

1. Allow space around perimeter for power equipment used to fabricate student projects.
2. Lab should have direct access as well as visual access to classroom area; there should be no "hidden areas".
3. Exterior roll up doors should be provided in lab for access to driveway.
4. Exterior 3'-0" personnel door.
5. Material storage area should be provided in lab, near exterior doors.
6. Tool storage area should be near workbench area.
7. Six (6) freestanding steel welding stations along one wall with ventilation.
8. Facilities, equipment and furnishings should be designed for a variety of activities and efficient movement of students.
9. Stainless steel utility sink in close proximity to exterior door.
10. Exterior hose bib in close proximity to exterior classroom door.
11. Locate air compressor externally on a concrete pad with overhead covering and security fencing.
12. All heavy machinery to be anchored to the floor.

HS9.10-A-3.4 Finishes and Features:

<table>
<thead>
<tr>
<th>General Notes:</th>
<th>Sealed concrete. Floors around machines and work benches to be slip-resistant with special abrasive material. Provide traffic lines around work stations to be clearly marked with 2 inch wide yellow stripes.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Floor:</td>
<td>Resilient top-set base</td>
</tr>
<tr>
<td>Floor Transitions:</td>
<td>Epoxy-painted CMU.</td>
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<tr>
<td>Walls:</td>
<td>Non-combustible.</td>
</tr>
<tr>
<td>Ceiling Height:</td>
<td>14'-0&quot; minimum.</td>
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<tr>
<td>Doors:</td>
<td>Door to adjacent classroom and lockable storage areas. Doors should be tightly sealed with weather stripping to prevent dust from entering the hallway and classroom. Provide 10'-0&quot; x 10'-0&quot; overhead motorized coiling door.</td>
</tr>
<tr>
<td>Windows:</td>
<td>Provide interior view panels into classroom.</td>
</tr>
</tbody>
</table>
HS9.10-A-3.5 Casework & Special Features:

General

1. One (1) synchronized wall-hung clock with batteries.
2. Provide fire extinguishers and signage per NFPA’s life safety code requirements.
3. At least 6 linear feet of marker board.
4. Tack strip on all walls where feasible.
5. Provide a single 18”d shelf installed at 10 ft. high along wall opposite the welding tables.
6. One (1) 18”d x 36”h, min. 10’-0”l counter along one wall with open adjustable shelving below. To be located under the windows to the classroom.
7. Shelf above utility sink at 6’ high.
10. One(1) wall mounted UV sterilizer/safety goggle cabinet.

HS9.10-A-3.6 Furniture, Fixtures & Equip.:

Contractor provide:

1. Compressor (minimum 2 stage, 80 gallon, 17.7 CFM at 90 psi) to be provided with six air drops, minimum of one on each wall. Provide compressed air outlets with regulators & dryer combo and 5/16 inch quick-clip couplings (male and female) with automatic tank drain.
2. Welding tables shall be 36”x36” with side shields similar to Global Industrial Item # T9FB184415
3. Welding curtain partition that encompasses tables

Owner provide:

1. Other furniture and equipment per room data sheets.

HS9.10-A-3.7 Instruc. Mat & Equipment:

HS9.10-A-3.8 Mechanical Criteria:

1. Provide one double compartment, large (36” x 21” x 14”) stainless steel utility sink, ADA compliant for front approach, sink provided with a solids interceptor. Hot and cold water.
2. Provide separate HVAC zone.
3. Provide eyewash and emergency shower.
4. Mechanical ventilation system to be installed over welding tables (one each) with 2 auxiliary located at each end of system (min. 15 ft. long).
5. Mechanical Dust filtration system with cleanable filters.
HS9.10-A-3.9 Electrical Criteria:

**Power:**

1. Provide 3 phase power to run shop equipment.
2. Provide minimum 120V 20 amp circuits and 240V 50 amp circuits outlets at a height of 36"AFF at each welding table, power requirements to be coordinated with equipment layout.
3. Provide minimum 120V and two 240V outlets at a height of 36"AFF with maximum spacing of 10'-0" along walls.
4. Provide 3 buss bars 120/240V below finished ceiling. Locate as per design layout:
   a. On one buss bar provide 120-V rail type convenience outlet with female plugs hanging above (20 inches) each of 4 workbenches. Rail to be securely braced from swinging.
   b. On two buss bars provide 120-V rail type convenience outlet with female plugs and two 240V 50-amp female plugs hanging above open work space in the shop at a height of six feet.
5. Provide overhead electrical system with branched outlets and starter switches for all machinery with power ratings to meet the furniture and equipment standards.
6. Provide at least four duplex outlets on each wall with a maximum spacing of 10’.
7. Provide power for goggle sterilizer.

**Lighting:**

**Data & Other:**

1. Provide master, automatic, electrical cut-off switches on two opposing walls, one by door to classroom to control all lab equipment power circuits and compressor.
2. Locate intercom handset near door to classroom and have it be tied in to the classroom intercom.
3. Provide data outlet above ceiling for Owner-provided wireless access point.

HS9.10-A-3.10 Technology Criteria:
B-3. Physical Requirements

HS9.10-B-3.1 Space(s):

**B. Material Storage**

HS9.10-B-3.2 Use:

1. Lumber and steel will primarily be stored in this area.

HS9.10-B-3.3 Special Criteria:

1. Minimum length of 24 feet.
2. Double locking doors that open into the Lab.

HS9.10-B-3.4 Finishes and Features:

<table>
<thead>
<tr>
<th>General Notes:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Floor:</td>
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<tr>
<td>Floor Transitions:</td>
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<tr>
<td>Base:</td>
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<tr>
<td>Walls:</td>
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<tr>
<td>Ceiling:</td>
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<tr>
<td>Ceiling Height:</td>
</tr>
<tr>
<td>Doors:</td>
</tr>
<tr>
<td>Windows:</td>
</tr>
</tbody>
</table>

HS9.10-B-3.5 Casework & Special Features:

1. Wall mounted lumber/metal storage on all three walls suitable for storing 21’ lengths of metal on two walls and capable of storing 11’ lengths of sheet material.

HS9.10-B-3.6 Furniture, Fixtures & Equip.:

HS9.10-B-3.7 Instruc. Mat & Equipment:

HS9.10-B-3.8 Mechanical Criteria:

HS9.10-B-3.9 Electrical Criteria:

**Power:**

1. Two (2) duplex outlets per wall.

**Lighting:**

**Data & Other:**

HS9.10-B-3.10 Technology Criteria:
C.3. Physical Requirements

HS9.10-C-3.1 Space(s):

C. Tool Storage.

HS9.10-C-3.2 Use:

1. Tools (hand tools) of varying sizes will be stored in this area.

HS9.10-C-3.3 Special Criteria:

1. Should be accessible to Lab workbenches.

HS9.10-C-3.4 Finishes and Features:

<table>
<thead>
<tr>
<th>General Notes:</th>
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</tr>
</thead>
<tbody>
<tr>
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<td>Sealed concrete.</td>
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<td>Floor Transitions:</td>
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<tr>
<td>Base:</td>
<td>Resilient top-set base</td>
</tr>
<tr>
<td>Walls:</td>
<td>Painted CMU.</td>
</tr>
<tr>
<td>Ceiling:</td>
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</tr>
<tr>
<td>Ceiling Height:</td>
<td>(match Lab ceiling height)</td>
</tr>
<tr>
<td>Doors:</td>
<td>Lockable door.</td>
</tr>
<tr>
<td>Windows:</td>
<td></td>
</tr>
</tbody>
</table>

HS9.10-C-3.5 Casework & Special Features:

HS9.10-C-3.6 Furniture, Fixtures & Equip.:

1. 18"D shelving from floor to 8'-0"H on one wall.
2. 24"d x 76"h metal locking cabinets the length of one wall.
3. Remaining wall to have pegboard for clamps, etc. (Brodhead Garrett, model 180070 or equivalent).

HS9.10-C-3.7 Instruc. Mat & Equipment:

HS9.10-C-3.8 Mechanical Criteria:

HS9.10-C-3.9 Electrical Criteria:

   Power: 1. One (1) duplex outlet per wall.

   Lighting:

   Data & Other:

HS9.10-C-3.10 Technology Criteria:
D.3. Physical Requirements

HS9.10-D-3.1  Space(s):

D. Ag Mech./Prod. Classroom.

HS9.10-D-3.2  Use:

1. Lecture, demonstration of equipment and projects, student projects and experiments.
2. Whole group and small group projects and presentation.
3. Computer activities.
4. Multi-disciplinary experimentation using a variety of technologies.
5. Demonstrations and all activities associated with performing scientific experiments.
6. Lab students will work in pairs or in groups of four.
6. Accommodate 20 students.

HS9.10-D-3.3  Special Criteria:

1. Facilities, equipment and furnishings should be designed for a variety of activities and efficient movement of students.
2. See HS-1 Appendix 1 for typical teaching wall requirements.
3. Arrange desks so that instructor can move quickly to all points in the room without obstruction. Safe egress is a major design consideration.
4. All secured cabinetry to be keyed alike per classroom.
5. In locating and sizing windows consideration should be given to potential glare on the television and computer screens and the need to control light.
6. Doors should be provided to access the lab.
7. Provide as many view panels as possible on wall to lab.

HS9.10-D-3.4  Finishes and Features:

| General Notes: | \n| Floor: | VCT |
| Floor Transitions: | \n| Base: | Resilient top-set base |
| Walls: | Painted CMU. |
| Ceiling: | Acoustical ceiling panels, moisture and dirt resistant. |
| Ceiling Height: | 10'-0" minimum. |
| Doors: | To corridor and lab area. Doors should be tightly sealed with weather stripping to prevent dust from entering the hallway. |
| Windows: | Exterior windows, and interior view panels into Lab. |
**HS9.10-D-3.5** Casework & Special Features:

**General**
1. Window blinds at all exterior windows.
2. Refer to [HS-1 Appendix 1](#) for typical teaching wall requirements.
3. One (1) synchronized wall-hung clock with batteries.
4. Tack strip on all walls where feasible.
5. Two (2) 6' tall bookcases for textbook storage.
6. One (1) 6' x 6' projection screen with brackets.

**HS9.10-D-3.6** Furniture, Fixtures & Equip.:

**Owner provide:**
1. Twenty (2) one piece, flat top student desks.
2. Locking teacher desk.
3. Bracket for 32" TV and bracket for VCR – minimum 80" clearance under TV/VCR bracket per ADA.
4. (See room data sheets).

**HS9.10-D-3.7** Instruc. Mat & Equipment:

**HS9.10-D-3.8** Mechanical Criteria:

**HS9.10-D-3.9** Electrical Criteria:

**Power:**
1. Refer to [HS-1 Appendix 1](#) for typical teaching wall requirements.
2. Provide 120V outlets with maximum spacing of 10'-0" along walls.
3. Provide a minimum of two 120 volt duplex outlets per each wall for general use.
4. Note to Designer: If there is an inconsistency between LEGS and the program equipment list, the design will use the higher number.

**Lighting:**
1. Multi-level or zoned switching.

**Data & Other:**
1. Refer to [HS-1 Appendix 1](#) for typical teaching wall requirements.
2. Locate intercom handset near door to corridor.
3. Provide a data outlet for data on each of the three remaining walls.
4. Provide data outlet above ceiling for Owner-provided wireless access point.
5. Six (6) 2-port data outlets on opposing walls students (14 total drops in room).
6. Two way intercom with P.A. speaker
7. Due to shared equipment, locate as close as possible to other agricultural education classrooms.

**HS9.10-D-3.10** Technology Criteria:
E-3. Physical Requirements

HS9.10-E-3.1 Space(s):

**E. Ag Mech./Prod. Locker/Storage Room.**

HS9.10-E-3.2 Use:

1. Storage of personal protective equipment and clothing.
2. Student project storage.

HS9.10-E-3.3 Special Criteria:

1. Lockers on three walls.
2. Lockable wardrobes on one wall and a cubby shelf with openings to fit welding helmets.
3. Locker room bench in center of room.

HS9.10-E-3.4 Finishes and Features:

<table>
<thead>
<tr>
<th>General Notes:</th>
</tr>
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<tbody>
<tr>
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<td>Ceiling:</td>
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<td>Ceiling Height:</td>
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<tr>
<td>(to match Lab ceiling height).</td>
</tr>
<tr>
<td>Doors:</td>
</tr>
<tr>
<td>Lockable door.</td>
</tr>
<tr>
<td>Windows:</td>
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</tbody>
</table>

HS9.10-E-3.5 Casework & Special Features:

**General**

1. Provide 24 lockers minimum.
2. Provide minimum of 2 lockable wardrobe cabinets.
3. Locker room bench at least 8’ long.
4. Cubby shelf large enough to hold 24 welding helmets.

HS9.10-E-3.6 Furniture, Fixtures & Equip.:

HS9.10-E-3.7 Instruc. Mat & Equipment:

HS9.10-E-3.8 Mechanical Criteria:
Electrical Criteria:

Power: 1. One (1) duplex outlet per wall.

Lighting:

Data & Other:

Technology Criteria:
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<tr>
<th></th>
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</table>
1. General Educational Requirements

**HS10-1.1 Objectives**

1. The library media center should be the heart of the high school educational program, providing not only information but also a curriculum for developing skills needed to locate, retrieve and analyze information. Its primary purpose is to serve the student user, however it must also provide support for the teaching staff. Its program and design must reflect and accommodate this diverse population of varied backgrounds, ages, abilities and interests.

2. The educational objectives of the media center must be consistent with those of the broader school education program. The major goals are:
   a. To provide a carefully chosen collection of books and materials to encourage student inquiry.
   b. To provide guidance in the location, selection, and use of these materials.
   c. To teach the needed information skills to help students become college and career ready.
   d. To provide the staff with materials and services to support learning experiences.
   e. To foster an appreciation of literature to help students establish a lifelong enthusiasm for reading.

3. The objectives of the library media program are:
   a. To orient learners to the media center's organization and procedures.
   b. To teach learners to identify concepts presented in media, to interpret and to organize information, and to develop evaluative skills for understanding media at school and elsewhere.
   c. To instruct and to assist learners so that they can design or produce a variety of media formats.
   d. To encourage learners to expand reading, listening, and viewing interests using a variety of media for personal growth, vocational pursuits, and recreation.
   e. To develop in learners an understanding of technology, its operation, and possible application in solving relevant problems.
   f. To provide guidance and instruction in using technology to locate, access, evaluate and interpret information.

**HS10-1.2 Trends**

1. A library media center must accommodate the present technology and be flexible enough to provide and house newer forms as they emerge.
2. Increased use of technology as a tool for storing, managing, exchanging, and retrieving information.
3. Activities providing students with opportunities to produce learning materials using various multimedia and digital resources.
HS10-1.3 Activities and Enrollment

1. Information literacy skills are best acquired through authentic inquiry based instructional practices. Planning for and teaching information literacy skills should be a collaborative effort between the school library media coordinator and the classroom teacher.

2. Instruction should be designed to meet the needs and interests generated from classroom activities and assignments. When the school library media coordinator and teacher share this responsibility, information skills instruction will occur at the most appropriate time and will maximize retention by students.

3. Activities:
   a. Lecture.
   b. Independent and group research.
   c. Independent, small group, and entire class projects.
   d. Independent and small group study, technology-assisted instruction, interaction with all forms of media.
   e. Group and individual viewing and listening.
   f. Hands-on experiences with technology.
   g. Independent reading.
2. Space Overview

HS10-2.1 Required Spaces

Reference:

<table>
<thead>
<tr>
<th>Identifier</th>
<th>Space</th>
<th>Quantity</th>
<th>Area Each (SF)</th>
<th>Area Total (SF)</th>
</tr>
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<td>Ac</td>
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<tr>
<td></td>
<td>Optional: Bistro (See HS-10 Appendix 1)</td>
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</table>

Support Spaces

<table>
<thead>
<tr>
<th>Identifier</th>
<th>Space</th>
<th>Quantity</th>
<th>Area Each (SF)</th>
<th>Area Total (SF)</th>
</tr>
</thead>
<tbody>
<tr>
<td>B</td>
<td>A/V Equipment Storage</td>
<td>1</td>
<td>450</td>
<td>450</td>
</tr>
<tr>
<td>C</td>
<td>Media Office/Workroom</td>
<td>1</td>
<td>700</td>
<td>700</td>
</tr>
<tr>
<td>D</td>
<td>Toilet</td>
<td>1</td>
<td>56</td>
<td>56</td>
</tr>
</tbody>
</table>

Total 4 12,251

* Note: Square footage allotment for RLV does not include major circulation areas (foyer, entrances, etc.).

HS10-2.2 Design Considerations

1. Media center should be centrally located and must be easily accessible to students from the main corridor; however, it should not be a thoroughfare connecting other spaces within the school.

2. Media center can be located on floors above the ground floor in multi-level buildings to address centrality of location.

3. It should be accessible to the public and meet egress requirements by ADA and Building Code.

4. Media center should be located near the instructional areas and not be a stand-alone building.

5. Group toilets for student use should be located in the corridor outside the media center.

6. School design should facilitate HVAC zoning of the media center so that it may be managed separately from the rest of the building.

7. If fire extinguisher cabinet is needed in media center, please locate in RLV in consultation with WCPSS Facility Planner.

8. It is critical that humidity be controlled within the media center. The HVAC system must have the capability and controls to maintain appropriate temperature and humidity levels throughout the entire year.
9. Electric blinds should be provided to cover windows if necessary to control light/glare. Blinds should be motorized and remotely controlled. Controls need to be adjacent to the office/workroom area and/or circulation area for access by staff after the school day. Do not isolate controls inside the office/workroom.

10. Provide wireless access points in ceiling for all areas of the RLV. There will also need to be computer network drops throughout the RLV as indicated by Facility Planner in consultation with WCPSS Instructional Technology and Library Media Services, at the designated point of the circulation desk, in AV/Equipment Room, and in office/workroom. See Support Spaces.

11. WCPSS Furniture & Equipment Specialists will provide the loose furniture and circulation desk as opposed to the contractor. Contractor to provide perimeter shelving.
2. Space Overview (continued)

HS10-2.3 Adjacency Diagram:
Aa-3. Physical Requirements

HS10-Aa-3.1 Space(s):

Aa. Main Use Area (Reading/Listening/Viewing)

HS10-Aa-3.2 Use:

1. In addition to display/storage of the collection, the RLV shall have space dedicated to the following functions: circulation, self-service catalog, large group, small group, individual research, digital learning, and leisure reading.
2. Staffing is dependent on ADM and allotment formulas.

HS10-Aa-3.3 Special Criteria:

1. The entry should be highly visible. The passageway should be a set of double doors, with view glass, to facilitate entry and egress. The center mullion should be removable for furniture installation. Provide additional entries per the needs of the space as well as an exit for emergency egress as needed.
2. Ceiling height and configuration can be utilized to identify different spaces and to create interest. The impact on acoustics and the effect on lighting systems should be taken into consideration.
3. The collection will be stored/displayed on fixed bookcases around the perimeter of the RLV and on mobile units in the interior of the space with the emphasis on maximizing the utilization of the perimeter.
4. Configuration should facilitate visual control from all areas within the RLV.
5. The walls of the RLV should be free from obstructions (i.e. low windows, air returns, conduit, thermostats, etc.), which interfere with shelving the collection.
6. High windows above shelving for natural light are desirable.
7. Maximum height bookshelves (up to 82” AFF) should be placed around the perimeter of the room, including area under windows (minimum of 42” AFF).

HS10-Aa-3.4 Finishes and Features:

| General Notes:                                                                 |
| Floor: Recessed slab for floor wiring system with carpet unless otherwise indicated. |
| Floor Transitions:                                                            |
| Base: Resilient top-set base                                                  |
| Walls: Painted CMU / gypsum wallboard                                         |
| Ceiling: Acoustical ceiling panels                                          |
| Ceiling Height:                                                              |
| Doors: Double doors with center mullion and view glass.                       |
| Windows: When sizing and locating windows, consideration should be given to providing sufficient natural light for aesthetics and the need to control light in large group instructional areas. The interior window glass including frames should be 42” AFF so that visual control of the media center is not compromised. The exterior windows including frames should clear 82” H shelving |

HS10-Aa-3.5 Casework & Special Features:
General

1. Electrically-powered window blinds at all exterior windows.

2. 3,000 linear feet of adjustable shelving for collection. Shelving shall be a combination of perimeter (perimeter provided by contractor) and interior (interior provided by owner/FES) units. The perimeter units shall be 36” x 12” x 82” with adjustable shelves and solid backs. All perimeter shelving should be flush on one end with fillers only on one side of a continuous wall. Total linear feet of filler panels on one wall should not exceed 12”. Please spec shelving so that no bookcase is wider than 36” and no combined total linear footage of filler panels exceeds 12”.

3. Specialized periodic shelving for periodicals and magazines not to exceed 36’ (432”) linear feet.

4. Fire extinguisher cabinets, recessed or semi-recessed which match the décor. The location should be coordinated so as not to interfere with shelving or displays.

5. One (1) synchronized wall-hung clock with batteries.

Owner provide:

1. Interior shelving units, 36” x 12” x 42” with adjustable shelves. The interior mobile shelving units shall be mounted on heavy-duty casters. Interior units will be double-sided with dividers in center (one starter and one adder).

2. ITLMS and WCPSS Furniture and Equipment Specialist to determine furniture/display items.


Owner’s Library & Media Services provide:

1. Opening day collection.

HS10-Aa-3.6  Furniture, Fixtures & Equip.:

(Provided by Owner’s Furniture & Equipment Specialist, see room data sheets).

HS10-Aa-3.7  Instruc. Mat & Equipment:

HS10-Aa-3.8  Mechanical Criteria:

1. HVAC system should maintain year-round temperature and should maintain humidity levels to prevent the growth of mold and mildew.
HS10-Aa-3.9 Electrical Criteria:

**Power:**
1. Wherever shelving is placed in front of outlets, the outlets should be located in the base of shelves. Outlets in the toe boards of the fixed wall shelving should be present throughout the perimeter. Outlets should never be cut through shelving.

**Lighting:**
1. Provide for switching capability of all RLV lighting from single position located near entry doors and circulation with provisions for switching the instructional areas separately and remote from main switch. Need one area that can be completely darkened.

2. Natural daylighting is beneficial in RLV, but in large group instruction area darkening capability is necessary.

**Data & Other:**
1. Provide intercom with capability to turn off intercom in both RLV and office/workroom. (Locate handset just inside door to office/workroom. Provide volume control.
2. Electrical devices (i.e. outlets, junction boxes and conduit) should be coordinated with locations of shelving and furniture. Data outlets should be located to support automated catalog/self-service stations and ready access technology.

3. On a wall or above perimeter shelving, provide a data port and power outlet to accommodate an information monitor or viewing screen near entrance or circulation desk.

---

HS10-Aa-3.10 Technology Criteria:
Ab-3. Physical Requirements

HS10-Ab-3.1 Space(s):

Ab. Circulation and Self-Service

HS10-Ab-3.2 Use:

1. Individuals will use circulation for borrowing and returning materials and equipment including reserve materials. Staff will supervise circulation and use the space for maintaining records and for sorting returned materials.
2. Self-service stations will be utilized by individuals and small groups to access the collection.

HS10-Ab-3.3 Special Criteria:

1. Ample space for 12 students to check out or return materials and two people to handle circulation.
2. Make provisions for three student self-service stations (one must meet ADA specifications for height and accessibility).
3. Near main entrance/exit of media center, office workroom, and individual research.
4. Circulation desk should be in close proximity to a group of three automated stations, group instruction area and individual research.
5. Locate circulation desk to have an unobstructed view (minimize columns as much as possible in this area).

HS10-Ab-3.4 Finishes and Features:

<table>
<thead>
<tr>
<th>General Notes:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Floor:</td>
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<tr>
<td>Floor Transitions:</td>
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<tr>
<td>Base:</td>
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<tr>
<td>Walls:</td>
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<tr>
<td>Ceiling:</td>
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<tr>
<td>Ceiling Height:</td>
</tr>
<tr>
<td>Doors:</td>
</tr>
<tr>
<td>Windows:</td>
</tr>
</tbody>
</table>

HS10-Ab-3.5 Casework & Special Features:

General

1. Twenty-seven (27) linear feet of 12” deep adjustable shelving (included in linear footage for general collection) located under office windows.
HS10-Ab-3.6 Furniture, Fixtures & Equip.:

Owner provide:

1. Mobile circulation desk pieces with bi-level surfaces and mounted on casters.
3. At least two (2) swivel chairs (ergonomic), adjustable height.
4. Five (5) mobile metal book trucks with slanted shelves. Must be a minimum of 37” L x 18” D x 42” H. Should be double sided.
5. Two (2) smaller mobile metal book trucks (ITLMS to provide sizes).
6. Three (3) self-service stations (2 at standing height, 1 at ADA-approved height).

HS10-Ab-3.7 Instruc. Mat & Equipment:

HS10-Ab-3.8 Mechanical Criteria:

HS10-Ab-3.9 Electrical Criteria:

Power:

1. Provide a minimum of eight (8) outlets for the circulation desk.

Lighting:

Data & Other:

1. Provide outlets for sufficient data connections.

HS10-Ab-3.10 Technology Criteria:
Ac-3. Physical Requirements

HS10-Ac-3.1 Space(s):

   Ac. Large Group Instruction.

HS10-Ac-3.2 Use:

1. Classes and small groups will use space for instruction. It will also be utilized for small group projects, drawing, speaking, writing, reading, and listening assignments.

HS10-Ac-3.3 Special Criteria:

1. Provide for at least 2 large group instructional areas with 36 seats.
2. Located so that media coordinator has visual control of the media center from the teaching station. There needs to be a space (9’ wide) to accommodate viewing a flat panel monitor. Perimeter shelving should be 42” AFF underneath the space for the monitor.
3. Instructional areas should not be directly adjacent. Areas should be separated by space or shelving.
4. Plan so all instructional areas may be used simultaneously without interference.

HS10-Ac-3.4 Finishes and Features:

<table>
<thead>
<tr>
<th>General Notes:</th>
<th>(Refer to Main Use Area)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Floor:</td>
<td></td>
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<tr>
<td>Floor Transitions:</td>
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<tr>
<td>Base:</td>
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<td>Walls:</td>
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<td>Ceiling:</td>
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<td>Ceiling Height:</td>
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<tr>
<td>Doors:</td>
<td></td>
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<tr>
<td>Windows:</td>
<td></td>
</tr>
</tbody>
</table>

HS10-Ac-3.5 Casework & Special Features:

HS10-Ac-3.6 Furniture, Fixtures & Equip.:

(Provided by Owner’s Furniture & Equipment Specialist and ITLMS, see room data sheets)

HS10-Ac-3.7 Instruc. Mat & Equipment:

HS10-Ac-3.8 Mechanical Criteria:
**HS10-Ac-3.9 Electrical Criteria:**

**Power:**
1. Provide electrical outlets on walls throughout the base of perimeter shelving to ensure convenient use of technology. Floor outlet locations should be based on furniture layout. These should be positioned carefully so that they are not in areas of high traffic.

**Lighting:**
1. The illumination system in the media center must allow for instructional areas to be controlled individually and separately from the other spaces.
2. In addition to master control for all RLV lighting, allow for the light to come on in a minimum of two stages (half, full) and cut off.

**Data & Other:**
1. Provide wall area 9’ wide for flat panel monitor. See HS-1 Appendix 1 for data, receptacles, and empty conduit required for a flat panel monitor.

**HS10-Ac-3.10 Technology Criteria:**
Ad-3. Physical Requirements

HS10-Ad-3.1  Space(s):

Ad. Collaborative Area.

HS10-Ad-3.2  Use:

1. Small groups will use space for collaboration. It will also be utilized for projects, drawing, speaking, writing, reading, and listening assignments.

HS10-Ad-3.3  Special Criteria:

1. Locate in proximity to large group instructional area to allow for consolidation or expansion to add more tables/seats or spread students across areas as needed.

2. Provide for one instructional area for 10-15 students.

HS10-Ad-3.4  Finishes and Features:

<table>
<thead>
<tr>
<th>General Notes:</th>
<th>(Refer to Main Use Area)</th>
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<tbody>
<tr>
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<td>Floor Transitions:</td>
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<td>Base:</td>
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<td>Walls:</td>
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<td>Ceiling:</td>
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<td>Ceiling Height:</td>
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<tr>
<td>Doors:</td>
<td></td>
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<tr>
<td>Windows:</td>
<td></td>
</tr>
</tbody>
</table>

HS10-Ad-3.5  Casework & Special Features:

HS10-Ad-3.6  Furniture, Fixtures & Equip.:

(Provided by Owner’s Furniture & Equipment Specialist and ITLMS, see room data sheets)

HS10-Ad-3.7  Instruc. Mat & Equipment:

HS10-Ad-3.8  Mechanical Criteria:
HS10-Ad-3.9 Electrical Criteria:

**Power:**
1. If there is perimeter shelving, provide electrical outlets on walls through the base of the shelves, at least every 24 linear feet, to ensure convenient use of technology. Outlet locations should be based on furniture layout. These should be positioned carefully so that they are not in areas of high traffic.

2. If there is no perimeter shelving, then provide floor outlets coordinated with furniture layout.

**Lighting:**
1. The illumination system in the media center must allow for instructional areas to be controlled individually and separately from the other spaces.
2. In addition to a master control for all RLV lighting, allow for the light to come one in a minimum of two stages (half, full) and cut off.

**Data & Other:**

HS10-Ad-3.10 Technology Criteria:
Ae-3. Physical Requirements

HS10-Ae-3.1 Space(s):

**Ae. Reference.**

HS10-Ae-3.2 Use:

1. Will be used for student research and productivity.
2. Capacity for 6-12 students.

HS10-Ae-3.3 Special Criteria:

1. Easily accessible to the circulation area.

HS10-Ae-3.4 Finishes and Features:

<table>
<thead>
<tr>
<th>General Notes:</th>
<th>(Refer to Main Use Area)</th>
</tr>
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<tbody>
<tr>
<td>Floor:</td>
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<td>Floor Transitions:</td>
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<td>Base:</td>
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<td>Walls:</td>
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<td>Ceiling:</td>
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<td>Ceiling Height:</td>
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<tr>
<td>Doors:</td>
<td></td>
</tr>
<tr>
<td>Windows:</td>
<td></td>
</tr>
</tbody>
</table>

HS10-Ae-3.5 Casework & Special Features:

HS10-Ae-3.6 Furniture, Fixtures & Equip.:

(Provided by Owner’s Furniture & Equipment Specialist and ITLMS, see room data sheets)

HS10-Ae-3.7 Instruc. Mat & Equipment:

HS10-Ae-3.8 Mechanical Criteria:
**HS10-Ae-3.9 Electrical Criteria:**

**Power:**
1. Accessible multiple outlets with anti-surge protectors within four feet of tables. Conduits and outlets for up to 12 computers.

**Lighting:**
1. The illumination system in the media center must allow for instructional areas to be controlled individually and separately from the other spaces.
2. In addition to a master control for all RLV lighting, allow for the light to come one in a minimum of two stages (half, full) and cut off.

**Data & Other:**

**HS10-Ae-3.10 Technology Criteria:**
Af-3. Physical Requirements

HS10-Af-3.1 Space(s):

Af. Leisure Reading.

HS10-Af-3.2 Use:

1. Individuals will use areas for independent reading.

HS10-Af-3.3 Special Criteria:

1. 6-8 students or adults per area.
2. Positioned to allow for direct visual control from office/workroom, circulation, and teaching areas.

HS10-Af-3.4 Finishes and Features:

<table>
<thead>
<tr>
<th>General Notes:</th>
<th>(Refer to Main Use Area)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Floor:</td>
<td></td>
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<tr>
<td>Floor Transitions:</td>
<td></td>
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<td>Base:</td>
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<td>Walls:</td>
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<tr>
<td>Ceiling:</td>
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<tr>
<td>Ceiling Height:</td>
<td></td>
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<tr>
<td>Doors:</td>
<td></td>
</tr>
<tr>
<td>Windows:</td>
<td></td>
</tr>
</tbody>
</table>

HS10-Af-3.5 Casework & Special Features:

HS10-Af-3.6 Furniture, Fixtures & Equip.:

(Provided by Owner's Furniture & Equipment Specialist and ITLMS, see room data sheets.)

HS10-Af-3.7 Instruc. Mat & Equipment:

HS10-Af-3.8 Mechanical Criteria:

HS10-Af-3.9 Electrical Criteria:

Power:

Lighting:

Data & Other:

HS10-Af-3.10 Technology Criteria:
B-3. Physical Requirements

HS10-B-3.1 Space(s):

B. A/V Equipment Storage.

HS10-B-3.2 Use:

1. Storing, distributing, and repairing technology equipment used in the school.

2. Technology carts will be housed and charged in this area.

HS10-B-3.3 Special Criteria:

1. Locate near entry, circulation, and office/workroom. Should have one door into RLV. The space should accommodate two walls of shelving for storage, one wall of standing height countertop for staging and repair of equipment, and one wall for technology storage carts.

HS10-B-3.4 Finishes and Features:

<table>
<thead>
<tr>
<th>General Notes:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Floor:</td>
<td>VCT</td>
</tr>
<tr>
<td>Floor Transitions:</td>
<td></td>
</tr>
<tr>
<td>Base:</td>
<td>Resilient top-set base</td>
</tr>
<tr>
<td>Walls:</td>
<td>Painted CMU / gypsum wallboard</td>
</tr>
<tr>
<td>Ceiling:</td>
<td>Acoustical ceiling panels</td>
</tr>
<tr>
<td>Ceiling Height:</td>
<td></td>
</tr>
<tr>
<td>Doors:</td>
<td>Keyed to limit access to administrative and media center staff only, solid (no window).</td>
</tr>
<tr>
<td>Windows:</td>
<td></td>
</tr>
</tbody>
</table>

HS10-B-3.5 Casework & Special Features:

HS10-B-3.6 Furniture, Fixtures & Equip.:

Contractor provide:

1. 15 units of open, adjustable metal shelving 18" D x 36" W x 82" H for AV equipment.

HS10-B-3.7 Instruc. Mat & Equipment:

HS10-B-3.8 Mechanical Criteria:
HS10-B-3.9  Electrical Criteria:

**Power:**
1. On technology storage wall, provide 3 duplex outlets located at 48” AFF to accommodate charging of technology carts.
2. On staging wall, provide 3 duplex outlets above countertop to accommodate staging and repair of equipment.
3. These outlets shall be served by a minimum of 3 circuits.

**Lighting:**

**Data & Other:**
1. On staging wall, provide one quad data outlet above countertop to accommodate staging and repair of equipment.

HS10-B-3.10  Technology Criteria:
C-3. Physical Requirements

HS10-C-3.1 Space(s):

C. Media Office / Workroom.

HS10-C-3.2 Use:

1. This space will be used as an office by the library media coordinators and other instructional staff for receiving, processing, distribution, selecting, ordering, and repairing.

HS10-C-3.3 Special Criteria:

1. Locate in proximity to the primary entrance and storage.
2. Should have visual access of the RLV and be accessible from the Main Use Area RLV.

HS10-C-3.4 Finishes and Features:

<table>
<thead>
<tr>
<th>General Notes:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Floor:</td>
<td>VCT</td>
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<tr>
<td>Floor Transitions:</td>
<td></td>
</tr>
<tr>
<td>Base:</td>
<td>Resilient top-set base</td>
</tr>
<tr>
<td>Walls:</td>
<td>Painted CMU / gypsum wallboard</td>
</tr>
<tr>
<td>Ceiling:</td>
<td>Acoustical ceiling panels</td>
</tr>
<tr>
<td>Ceiling Height:</td>
<td></td>
</tr>
<tr>
<td>Doors:</td>
<td></td>
</tr>
<tr>
<td>Windows:</td>
<td>Fixed interior view window with sill 42&quot; AFF, not including frame.</td>
</tr>
</tbody>
</table>

HS10-C-3.5 Casework & Special Features:

General

1. Window blinds at all exterior windows.
2. Counter with sink on long wall, 36” H x 24” D base cabinets, with 6” drawers with full extension glides, above adjustable shelving with doors.
3. Adjustable shelving, 22” above the counter, 36” H x 12” D. One half of shelves to be open, one half to have doors.
4. Eight (8) shelving units, 36” W x 12” D x 82” H, with open adjustable shelving with backs to match shelving in RLV.
5. Paper towel dispenser and soap dispenser located by sink in long wall counter.
6. Work peninsula/flat file with shelving, drawers, cabinets, and knee-space. Suitable for storage of flat maps, posters, and art prints. 36” H for standing and stool use to match counter height on wall.
7. Fire extinguisher.
HS10-C-3.6  Furniture, Fixtures & Equip.:
(Provided by Owner's Furniture & Equipment Specialist and ITLMS, see room data sheets)

HS10-C-3.7  Instruc. Mat & Equipment:

HS10-C-3.8  Mechanical Criteria:
1. Provide sink with hot and cold water.

HS10-C-3.9  Electrical Criteria:

Power:
1. Three (3) duplex outlets on cabinet/counter wall (outlets near sink should be GFI).
2. Two (2) duplex outlets on each of the other walls.
3. These outlets shall be served by a minimum of three circuits.
4. Provide duplex outlet on work peninsula.

Lighting:

Data & Other:
1. Provide intercom with handset inside office but near door towards RLV.
2. Provide for capability to turn off intercom in media center and in office/workroom.
3. Provide three (3) data outlets near each of the desks.

HS10-C-3.10  Technology Criteria:
D-3. Physical Requirements

HS10-D-3.1 Space(s):  

**D. Toilet**

HS10-D-3.2 Use:  

1. Toilet room is provided for staff/faculty use only.

HS10-D-3.3 Special Criteria:  

1. Should be located inside the office/workroom.  
2. Program according to guidelines for toilets (see “Toilet” section of Section HS-13 Staff).

HS10-D-3.4 Finishes and Features:

<table>
<thead>
<tr>
<th>General Notes:</th>
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</thead>
<tbody>
<tr>
<td>Floor:</td>
<td>VCT</td>
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<tr>
<td>Floor Transitions:</td>
<td></td>
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<td>Base:</td>
<td>Resilient top-set base</td>
</tr>
<tr>
<td>Walls:</td>
<td>Painted CMU / gypsum wallboard</td>
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<tr>
<td>Ceiling:</td>
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<tr>
<td>Ceiling Height:</td>
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<tr>
<td>Doors:</td>
<td>Privacy lock.</td>
</tr>
<tr>
<td>Windows:</td>
<td></td>
</tr>
</tbody>
</table>

HS10-D-3.5 Casework & Special Features:

**General**  
1. Sanitary napkin disposal.  
2. Toilet paper holder.  
3. Paper towel dispenser and soap dispenser.  
4. Mirror over sink (no full length mirror opposite of toilet).

HS10-D-3.6 Furniture, Fixtures & Equip.:  

HS10-D-3.7 Instruc. Mat & Equipment:  

HS10-D-3.8 Mechanical Criteria:  

1. Provide sink with hot and cold water, and toilet.  
2. Provide exhaust ventilation.
HS10-D-3.9  Electrical Criteria:

Power:  1. One (1) GFI duplex near sink.

Lighting:

Data & Other:

HS10-D-3.10  Technology Criteria:
1. General Educational Requirements

HS11-1.1 Objectives

1. The following items are derived from the North Carolina Healthful Living Standard Course of Study:
   a. Motor Skill – Apply/Evaluate competent motor skills and movement patterns needed to perform a variety of physical activities (NC Essential Standard Physical Education Strand 1).
   c. Health-Related Fitness - Understand the importance of achieving and maintaining a health-enhancing level of physical fitness (NC Essential Standard Physical Education Strand 3).
   d. Personal/Social Responsibility - Use behavioral strategies that are responsible and enhance respect of self and others and value activity (NC Essential Standard Physical Education Strand 4).

HS11-1.2 Trends

1. Extended use of facilities by community groups.
2. Increased need for ongoing physical activity opportunities due to national childhood obesity epidemic.
3. Larger emphasis on sound nutritional principles.
4. Lifetime participation in proper nutrition, physical activity and sport.
5. Increased emphasis on dance, aerobics and non-traditional sports as exercise.
6. Increased use of modern technology and teaching aids for health and physical education (e.g., heart rate monitors, pedometers, computer programming for personal health analysis).
7. More scientific emphasis in health education on sports medicine, nutrition, first aid and CPR.
8. Expanded anti-risk behavior messages (e.g., violence prevention, drug prevention, alcohol use prevention, tobacco prevention, sexual activity prevention).
HS11-1.3 Activities and Enrollment

1. Indoor Activities:
   a. Health Education Instruction.
   b. Fitness Circuit Training/Weight Training.
   c. Volleyball.
   d. Aerobics.
   e. Basketball.
   f. Dance.
   g. Table Tennis.
   h. Floor Hockey.
   i. Badminton.
   j. Handball.
   k. Soccer.
   l. Bowling.
   m. Fitness Games.
   n. Pickleball.

2. Outdoor Activities:
   a. Jogging.
   b. Power Walking.
   c. Football.
   d. Golf.
   e. Softball.
   f. Baseball.
   g. Track/Field.
   h. Tennis.
   i. Cross Country.
   j. Soccer.
   k. Flag Football.
   l. Fitness Games.
   m. Lacrosse.
   n. Field Hockey.
   o. Sand Volleyball.
2. Space Overview

HS11-2.1 Required Spaces

Reference:

<table>
<thead>
<tr>
<th>Identifier</th>
<th>Space</th>
<th>Quantity</th>
<th>Area Each (SF)</th>
<th>Area Total (SF)</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>Main Gymnasium (2,350 seating)</td>
<td>1</td>
<td>16,100</td>
<td>16,100</td>
</tr>
<tr>
<td>B</td>
<td>Auxiliary Gymnasium</td>
<td>1</td>
<td>6,500</td>
<td>6,500</td>
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<tr>
<td>C</td>
<td>Health Education Classroom</td>
<td>3</td>
<td>850</td>
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<tr>
<td>Da</td>
<td>Wellness Room</td>
<td>1</td>
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<td>Db</td>
<td>Weight Training Room</td>
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<td>1,850</td>
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<tr>
<td>E</td>
<td>Athletic Director Office</td>
<td>1</td>
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<tr>
<td>F</td>
<td>Boys' Team Locker Room</td>
<td>1</td>
<td>1,780</td>
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<tr>
<td>G</td>
<td>Boys' Class Locker Room</td>
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<td>1,500</td>
<td>1,500</td>
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<tr>
<td>H</td>
<td>Showers/Restrooms - Boys' Class</td>
<td>1</td>
<td>200</td>
<td>200</td>
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<tr>
<td>I</td>
<td>Showers/Restrooms - Boys' Team</td>
<td>1</td>
<td>400</td>
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<td>J</td>
<td>Girls' Team Locker Room</td>
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<tr>
<td>K</td>
<td>Girls' Class Locker Room</td>
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<td>1,500</td>
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<tr>
<td>L</td>
<td>Showers/Restrooms - Girls' Class</td>
<td>1</td>
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<td>300</td>
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<tr>
<td>M</td>
<td>Showers/Restrooms - Girls' Team</td>
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<td>Na</td>
<td>Training Room/First Aid</td>
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<td>400</td>
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<td>Nb</td>
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<td>Nc</td>
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<td>O</td>
<td>Laundry Area</td>
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<td>P</td>
<td>PE Equipment Storage Room</td>
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<td>Q</td>
<td>Team General Storage</td>
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<td>R</td>
<td>Outdoor Equipment</td>
<td>1</td>
<td>600</td>
<td>600</td>
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<tr>
<td>S</td>
<td>Lobby Area / Commons</td>
<td>1</td>
<td>2,930</td>
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<tr>
<td>T</td>
<td>Ticket Booth</td>
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<td>75</td>
<td>75</td>
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<td>U</td>
<td>Concession Area</td>
<td>1</td>
<td>100</td>
<td>100</td>
</tr>
<tr>
<td>V</td>
<td>Faculty Dress/Shower/Toilet</td>
<td>2</td>
<td>125</td>
<td>250</td>
</tr>
</tbody>
</table>

Total 28 44,125

HS11-2.2 Design Considerations

1. Need to secure and isolate Health/PE area from the rest of the school because it needs to be accessed after school and during the summer. This area should include grouped toilets for public use.
2. Locate public telephones so they are accessible after hours and in a well supervised area.
3. Locate main gym near auditorium to share lobby/concession area.
4. Locate Health/PE area near playing fields for use of locker rooms before and after games as well as half-time. For team safety this access must not be through parking lots or other dense public use areas.
5. Locate locker rooms near access to vehicular circulation for team transportation.

6. Consider acoustical control in gym and auxiliary gym so sounds do not disturb surrounding areas, particularly the auditorium.

7. Health education classrooms should be in academic area close to gymnasium.

8. Additional program requirements will be found in sections HS20-Site and HS12-Auxiliary Athletics.

9. Training Lab, Training Room/First Aid, and Training Office must be adjacent to each other, and be in close proximity ot gym and athletic fields.
2. Space Overview (continued)

HS11-2.3 Adjacency Diagram:
A-3. Physical Requirements

HS11-A-3.1 Space(s):

A. Main Gymnasium

HS11-A-3.2 Use:

1. PE classes.
2. Practice and competition in: Basketball, Volleyball, Cheerleading, Wrestling,
3. Dances/Proms.
4. Full school assemblies.

HS11-A-3.3 Special Criteria:

1. Provide for 2,350 seats, motorized bleachers.
2. Need to accommodate 4 competition circles for wrestling. When wrestling mats are placed for practice or competition, 10’ is required from the edge of the mats on all exterior sides to any wall or bleachers, etc.. Mats do not have to be 10’ apart from one another.
3. Consider storage and movement of wrestling mats when planning space for storage.
4. Plan space for scorers’ table in laying out court and bleacher locations.
5. Provide cages over clocks, horns, etc.
6. Refer to HS11-Appendix 1 for additional agility striping required.
7. For specific information concerning layout of playing courts refer to standards published by:
   a. National Federation of State High School Associations: PO Box 36246, Indianapolis, IN 46236-5324 (1-800-776-3462).

HS11-A-3.4 Finishes and Features:

<table>
<thead>
<tr>
<th>General Notes:</th>
<th>Wood. Oak or maple, with light stain or natural finish.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Floor:</td>
<td></td>
</tr>
<tr>
<td>Floor Transitions:</td>
<td></td>
</tr>
<tr>
<td>Base:</td>
<td></td>
</tr>
<tr>
<td>Walls:</td>
<td>Painted CMU</td>
</tr>
<tr>
<td>Ceiling:</td>
<td>Open to structure. Acoustical control is a very important consideration</td>
</tr>
<tr>
<td>Ceiling Height:</td>
<td>Unobstructed height should be at least 25'-0”</td>
</tr>
<tr>
<td>Doors:</td>
<td>Provide at least one door with 5'-0” clearance for moving equipment between gymnasium and storage areas.</td>
</tr>
<tr>
<td>Windows:</td>
<td>High windows to avoid bleachers.</td>
</tr>
</tbody>
</table>

HS11-A-3.5 Casework & Special Features:

General

1. Window blinds at all exterior windows.
2. Two (2) synchronized wall-hung clocks with batteries, with cage protection.
HS11-A-3.6 Furniture, Fixtures & Equip.:

**Contractor provide:**
1. Two (2) glass motorized folding backboards with lights synchronized to the game clock.
2. Four (4) opaque fixed motorized folding backboards, which must fold backwards or sideways, towards wall.
3. Motorized bleachers to seat 2,350. Provide 2 control sections per side (to allow opening 1/4th of the bleachers at a time).
4. Volleyball system to include poles and self-closing, floor-recessed sleeves, and a sleeve for the referee stand. Sleeves, poles, and stands must be provided as a set. Provide a total of 3 sets of sleeves and 2 sets of standards (install sleeves-one competition at half court, and two for practice that are in the perpendicular direction).
5. Floor markings (using different colors) for sports courts. Consult with owner to establish markings.
7. Two (2) Wireless Scoreboards (one at each end of gymnasium). Refer to WCPSS Design Guidelines for type, to be compatible with basketball, volleyball, and wrestling.
8. Motorized roll-up curtain to divide gym into 2 spaces. Provide chain in the end sections so it will cascade over open bleachers.
9. Wall protection pads on end walls.

**Owner provide:**
1. Athletic equipment.
2. PE equipment.

HS11-A-3.7 Instruc. Mat & Equipment:

HS11-A-3.8 Mechanical Criteria:
1. Control HVAC noise.

HS11-A-3.9 Electrical Criteria:

**Power:**
1. Coordinate outlet location with bleachers and wall pads.
2. Consider both extended and closed location of bleachers when planning outlets.
3. Electrical power source for bleachers and backboards. Coordinate with manufacturers requirements.
4. Provide two (2) duplex outlets above bleachers at midpoint of gym length, each side of gym.
Lighting:
1. Lighting system to be designed with consideration for energy efficiency, good color rendition, sufficient lighting levels and either no re-strike time or accessory lamp to provide temporary lighting until system reaches full brightness. All fixtures should be protected with cages designed so balls won’t get caught in the cage.
2. Fixtures to be switched to accommodate varied light levels and so that areas may be switched separately.
3. Light switching must be in a secured area.

Data & Other:
1. Provide at least two data outlets at the scorer’s table location, inputs for mobile sound system, plus one input and data outlet each on the walls without bleachers, with coordinating power outlets.
2. Coordinate power and control requirements for scoreboards.
3. PA requirements, including speaker quantity and location, are dependent on room design. The PA system controls need to be accessible from inside the gym (prefer mounting on wall closest to coaching offices). Provide an input at score table location, for PA system and sound system to accommodate mobile cart.
4. Scorers’ station must have power outlets, scoreboard connection and microphone outlets.
5. Intercom handset and speakers.
6. Public address system consisting of a pre-amp, equalizer, feedback exterminator, power amp, CD player and auxiliary input and/or tuner and speakers. Should be placed in locking mobile cabinet in a storage room near the gym. Cabinet would be approximately 24”D x 24”W x 60”H with internal 19” racks. Microphones and other accessories should be stored in cabinet. See also Design Guidelines.
7. Provide six (6) 2-port data outlets above bleachers at midpoint of gym length, each side of gym.

HS11-A-3.10 Technology Criteria:
B.3. Physical Requirements

HS11-B-3.1 Space(s):

**B. Auxiliary Gymnasium.**

HS11-B-3.2 Use:

1. PE classes.
2. Athletic practices.
3. Cheerleading.

HS11-B-3.3 Special Criteria:

1. It is preferable to have Auxiliary Gym adjacent to Main Gym. If not adjacent, then close proximity is required.
2. Provide cages over clocks, horns, etc.
3. Refer to **HS11-Appendix 1** for additional agility striping required.
4. For specific information concerning layout of playing courts refer to standards published by:
   a. National Federation of State High School Associations: PO Box 361246, Indianapolis, IN 46236-5324 (1-800-776-3462).

HS11-B-3.4 Finishes and Features:

| General Notes: | 
| --- | --- |
| **Floor:** | Wood. Oak or maple, with light stain or natural finish. |
| **Floor Transitions:** | 
| **Base:** | 
| **Walls:** | Painted CMU |
| **Ceiling:** | Open to structure. Acoustical control is a very important consideration. |
| **Ceiling Height:** | Unobstructed height should be at least 25'-0". |
| **Doors:** | Provide at least one corridor door with 5'-0" clearance for moving equipment between gyms and storage areas. |
| **Windows:** | 

HS11-B-3.5 Casework & Special Features:

**General**

1. Window blinds at all exterior windows.
2. One (1) synchronized wall-hung clock with batteries, with protection cage.
HS11-B-3.6  Furniture, Fixtures & Equip.:

**Contractor provide:**
1. Six (6) fixed opaque motorized folding backboards.
2. Volleyball poles and self-closing, floor-recessed sleeves. No referee stand for the aux gym. Sleeves and poles must be provided as a set. Provide a total of 3 sets of sleeves and 2 sets of standards (install sleeves - one competition at half court, and two for practice that are in the perpendicular direction).
3. Floor markings (using different colors) for sports courts. Consult with owner to establish markings.
4. Wall protection pads on walls beneath all basketball goals.
5. Mat lift system.

**Owner provide:**
1. Athletic equipment.
2. PE equipment.

HS11-B-3.7  Instruc. Mat & Equipment:

HS11-B-3.8  Mechanical Criteria:
1. Control HVAC noise.

HS11-B-3.9  Electrical Criteria:

**Power:**
1. Coordinate outlet location with bleachers and wall pads.
2. Provide power outlets for mobile audio system (shared with main gym), with coordinating data outlets.

**Lighting:**
1. Auxiliary Gym lighting system to be designed with consideration for energy efficiency, good color rendition, sufficient lighting levels and either no re-strike time or accessory lamp to provide temporary lighting until system reaches full brightness.
2. All fixtures to be switched to accommodate varied light levels.
3. Light switching must be in a secured area.

**Data & Other:**
1. Provide a data outlet on each wall, with coordinating power outlets.
2. Intercom handset and speakers. PA requirements, including speaker quantity and location, are dependent on room design. Note, the PA system controls need to be accessible from inside the gym.

HS11-B-3.10  Technology Criteria:
C.3. Physical Requirements

HS11-C-3.1 Space(s):

C. Health Education Classrooms

HS11-C-3.2 Use:

1. Healthful Living classes.
2. PE/Health electives.
3. Whole group and small group projects and presentation.
4. Computer and telecommunications activities.

HS11-C-3.3 Special Criteria:

1. Health classrooms are identical to general classrooms except for the addition of a sink.
2. Classrooms should support a variety of teaching styles. Classroom arrangement should be easily reconfigurable to accommodate different learning activities, presentations and interaction styles.
3. The design must be able to accommodate changes in technology over the life of the classroom.

HS11-C-3.4 Finishes and Features:

<table>
<thead>
<tr>
<th>General Notes:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Floor:</td>
</tr>
<tr>
<td>Floor Transitions:</td>
</tr>
<tr>
<td>Base:</td>
</tr>
<tr>
<td>Walls:</td>
</tr>
<tr>
<td>Ceiling:</td>
</tr>
<tr>
<td>Ceiling Height:</td>
</tr>
<tr>
<td>Doors:</td>
</tr>
<tr>
<td>Windows:</td>
</tr>
</tbody>
</table>

HS11-C-3.5 Casework & Special Features:

General
1. Window blinds at all exterior windows.
2. One (1) synchronized wall-hung clock with batteries.

CR Primary Wall: 1. See HS-1 Appendix 1 for typical teaching wall requirements.

CR Secondary Wall: 1. One (1) 4'-0"x8'-0" multimedia board.
2. Two (2) 16'-0" tackable strips @ 42" and 78" AFF.
3. 24"D x 36"H x 48"W sink cabinet.

HS11-C-3.6 Furniture, Fixtures & Equip.:

(Provided by Owner's Furniture & Equipment Specialist, see room data sheets)
HS11-C-3.7  Instruc. Mat & Equipment:

HS11-C-3.8  Mechanical Criteria:
   1. Provide sink with hot and cold water.

HS11-C-3.9  Electrical Criteria:

   Power:  
   1. See HS-1 Appendix 1 for typical teaching wall requirements.
   2. Two (2) duplex outlets on storage and secondary walls.
   3. Duplex outlets for computers @ 30" from corner; 60" OC; 36" AFF, along computer wall.

   Lighting:  
   1. Lighting levels must take into consideration the student's ability to take notes when classroom is darkened for AV presentations.
   2. Locate lighting controls conveniently for the instructor to adjust light level as needed.

   Data & Other:  
   1. See HS-1 Appendix 1 for typical teaching wall requirements.
   2. Data outlets - same as general classrooms.
   3. Locate intercom handset near smartboard technology.

HS11-C-3.10  Technology Criteria:
Da-3. Physical Requirements

HS11-Da-3.1 Space(s):

**Da. Wellness Room**

HS11-Da-3.2 Use:

1. Wellness classes.
2. Wellness classes for athletes after school and during summer.

HS11-Da-3.3 Special Criteria:

1. Wellness room should be set up with padded walls for aerobic-type fitness classes, and after school practices (ex: cheerleading, wrestling, etc.).
2. Provide at least one corridor door with 5'-0" clearance for moving equipment between rooms and storage areas.
3. High ceilings are preferred.

HS11-Da-3.4 Finishes and Features:

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<tr>
<th>General Notes:</th>
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</thead>
<tbody>
<tr>
<td>Floor: Interlocking rubber flooring over concrete slab.</td>
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<tr>
<td>Floor Transitions:</td>
</tr>
<tr>
<td>Base: Resilient top-set base</td>
</tr>
<tr>
<td>Walls: Painted CMU.</td>
</tr>
<tr>
<td>Ceiling: Acoustical ceiling panels.</td>
</tr>
<tr>
<td>Ceiling Height: 9'-4&quot; minimum. Higher ceilings are preferred.</td>
</tr>
<tr>
<td>Doors: Door width must be sized to accommodate equipment.</td>
</tr>
<tr>
<td>Windows: (none required)</td>
</tr>
</tbody>
</table>

HS11-Da-3.5 Casework & Special Features:

**General:**

1. One (1) synchronized wall-hung clock with batteries.
2. See HS-1 Appendix 1 for typical teaching wall requirements.

HS11-Da-3.6 Furniture, Fixtures & Equip.:

**Contractor provide:**

1. Unit for TV – DVD player.
2. Wall pads.

**Owner provide:**

HS11-Da-3.7 Instruc. Mat & Equipment:

HS11-Da-3.8 Mechanical Criteria:

1. Provide sufficient ventilation / humidity control to prevent condensation and odors.
HIGH SCHOOL 11-Health PE / Athletics

HS11-Da-3.9 Electrical Criteria:

Power:
1. Provide two (2) duplex outlets on each wall.
2. See HS-1 Appendix 1 for typical teaching wall requirements.

Lighting:

Data & Other:
1. Intercom handset and speakers.
2. Provide one (1) 2-port data port in proximity to MATV.
3. See HS-1 Appendix 1 for typical teaching wall requirements.

HS11-Da-3.10 Technology Criteria:
Db-3. Physical Requirements

HS11-Db-3.1 Space(s):

Db. Weight Training Room

HS11-Db-3.2 Use:

1. Weight training classes.
2. Weight training for athletes after school and during summer.

HS11-Db-3.3 Special Criteria:

3. Provide at least one corridor door with 5'-0” clearance for moving equipment between rooms and storage areas.
4. High ceilings are preferred.
5. Arrange the weight room with fourteen (14) machine or lifting stations.
6. Allow adequate space around each station for safety. Consider standing room for spotters.

HS11-Db-3.4 Finishes and Features:

<table>
<thead>
<tr>
<th>General Notes:</th>
<th>Interlocking rubber flooring over concrete slab.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Floor:</td>
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<tr>
<td>Floor Transitions:</td>
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</tr>
<tr>
<td>Base:</td>
<td>Resilient top-set base</td>
</tr>
<tr>
<td>Walls:</td>
<td>Painted CMU.</td>
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<tr>
<td>Ceiling:</td>
<td>Acoustical ceiling panels.</td>
</tr>
<tr>
<td>Ceiling Height:</td>
<td>9’-4” minimum. Higher ceilings are preferred.</td>
</tr>
<tr>
<td>Doors:</td>
<td>Door width must be sized to accommodate equipment.</td>
</tr>
<tr>
<td>Windows:</td>
<td>(none required)</td>
</tr>
</tbody>
</table>

HS11-Db-3.5 Casework & Special Features:

| General:         | 1. One (1) synchronized wall-hung clock with batteries. |
|                  | 2. See HS-1 Appendix 1 for typical teaching wall requirements. |
**HS11-Db-3.6  Furniture, Fixtures & Equip.:**

**Contractor provide:**
1. Unit for TV – DVD player.

**Owner provide:**
1. One (1) leg press machine.
2. Two (2) standard bench press benches.
3. Two (2) standard incline benches.
4. Three (3) squat (power) racks.
5. Two (2) 12-pair dumbbell racks with dumbbells.
6. One (1) pec machine.
7. One (1) lat pull machine.
8. Seven (7) plate holders with weights, bars and spring clips.
9. Fifteen (15) belts with rack.
10. One (1) tricep bar.
11. Two (2) curl bars.
12. Two (2) 4'-0" x 6'-0" power clean stations.

**HS11-Db-3.7  Instruc. Mat & Equipment:**

**HS11-Db-3.8  Mechanical Criteria:**
1. Provide sufficient ventilation / humidity control to prevent condensation and odors.

**HS11-Db-3.9  Electrical Criteria:**

**Power:**
1. Provide two (2) duplex outlets on each wall.
2. See [HS-1 Appendix 1](#) for typical teaching wall requirements.

**Lighting:**

**Data & Other:**
1. Intercom handset and speakers.
2. Provide one (1) 2-port data port in proximity to MATV.
3. See [HS-1 Appendix 1](#) for typical teaching wall requirements.

**HS11-Db-3.10  Technology Criteria:**
E-3. Physical Requirements

HS11-E-3.1  Space(s):

**E. Athletic Director Office.**

HS11-E-3.2  Use:

1. Office for Athletic Director to perform job functions such as writing, planning, counseling and routine administration.

HS11-E-3.3  Special Criteria:

1. Sound isolate.
2. Locate off main corridor.
3. Do not locate in locker room area.

HS11-E-3.4  Finishes and Features:

<table>
<thead>
<tr>
<th>General Notes:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Floor: Carpet</td>
</tr>
<tr>
<td>Floor Transitions:</td>
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<tr>
<td>Base: Resilient top-set base</td>
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<tr>
<td>Walls: Painted CMU / gypsum wallboard</td>
</tr>
<tr>
<td>Ceiling: Acoustical ceiling panels</td>
</tr>
<tr>
<td>Ceiling Height: 9'-4&quot;</td>
</tr>
<tr>
<td>Doors: Provide door with small view panel.</td>
</tr>
<tr>
<td>Windows:</td>
</tr>
</tbody>
</table>

HS11-E-3.5  Casework & Special Features:

**General**

1. Window blinds at all exterior windows.
2. One (1) 4'-0" x 4'-0" tackboard.
3. One (1) 4'x0" x 4'-0" markerboard.

HS11-E-3.6  Furniture, Fixtures & Equip.:

HS11-E-3.7  Instruc. Mat & Equipment:

HS11-E-3.8  Mechanical Criteria:
HS11-E-3.9 Electrical Criteria:

Power: 
1. Provide one (1) duplex outlet on each wall.
2. Provide one (1) duplex outlet for computer

Lighting:

Data & Other: 
1. Two (2) 2-port data outlets.
2. Intercom.

HS11-E-3.10 Technology Criteria:
F-3. Physical Requirements

HS11-F-3.1 Space(s):

F. Boys’ Team Locker Room.

HS11-F-3.2 Use:

1. Athletic team use.

HS11-F-3.3 Special Criteria:

1. Direct access to shower and toilets.
2. Locate near exterior corridor exit. No exit directly from locker room.
3. Separate locker areas for each sport.
4. Need area with multimedia board for team to congregate.
5. Provide sound control between Team and Class PE locker rooms.

HS11-F-3.4 Finishes and Features:

<table>
<thead>
<tr>
<th>General Notes:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Floor:</td>
<td>VCT</td>
</tr>
<tr>
<td>Floor Transitions:</td>
<td></td>
</tr>
<tr>
<td>Base:</td>
<td>Resilient top-set base</td>
</tr>
<tr>
<td>Walls:</td>
<td>Epoxy-painted CMU</td>
</tr>
<tr>
<td>Ceiling:</td>
<td>Gypsum wallboard</td>
</tr>
<tr>
<td>Ceiling Height:</td>
<td></td>
</tr>
<tr>
<td>Doors:</td>
<td>4'-0&quot; wide. Position door so there are no sight lines into locker room.</td>
</tr>
<tr>
<td>Windows:</td>
<td>(none)</td>
</tr>
</tbody>
</table>

HS11-F-3.5 Casework & Special Features:

General

1. 4’-0” x 8’-0” marker board with projection capabilities.
2. Two (2) 4’-0” x 4’-0” tackboards.
3. 4 LF full length stainless steel mirrors.

HS11-F-3.6 Furniture, Fixtures & Equip.:

Contractor provide:

1. 100 - 24” x 18” x 72” vented lockers with integral benches.
2. 100 - 12” x 12” x 72” vented lockers.
3. Benches in area with 12” x 12” lockers.

HS11-F-3.7 Instruc. Mat & Equipment:

HS11-F-3.8 Mechanical Criteria:

1. Should be heated and air conditioned with sufficient ventilation to control odors and humidity.
HS11-F-3.9  Electrical Criteria:

**Power:**
1. Provide duplex outlets near mirrors for portable hair dryers (GFI).
2. Provide at least one outlet per wall.

**Lighting:**

**Data & Other:**
1. Intercom speakers only.

HS11-F-3.10  Technology Criteria:
G-3. Physical Requirements

HS11-G-3.1 Space(s):  

G. Boys’ Class Locker Room

HS11-G-3.2 Use:  
1. Changing and storage of personal belongings for Physical Education students.  
2. Locker room for visiting teams during competitions.

HS11-G-3.3 Special Criteria:  
1. Direct access to shower/toilet areas.

HS11-G-3.4 Finishes and Features:

| General Notes: |  |
| Floor: | VCT |
| Floor Transitions: |  |
| Base: | Resilient top-set base |
| Walls: | Epoxy-painted CMU |
| Ceiling: | Gypsum wallboard |
| Ceiling Height: |  |
| Doors: | 4'-0" wide. Position door so there are no sight lines into locker room. |
| Windows: | (none) |

HS11-G-3.5 Casework & Special Features:

General  
1. 4'-0" x 8'-0" marker board with projection capabilities.  
2. 4'-0" x 8'-0" tackboard.  
3. 8 LF full length stainless steel mirrors

HS11-G-3.6 Furniture, Fixtures & Equip.:  

Contractor provide:  
1. 135 lockers (12" x 12" x 36").  
2. Benches.

HS11-G-3.7 Instruc. Mat & Equipment:

HS11-G-3.8 Mechanical Criteria:  
1. Should be heated and air conditioned with sufficient ventilation to control odors and humidity.
HS11-G-3.9 Electrical Criteria:

**Power:**
1. Provide duplex outlets near mirrors for portable hair dryers (GFI).
2. Provide at least one (1) duplex outlet per wall.

**Lighting:**

**Data & Other:**
1. Intercom speakers only.

HS11-G-3.10 Technology Criteria:
HI-3. Physical Requirements

HS11-HI-3.1 Space(s):

**H. Showers / Restrooms - Boys Class**

**I. Showers / Restrooms - Boys Team**

HS11-HI-3.2 Use:

1. Personal hygiene for students.

HS11-HI-3.3 Special Criteria:

1. Direct access to locker rooms.
2. Toilet rooms adjacent to showers.

HS11-HI-3.4 Finishes and Features:

<table>
<thead>
<tr>
<th>General Notes:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Floor:</td>
<td>Ceramic Tile</td>
</tr>
<tr>
<td>Floor Transitions:</td>
<td></td>
</tr>
<tr>
<td>Base:</td>
<td>Ceramic Tile</td>
</tr>
<tr>
<td>Walls:</td>
<td>Ceramic Tile</td>
</tr>
<tr>
<td>Ceiling:</td>
<td>Gypsum Wallboard</td>
</tr>
<tr>
<td>Ceiling Height:</td>
<td></td>
</tr>
<tr>
<td>Doors:</td>
<td>(none)</td>
</tr>
<tr>
<td>Windows:</td>
<td>(none)</td>
</tr>
</tbody>
</table>

HS11-HI-3.5 Casework & Special Features:

**General**

1. Bar soap holder for each shower.
2. Shower rod for each shower stall.
3. Shower bench (@ accessible shower only).
5. 10'-0"W x 4'-0"H mirror.
7. Handicapped accessible toilet paper dispenser.
8. Accessible grab bars.

**Owner furnish & Contractor install:**

1. Non-Accessible toilet paper dispensers.

HS11-HI-3.6 Furniture, Fixtures & Equip.:

HS11-HI-3.7 Instruc. Mat & Equipment:
HS11-HI-3.8 Mechanical Criteria:

1. Floor drain.
2. Hose bibb.
3. Connected to Class Locker Room: 2 individual showers.
4. Connected to Team Locker Room: 10 individual showers.

HS11-HI-3.9 Electrical Criteria:

Power:
1. Duplex outlets near mirrors for portable hair dryers (GFI).

Lighting:

Data & Other:

HS11-HI-3.10 Technology Criteria:
J-3. Physical Requirements

**HS11-J-3.1  Space(s):**

**J. Girls’ Team Locker Room.**

**HS11-J-3.2  Use:**

1. Athletic Team use.

**HS11-J-3.3  Special Criteria:**

1. Direct access to shower and toilets.
2. Locate near exterior corridor exit. No exit directly from locker room.
3. Need area with multimedia board for team to congregate.
4. Separate areas for each sport.
5. Provide sound control between Team and Class PE locker rooms.

**HS11-J-3.4  Finishes and Features:**

<table>
<thead>
<tr>
<th>General Notes:</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
</tr>
</tbody>
</table>

| Floor: | VCT |
| Floor Transitions: |
| Base: | Resilient top-set base |
| Walls: | Epoxy-painted CMU |
| Ceiling: | Gypsum Wallboard |
| Ceiling Height: |
| Doors: | 4'-0" wide. Position door so there are no sight lines into locker room. |
| Windows: | (none) |

**HS11-J-3.5  Casework & Special Features:**

**General**

1. 4'-0" x 8'-0" marker board with projection capabilities.
2. Two (2) 4'-0" x 4'-0" tackboards.
3. 4 LF full length stainless steel mirrors.

**HS11-J-3.6  Furniture, Fixtures & Equip.:**

**Contractor provide:**

1. 130 - 12" x 12" x 72" vented lockers.
2. Benches.

**HS11-J-3.7  Instruc. Mat & Equipment:**

**HS11-J-3.8  Mechanical Criteria:**

1. Should be heated and air conditioned with sufficient ventilation to control odors and humidity.
HS11-J-3.9  Electrical Criteria:

Power:  
1. Duplex outlets near mirrors for portable hair dryers (GFI).

Lighting:  

Data & Other:  
1. Intercom speakers only.

HS11-J-3.10  Technology Criteria:
K-3. Physical Requirements

HS11-K-3.1 Space(s):

**K. Girls' Class Locker Room**

HS11-K-3.2 Use:

1. Changing and storage of personal belongings for physical education and dance students.
2. Locker room for visiting teams during competitions.

HS11-K-3.3 Special Criteria:

1. Direct access to shower/toilet areas.

HS11-K-3.4 Finishes and Features:

<table>
<thead>
<tr>
<th>General Notes:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Floor:</td>
<td>VCT</td>
</tr>
<tr>
<td>Floor Transitions:</td>
<td></td>
</tr>
<tr>
<td>Base:</td>
<td>Resilient top-set base</td>
</tr>
<tr>
<td>Walls:</td>
<td>Epoxy-painted CMU</td>
</tr>
<tr>
<td>Ceiling:</td>
<td>Gypsum wallboard</td>
</tr>
<tr>
<td>Ceiling Height:</td>
<td></td>
</tr>
<tr>
<td>Doors:</td>
<td>4’-0” wide. Position door so there are no sight lines into locker room.</td>
</tr>
<tr>
<td>Windows:</td>
<td>(none)</td>
</tr>
</tbody>
</table>

HS11-K-3.5 Casework & Special Features:

**General**

1. 4’-0” x 8’-0” marker board with projection capabilities.
2. 4’-0” x 8’-0” tackboard.
3. 8 LF full length stainless steel mirrors

HS11-K-3.6 Furniture, Fixtures & Equip.:

**Contractor provide:**

1. 135 lockers (12” x 12” x 36”).
2. Benches.

HS11-K-3.7 Instruc. Mat & Equipment:

HS11-K-3.8 Mechanical Criteria:

1. Should be heated and air conditioned with sufficient ventilation to control odors and humidity.
HS11-K-3.9 Electrical Criteria:

**Power:** 1. Duplex outlets near mirrors for portable hair dryers (GFI).

**Lighting:**

**Data & Other:** 1. Intercom speakers only.

HS11-K-3.10 Technology Criteria:
LM-3. Physical Requirements

HS11-LM-3.1 Space(s):

L. Showers / Restrooms - Girls' Class.
M. Showers / Restrooms - Girls' Team.

HS11-LM-3.2 Use:

1. Personal hygiene for students.

HS11-LM-3.3 Special Criteria:

1. Direct access to locker rooms.
2. Toilet rooms adjacent to showers.

HS11-LM-3.4 Finishes and Features:

<table>
<thead>
<tr>
<th>General Notes:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Floor: Ceramic Tile</td>
</tr>
<tr>
<td>Floor Transitions:</td>
</tr>
<tr>
<td>Base: Ceramic Tile</td>
</tr>
<tr>
<td>Walls: Ceramic Tile</td>
</tr>
<tr>
<td>Ceiling: Gypsum wallboard</td>
</tr>
<tr>
<td>Ceiling Height:</td>
</tr>
<tr>
<td>Doors: (none)</td>
</tr>
<tr>
<td>Windows: (none)</td>
</tr>
</tbody>
</table>

HS11-LM-3.5 Casework & Special Features:

**Contractor provide:**
1. Bar soap holder for each shower.
2. Shower rod for each shower stall.
3. Shower bench (@ accessible shower only).
5. 10'-0"W x 4'-0"H mirror.
7. Paper towel dispensers.
8. Sanitary napkin disposal.
9. Handicapped accessible toilet paper dispenser.

**Owner furnish, Contractor install:**
1. Non-Accessible toilet paper dispensers.

HS11-LM-3.6 Furniture, Fixtures & Equip.:

HS11-LM-3.7 Instruc. Mat & Equipment:
**HS11-LM-3.8  Mechanical Criteria:**

1. Floor drain.
2. Hose bibb.
3. Connected to Class PE Locker Room: 2 individual showers.
4. Connected to Team Locker Room: 10 individual showers.

**HS11-LM-3.9  Electrical Criteria:**

**Power:**
1. Duplex outlets near mirrors for portable hair dryers (GFI).

**Lighting:**

**Data & Other:**

**HS11-LM-3.10  Technology Criteria:**
Na-3. Physical Requirements

HS11-Na-3.1 Space(s):

Na. Training Room/First Aid

HS11-Na-3.2 Use:

1. First aid, taping and therapy.
2. Supply storage.

HS11-Na-3.3 Special Criteria:

1. Locate for easy access to all Team and Class PE Locker Rooms.
2. Need area to wash out and fill large coolers with ice and water to be taken to
   playing fields.
3. Access to this space must be directly from corridor and to exterior, and be adjacent
to Training Lab.

HS11-Na-3.4 Finishes and Features:

<table>
<thead>
<tr>
<th>General Notes:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Floor: Ceramic Tile</td>
</tr>
<tr>
<td>Floor Transitions:</td>
</tr>
<tr>
<td>Base: Ceramic Tile</td>
</tr>
<tr>
<td>Walls: Epoxy-painted CMU</td>
</tr>
<tr>
<td>Ceiling:</td>
</tr>
<tr>
<td>Ceiling Height:</td>
</tr>
<tr>
<td>Doors: Provide door with small vision panel to Training Lab, corridor, and exterior.</td>
</tr>
<tr>
<td>Windows: Provide view panels into Training Lab.</td>
</tr>
</tbody>
</table>

HS11-Na-3.5 Casework & Special Features:

<table>
<thead>
<tr>
<th>General:</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. 6'-0&quot;L x 24&quot;D x 36&quot;H counter with single deep stainless-steel sink and lockable adjustable below.</td>
</tr>
<tr>
<td>2. 6 LF 12&quot;D x 36&quot;H wall cabinet above sink counter with open shelving.</td>
</tr>
<tr>
<td>3. 9'-0&quot;L x 36&quot;D x 36&quot;H counter with 3 drawer/door cabinets below. Reinforce support for 3 athletes to sit on counter at the same time for taping.</td>
</tr>
<tr>
<td>4. Paper towel and soap dispensers.</td>
</tr>
<tr>
<td>5. One (1) synchronized wall-hung clock with batteries.</td>
</tr>
</tbody>
</table>
HS11-Na-3.6  Furniture, Fixtures & Equip.:

Contractor provide:
1. Two (2) ice machines with ice bins (800 lb /710 lb yield Manitowok unit that will make disc or cubes, and one 800lb flake unit).
2. Whirlpool (E series 27 Gallon Whitehall or similar).
4. 17 - 18 CuF. refrigerator with ice maker.

Owner provide:
1. Scale.
2. Exercise Bike.

HS11-Na-3.7  Instruc. Mat & Equipment:

HS11-Na-3.8  Mechanical Criteria:
1. Cold and hot water.
2. Floor Drain.
3. Interior and exterior hose bibb for filling coolers.
4. Water hook-up for whirlpool.
5. Water hook-up for 2 ice machines.
6. Water hook-up for refrigerator ice maker.

HS11-Na-3.9  Electrical Criteria:

Power:
1. Provide one (1) duplex outlet on each wall.
2. Provide one (1) duplex outlet above sink counter (GFI).
3. Provide two (2) duplex outlets for desk.
4. Electrical to accommodate whirlpool and two (2) ice machines.

Lighting:

Data & Other:
1. Intercom handset and speakers.
2. Two (2) 2-port data outlets.

HS11-Na-3.10  Technology Criteria:
Nb-3. Physical Requirements

HS11-Nb-3.1 Space(s):

**Nb. Training Office.**

HS11-Nb-3.2 Use:

1. Office for Trainer to perform job functions such as writing, planning, counseling and routine administration. Secure storage of all student health files and information.

HS11-Nb-3.3 Special Criteria:

1. Office for trainer must be adjacent to Training Lab.

HS11-Nb-3.4 Finishes and Features:

<table>
<thead>
<tr>
<th>General Notes:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Floor: Carpet</td>
</tr>
<tr>
<td>Floor Transitions:</td>
</tr>
<tr>
<td>Base: Resilient top-set cove base</td>
</tr>
<tr>
<td>Walls: Painted CMU/ Gypsum Wallboard</td>
</tr>
<tr>
<td>Ceiling:</td>
</tr>
<tr>
<td>Ceiling Height:</td>
</tr>
<tr>
<td>Doors: Provide door with small vision panel to corridor and to Training Lab.</td>
</tr>
<tr>
<td>Windows: Interior view panels into Training Lab.</td>
</tr>
</tbody>
</table>

HS11-Nb-3.5 Casework & Special Features:

General:
1. One (1) 4'-0" x 4'-0" tackboard.
2. One (1) 4'x0" x 4'-0" markerboard.
3. Coat hook.
4. Window blinds.

HS11-Nb-3.6 Furniture, Fixtures & Equip.:

HS11-Nb-3.7 3.7 Instruc. Mat & Equipment:

HS11-Nb-3.8 3.8 Mechanical Criteria:
HS11-Nb-3.9  3.9 Electrical Criteria:

**Power:**
1. Provide one (1) duplex outlet on each wall.
2. Provide one (1) duplex outlet for computer.

**Lighting:**

**Data & Other:**
1. Intercom handset and speakers.
2. Two (2) 2-port data outlets.

HS11-Nb-3.10  3.10 Technology Criteria:
Nc-3. Physical Requirements

HS11-Nc-3.1 Space(s):

Nc. Training Lab.

HS11-Nc-3.2 Use:

1. Classroom for trainer instruction.

HS11-Nc-3.3 Special Criteria:

1. Direct access from corridor, with connecting doors to Trainer Office and Training Room/First Aid.

HS11-Nc-3.4 Finishes and Features:

<table>
<thead>
<tr>
<th>General Notes:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Floor:</td>
<td>VCT</td>
</tr>
<tr>
<td>Floor Transitions:</td>
<td></td>
</tr>
<tr>
<td>Base:</td>
<td>Resilient top-set cove base</td>
</tr>
<tr>
<td>Walls:</td>
<td>Painted CMU/ Gypsum Wallboard</td>
</tr>
<tr>
<td>Ceiling:</td>
<td>Acoustical ceiling panels</td>
</tr>
<tr>
<td>Ceiling Height:</td>
<td>10’-0”</td>
</tr>
<tr>
<td>Doors:</td>
<td>Provide door with small vision panel to corridor, Training Room/First Aid, and Training Office.</td>
</tr>
<tr>
<td>Windows:</td>
<td>Provide interior view panels between all Training Lab, Training Office, and Training Room/First Aid.</td>
</tr>
</tbody>
</table>

HS11-Nc-3.5 Casework & Special Features:

General:

1. See HS-1 Appendix 1 for typical teaching wall requirements.

2. Window blinds on all exterior windows (if any).

3. One (1) synchronized wall-hung clock with batteries.

4. Locking base and wall cabinets full width of one short wall of room.

5. Refer to HS-11 Appendix 2 for sample image of typical space.

HS11-Nc-3.6 Furniture, Fixtures & Equip.:

Owner provide:

1. Multiple athletic padded training tables with built-in storage (both small and large sizes)

HS11-Nc-3.7 3.7 Instruc. Mat & Equipment:

HS11-Nc-3.8 3.8 Mechanical Criteria:
HS11-Nc-3.9  3.9 Electrical Criteria:

**Power:**
1. Provide duplex outlets 6'-0" o.c. on each wall.

**Lighting:**

**Data & Other:**
1. Intercom handset and speakers.
2. Four (4) 2-port data outlets, one per wall.

HS11-Nc-3.10  3.10 Technology Criteria:
O-3. Physical Requirements

HS11-O-3.1 Space(s):

**O. Laundry Area**

HS11-O-3.2 Use:

1. Laundering and cleaning boys' and girls' team uniforms and equipment.

HS11-O-3.3 Special Criteria:

1. Joint use: boys' and girls' PE. and athletics.
2. Locate adjacent to Team General Storage.
3. Access to this space must be directly from corridor.

HS11-O-3.4 Finishes and Features:

<table>
<thead>
<tr>
<th>General Notes:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Floor:</td>
<td>VCT</td>
</tr>
<tr>
<td>Floor Transitions:</td>
<td></td>
</tr>
<tr>
<td>Base:</td>
<td>Resilient top-set cove base</td>
</tr>
<tr>
<td>Walls:</td>
<td>Epoxy-painted CMU</td>
</tr>
<tr>
<td>Ceiling:</td>
<td></td>
</tr>
<tr>
<td>Ceiling Height:</td>
<td></td>
</tr>
<tr>
<td>Doors:</td>
<td>Wide enough to accommodate commercial washer and dryer</td>
</tr>
<tr>
<td>Windows:</td>
<td></td>
</tr>
</tbody>
</table>

HS11-O-3.5 Casework & Special Features:

1. Paper towel and soap dispensers.
2. 5 LF of adjustable shelving for laundry supplies.

HS11-O-3.6 Furniture, Fixtures & Equip.:

1. Commercial washer. 80 pounds.
2. Commercial dryer. 75 pounds.
3. Anchors in floor for washer and dryer.

HS11-O-3.7 Instruc. Mat & Equipment:

HS11-O-3.8 Mechanical Criteria:

1. Laundry sink with cold and hot water.
2. Washer hookup.
3. Dryer with appropriate venting. Specify gas dryer if gas is available.
4. Floor drain.
HS11-O-3.9 Electrical Criteria:

- **Power:**
  1. Coordinate electrical requirements with equipment.

- **Lighting:**

- **Data & Other:**
  1. Intercom speakers only.

HS11-O-3.10 Technology Criteria:
P-3. Physical Requirements

HS11-P-3.1  Space(s):

**P. PE Equipment Storage Room**

HS11-P-3.2  Use:

1. Storing equipment used in PE classes.

HS11-P-3.3  Special Criteria:

1. Should be easily accessed from all PE teaching spaces.
2. Prefer exterior and interior access.
3. Locate near Gymnasiums and exit to playing fields.

HS11-P-3.4  Finishes and Features:

<table>
<thead>
<tr>
<th>General Notes:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Floor:</td>
<td>VCT</td>
</tr>
<tr>
<td>Floor Transitions:</td>
<td></td>
</tr>
<tr>
<td>Base:</td>
<td>Resilient top-set base</td>
</tr>
<tr>
<td>Walls:</td>
<td>Painted CMU</td>
</tr>
<tr>
<td>Ceiling:</td>
<td>(none)</td>
</tr>
<tr>
<td>Ceiling Height:</td>
<td>(open to deck)</td>
</tr>
<tr>
<td>Doors:</td>
<td>Two (2) 3'-0&quot; doors with no middle stile.</td>
</tr>
<tr>
<td>Windows:</td>
<td>(none)</td>
</tr>
</tbody>
</table>

HS11-P-3.5  Casework & Special Features:

**General**


HS11-P-3.6  Furniture, Fixtures & Equip.:

**Owner provide:**

1. Two (2) 42'-0" x 42'-0" wrestling mats.
2. Three (3) wrestling mat dollies.
3. Two (2) ball baskets for volleyballs and basketballs.
4. PE Mats.

HS11-P-3.7  Instruc. Mat & Equipment:

HS11-P-3.8  Mechanical Criteria:
HS11-P-3.9  Electrical Criteria:

**Power:**
1. One (1) duplex outlet on each wall.

**Lighting:**

**Data & Other:**
1. Intercom speakers only.

HS11-P-3.10  Technology Criteria:
Q-3. Physical Requirements

HS11-Q-3.1  Space(s):

Q. Team General Storage

HS11-Q-3.2  Use:

1. Storing team uniforms and equipment.

HS11-Q-3.3  Special Criteria:

1. Locate near Gym and exit to playing fields.
2. Subdivide room into cages with chain link fencing. One cage to be 125 SF; one cage to be 75 SF; all others to be 50 SF each. Cages will be assigned to sports for storage of uniforms and equipment.

HS11-Q-3.4  Finishes and Features:

<table>
<thead>
<tr>
<th>General Notes:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Floor:</td>
<td>VCT</td>
</tr>
<tr>
<td>Floor Transitions:</td>
<td></td>
</tr>
<tr>
<td>Base:</td>
<td>Resilient top-set base</td>
</tr>
<tr>
<td>Walls:</td>
<td>Painted CMU</td>
</tr>
<tr>
<td>Ceiling:</td>
<td>(none)</td>
</tr>
<tr>
<td>Ceiling Height:</td>
<td>(open to deck above)</td>
</tr>
<tr>
<td>Doors:</td>
<td>Two (2) 3'-0&quot; doors with no middle stile</td>
</tr>
<tr>
<td>Windows:</td>
<td>(none)</td>
</tr>
</tbody>
</table>

HS11-Q-3.5  Casework & Special Features:

Contractor provide: 1. 30 LF of 24"D heavy-duty adjustable shelving in each cage.
2. 10 LF of clothes rods in each cage.

HS11-Q-3.6  Furniture, Fixtures & Equip.:

Owner provide: 1. Two (2) helmet racks for football.
2. Three (3) shoulder pad racks for football.

HS11-Q-3.7  Instruct. Mat & Equipment:

HS11-Q-3.8  Mechanical Criteria:
HS11-Q-3.9 Electrical Criteria:

**Power:**
1. Locate one (1) duplex outlet in each cage.

**Lighting:**

**Data & Other:**
1. Intercom speakers only.

HS11-Q-3.10 Technology Criteria:
R-3. Physical Requirements

HS11-R-3.1 Space(s):

R. Outdoor Equipment.

HS11-R-3.2 Use:

1. Storage of equipment and supplies used on outdoor playing fields.

HS11-R-3.3 Special Criteria:

1. Access from exterior.
2. Outdoor PE Storage to connect with PE Equipment Storage and Team General Storage.

HS11-R-3.4 Finishes and Features:

<table>
<thead>
<tr>
<th>General Notes:</th>
<th>Sealed concrete</th>
</tr>
</thead>
<tbody>
<tr>
<td>Floor:</td>
<td>Sealed concrete</td>
</tr>
<tr>
<td>Floor Transitions:</td>
<td></td>
</tr>
<tr>
<td>Base:</td>
<td>Resilient top-set base</td>
</tr>
<tr>
<td>Walls:</td>
<td>Painted CMU</td>
</tr>
<tr>
<td>Ceiling:</td>
<td>(none)</td>
</tr>
<tr>
<td>Ceiling Height:</td>
<td>(open to deck above)</td>
</tr>
<tr>
<td>Doors:</td>
<td>4'-0&quot; wide with louver</td>
</tr>
<tr>
<td>Windows:</td>
<td></td>
</tr>
</tbody>
</table>

HS11-R-3.5 Casework & Special Features:

General 1. 84"H x 24"D heavy duty adjustable shelving on one wall.

HS11-R-3.6 Furniture, Fixtures & Equip.:

HS11-R-3.7 Instruc. Mat & Equipment:

HS11-R-3.8 Mechanical Criteria:

HS11-R-3.9 Electrical Criteria:

Power: 1. One (1) duplex outlet near door.

Lighting:

Data & Other:

HS11-R-3.10 Technology Criteria:
S-3. Physical Requirements

HS11-S-3.1 Space(s):

S. Lobby Area / Commons.

HS11-S-3.2 Use:

1. For large groups to access gymnasium and auditorium.
2. For spectators / audience to congregate during intermission / half-time.

HS11-S-3.3 Special Criteria:

1. Locate for dual use for gymnasium and auditorium.
2. Direct access to public parking and public restrooms.
3. Public toilets in this area should be located for ease of visual supervision.

HS11-S-3.4 Finishes and Features:

<table>
<thead>
<tr>
<th>General Notes:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Floor:</td>
<td>VCT</td>
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<tr>
<td>Floor Transitions:</td>
<td></td>
</tr>
<tr>
<td>Base:</td>
<td></td>
</tr>
<tr>
<td>Walls:</td>
<td>Painted CMU / gypsum wallboard</td>
</tr>
<tr>
<td>Ceiling:</td>
<td></td>
</tr>
<tr>
<td>Ceiling Height:</td>
<td></td>
</tr>
<tr>
<td>Doors:</td>
<td></td>
</tr>
<tr>
<td>Windows:</td>
<td></td>
</tr>
</tbody>
</table>

HS11-S-3.5 Casework & Special Features:

HS11-S-3.6 Furniture, Fixtures & Equip.:

Contractor provide: 1. Trophy cases.

HS11-S-3.7 Instruc. Mat & Equipment:

HS11-S-3.8 Mechanical Criteria:

1. Provide drinking fountains.
HS11-S-3.9  Electrical Criteria:

**Power:**
1. Provide convenience duplex outlets suitable for cleaning/maintenance.

**Lighting:**

**Data & Other:**
1. Provide conduit and wiring for pay telephone to be installed by the telephone company.

HS11-S-3.10  Technology Criteria:
T-3. Physical Requirements

HS11-T-3.1  Space(s):

   **T. Ticket Booth.**

HS11-T-3.2  Use:

1. Sale of tickets for events held in Gym and Auditorium.

HS11-T-3.3  Special Criteria:

1. Locate for easy access by all spectators in lobby.
2. Consider security in location and orientation.

HS11-T-3.4  Finishes and Features:

| General Notes: |  
| Floor:         | VCT  
| Floor Transitions: |  
| Base:          | Resilient top-set cove  
| Walls:         | Painted CMU/ Gypsum Wallboard  
| Ceiling:       | Acoustical Panels  
| Ceiling Height: |  
| Doors:         | Lockable  
| Windows:       | Overhead coiling countertop shutter into Lobby  

HS11-T-3.5  Casework & Special Features:

   **General**
1. Counter at roll-up window with shelf below for money tray.

HS11-T-3.6  Furniture, Fixtures & Equip.:

HS11-T-3.7  Instruc. Mat & Equipment:

HS11-T-3.8  Mechanical Criteria:

HS11-T-3.9  Electrical Criteria:

   **Power:**
1. One (1) duplex outlet on each wall.

   **Lighting:**

   **Data & Other:**
1. One (1) 2-port data outlet.
2. Intercom connected to Theater Arts audio system as well as Main Gym.

HS11-T-3.10  Technology Criteria:
U-3. Physical Requirements

HS11-U-3.1 Space(s):

U. Concession Area

HS11-U-3.2 Use:

1. Food service will include packaged food items, such as candy bars, pre-packaged chips, and pre-packaged sandwiches. A partial list of additional foods that might be served could include: popcorn, peanuts, cotton candy, snow cones, candied apples, coffee and carbonated beverages.
2. It is anticipated that the PTA and/or booster clubs would manage the operation.

HS11-U-3.3 Special Criteria:

1. Consideration must be given to crowd management as this area tends to become congested.
2. Provide a galley type arrangement. Optimal room width is approximately 10'-0”.
3. Designers must comply with state and local health department requirements.

HS11-U-3.4 Finishes and Features:

| General Notes: | Stainless steel is an acceptable counter surface. Adequate counter space must be provided on both sides of the sink (1'-6”). |
| Floor: | |
| Floor Transitions: | VCT, slope to floor drain |
| Base: | Resilient top-set cove |
| Walls: | CMU, epoxy paint. Surface must be washable. (The joints between walls and floors shall be rounded or otherwise constructed to provide a tight seal between the floor and wall.) |
| Ceiling: | Surface must be painted and washable |
| Ceiling Height: | |
| Doors: | |
| Windows: | Concession area to have lockable, overhead coiling service window into lobby |

HS11-U-3.5 Casework & Special Features:

General

1. Provide a 42”H x 14”D serving ledge above a 36”H x 24”D work surface. Provide a 36”H x 24”D counter with double stainless steel sink. Provide 36” wide ADA-compliant serving ledge section.
2. Provide 18”D adjustable shelving no less than 15” AFF, beneath counters where other functions, such as sink or carbonated beverage service, do not occur.
3. Provide two (2) rows of adjustable shelving on wall above one counter.
HS11-U-3.6  Furniture, Fixtures & Equip.:  

Contractor provide:  1. Refrigerator - 17-18 Cu.F, no ice maker.

HS11-U-3.7  Instruc. Mat & Equipment:

HS11-U-3.8  Mechanical Criteria:  
1. Floor drains(s).
2. Double compartment stainless steel kitchen sink with hot and cold water.
3. A separate wall hung cast iron sink with hot and cold water.

HS11-U-3.9  Electrical Criteria:  

Power:  
1. Provide duplex outlets above food service counters @ 36” OC (GFI).
2. Provide duplex outlet for refrigerator.

Lighting:

Data & Other:  
1. Provide telephone outlet in food service area.

HS11-U-3.10 Technology Criteria:
V-3. Physical Requirements

HS11-V-3.1 Space(s):

V. Faculty Dress, Shower / Toilet

HS11-V-3.2 Use:
1. Shower / toilet / locker / dressing area to be used by faculty and officials for athletic competitions.

HS11-V-3.3 Special Criteria:
1. Locate in P.E./ performing arts faculty suite.
2. Contains shower / toilet / locker / dressing area with corridor entry.

HS11-V-3.4 Finishes and Features:

| General Notes:                                 |
| Floor: Ceramic Tile                          |
| Floor Transitions:                            |
| Base: Ceramic Tile                           |
| Walls: Painted CMU / gypsum wallboard         |
| Ceiling:                                     |
| Ceiling Height:                               |
| Doors: (none)                                 |
| Windows:                                     |

HS11-V-3.5 Casework & Special Features:

General
1. Sanitary napkin disposal.
2. Toilet paper dispenser (including handicapped accessible), soap dispenser, paper towel dispenser.
3. Mirror over sink.
4. Ten (10) 12" x 12" x 72" lockers.
5. Shower rod.
7. Full length mirror.

HS11-V-3.6 Furniture, Fixtures & Equip.:

HS11-V-3.7 Instruc. Mat & Equipment:

HS11-V-3.8 Mechanical Criteria:
1. Provide one shower, toilet and sink per room.
2. Ventilation for toilet and shower.
HS11-V-3.9  Electrical Criteria:

Power: 1. One (1) duplex outlet near sink.

Lighting:

Data & Other:

HS11-V-3.10  Technology Criteria:
LINE OF RETRACTED BLEACHERS
LINE REPRESENTS EXTENTS OF BLEACHER HANDRAILS WHEN RETRACTED

ALL 1'-6" DIMENSIONS ARE TO THE CENTERLINE OF EACH 1" THICK LINE.

8 SETS OF 5 AGILITY DOTS
Athletic Training Lab
1. General Educational Requirements

HS12-1.1 Objectives
1. Athletics is an important part of school extra-curricular activities, promoting school identity and spirit, as well as encouraging interaction between schools within the county.

2. To provide facilities for extra-curricular, spectator sports competitions, and other large group activities.

HS12-1.2 Trends
1. Increased interest in sports activities.
2. Increased awareness of the importance of sports and recreational activities.
3. Increased involvement of women in competitive sports.
4. Sports competitions for mentally and physically disabled individuals.
5. Year round use of school facilities.
6. Community use of school facilities.

HS12-1.3 Activities and Enrollment
1. The following extracurricular programs use the fields identified in Section HS20-Site for competitions:
   a. Sand Volleyball.
   c. Varsity men's football.
   d. Junior Varsity women's soccer.
   e. Varsity women's soccer.
   f. Junior Varsity men's soccer.
   g. Varsity men's soccer.
   h. Varsity men's lacrosse.
   i. Varsity women's lacrosse.
   j. Varsity women's track and field: long jump, high jump, running events, shot put.
   k. Varsity men's track and field: pole vaulting, long and triple jump, high jump, shot put, running events, discus.
   l. Marching Band.
2. Space Overview

HS12-2.1 Required Spaces

Reference:

<table>
<thead>
<tr>
<th>Identifier</th>
<th>Space</th>
<th>Quantity</th>
<th>Area Each (SF)</th>
<th>Area Total (SF)</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>Stadium (2000 home seats, 500 visitor seats) *</td>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>B</td>
<td>Concession Stand</td>
<td>1</td>
<td>540</td>
<td>540</td>
</tr>
<tr>
<td>C</td>
<td>Concession Storage</td>
<td>1</td>
<td>60</td>
<td>60</td>
</tr>
<tr>
<td>D</td>
<td>Press Box</td>
<td>1</td>
<td>400</td>
<td>400</td>
</tr>
<tr>
<td>E</td>
<td>Ticket Booth</td>
<td>1</td>
<td>60</td>
<td>60</td>
</tr>
<tr>
<td>F</td>
<td>Equipment Storage</td>
<td>1</td>
<td>400</td>
<td>400</td>
</tr>
<tr>
<td>G</td>
<td>Team Storage</td>
<td>1</td>
<td>150</td>
<td>150</td>
</tr>
<tr>
<td>H</td>
<td>Public Toilets**</td>
<td>1</td>
<td>2,500</td>
<td>2,500</td>
</tr>
</tbody>
</table>

Total: 8 | 4,110

* See HS20-Site for area requirements.
** Approximate area listed- verify actual size per current code.

HS12-2.2 Design Considerations

1. Auxiliary Athletic Support facilities should be located adjacent to practice fields for football and soccer. School parking areas which will also serve the stadium should be within reasonable proximity.

2. Locate Auxiliary Athletic Support facilities within close proximity to the Health/Physical Education facilities because storage spaces for uniforms and team equipment, changing areas and showers for referees, and team locker rooms are provided within the indoor PE spaces.

3. Construction materials, details and design should be chosen to provide durability, low maintenance and should integrate with campus architecture.

4. Underground utilities should be provided.

5. Security for individuals and property and reduction of conflicts between opposing school athletes and fans should be considered by proper placement and separation of exits.

6. Provisions shall be made for handicapped accessibility to both the field and spectator areas.

7. Design will provide flexibility so that the stadium may be utilized for other school activities such as convocations or for community events.

8. Master plan to bring school into future compliance with 4A standards.
2. Space Overview (continued)

HS12-2.3 Adjacency Diagram:

(none)
A-3. Physical Requirements

HS12-A-3.1 Space(s):

A. Stadium.

HS12-A-3.2 Use:

1. The bleachers are for spectator use during events. For crowd control they are divided into two areas, one for home and one for visitors.

HS12-A-3.3 Special Criteria:

1. 2,500 approximately 18"W seats divided into a 2,000-seat section for home and 500-seat section for visitors. (Possible portable bleachers to meet needs for hosting competitions.) If bleachers are above ground (not built into a sloping grade), the area underneath the bleachers must be fenced off with gates to increase security of this area and for future storage.

2. The bleachers are to be located outside the track at midfield. When configuring and locating bleachers, maintaining site lines to the playing field is of critical importance. The first row of seating should be high enough to have a clear view of the field. Circulation patterns, handicapped accessibility, distance to public toilets and concessions, and safety are to be considered in design.

3. Refer to Section HS20-Site for special requirements for long jump, high jump, triple jump, pole vault, shot put and discus.

4. For specific information concerning layout of playing fields refer to standards published by:
   a. National Federation of State High School Associations, PO Box 361246, Indianapolis, IN 46236-5324 (1-800-776-3462).
   b. North Carolina High School Athletic Association, Box 3216, Chapel Hill, NC 27515 (919-962-2345).

HS12-A-3.4 Finishes and Features:

HS12-A-3.5 Casework & Special Features:

   General 1. Fencing: 8'-0" high chain-link fencing to enclose the entire stadium, including behind bleachers. Gates shall be provided for controlled access and egress of pedestrians and for service and/or emergency vehicles.

   2. Fencing: 4'-0" high chain-link fencing to separate playing field and track areas from spectators.

   3. Pedestrian walkways.

   Owner provide: 1. Signs identifying school and teams.

   2. Markings for playing field.

   3. Team sports equipment.
HS12-A-3.6  Furniture, Fixtures & Equip.:

Contractor provide:
1. Bleachers: aluminum, to seat 2,500, including walkways, stairs, guardrails and handrails.
2. Two (2) team benches: portable, aluminum, capable of seating 45, with backs.
4. Scoreboard: 24'-0" x 8'-0" electronic with remote control in press box.
5. Competition soccer goals.

HS12-A-3.7  Instruc. Mat & Equipment:

HS12-A-3.8  Mechanical Criteria:
1. Irrigation system with electric heads.

HS12-A-3.9  Electrical Criteria:

Power:

Lighting:
1. Lighting level for football/soccer/track shall meet IES and NCHSAA field lighting recommended levels.
2. Consider existing transformers when planning addition of stadium lighting.
3. Metering should be decided in conjunction with Energy Management.
4. Provide two quartz lights on each of the stadium light poles for work lights. Work lights need to be switched independently of stadium lights.
5. Lamps on stadium poles will be accessed with a utility lift truck. Access, turning radius and weight of crane must be considered when planning fields and light pole location.
6. High mast lighting system- four (4) poles with metal halide lights to provide sufficient light for nighttime viewing and limited videotaping. The lights shall have quick restrick capability. Locate remote switch in Equipment Storage Room.
7. Area lighting: Provide sufficient general lighting for security when high mast lighting is not in use.

Data & Other:
1. Conduit for communication between press box and field.

HS12-A-3.10  Technology Criteria:
B-3. Physical Requirements

HS12-B-3.1 Space(s):

B. Concession Stand.

HS12-B-3.2 Use:

1. The concession areas will provide support spaces for the spectators.
2. Food service would include packaged food items, such as candy bars, pre-packaged chips, and pre-packaged sandwiches. A partial list of additional foods that might be served would include: popcorn, peanuts, cotton candy, snow cones, candied apples, coffee and carbonated beverages.
3. It is anticipated that the PTA and/or booster clubs would manage the concessions operation.

HS12-B-3.3 Special Criteria:

1. Public restrooms should be provided in close proximity to, or as part of, the concession building.
2. The main concession area should be located adjacent to the main entry gate and near the bleachers.
3. Consideration must be given to crowd management as this area tends to become congested.
4. Provide a galley-type arrangement. Optimal room width is approximately 10'-0".
5. Designers must comply with state and local health department requirements.

HS12-B-3.4 Finishes and Features:

<table>
<thead>
<tr>
<th>General Notes:</th>
<th>Stainless steel is an acceptable counter surface. Adequate counter space must be left on both sides of the sink (1'-6&quot;).</th>
</tr>
</thead>
<tbody>
<tr>
<td>Floor:</td>
<td>VCT - slope to floor drain</td>
</tr>
<tr>
<td>Floor Transitions:</td>
<td>Resilient top-set base</td>
</tr>
<tr>
<td>Base:</td>
<td>Resilient top-set base</td>
</tr>
<tr>
<td>Walls:</td>
<td>Epoxy-painted CMU. Surface must be washable. (The joints between walls and floors shall be rounded or otherwise constructed to provide a tight seal between the floor and wall.)</td>
</tr>
<tr>
<td>Ceiling:</td>
<td>Painted and washable</td>
</tr>
<tr>
<td>Ceiling Height:</td>
<td></td>
</tr>
<tr>
<td>Doors:</td>
<td>Lockable door.</td>
</tr>
<tr>
<td>Windows:</td>
<td>Provide lockable overhead rolling counter shutter at concession window(s).</td>
</tr>
</tbody>
</table>
HS12-B-3.5  Casework & Special Features:

General
1. Provide a 42"H x 14"D serving ledge above a 36"H x 24"D work surface. On the rear wall provide a 36"H x 24" deep counter with double stainless steel sink located in the middle.

2. Paper towel and soap dispensers.
3. Provide 18"D adjustable shelving no less than 15" AFF, beneath front and back counters where other functions, such as sink or carbonated beverage service, do not occur.

HS12-B-3.6  Furniture, Fixtures & Equip.:

Contractor provide:
1. One (1) Refrigerator - 17-18 Cu.F.
2. Ice Machine with ice bin 800lb/710lb yield producing discs or cubes (by Manitowok or equal).

Owner's Booster
Club provide:
1. Microwave oven.
2. Popcorn machine.
3. Carbonated beverage-serving equipment.
4. Coffee pot(s).
5. Ceiling fans.

HS12-B-3.7  Instruc. Mat & Equipment:

HS12-B-3.8  Mechanical Criteria:
1. Floor drain(s).
2. Two-compartment stainless steel kitchen sink with hot and cold water. The sink should be 53" Long, 23"x23"x12" (similar to the Regency 16 Gauge), and have a faucet that is high enough to fill and clean the typical 10 gallon coolers.
3. A separate wall hung cast iron sink with hot and cold water.
4. Provide at least two (2) freeze-proof hose bibbs on outside of concession building.

HS12-B-3.9  Electrical Criteria:

Power:
1. Provide duplex outlets above food service counter.
2. Provide at least one (1) duplex outlet above serving counter.
3. Provide one (1) duplex outlet for a chest freezer (verify power requirements).
4. Power and junction box(s) in ceiling for ceiling fan(s).

Lighting:

Data & Other:
1. Provide telephone outlet in food service area.
2. Provide junction boxes for future ceiling fans.

HS12-B-3.10  Technology Criteria:
C.3. Physical Requirements

HS12-C-3.1  Space(s):

C. Concession Storage

HS12-C-3.2  Use:

1. Storage of non-perishable pre-packaged foods and supplies.

HS12-C-3.3  Special Criteria:

1. Concession storage should be accessed through Concession Stand.
2. Provide maximum amount of adjustable shelving.

HS12-C-3.4  Finishes and Features:

<table>
<thead>
<tr>
<th>General Notes:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Floor:</td>
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<tr>
<td>Floor Transitions:</td>
<td></td>
</tr>
<tr>
<td>Base:</td>
<td>Resilient top-set base</td>
</tr>
<tr>
<td>Walls:</td>
<td>Epoxy-painted CMU</td>
</tr>
<tr>
<td>Ceiling:</td>
<td>Acoustical ceiling panels / Gypsum wallboard</td>
</tr>
<tr>
<td>Ceiling Height:</td>
<td></td>
</tr>
<tr>
<td>Doors:</td>
<td></td>
</tr>
<tr>
<td>Windows:</td>
<td></td>
</tr>
</tbody>
</table>

HS12-C-3.5  Casework & Special Features:

General 1. Provide maximum amount of 18”D and 24”D adjustable heavy-duty shelving no less than 15” AFF.

HS12-C-3.6  Furniture, Fixtures & Equip.:

HS12-C-3.7  Instruc. Mat & Equipment:

HS12-C-3.8  Mechanical Criteria:

HS12-C-3.9  Electrical Criteria:

Power: 1. One (1) duplex outlet near door.

Lighting:

Data & Other:

HS12-C-3.10  Technology Criteria:
D.3. Physical Requirements

HS12-D-3.1 Space(s):

D. Press Box.

HS12-D-3.2 Use:

1. The press box houses 12-17 game officials and media representatives including a scoreboard operator, a clock operator, an announcer, a spotter, coaches (home and visiting), television reporters, radio announcers, and video operators (home and visiting).

HS12-D-3.3 Special Criteria:

1. The press box shall be located at centerfield behind the home bleachers.
2. The structure shall have sufficient height so that there is an unobstructed view of the playing fields.
3. The press box shall be ADA accessible to accommodate persons with disabilities.
4. The press box shall consist of a large central room for announcer, officials and the press. Smaller rooms (approx. 8'-0" x 10'-0") are located at each end for use by coaches for home and opposing teams. Refer to HS-12 Appendix 1 for schematic layout.

HS12-D-3.4 Finishes and Features:

<table>
<thead>
<tr>
<th>General Notes:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Floor:</td>
<td>VCT</td>
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<td>Floor Transitions:</td>
<td></td>
</tr>
<tr>
<td>Base:</td>
<td>Resilient top-set base</td>
</tr>
<tr>
<td>Walls:</td>
<td>Painted gypsum wallboard</td>
</tr>
<tr>
<td>Ceiling:</td>
<td>Acoustical ceiling panels</td>
</tr>
<tr>
<td>Ceiling Height:</td>
<td></td>
</tr>
<tr>
<td>Doors:</td>
<td></td>
</tr>
<tr>
<td>Windows:</td>
<td>The side facing the playing field shall have glass from 2'-10&quot; AFF to 6'-10&quot; AFF. Maximize the glass areas to facilitate viewing of the playing field. Provide operable sliding and removable windows without center mullions.</td>
</tr>
</tbody>
</table>

HS12-D-3.5 Casework & Special Features:

Contractor provide: 1. Provide a continuous 18"D x 30"H counter running along the long viewing wall, with sound barrier to acoustically separate the coaches' rooms from the other officials.

HS12-D-3.6 Furniture, Fixtures & Equip.:  

HS12-D-3.7 Instruc. Mat & Equipment:  

HS12-D-3.8 Mechanical Criteria:
HS12-D-3.9  Electrical Criteria:

Power:
1. Two (2) duplex outlets in each coaches' room.
2. Provide duplex outlets 8'-0" on center on walls, and 4'-0" on center above counter minimum.

Lighting:

Data & Other:
1. Public address system.
2. Remote connection to the scoreboard.
3. Provide for communication between coaches in press box and coaches on the field.

HS12-D-3.10  Technology Criteria:
E.3. Physical Requirements

HS12-E-3.1  Space(s):

E. Ticket Booth.

HS12-E-3.2  Use:

1. Sale of tickets to athletic events.

HS12-E-3.3  Special Criteria:

1. Approximately 6'-0" x 10'-0" with window, counter and shelf below for cash box.
2. Consider traffic flow of ticket sales and ticket-taking in placement of ticket booth and entry gates.

HS12-E-3.4  Finishes and Features:

<table>
<thead>
<tr>
<th>General Notes:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Floor:</td>
<td>Sealed concrete</td>
</tr>
<tr>
<td>Floor Transitions:</td>
<td></td>
</tr>
<tr>
<td>Base:</td>
<td>Resilient top-set base</td>
</tr>
<tr>
<td>Walls:</td>
<td>Painted CMU</td>
</tr>
<tr>
<td>Ceiling:</td>
<td>Acoustical ceiling panels or gypsum wallboard</td>
</tr>
<tr>
<td>Ceiling Height:</td>
<td></td>
</tr>
<tr>
<td>Doors:</td>
<td>Solid (no view lite)</td>
</tr>
<tr>
<td>Windows:</td>
<td>One single-hung window, with easily-replaceable acrylic</td>
</tr>
</tbody>
</table>

HS12-E-3.5  Casework & Special Features:

General
1. Continuous counter with shelf below for cash box at window position.

HS12-E-3.6  Furniture, Fixtures & Equip.:

HS12-E-3.7  Instruc. Mat & Equipment:

HS12-E-3.8  Mechanical Criteria:

HS12-E-3.9  Electrical Criteria:

Power:
1. One duplex outlet.

Lighting:

Data & Other:

HS12-E-3.10  Technology Criteria:
F-3. Physical Requirements

HS12-F-3.1 Space(s):

F. Equipment Storage.

HS12-F-3.2 Use:

1. Storage of athletic and field maintenance equipment and lawn equipment.

HS12-F-3.3 Special Criteria:

1. Plan for safely storing and accessing bulky track and field equipment.

HS12-F-3.4 Finishes and Features:

<table>
<thead>
<tr>
<th>General Notes:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Floor:</td>
</tr>
<tr>
<td>Sealed concrete</td>
</tr>
<tr>
<td>Floor Transitions:</td>
</tr>
<tr>
<td>Base:</td>
</tr>
<tr>
<td>Resilient top-set cove</td>
</tr>
<tr>
<td>Walls:</td>
</tr>
<tr>
<td>Painted CMU</td>
</tr>
<tr>
<td>Ceiling:</td>
</tr>
<tr>
<td>Ceiling Height:</td>
</tr>
<tr>
<td>Doors:</td>
</tr>
<tr>
<td>Provide 3'-0&quot; personnel door, and 10'-0&quot; overhead coiling service door</td>
</tr>
<tr>
<td>Windows:</td>
</tr>
</tbody>
</table>

HS12-F-3.5 Casework & Special Features:

HS12-F-3.6 Furniture, Fixtures & Equip.:  

HS12-F-3.7 Instruc. Mat & Equipment:

HS12-F-3.8 Mechanical Criteria:

1. Hose bibb (freeze proof).

HS12-F-3.9 Electrical Criteria:

Power:  
1. Two (2) duplex outlets.

Lighting:  
1. One (1) overhead explosion proof fluorescent light.

Data & Other:

HS12-F-3.10 Technology Criteria:
G-3. Physical Requirements

**HS12-G-3.1 Space(s):**

**G. Team Storage.**

**HS12-G-3.2 Use:**

1. Storage of athletic equipment.

**HS12-G-3.3 Special Criteria:**

1. Plan for safely storing and accessing bulky track and field equipment.
2. Chain-link fencing enclosure may be necessary within equipment storage.

**HS12-G-3.4 Finishes and Features:**

<table>
<thead>
<tr>
<th>General Notes:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Floor:</td>
<td>Sealed concrete</td>
</tr>
<tr>
<td>Floor Transitions:</td>
<td></td>
</tr>
<tr>
<td>Base:</td>
<td></td>
</tr>
<tr>
<td>Walls:</td>
<td>Painted CMU</td>
</tr>
<tr>
<td>Ceiling:</td>
<td></td>
</tr>
<tr>
<td>Ceiling Height:</td>
<td></td>
</tr>
<tr>
<td>Doors:</td>
<td></td>
</tr>
<tr>
<td>Windows:</td>
<td></td>
</tr>
</tbody>
</table>

**HS12-G-3.5 Casework & Special Features:**

**HS12-G-3.6 Furniture, Fixtures & Equip.:**

**HS12-G-3.7 Instruc. Mat & Equipment:**

**HS12-G-3.8 Mechanical Criteria:**

**HS12-G-3.9 Electrical Criteria:**

| Power: |  |
| Lighting: |  |
| Data & Other: |  |

**HS12-G-3.10 Technology Criteria:**
H-3. Physical Requirements

HS12-H-3.1 Space(s):

H. Public Toilets.

HS12-H-3.2 Use:

1. Public toilets are for the use of the spectators during events.

HS12-H-3.3 Special Criteria:

1. Toilet facilities are to be provided in close proximity to, or as part of, the concession building.
2. Provide toilet facilities to meet NC Plumbing Code.
3. Provide drinking fountains on the exterior walls.
4. Provide two entrances/exits to increase efficiency and security.
5. The use of some natural light and ventilation in the design is encouraged.

HS12-H-3.4 Finishes and Features:

| General Notes: | 
| Floor: | 
| Floor Transitions: | 
| Base: | 
| Walls: | 
| Ceiling: | 
| Ceiling Height: | 
| Doors: | Provide 3'-0" lockable doors at entrance and exit. Doors to be held open during games |
| Windows: | 

HS12-H-3.5 Casework & Special Features:

HS12-H-3.6 Furniture, Fixtures & Equip.:

Contractor provide:

1. Provide paper towel dispensers.
2. Sanitary napkin disposal.
3. Toilet paper dispenser (including handicapped accessible), soap dispenser, paper towel dispenser.

HS12-H-3.7 Instruc. Mat & Equipment:

HS12-H-3.8 Mechanical Criteria:

1. Provide a ventilation system.
2. Provide for ability to drain (winterize) plumbing system, including traps, for both toilet rooms and Concessions at one location.
3. Connect exhaust fans to same switch used for interior lights in each area. Switch from same panel located in concession area.

HS12-H-3.9 Electrical Criteria:
Power:

Lighting:

Data & Other:

**HS12-H-3.10 Technology Criteria:**
1. General Educational Requirements

HS13-1.1 Objectives

1. To support professionalism of staff.
2. Teacher design and preparation of materials to meet specific learning requirements.
3. Privacy and respite from demands of students.
4. Opportunities for peer interaction.

HS13-1.2 Trends

1. Increased use of multi-media computerized technology.
2. Concern for maximizing finite resources.
3. Flexibility for academic grouping in teams or departments.

HS13-1.3 Activities and Enrollment

1. Class preparation and grading.
2. Meetings with parents, teachers and students.
3. Lunch and breaks.
4. Duplication of class materials.
5. Five groups of 24 workstations.
2. Space Overview

HS13-2.1 Required Spaces

Reference:

<table>
<thead>
<tr>
<th>Identifier</th>
<th>Space</th>
<th>Quantity</th>
<th>Area Each (SF)</th>
<th>Area Total (SF)</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>Faculty Lounge / Work Area</td>
<td>6</td>
<td>925</td>
<td>5,550</td>
</tr>
<tr>
<td>B</td>
<td>Faculty Conference</td>
<td>6</td>
<td>150</td>
<td>900</td>
</tr>
<tr>
<td>C</td>
<td>Faculty Toilets</td>
<td>10</td>
<td>56</td>
<td>560</td>
</tr>
</tbody>
</table>

Total 22 7,010

HS13-2.2 Design Considerations

1. Each faculty suite consists of a faculty workstation area, a lounge / work area, a conference room and toilets.
2. Four (4) faculty suites should be interspersed throughout the building, near classrooms, preferably at the intersection of major corridors.
3. One (1) faculty suite should be situated equally proximate to performing arts and physical education. This suite will have dressing / shower facilities in addition to other requirements.
2. Space Overview (continued)

**HS13-2.3 Adjacency Diagram:**

Provide 5 suites per below throughout school:

- Lounge with 24 Workstations
- Toilet
- Toilet
- Conference
- Corridor

Provide one suite per below near PE/Performing Arts:

- Lounge with 24 Workstations
- Conference
- Corridor
A-3. Physical Requirements

HS13-A-3.1 Space(s):

A. Faculty Lounge / Work Area.

HS13-A-3.2 Use:

1. Relaxing and socializing.
2. Limited food preparation and storage.
3. Class preparation and grading.
4. Storage for personal belongings.
5. Designing and developing instructional materials

HS13-A-3.3 Special Criteria:

1. Lounge / Work Area approx. 150 SF, Faculty Workstations approx. 775 SF.
2. In Lounge / Work Area locate sink, microwave oven, refrigerator, base and wall cabinets and 2 vending machines.
3. Locate toilets near corridor. Create a niche at entry for toilets, rather than opening toilets directly into Workstation Area or kitchen.
4. In Workstation Area each faculty member is assigned to an open office system modular workstation (approximately 4'-0" x 4'-0").
5. Provide space to "park" 6 mobile carts.
6. Lounge / Work Area to open directly into Workstation Area.
Locate tackboard in Workstation Area near entry to Lounge/Work Area.

HS13-A-3.4 Finishes and Features:

<table>
<thead>
<tr>
<th>General Notes:</th>
<th>Carpet in Workstation area, VCT in Lounge/Work Area</th>
</tr>
</thead>
<tbody>
<tr>
<td>Floor:</td>
<td></td>
</tr>
<tr>
<td>Floor Transitions:</td>
<td></td>
</tr>
<tr>
<td>Base:</td>
<td>Resilient top-set base</td>
</tr>
<tr>
<td>Walls:</td>
<td>Painted CMU / gypsum wallboard</td>
</tr>
<tr>
<td>Ceiling:</td>
<td>Acoustical ceiling panels</td>
</tr>
<tr>
<td>Ceiling Height:</td>
<td>9'-4&quot;</td>
</tr>
<tr>
<td>Doors:</td>
<td>Provide door with small vision panel.</td>
</tr>
<tr>
<td>Windows:</td>
<td></td>
</tr>
</tbody>
</table>

HS13-A-3.5 Casework & Special Features:

General

1. Window blinds at all exterior windows.
HS13-A-3.6  Furniture, Fixtures & Equip.:

**Contractor provide:**
1. Lounge / Work Area:
   a. 8 - 10 LF of countertop with base and wall cabinets.
   b. One (1) 21 CF refrigerator with icemaker.
   c. Paper towel dispenser and soap dispenser.
2. Workstation Area:
   a. One (1) 4'-0" x 4'-0" tackboard.
   b. Bracket for 40" flat screen monitor.
   c. One (1) synchronized wall-hung clock with batteries.

**Owner's Vending Company provide:**
1. Two (2) vending machines.

HS13-A-3.7  Instruct. Mat & Equipment:

HS13-A-3.8  Mechanical Criteria:
1. Exhaust fan for food odors in Lounge/Work area.
2. Water hookup for ice maker.
3. One (1) double stainless steel sink with hot and cold water.

HS13-A-3.9  Electrical Criteria:

**Power:**
1. Lounge/Work Area:
   a. Two (2) GFI duplex outlets above kitchen counter.
   b. One (1) duplex outlet for microwave oven.
   c. One (1) duplex outlet for each vending machine.
   d. One (1) duplex outlet on each additional wall.
2. Workstation Area:
   a. Junction boxes to support base power feeds for systems furniture workstations with duplex outlets in each workstation for computer and task lights.
   b. Duplex outlets for 2 centrally located networked printers.
   c. Duplex outlets for 3 centrally located networked computers.
3. Provide power connection for wall-mounted monitor.

**Lighting:**

**Data & Other:**
1. Provide data connection for wall-mounted monitor.
2. One (1) 2-port data outlet in each systems furniture workstation.
3. Two (2) 2-port data outlets for centrally located networked printers.
4. Three (3) 2-port data outlets for centrally located networked computers.
5. Telephone.
6. Provide intercom/headset.
HS13-A-3.10 Technology Criteria:
B-3. Physical Requirements

HS13-B-3.1 Space(s):

B. Faculty Conference.

HS13-B-3.2 Use:

1. Department meetings.
2. Designing and developing instructional materials.

HS13-B-3.3 Special Criteria:

1. Proportion room for conference table and chairs.
2. Connects to corridor and Faculty Workstation Area.

HS13-B-3.4 Finishes and Features:

<table>
<thead>
<tr>
<th>General Notes:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Floor:</td>
<td>Carpet</td>
</tr>
<tr>
<td>Floor Transitions:</td>
<td></td>
</tr>
<tr>
<td>Base:</td>
<td>Resilient top-set base</td>
</tr>
<tr>
<td>Walls:</td>
<td>Painted CMU / gypsum wallboard</td>
</tr>
<tr>
<td>Ceiling:</td>
<td>Acoustical ceiling panels</td>
</tr>
<tr>
<td>Ceiling Height:</td>
<td>9'-4&quot;</td>
</tr>
<tr>
<td>Doors:</td>
<td>Provide door with small vision panel</td>
</tr>
<tr>
<td>Windows:</td>
<td></td>
</tr>
</tbody>
</table>

HS13-B-3.5 Casework & Special Features:

General

1. Window blinds at all exterior windows.
2. One (1) 4'-0" x 6'-0" multi-purpose board.

HS13-B-3.6 Furniture, Fixtures & Equip.:

HS13-B-3.7 Instruc. Mat & Equipment:

HS13-B-3.8 Mechanical Criteria:
HS13-B-3.9  Electrical Criteria:

**Power:**
1. Two (2) duplex outlets on each long wall and one (1) duplex on each short wall.
2. Duplex outlet associated with communication outlet on surge-protected circuit.

**Lighting:**

**Data & Other:**
1. One (1) 2-port data outlet.

HS13-B-3.10  Technology Criteria:
C-3. Physical Requirements

HS13-C-3.1 Space(s):

C. Faculty Toilets.

HS13-C-3.2 Use:

1. Unisex toilet.

HS13-C-3.3 Special Criteria:

1. Locate two (2) toilets in each of five faculty suites.

HS13-C-3.4 Finishes and Features:

<table>
<thead>
<tr>
<th>General Notes:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Floor: VCT</td>
</tr>
<tr>
<td>Floor Transitions:</td>
</tr>
<tr>
<td>Base: Resilient top-set base</td>
</tr>
<tr>
<td>Walls: Painted CMU / gypsum wallboard</td>
</tr>
<tr>
<td>Ceiling: Acoustical ceiling panels</td>
</tr>
<tr>
<td>Ceiling Height: 9’-4”</td>
</tr>
<tr>
<td>Doors: Lockable door.</td>
</tr>
<tr>
<td>Windows:</td>
</tr>
</tbody>
</table>

HS13-C-3.5 Casework & Special Features:

General
1. Sanitary napkin disposal.
2. Toilet paper dispenser (including handicapped-accessible), paper towel dispenser, soap dispenser.
3. Mirror over sink.
4. Coat hook on back of door.

HS13-C-3.6 Furniture, Fixtures & Equip.:

HS13-C-3.7 Instruc. Mat & Equipment:

HS13-C-3.8 Mechanical Criteria:

1. Provide sink with hot and cold water.
2. Toilet.
HS13-C-3.9  Electrical Criteria:

   Power:  1. One (1) GFI duplex outlet near sink.

   Lighting:

   Data & Other:

HS13-C-3.10  Technology Criteria:
1. General Educational Requirements

HS14-1.1 Objectives

1. Create an atmosphere for planning and conducting all school affairs in a professional manner.
2. Provide leadership for all school related personnel.
3. Create an atmosphere that provides for a warm but business-like interaction between administrators, staff, students, and parents.

HS14-1.2 Trends

1. Increased need for privacy and confidentiality.
2. Need for a variety of flexible conference and seminar type rooms.
3. Increased security and storage needs.
4. Separation of responsibilities for Assistant Principals.
5. Electronic records-keeping and learning materials.
6. Increased use of computers and related technology.

HS14-1.3 Activities and Enrollment

1. An area for administrators and support personnel to perform assigned responsibilities in an efficient manner.
2. An area for confidentiality of discussion and records.
3. An area for receiving and communicating with all visitors to the school, as well as, students, staff and parents.
4. An area to address those staff and student needs not met in other area of the building.
5. Planning programs and schedules.
6. Housing student and financial records.
7. Conducting conferences and grade level staff meetings.
8. Preparing reports, typing letters and other communications.
9. Distributing mail and other communications.
10. Preparing classroom media and other materials for students and staff.
11. Housing keys and other valuable objects.
12. Monitoring thermal, electrical and emergency systems.
2. Space Overview

HS14-2.1 Required Spaces

Reference:

<table>
<thead>
<tr>
<th>Identifier</th>
<th>Space</th>
<th>Quantity</th>
<th>Area Each (SF)</th>
<th>Area Total (SF)</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>Reception Area / Receptionist</td>
<td>1</td>
<td>400</td>
<td>400</td>
</tr>
<tr>
<td>B</td>
<td>Principal's Office</td>
<td>1</td>
<td>225</td>
<td>225</td>
</tr>
<tr>
<td>C</td>
<td>Assistant Principal's Office (5 spaces total)</td>
<td>4</td>
<td>200</td>
<td>800</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1</td>
<td>150</td>
<td>150</td>
</tr>
<tr>
<td>D</td>
<td>Secretary's Office</td>
<td>3</td>
<td>150</td>
<td>450</td>
</tr>
<tr>
<td>E</td>
<td>Student Info Data Manager's Office</td>
<td>1</td>
<td>175</td>
<td>175</td>
</tr>
<tr>
<td>F</td>
<td>Bookkeeping</td>
<td>1</td>
<td>150</td>
<td>150</td>
</tr>
<tr>
<td>G</td>
<td>Attendance Office</td>
<td>1</td>
<td>170</td>
<td>170</td>
</tr>
<tr>
<td>H</td>
<td>Conference Room</td>
<td>2</td>
<td>225</td>
<td>450</td>
</tr>
<tr>
<td>I</td>
<td>Locked Storage</td>
<td>1</td>
<td>20</td>
<td>20</td>
</tr>
<tr>
<td>J</td>
<td>Work/Mail/Copy/Storage</td>
<td>1</td>
<td>400</td>
<td>400</td>
</tr>
<tr>
<td>(J)</td>
<td>Work/Mail/Copy/Storage</td>
<td>1</td>
<td>100</td>
<td>100</td>
</tr>
<tr>
<td>K</td>
<td>Toilets</td>
<td>2</td>
<td>56</td>
<td>112</td>
</tr>
<tr>
<td>L</td>
<td>Bus Transportation Suite</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>La</td>
<td>Bus Supervisor/Secretary Office</td>
<td>2</td>
<td>150</td>
<td>300</td>
</tr>
<tr>
<td>Lb</td>
<td>General Office (4 cubicles)</td>
<td>1</td>
<td>400</td>
<td>400</td>
</tr>
<tr>
<td>Lc</td>
<td>Toilet</td>
<td>1</td>
<td>100</td>
<td>100</td>
</tr>
<tr>
<td>M</td>
<td>Book Material Storage Room</td>
<td>1</td>
<td>700</td>
<td>700</td>
</tr>
<tr>
<td>N</td>
<td>Cooperative Education Room</td>
<td>2</td>
<td>120</td>
<td>240</td>
</tr>
<tr>
<td>O</td>
<td>In School Suspension (ISS) CR, Office, Toilet</td>
<td>1</td>
<td>750</td>
<td>750</td>
</tr>
</tbody>
</table>

Total                                      | 28        | 6,092          |

HS14-2.2 Design Considerations

1. Locate adjacent to front entrance to supervise incoming traffic and student parking.
2. Located adjacent to but separate from Student Support Services.
3. Provide a lockable door between Administrative area and Student Support Services, to be secured after school hours.
4. Locate three (3) satellite Assistant Principals’ offices in academic wings.
5. Promote a warm, friendly and inviting atmosphere.
6. Provide acoustical privacy in all offices and conference rooms.
7. Locate near cafeteria for ease of supervision.
2. Space Overview (continued)

HS14-2.3 Adjacency Diagram:
A-3. Physical Requirements

HS14-A-3.1 Space(s):

A. Reception Area / Receptionist.

HS14-A-3.2 Use:

1. Receiving students, staff, parents and visitors as well as placing and receiving phone calls and supervising student phone access.

HS14-A-3.3 Special Criteria:

1. Reception area should be readily identifiable to school visitors.
2. Reception area should be adjacent to the main entrance to the building and should be accessible from Secretary's Office, Principal's Office, one Assistant Principal's Office, Conference Room, Office Work Room, and storage areas.
3. Provide student access to telephone with adult supervision.
4. Provide space to seat eight visitors.
5. Provide space for I.D. badging system on counter or table.

HS14-A-3.4 Finishes and Features:

<table>
<thead>
<tr>
<th>General Notes:</th>
<th>Carpet</th>
</tr>
</thead>
<tbody>
<tr>
<td>Floor:</td>
<td></td>
</tr>
<tr>
<td>Floor Transitions:</td>
<td></td>
</tr>
<tr>
<td>Base:</td>
<td>Resilient top-set base</td>
</tr>
<tr>
<td>Walls:</td>
<td>Painted CMU / gypsum wallboard</td>
</tr>
<tr>
<td>Ceiling:</td>
<td>Acoustical ceiling panels</td>
</tr>
<tr>
<td>Ceiling Height:</td>
<td></td>
</tr>
<tr>
<td>Doors:</td>
<td>Door to entrance lobby should have half glass vision panel (minimum).</td>
</tr>
<tr>
<td>Windows:</td>
<td>Provide windows for visual supervision of entrances and vestibules. Provide windows into adjacent offices for secondary supervision of reception desk.</td>
</tr>
</tbody>
</table>

HS14-A-3.5 Casework & Special Features:

General

1. Window blinds at all exterior windows.
2. Fire extinguisher cabinet, recessed or semi-recessed.
HS14-A-3.6 Furniture, Fixtures & Equip.:

Owner furnish & Contractor install:

1. Reception Desk - a typical reception station (based on the Herman Miller Action Office Series 2 system) is illustrated in HS-14 Appendix 1. The arrangement may be customized based on door/window locations and layout of reception area.

2. One Public Address system with hand sets accessed by classrooms with a code.
3. Built-in glass display case in corridor across from entrance to reception.

Owner provide:

1. One (1) complete multi-task computer set-up, networked to SIDM Office and Attendance.

HS14-A-3.7 Instruc. Mat & Equipment:

HS14-A-3.8 Mechanical Criteria:

HS14-A-3.9 Electrical Criteria:

Power:

1. Provide a base power feed coordinated with power system used in systems furniture reception desk.
2. Provide duplex outlets at 6'-0" intervals elsewhere.

Lighting:

Data & Other:

1. Security monitors will be mounted facing the receptionist, not lobby visitors.
2. Provide multiline telephone/data system.
3. Provide two telephone outlets, one at each end of reception desk.
4. Provide Intercom access.
5. Provide a wall-mounted outlet for student phone access in circulation area.
6. Provide four (4) 2-port data outlets, coordinate with location of systems furniture reception desk.
7. Provide power and data connections for the visitor ID badge system (system NIC).
8. Provide a doorbell pushbutton adjacent to the main entry door, with the bell itself located within the Reception area.
9. Energy Management System override panel, locate accessible to staff only.
10. Fire alarm panel should be audible and visually accessible from reception desk but located at front entrance.

HS14-A-3.10 Technology Criteria:
B.3. Physical Requirements

HS14-B-3.1 Space(s):

B. Principal's Office.

HS14-B-3.2 Use:

1. Private staff, student and parent conferences.
2. Administrative tasks.

HS14-B-3.3 Special Criteria:

1. Requires visual and acoustical privacy.
2. Direct access to the Conference Room.
3. Adjacent or directly across the hall from one Secretary’s Office.
4. Access to Bookkeeper’s office, Assistant Principal’s office and Reception area.

HS14-B-3.4 Finishes and Features:

| General Notes:          |          |
| Floor:                  | Carpet   |
| Floor Transitions:      |          |
| Base:                   | Resilient top-set base |
| Walls:                  | Painted CMU / gypsum wallboard |
| Ceiling:                | Acoustical ceiling panels |
| Ceiling Height:         | 9’-4”    |
| Doors:                  | Lockable doors to conference room and interior corridor. Door to corridor shall have an 8” X 36” vision panel or sidelight. |
| Windows:                | Exterior windows |

HS14-B-3.5 Casework & Special Features:

General
1. Window blinds at all exterior windows.
2. Coat hook on back of door.

HS14-B-3.6 Furniture, Fixtures & Equip.:

Owner provide:

HS14-B-3.7 Instruc. Mat & Equipment:

HS14-B-3.8 Mechanical Criteria:
HS14-B-3.9  Electrical Criteria:

**Power:**
1. Two (2) duplex outlets on each wall.

**Lighting:**

**Data & Other:**
1. Two (2) 2-port data outlets on opposing walls.
2. Provide intercom hook-up for base unit, handset and speaker.

HS14-B-3.10  Technology Criteria:
C-3. Physical Requirements

HS14-C-3.1 Space(s):

C. Assistant Principal's Office.

HS14-C-3.2 Use:

1. Private staff, student and parent conferences.
2. Administrative tasks.

HS14-C-3.3 Special Criteria:

1. Three (200 S.F.) to be satellite offices. Satellite offices shall include a 50 S.F. enclosed waiting area. One office shall be adjacent to a 225 S.F. conference room. This office is intended for the Assistant Principal in charge of curriculum.
2. Require visual and acoustical privacy.

HS14-C-3.4 Finishes and Features:

<table>
<thead>
<tr>
<th>General Notes:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Floor:</td>
</tr>
<tr>
<td>Floor Transitions:</td>
</tr>
<tr>
<td>Base:</td>
</tr>
<tr>
<td>Walls:</td>
</tr>
<tr>
<td>Ceiling:</td>
</tr>
<tr>
<td>Ceiling Height:</td>
</tr>
<tr>
<td>Doors:</td>
</tr>
<tr>
<td>Windows:</td>
</tr>
</tbody>
</table>

HS14-C-3.5 Casework & Special Features:

General

1. Window blinds at all exterior windows.
2. Coat hook on back of door.

HS14-C-3.6 Furniture, Fixtures & Equip.:

Owner provide:


HS14-C-3.7 Instruc. Mat & Equipment:

HS14-C-3.8 Mechanical Criteria:
HS14-C-3.9  Electrical Criteria:

**Power:**
1. Two (2) duplex outlets on each wall.

**Lighting:**

**Data & Other:**
1. Two (2) 2-port data outlets on opposing walls.
2. Provide intercom hook-up for base unit, handset and speaker.

HS14-C-3.10  Technology Criteria:
D-3. Physical Requirements

HS14-D-3.1 Space(s):

D. Secretary’s Office.

HS14-D-3.2 Use:

1. Support for Principal, Assistant Principals and other staff.
2. Preparation of correspondence, reports and other administrative tasks.

HS14-D-3.3 Special Criteria:

1. Locate one Secretary’s office adjacent to Reception area with a lockable, insulated, operable window between them. Window sill should be 34” maximum AFF.
2. Locate one Secretary's Office adjacent or directly across the hall from Principal’s Office.

HS14-D-3.4 Finishes and Features:

<table>
<thead>
<tr>
<th>General Notes:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Floor: Carpet</td>
</tr>
<tr>
<td>Floor Transitions:</td>
</tr>
<tr>
<td>Base: Resilient top-set base</td>
</tr>
<tr>
<td>Walls: Painted CMU / gypsum wallboard</td>
</tr>
<tr>
<td>Ceiling: Acoustical ceiling panels, accommodate hanging mobiles &amp; posters</td>
</tr>
<tr>
<td>Ceiling Height: 9’-4”</td>
</tr>
<tr>
<td>Doors: Lockable door to Reception area and/or interior corridor. Doors should have an 8” X 36” vision panel or sidelight.</td>
</tr>
<tr>
<td>Windows: Exterior windows. Interior transaction window should provide for sound privacy.</td>
</tr>
</tbody>
</table>

HS14-D-3.5 Casework & Special Features:

General

1. Window blinds at all exterior windows.
2. Coat hook on back of door.

HS14-D-3.6 Furniture, Fixtures & Equip.:

Owner furnish & Contractor install:

2. Printer.

HS14-D-3.7 Instruct. Mat & Equipment:

HS14-D-3.8 Mechanical Criteria:
HS14-D-3.9 Electrical Criteria:

**Power:**
1. Two (2) duplex outlets on each wall.

**Lighting:**

**Data & Other:**
1. Two (2) 2-port data outlets on opposing walls.
2. Provide intercom hook-up for base unit, handset and speaker.

HS14-D-3.10 Technology Criteria:
E-3. Physical Requirements

HS14-E-3.1 Space(s):

**E. Student Information Data Manager (SIDM) Office.**

HS14-E-3.2 Use:

1. Recording, maintaining and accessing of student records.

HS14-E-3.3 Special Criteria:

1. Locate in the administrative area with as much privacy and security as possible.
2. Should not be directly accessible from the reception area.
3. Provide an enclosed sound proof area for 3 printers.

HS14-E-3.4 Finishes and Features:

<table>
<thead>
<tr>
<th>General Notes:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Floor:</td>
<td>Carpet</td>
</tr>
<tr>
<td>Floor Transitions:</td>
<td></td>
</tr>
<tr>
<td>Base:</td>
<td>Resilient top-set base</td>
</tr>
<tr>
<td>Walls:</td>
<td>Painted CMU / gypsum wallboard, acoustical insulation</td>
</tr>
<tr>
<td>Ceiling:</td>
<td></td>
</tr>
<tr>
<td>Ceiling Height:</td>
<td>9'-4&quot;</td>
</tr>
<tr>
<td>Doors:</td>
<td>Lockable doors. Door to corridor should have an 8” X 36” vision panel or sidelight.</td>
</tr>
<tr>
<td>Windows:</td>
<td>Exterior windows are preferred.</td>
</tr>
</tbody>
</table>

HS14-E-3.5 Casework & Special Features:

**General**

1. Window blinds at all exterior windows.
2. Coat hook on back of door.

HS14-E-3.6 Furniture, Fixtures & Equip.:

**Owner provide:**

1. Two (2) SIDM computer set-ups/Equipment.
2. One (1) Apple computer.
3. One (1) file server.
4. Two (2) Scanners.
5. Three (3) Printers.

HS14-E-3.7 Instruct. Mat & Equipment:

HS14-E-3.8 Mechanical Criteria:

1. Due to the number of heat producing machines located in this office, separate HVAC controls should be considered.
HS14-E-3.9 Electrical Criteria:

Power:
1. Two (2) duplex outlets on each wall.
2. Provide Uninterruptable Power Source (UPS) for this room.

Lighting:

Data & Other:
1. Three (3) 2-port data outlets on separate walls.
2. Provide intercom with handset.

HS14-E-3.10 Technology Criteria:
F-3. Physical Requirements

**HS14-F-3.1 Space(s):**

**F. Bookkeeping.**

**HS14-F-3.2 Use:**
1. Records of school funds, preparation of payroll and other bookkeeping functions.
2. Receives moneys.

**HS14-F-3.3 Special Criteria:**
1. Locate near the Principal’s office with as much privacy as possible. A small floor safe shall be provided.

**HS14-F-3.4 Finishes and Features:**

<table>
<thead>
<tr>
<th>General Notes:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Floor:</td>
<td>Carpet.</td>
</tr>
<tr>
<td>Floor Transitions:</td>
<td></td>
</tr>
<tr>
<td>Base:</td>
<td>Resilient top-set base</td>
</tr>
<tr>
<td>Walls:</td>
<td>Painted CMU / gypsum wallboard, acoustic insulation</td>
</tr>
<tr>
<td>Ceiling:</td>
<td>Acoustical ceiling panels</td>
</tr>
<tr>
<td>Ceiling Height:</td>
<td>9'-4&quot;</td>
</tr>
<tr>
<td>Doors:</td>
<td>To interior corridor. Door should have an 8” X 36” vision panel or sidelight.</td>
</tr>
<tr>
<td>Windows:</td>
<td>Exterior windows are preferred</td>
</tr>
</tbody>
</table>

**HS14-F-3.5 Casework & Special Features:**

**General**
1. Window blinds at all exterior windows.
2. Coat hook on back of door.

**HS14-F-3.6 Furniture, Fixtures & Equip.:**

**Owner provide:**

**HS14-F-3.7 Instruc. Mat & Equipment:**

**HS14-A-3.8 Mechanical Criteria:**
HS14-F-3.9  Electrical Criteria:

   Power:  1. Two (2) duplex outlets on each wall.

   Lighting:  

   Data & Other:  1. Two (2) 2-port data outlets on opposing walls.

HS14-F-3.10  Technology Criteria:
G-3. Physical Requirements

HS14-G-3.1 Space(s):

G. Attendance Office.

HS14-G-3.2 Use:

1. Computes, maintains and stores of daily attendance records.
2. Sign in location for tardy students.

HS14-G-3.3 Special Criteria:

1. Locate near Student Support Services.
2. Enter from main corridor, with direct access to interior corridor also. Locate near Reception also.

HS14-G-3.4 Finishes and Features:

<table>
<thead>
<tr>
<th>General Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Floor: Carpet</td>
</tr>
<tr>
<td>Floor Transitions:</td>
</tr>
<tr>
<td>Base: Resilient top-set base</td>
</tr>
<tr>
<td>Walls: Painted CMU / gypsum wallboard</td>
</tr>
<tr>
<td>Ceiling: Acoustical ceiling panels</td>
</tr>
<tr>
<td>Ceiling Height: 9'-4&quot;</td>
</tr>
<tr>
<td>Doors: Lockable door or operable transaction window to main corridor or vestibule. Door to interior corridor should have a small vision panel or sidelight.</td>
</tr>
<tr>
<td>Windows: Provide view window into Reception area</td>
</tr>
</tbody>
</table>

HS14-G-3.5 Casework & Special Features:

<table>
<thead>
<tr>
<th>General</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Window blinds at all exterior windows.</td>
</tr>
<tr>
<td>2. Coat hook on back of door.</td>
</tr>
<tr>
<td>3. Locate transaction counter near front door, but not immediately inside. Counter shall be wide enough to accommodate two students simultaneously. Provide small counter on both sides of wall at 34&quot; AFF (ADA-compliant). Provide telephone at counter for student use.</td>
</tr>
</tbody>
</table>

HS14-G-3.6 Furniture, Fixtures & Equip.:

<table>
<thead>
<tr>
<th>Owner provide:</th>
</tr>
</thead>
</table>

HS14-G-3.7 Instruc. Mat & Equipment:

HS14-G-3.8 Mechanical Criteria:
HS14-G-3.9  Electrical Criteria:

**Power:**
1. Two (2) duplex outlets on each wall.

**Lighting:**

**Data & Other:**
1. One (1) 2-port data outlet.
2. Provide two (2) telephone outlets.
3. Provide intercom connection for base unit, handset and speaker.

HS14-G-3.10  Technology Criteria:
H-3. Physical Requirements

HS14-H-3.1 Space(s):

H. Conference Room.

HS14-H-3.2 Use:

1. Private staff, student, administrative and parent conferences.

HS14-H-3.3 Special Criteria:

1. Requires visual and acoustical privacy.
2. One Conference Room should be located in the administration suite adjoining Principal's office and as close to reception area as possible, the other should be located adjacent to the satellite office of the Assistant Principal in charge of Curriculum and Instruction.
3. Room should be rectangular in plan to accommodate a 4’ X 10’ conference table.

HS14-H-3.4 Finishes and Features:

<table>
<thead>
<tr>
<th>General Notes:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Floor:</td>
<td>Carpet</td>
</tr>
<tr>
<td>Floor Transitions:</td>
<td></td>
</tr>
<tr>
<td>Base:</td>
<td>Resilient top-set base</td>
</tr>
<tr>
<td>Walls:</td>
<td>Painted CMU / gypsum wallboard, acoustical insulation</td>
</tr>
<tr>
<td>Ceiling:</td>
<td>Acoustical ceiling panels</td>
</tr>
<tr>
<td>Ceiling Height:</td>
<td>9’-4”</td>
</tr>
<tr>
<td>Doors:</td>
<td>Lockable doors to Principal’s office and interior corridor or Reception area and to satellite office of Assistant Principal in charge of curriculum. Door to corridor should have a small vision panel or sidelight.</td>
</tr>
<tr>
<td>Windows:</td>
<td>Exterior windows</td>
</tr>
</tbody>
</table>

HS14-H-3.5 Casework & Special Features:

General

1. Window blinds at all exterior windows.
2. Coat hook on back of door.
3. One (1) 4’-0” X 8’-0” white marker board.

HS14-H-3.6 Furniture, Fixtures & Equip.:

Owner provide:

2. Printer.
3. Flat-screen monitor.

HS14-H-3.7 Instruc. Mat & Equipment:

HS14-H-3.8 Mechanical Criteria:
HS14-H-3.9  Electrical Criteria:

Power:  1. Two (2) duplex outlets on each wall.

Lighting:  

Data & Other:  1. Wall-mounted bracket for 40” monitor.
2. Two (2) 2-port data outlets on opposing walls.

HS14-H-3.10  Technology Criteria:
I-3. Physical Requirements

HS14-I-3.1 Space(s):

I. Locked Storage.

HS14-I-3.2 Use:

1. Storage of items that need to be secured.

HS14-I-3.3 Special Criteria:

1. Locate in Administration suite in an area not readily accessible to students.

HS14-I-3.4 Finishes and Features:

<table>
<thead>
<tr>
<th>General Notes:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
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<tr>
<td>Ceiling:</td>
<td></td>
</tr>
<tr>
<td>Ceiling Height:</td>
<td>9'-4&quot;</td>
</tr>
<tr>
<td>Doors:</td>
<td>Provide solid door with keyed lock.</td>
</tr>
<tr>
<td>Windows:</td>
<td></td>
</tr>
</tbody>
</table>

HS14-I-3.5 Casework & Special Features:

General

1. 12"-15" deep adjustable shelving.

HS14-I-3.6 Furniture, Fixtures & Equip.:

HS14-I-3.7 Instruc. Mat & Equipment:

HS14-I-3.8 Mechanical Criteria:

HS14-I-3.9 Electrical Criteria:

Power:

Lighting:

Data & Other:

HS14-I-3.10 Technology Criteria:
J-3. Physical Requirements

HS14-J-3.1 Space(s):

J. Work Room / Mail / Copy / Storage.

HS14-J-3.2 Use:

1. Duplicating, collating, laminating, mail and document distribution.
2. An area for office staff to have coffee, lunch and snacks.

HS14-J-3.3 Special Criteria:

1. Accessible from receptionist and secretary work areas and should have direct access from work room to copy room.
2. A 100 sf Copy room, with shelving and storage cabinets, should be adjacent to the work room for duplicating large quantities of material.
3. Provide 200 pass-through mailboxes as a dividing wall between mail pick-up area and work area. Provide a name slot for each side of each mailbox.
4. Accessible to Loading Dock.

HS14-J-3.4 Finishes and Features:

<table>
<thead>
<tr>
<th>General Notes:</th>
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</thead>
<tbody>
<tr>
<td>Floor:</td>
<td>VCT</td>
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<tr>
<td>Floor Transitions:</td>
<td></td>
</tr>
<tr>
<td>Base:</td>
<td>Resilient top-set base</td>
</tr>
<tr>
<td>Walls:</td>
<td>Painted CMU / gypsum wallboard w/ acoustical insulation</td>
</tr>
<tr>
<td>Ceiling:</td>
<td></td>
</tr>
<tr>
<td>Ceiling Height:</td>
<td>9'-4&quot;</td>
</tr>
<tr>
<td>Doors:</td>
<td>To interior corridor and copy room. Doors should have an 8&quot; X 36&quot; vision panel or sidelight.</td>
</tr>
<tr>
<td>Windows:</td>
<td></td>
</tr>
</tbody>
</table>

HS14-J-3.5 Casework & Special Features:

Workroom:
1. Coat hook on back of door.
2. Paper towel and soap dispensers.
3. 24"d work counter on two walls with open shelving above and cabinets with a combination of shelves and drawers below.
4. A combination of open adjustable shelving and lockable wall cabinets above counter area.
5. Counter 23"h with open adjustable pass-through shelving below and 200 Pass-through teacher mail boxes above. Provide name plates above each 4" x 9" x 12" box. Build to be accessible without entering work area.
HS14-J-3.6 Furniture, Fixtures & Equip.: 

Contractor provide in Workroom: 1. 21 CF refrigerator with ice maker.

Owner provide: 1. Computer.
2. Microwave oven.
3. Copy machine with collating capabilities.
4. Duplicator.

HS14-J-3.7 Instruc. Mat & Equipment:

HS14-J-3.8 Mechanical Criteria:
1. Provide sink with hot & cold water.
2. Make provisions for adequate ventilation to accommodate heat build-up from equipment.
3. Provide hook-up for ice maker.

HS14-J-3.9 Electrical Criteria:

Power: 1. Duplex outlets at 4'-0" intervals on all walls.
2. Provide power to coordinate with equipment requirements.
3. Provide 220 volt outlet for copier, if required.

Lighting:

Data & Other: 1. Two (2) 2-port data outlets on opposing walls.

HS14-J-3.10 Technology Criteria:
K-3. Physical Requirements

HS14-K-3.1 Space(s):

K. Toilets.

HS14-K-3.2 Use:

1. Toilet facility for use by administrative staff and their visitors.

HS14-K-3.3 Special Criteria:

1. Easily accessible to administrative personnel.
2. Near Principal’s Office.

HS14-K-3.4 Finishes and Features:

<table>
<thead>
<tr>
<th>General Notes:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Floor: VCT</td>
</tr>
<tr>
<td>Floor Transitions:</td>
</tr>
<tr>
<td>Base: Resilient top-set base</td>
</tr>
<tr>
<td>Walls: Painted CMU / gypsum wallboard w/ acoustical insulation</td>
</tr>
<tr>
<td>Ceiling: Acoustical ceiling panels</td>
</tr>
<tr>
<td>Ceiling Height: 9'-4&quot;</td>
</tr>
<tr>
<td>Doors: To interior corridor. Provide privacy lock.</td>
</tr>
<tr>
<td>Windows:</td>
</tr>
</tbody>
</table>

HS14-K-3.5 Casework & Special Features:

General
1. Coat hook on back of door.
2. One (1) small wall cabinet for storage of personal items.
3. Mirror above sink.
4. Sanitary napkin disposal.
5. Toilet paper dispenser (including handicapped accessible), paper towel dispenser, soap dispenser.

HS14-K-3.6 Furniture, Fixtures & Equip.:

HS14-K-3.7 Instruc. Mat & Equipment:

HS14-K-3.8 Mechanical Criteria:

1. Provide sink with hot and cold water.
2. Toilet.
HS14-K-3.9  Electrical Criteria:

Power: 1. One (1) GFI duplex outlet near sink.

Lighting: 

Data & Other: 

HS14-K-3.10  Technology Criteria:
La-3. Physical Requirements

HS14-La-3.1 Space(s):

La. Bus Supervisor / Secretary Office.

HS14-La-3.2 Use:

1. Administration and scheduling busses in district, conferences with bus drivers.

HS14-La-3.3 Special Criteria:

1. Locate near bus entrance to building rather than in the Administrative Suite.
2. Bus Supervisor entry through the secretary's office, which requires direct access to the corridor near the bus parking lot entrance.
3. Locate in close proximity to group toilets within building.

HS14-La-3.4 Finishes and Features:

<table>
<thead>
<tr>
<th>General Notes:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Floor: Carpet</td>
</tr>
<tr>
<td>Floor Transitions:</td>
</tr>
<tr>
<td>Base: Resilient top-set base</td>
</tr>
<tr>
<td>Walls: Painted CMU / gypsum wallboard</td>
</tr>
<tr>
<td>Ceiling: Acoustical ceiling panels</td>
</tr>
<tr>
<td>Ceiling Height: 9'-4&quot;</td>
</tr>
<tr>
<td>Doors: Doors to transportation suite open office area. Doors should have an 8&quot; X 36&quot; view light or sidelight.</td>
</tr>
<tr>
<td>Windows: Windows to exterior required.</td>
</tr>
</tbody>
</table>

HS14-La-3.5 Casework & Special Features:

General: 1. Window blinds at all exterior windows.

HS14-La-3.6 Furniture, Fixtures & Equip.:

Owner's Transportation Director provide:

2. Copy machine with collating capabilities.

HS14-La-3.7 Instruc. Mat & Equipment:

HS14-La-3.8 Mechanical Criteria:

1. HVAC system for suite must be independent from remainder of school.
HS14-La-3.9 Electrical Criteria:

Power: 1. Provide two (2) duplex outlets per wall.

Lighting:  

Data & Other: 1. Provide two (2) direct telephone lines per office.  
2. Provide two (2) 2-port data outlets per office.

HS14-La-3.10 Technology Criteria:
Lb-3. Physical Requirements

HS14-Lb-3.1  Space(s):

**Lb. General Office.**

HS14-Lb-3.2  Use:

1. Space for 4 staff cubicles for scheduling buses in district.

HS14-Lb-3.3  Special Criteria:

1. Provide direct access to exterior near bus parking area.

HS14-Lb-3.4  Finishes and Features:

<table>
<thead>
<tr>
<th>General Notes:</th>
<th>Carpet</th>
</tr>
</thead>
<tbody>
<tr>
<td>Floor:</td>
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</tr>
<tr>
<td>Ceiling:</td>
<td>Acoustical ceiling panels</td>
</tr>
<tr>
<td>Ceiling Height:</td>
<td>9'-4&quot;</td>
</tr>
<tr>
<td>Doors:</td>
<td>Doors to corridor and exterior door. Doors should have an 8” X 36” view light or sidelight.</td>
</tr>
<tr>
<td>Windows:</td>
<td>Exterior windows required.</td>
</tr>
</tbody>
</table>

HS14-Lb-3.5  Casework & Special Features:

**General:**

1. Window blinds at all exterior windows.
2. One (1) synchronized wall clock with batteries.
3. 60 mailboxes, each 6” H x 11” W x 12” D clear.

HS14-Lb-3.6  Furniture, Fixtures & Equip.:  

**Owner provide:**

1. Four (4) cubicle workstations.

HS14-Lb-3.7  Instruc. Mat & Equipment:

HS14-Lb-3.8  Mechanical Criteria:

HS14-Lb-3.9  Electrical Criteria:

**Power:**

1. Provide power to workstation cubicles.

**Lighting:**

**Data & Other:**

1. One (1) 2-port data outlet per workstation (4 total minimum).
2. Provide four (4) direct telephone lines.
HS14-Lb-3.10 Technology Criteria:
Lc-3. Physical Requirements

HS14-Lc-3.1 Space(s):  

Lc. Toilet.

HS14-Lc-3.2 Use:  

1. Toilet facility for use by transportation staff and drivers.

HS14-Lc-3.3 Special Criteria:  

1. Easily accessible to transportation personnel.

HS14-Lc-3.4 Finishes and Features:

<table>
<thead>
<tr>
<th>General Notes:</th>
<th>VCT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Floor:</td>
<td>VCT</td>
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<tr>
<td>Floor Transitions:</td>
<td>Resilient top-set base</td>
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<tr>
<td>Base:</td>
<td>Painted CMU / gypsum wallboard w/ acoustical insulation</td>
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<tr>
<td>Walls:</td>
<td>Acoustical ceiling panels</td>
</tr>
<tr>
<td>Ceiling:</td>
<td>9'-4&quot;</td>
</tr>
<tr>
<td>Ceiling Height:</td>
<td>9'-4&quot;</td>
</tr>
<tr>
<td>Doors:</td>
<td>To interior corridor. Provide privacy lock.</td>
</tr>
<tr>
<td>Windows:</td>
<td></td>
</tr>
</tbody>
</table>

HS14-Lc-3.5 Casework & Special Features:

<table>
<thead>
<tr>
<th>General</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Coat hook on back of door.</td>
</tr>
<tr>
<td>2. Mirror above sink.</td>
</tr>
<tr>
<td>4. Toilet paper dispenser (including handheld accessible), paper towel dispenser, soap dispenser.</td>
</tr>
</tbody>
</table>

HS14-Lc-3.6 Furniture, Fixtures & Equip.:  

HS14-Lc-3.7 Instruc. Mat & Equipment:  

HS14-Lc-3.8 Mechanical Criteria:  

1. Provide sink with hot and cold water.  
2. Toilet.
HS14-Lc-3.9  Electrical Criteria:

   Power:  1. One (1) GFI duplex outlet near sink.

   Lighting:

   Data & Other:

HS14-Lc-3.10  Technology Criteria:
M-3. Physical Requirements

HS14-M-3.1 Space(s):

M. Book Material Storage Room.

HS14-M-3.2 Use:

1. Storage of teaching supplies and equipment.
2. May house intercom control unit.

HS14-M-3.3 Special Criteria:

1. Material storage room should be easily accessible to administrative areas.
2. Rectangular shaped room preferred.
3. Locate near Loading Dock (Child Nutrition).

HS14-M-3.4 Finishes and Features:

<table>
<thead>
<tr>
<th>General Notes:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Floor:</td>
</tr>
<tr>
<td>Floor Transitions:</td>
</tr>
<tr>
<td>Base:</td>
</tr>
<tr>
<td>Walls:</td>
</tr>
<tr>
<td>Ceiling:</td>
</tr>
<tr>
<td>Ceiling Height:</td>
</tr>
<tr>
<td>Doors:</td>
</tr>
<tr>
<td>Windows:</td>
</tr>
</tbody>
</table>

HS14-M-3.5 Casework & Special Features:

1. Window blinds at all exterior windows.
2. Open adjustable shelving installed to ceiling height on three walls and in center of room 12”d, 18”d and 24”d.

HS14-M-3.6 Furniture, Fixtures & Equip.:  

HS14-M-3.7 Instruc. Mat & Equipment:

HS14-M-3.8 Mechanical Criteria:
HS14-M-3.9  Electrical Criteria:

Power: 1. Two (2) duplex outlets per wall.

Lighting:

Data & Other: 1. Two (2) 2-port data outlets on opposing walls.
2. If intercom control unit is located in this space coordinate with electrical requirements.

HS14-M-3.10  Technology Criteria:
N-3. Physical Requirements

HS14-N-3.1 Space(s):

N. Cooperative Education Room.

HS14-N-3.2 Use:

1. Small group work areas for co-op students and employers.

HS14-N-3.3 Special Criteria:

1. Locate between one Business Computer Lab and Marketing Lab.
2. Direct access from corridor as well as to one lab from each smaller area.

HS14-N-3.4 Finishes and Features:

<table>
<thead>
<tr>
<th>General Notes:</th>
<th>Carpet generally, with VCT at sink area</th>
</tr>
</thead>
<tbody>
<tr>
<td>Floor:</td>
<td></td>
</tr>
<tr>
<td>Floor Transitions:</td>
<td></td>
</tr>
<tr>
<td>Base:</td>
<td>Resilient top-set base</td>
</tr>
<tr>
<td>Walls:</td>
<td>Painted CMU</td>
</tr>
<tr>
<td>Ceiling:</td>
<td>Acoustical ceiling panels</td>
</tr>
<tr>
<td>Ceiling Height:</td>
<td>9'-4&quot;</td>
</tr>
<tr>
<td>Doors:</td>
<td>To corridor and each lab</td>
</tr>
<tr>
<td>Windows:</td>
<td></td>
</tr>
</tbody>
</table>

HS14-N-3.5 Casework & Special Features:

General

1. Window blinds at all exterior windows.
2. Two (2) marker boards, 4'-0" x 4'-0", one per room.
3. Two (2) tackboards, 4'-0" x 4'-0", one per room.

HS14-N-3.6 Furniture, Fixtures & Equip.:

HS14-N-3.7 Instruc. Mat & Equipment:

HS14-N-3.8 Mechanical Criteria:

HS14-N-3.9 Electrical Criteria:

Power: 1. One (1) duplex outlets per wall.

Lighting:

Data & Other: 1. Provide two 2-port data outlets, one in each half of space.

HS14-N-3.10 Technology Criteria:
O-3. Physical Requirements

HS14-O-3.1 Space(s):

O. In School Suspension (ISS) Classroom, Office, Toilet.

HS14-O-3.2 Use:

1. Classroom space for students who misbehave in their regular classes. Classes will vary in size as well as in the age and academic level of the students. Students will, most often, work alone with occasional small group work.

HS14-O-3.3 Special Criteria:

1. Locate as close to Administrative Area, and as distant from quiet academic areas, as possible.
2. A 70 SF office with a window for complete visual access to classroom, should be provided for private individual counseling.
3. Office and toilet facility should be accessed directly through classroom.

HS14-O-3.4 Finishes and Features:

<table>
<thead>
<tr>
<th>General Notes:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Floor: Carpet in classroom and office</td>
</tr>
<tr>
<td>Floor Transitions:</td>
</tr>
<tr>
<td>Base: Resilient top-set base</td>
</tr>
<tr>
<td>Walls: Painted CMU / gypsum wallboard (soundproof)</td>
</tr>
<tr>
<td>Ceiling: Acoustical ceiling panels</td>
</tr>
<tr>
<td>Ceiling Height: 10'-0&quot;</td>
</tr>
<tr>
<td>Doors: Doors to toilet, office and corridor</td>
</tr>
<tr>
<td>Windows: Operable, soundproof, lockable interior transaction window to reception; locate sill at 36&quot; A.F.F.</td>
</tr>
</tbody>
</table>

HS14-O-3.5 Casework & Special Features:

General
1. Window blinds at all exterior windows.
2. One (1) synchronized wall-hung clock with batteries.

CR Primary Wall:
1. Refer to HS-1 Appendix 1 for typical teaching wall requirements.

CR Secondary Wall:
1. 4'-0" x 4'-0" tackboard on secondary wall (near door to corridor).

CR Casework:
1. One (1) Locking 48"W x 24"D X 84"H teacher cabinet.
2. Bookshelves - 12"-15"D x 315'-0"W x (varies) H with adjustable shelves (width and height subject to window dimensions).
HS14-O-3.6  Furniture, Fixtures & Equip.:  
(Provided by Owner’s Furniture & Equipment Specialist, see room data sheets).

HS14-O-3.7  Instruc. Mat & Equipment:  
(Provided by Owner’s Inst. Mat. & Equip. Specialist, including presentation tech., classroom computers, tablets, printers, TV brackets etc.)

HS14-O-3.8  Mechanical Criteria:
1. Provide lavatory with hot & cold water in toilet room.
2. Provide adult size barrier free toilet.
3. Provide a drinking fountain in classroom.

HS14-O-3.9  Electrical Criteria:

Power:
1. See HS-1 Appendix 1 for typical teaching wall requirements.
2. Provide duplex outlets at intervals of 4'-0" along walls.

Lighting:

Data & Other:
1. Locate intercom handset near door to corridor.
2. See HS-1 Appendix 1 for typical teaching wall requirements.
3. Provide a data outlet on each of the three remaining walls.
4. Provide data outlet above ceiling for Owner-provided wireless access point.
5. Provide outside telephone line for teacher in the Office.
6. Provide a 2-port data outlet in the Office.

HS14-O-3.10  Technology Criteria:
1. General Educational Requirements

**HS15-1.1 Objectives**

1. The High School Student Support Services Program is designed to help students achieve success in the curriculum and make plans for a successful transition from school to career and/or post secondary education. Individual and small group guidance is given students as they plan their high school and post secondary careers. Counselors help the students move from dependence on adults for these planning decisions to independence in choosing and selecting life plans.

2. The program has two components: Educational and career guidance provided by school based guidance counselors. Support services to student and their families provided by school personnel and school based Human Service professionals.

3. Identify at-risk students and provide educational and personal social support.

**HS15-1.2 Trends**

1. Increased involvement of all family members and the community in each child's development.
2. Increased recognition of the need to treat each student as an individual.
3. The integration of other community resources into the school.
4. A holistic approach to wellness.
6. Increased consultation and referrals.
7. Computer based interactive programs for individuals and small groups.
8. Moving towards case management focus in working with students.

**HS15-1.3 Activities and Enrollment**

1. State-of-the-art career centers for students and parents.
2. Counselors provide services such as curriculum development, direct instruction, group counseling, career education, individual counseling, and parent/family consultation. Specialized services are provided for students with identified needs (at-risk, gifted, etc.).

3. School Support Services personnel include speech therapists, audiologists, psychologists, social workers, visually and hearing impaired specialists, occupational therapist and physical therapists. They work individually with identified students testing, making assessments and providing therapy.

4. Human Services professionals based in schools include doctors, nurses, and social workers. As students with needs are identified preliminary assessments and referrals are made. Counseling and consultation are provided to students and their families.
2. Space Overview

HS15-2.1 Required Spaces

Reference:

<table>
<thead>
<tr>
<th>Identifier</th>
<th>Space</th>
<th>Quantity</th>
<th>Area Each (SF)</th>
<th>Area Total (SF)</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>Receptionist / Secretary</td>
<td>1</td>
<td>400</td>
<td>400</td>
</tr>
<tr>
<td>B</td>
<td>Secretary Office</td>
<td>1</td>
<td>150</td>
<td>150</td>
</tr>
<tr>
<td>C</td>
<td>Counselor Office</td>
<td>6</td>
<td>120</td>
<td>720</td>
</tr>
<tr>
<td>D</td>
<td>Conference Room</td>
<td>1</td>
<td>250</td>
<td>250</td>
</tr>
<tr>
<td>E</td>
<td>Coat Closet</td>
<td>1</td>
<td>10</td>
<td>10</td>
</tr>
<tr>
<td>F</td>
<td>Intervention Coordinator / AIG Office</td>
<td>1</td>
<td>120</td>
<td>120</td>
</tr>
<tr>
<td>G</td>
<td>Human Services / Nurse Office</td>
<td>1</td>
<td>120</td>
<td>120</td>
</tr>
<tr>
<td>H</td>
<td>Health Examination Room / Toilets</td>
<td>2</td>
<td>176</td>
<td>352</td>
</tr>
<tr>
<td>I</td>
<td>Toilets</td>
<td>2</td>
<td>56</td>
<td>112</td>
</tr>
<tr>
<td>J</td>
<td>Psychologist / Social Worker Office</td>
<td>1</td>
<td>120</td>
<td>120</td>
</tr>
<tr>
<td>K</td>
<td>Speech Therapy / Audiology Room</td>
<td>1</td>
<td>120</td>
<td>120</td>
</tr>
<tr>
<td>L</td>
<td>OT / PT Room</td>
<td>1</td>
<td>160</td>
<td>160</td>
</tr>
<tr>
<td>M</td>
<td>Technician's Office</td>
<td>1</td>
<td>120</td>
<td>120</td>
</tr>
<tr>
<td>N</td>
<td>Industry Education Coord./Conference</td>
<td>1</td>
<td>120</td>
<td>120</td>
</tr>
<tr>
<td>O</td>
<td>Records Room</td>
<td>1</td>
<td>300</td>
<td>300</td>
</tr>
<tr>
<td>P</td>
<td>Student Assistance Program Office</td>
<td>1</td>
<td>170</td>
<td>170</td>
</tr>
<tr>
<td>Q</td>
<td>Student Lockers</td>
<td>1</td>
<td>6,240</td>
<td>6,240</td>
</tr>
</tbody>
</table>

Total: 24 9,584

HS15-2.2 Design Considerations

1. Student Support Services should be near a main entrance and adjacent to but visually separate from Administrative suite. Proximity to the Media Center is desirable. It should also be easily accessible to students and their families, and identified with a display area on corridor wall.

2. It is important that Student Support Services is not perceived as being part of Administration.

3. Should be in high traffic area.

4. Finishes should be carefully selected to help create a warm, friendly atmosphere.

5. Provide sound treatment for acoustical privacy between spaces.
2. Space Overview (continued)

HS15-2.3 Adjacency Diagram:

- Psych/ Soc.
- Counselor Offices (6)
- Human Svc/ Nurse
- Interv. Coord. / AIG Office
- Conference
- Secretary
- SAP Office
- Toilets (2)
- Reception
- OT/PT
- Speech/ Audio
- Health Exam Room/ Toilet
- Health Exam Room/ Toilet
- Main Corridor
- To Corridor
- Technician
- Media Center
- Locker Commons
- I.E. Coord. Office
- Records
- Coat Closet
- Nearby: Technician
- Locker Commons in separate areas throughout school
A-3. Physical Requirements

HS15-A-3.1 Space(s):

**A. Receptionist / Secretary.**

HS15-A-3.2 Use:

1. Area for receptionist/administrator to greet visitor, answer phone, and make appointments.

HS15-A-3.3 Special Criteria:

1. Locate for easy access by parents and students from a main corridor.
2. Conference, counselors’ offices and other Student Support Services spaces should be accessible from reception. Career Center in Media Center should be nearby.
3. Space for six visitors to sit while waiting to meet with staff.

HS15-A-3.4 Finishes and Features:

<table>
<thead>
<tr>
<th>General Notes:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Floor:</td>
<td>Carpet</td>
</tr>
<tr>
<td>Floor Transitions:</td>
<td></td>
</tr>
<tr>
<td>Base:</td>
<td>Resilient top-set base</td>
</tr>
<tr>
<td>Walls:</td>
<td>Painted CMU / gypsum wallboard. Warm and inviting colors.</td>
</tr>
<tr>
<td>Ceiling:</td>
<td>Acoustical ceiling panels</td>
</tr>
<tr>
<td>Ceiling Height:</td>
<td></td>
</tr>
<tr>
<td>Doors:</td>
<td>Provide door with full vision panel</td>
</tr>
<tr>
<td>Windows:</td>
<td>Provide windows if possible</td>
</tr>
</tbody>
</table>

HS15-A-3.5 Casework & Special Features:

**General**

1. Window blinds at all exterior windows.
2. Tackboard 4’-0” x 4’-0”.
3. 4’-0” x 4’-0” Marker board.

HS15-A-3.6 Furniture, Fixtures & Equip.:

HS15-A-3.7 Instruc. Mat & Equipment:

HS15-A-3.8 Mechanical Criteria:
HS15-A-3.9  Electrical Criteria:

   Power: 1. Coordinated with reception desk location.

   Lighting: 

   Data & Other: 1. One (1) 2-port data outlet at reception desk.
                  2. One (1) 2-port data outlet at wall behind reception desk.

HS15-A-3.10  Technology Criteria:
B-3. Physical Requirements

HS15-B-3.1 Space(s):

B. Secretary Office.

HS15-B-3.2 Use:

1. Support for Student Support Services staff.
2. Preparation of correspondence, reports and other administrative tasks.

HS15-B-3.3 Special Criteria:

1. Preparation of correspondence, reports and other administrative tasks.
2. Locate adjacent to Reception area with a lockable, insulated, operable window between them. Window sill height and width must comply with ADA requirements.

HS15-B-3.4 Finishes and Features:

<table>
<thead>
<tr>
<th>General Notes:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Floor:</td>
<td>Carpet</td>
</tr>
<tr>
<td>Floor Transitions:</td>
<td></td>
</tr>
<tr>
<td>Base:</td>
<td>Resilient top-set base</td>
</tr>
<tr>
<td>Walls:</td>
<td>Painted CMU / gypsum wallboard</td>
</tr>
<tr>
<td>Ceiling:</td>
<td>Acoustical ceiling panels, accommodate hanging mobiles &amp; posters</td>
</tr>
<tr>
<td>Ceiling Height:</td>
<td>9'-4&quot;</td>
</tr>
<tr>
<td>Doors:</td>
<td>Lockable door to Reception area and/or interior corridor. Doors should have a small vision panel or sidelight.</td>
</tr>
<tr>
<td>Windows:</td>
<td>Exterior windows. Interior window should provide for sound privacy.</td>
</tr>
</tbody>
</table>

HS15-B-3.5 Casework & Special Features:

General

1. Window blinds at all exterior windows.
2. Coat hook on back of door.

HS15-B-3.6 Furniture, Fixtures & Equip.:

Owner provide:

2. Printer.

HS15-B-3.7 Instruc. Mat & Equipment:

HS15-B-3.8 Mechanical Criteria:
HS15-B-3.9  Electrical Criteria:

Power:  1. Two (2) duplex outlets on each wall.

Lighting:

Data & Other:  1. Two (2) 2-port data outlets on opposing walls.
2. Provide intercom hook-up for base unit, handset and speaker.

HS15-B-3.10  Technology Criteria:
C-3. Physical Requirements

HS15-C-3.1  Space(s):

C. Counselor Office.

HS15-C-3.2  Use:

1. Counselors will use offices as workstations and for meetings with students, parents and teachers.

HS15-C-3.3  Special Criteria:

1. Offices should be accessible from reception and in close proximity to other Student Support Services offices.
2. Design for maximum flexibility in furniture and equipment placement.

HS15-C-3.4  Finishes and Features:

<table>
<thead>
<tr>
<th>General Notes:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Floor:</td>
<td>Carpet</td>
</tr>
<tr>
<td>Floor Transitions:</td>
<td></td>
</tr>
<tr>
<td>Base:</td>
<td>Resilient top-set base</td>
</tr>
<tr>
<td>Walls:</td>
<td>Painted CMU / gypsum wallboard</td>
</tr>
<tr>
<td>Ceiling:</td>
<td>Acoustical ceiling panels</td>
</tr>
<tr>
<td>Ceiling Height:</td>
<td>9'-4&quot;</td>
</tr>
<tr>
<td>Doors:</td>
<td>Provide door with small vision panel or sidelight.</td>
</tr>
<tr>
<td>Windows:</td>
<td></td>
</tr>
</tbody>
</table>

HS15-C-3.5  Casework & Special Features:

General
1. Window blinds at all exterior windows.
2. Tackboard - 2'-0" x 3'-0".
3. Coat hook on back of door.

HS15-C-3.6  Furniture, Fixtures & Equip.:

HS15-A-3.7  Instruc. Mat & Equipment:

HS15-C-3.8  Mechanical Criteria:
HS15-C-3.9  Electrical Criteria:

Power:  1. Two (2) duplex outlets on 2 opposing walls, and one (1) duplex outlet on each remaining wall.

Lighting:  

Data & Other:  1. Provide intercom with ability to turn off sound.
2. Provide two (2) 2-port data outlets on two opposing walls (coordinate with power locations).

HS15-C-3.10  Technology Criteria:
D.3. Physical Requirements

HS15-D-3.1 Space(s):

D. Conference Room.

HS15-D-3.2 Use:

1. Space for small group meetings, conferences. May also be used as testing area.

HS15-D-3.3 Special Criteria:

1. Easily accessible to Counselors.

HS15-D-3.4 Finishes and Features:

<table>
<thead>
<tr>
<th>General Notes:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Floor: Carpet</td>
</tr>
<tr>
<td>Floor Transitions:</td>
</tr>
<tr>
<td>Base: Resilient top-set base</td>
</tr>
<tr>
<td>Walls: Painted CMU / gypsum wallboard, with acoustical insulation</td>
</tr>
<tr>
<td>Ceiling: Acoustical ceiling panels</td>
</tr>
<tr>
<td>Ceiling Height: 9'-4&quot;</td>
</tr>
<tr>
<td>Doors: Provide door with small vision panel or sidelight</td>
</tr>
<tr>
<td>Windows: Exterior windows preferred</td>
</tr>
</tbody>
</table>

HS15-D-3.5 Casework & Special Features:

General
1. Window blinds at all exterior windows.
2. Tackboard 4'-0" x 4'-0".
3. Marker Board 4'-0" x 4'-0".

HS15-D-3.6 Furniture, Fixtures & Equip.:

Owner provide:
2. Portable TV.

HS15-D-3.7 Instruc. Mat & Equipment:

HS15-D-3.8 Mechanical Criteria:
HS15-D.9  Electrical Criteria:

**Power:**
1. Two (2) duplex outlets on 2 opposing walls, and one (1) duplex outlet on each remaining wall.

**Lighting:**

**Data & Other:**
1. Provide intercom, with ability to turn off sound.
2. Two (2) 2-port data outlets each on two opposing walls (four outlets total). Coordinate with power outlet locations.

HS15-D.10  Technology Criteria:
E-3. Physical Requirements

HS15-E-3.1 Space(s):

E. Coat Closet.

HS15-E-3.2 Use:

1. Storage of coats and other items.

HS15-E-3.3 Special Criteria:

HS15-E-3.4 Finishes and Features:

<table>
<thead>
<tr>
<th>General Notes:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Floor: Carpet</td>
</tr>
<tr>
<td>Floor Transitions:</td>
</tr>
<tr>
<td>Base: Resilient top-set base</td>
</tr>
<tr>
<td>Walls: Painted CMU / gypsum wallboard</td>
</tr>
<tr>
<td>Ceiling: Acoustical ceiling panels</td>
</tr>
<tr>
<td>Ceiling Height: 9'-4&quot;</td>
</tr>
<tr>
<td>Doors: Solid</td>
</tr>
<tr>
<td>Windows:</td>
</tr>
</tbody>
</table>

HS15-E-3.5 Casework & Special Features:

General 1. Coat rod with shelf above.

HS15-E-3.6 Furniture, Fixtures & Equip.:

HS15-E-3.7 Instruc. Mat & Equipment:

HS15-E-3.8 Mechanical Criteria:

HS15-E-3.9 Electrical Criteria:

Power:

Lighting:

Data & Other:

HS15-E-3.10 Technology Criteria:
F-3. Physical Requirements

**HS15-F-3.1 Space(s):**

**F. Intervention Coordinator / AIG (Academically or Intellectually Gifted) Office.**

**HS15-F-3.2 Use:**

1. Staff will meet with students in need of academic special help, and their parents.

**HS15-F-3.3 Special Criteria:**

**HS15-F-3.4 Finishes and Features:**

<table>
<thead>
<tr>
<th>General Notes:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Floor:</td>
<td>Carpet</td>
</tr>
<tr>
<td>Floor Transitions:</td>
<td></td>
</tr>
<tr>
<td>Base:</td>
<td>Resilient top-set base</td>
</tr>
<tr>
<td>Walls:</td>
<td>Painted CMU / gypsum wallboard</td>
</tr>
<tr>
<td>Ceiling:</td>
<td>Acoustical ceiling panels</td>
</tr>
<tr>
<td>Ceiling Height:</td>
<td>9'-4&quot;</td>
</tr>
<tr>
<td>Doors:</td>
<td>Provide door with small vision panel or sidelight</td>
</tr>
<tr>
<td>Windows:</td>
<td>Exterior windows preferred</td>
</tr>
</tbody>
</table>

**HS15-F-3.5 Casework & Special Features:**

**General**

1. Window blinds at all exterior windows.
2. Tackboard - 2'-0" x 3'-0".

**HS15-F-3.6 Furniture, Fixtures & Equip.:**

**Owner provide:**


**HS15-F-3.7 Instruc. Mat & Equipment:**

**HS15-F-3.8 Mechanical Criteria:**

**HS15-F-3.9 Electrical Criteria:**

**Power:**

1. Two (2) duplex outlets on 2 opposing walls, and one (1) duplex outlet on each remaining wall.

**Lighting:**

**Data & Other:**

1. One (1) 2-port data outlet each on two opposing walls. Coordinate with power outlet locations.

**HS15-F-3.10 Technology Criteria:**
G-3. Physical Requirements

**HS15-G-3.1** Space(s):

**G. Human Services / Nurse Office.**

**HS15-G-3.2** Use:

1. Human Services professionals and the school nurse will use this space to work with students and their families. Space is required for consultations.

**HS15-G-3.3** Special Criteria:

1. Requires access from reception.

**HS15-G-3.4** Finishes and Features:

<table>
<thead>
<tr>
<th>General Notes:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Floor:</td>
<td>Carpet</td>
</tr>
<tr>
<td>Floor Transitions:</td>
<td></td>
</tr>
<tr>
<td>Base:</td>
<td>Resilient top-set base</td>
</tr>
<tr>
<td>Walls:</td>
<td>Painted CMU / gypsum wallboard</td>
</tr>
<tr>
<td>Ceiling:</td>
<td>Acoustical ceiling panels</td>
</tr>
<tr>
<td>Ceiling Height:</td>
<td>9'-4&quot;</td>
</tr>
<tr>
<td>Doors:</td>
<td>Solid</td>
</tr>
<tr>
<td>Windows:</td>
<td>Exterior windows are acceptable</td>
</tr>
</tbody>
</table>

**HS15-G-3.5** Casework & Special Features:

**General:**

1. Window blinds at all exterior windows.
2. Marker board - 4'-0" x 4'-0".
3. Tackboard - 4'-0" x 4'-0".

**HS15-G-3.6** Furniture, Fixtures & Equip.:

**Owner provide:**

2. Furniture.

**HS15-G-3.7** Instruc. Mat & Equipment:

**HS15-G-3.8** Mechanical Criteria:

1. Provide lavatory with hot and cold water.
HS15-G-3.9  Electrical Criteria:

  Power:  1. Duplex outlets, 4'-6" maximum spacing on all walls.

  Lighting:

  Data & Other:  1. One (1) 2-port data outlet.

HS15-G-3.10  Technology Criteria:
H-3. Physical Requirements

HS15-H-3.1 Space(s):

**H. Health Examination Room / Toilet.**

HS15-H-3.2 Use:

1. Waiting area for sick or injured students.
2. Medical consultation and examinations with students and families.

HS15-H-3.3 Special Criteria:

1. Provide a Toilet Room within each Health Exam Room; comply with requirements of Section HS15-I-3 "Toilets".
2. Direct access from reception is required for supervision.
3. Locate close to Human Services / Nurse Office.

HS15-H-3.4 Finishes and Features:

<table>
<thead>
<tr>
<th>General Notes:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Floor:</td>
<td>VCT</td>
</tr>
<tr>
<td>Floor Transitions:</td>
<td></td>
</tr>
<tr>
<td>Base:</td>
<td>Resilient top-set base</td>
</tr>
<tr>
<td>Walls:</td>
<td>Painted CMU / gypsum wallboard, with acoustical insulation</td>
</tr>
<tr>
<td>Ceiling:</td>
<td>Acoustical ceiling panels</td>
</tr>
<tr>
<td>Ceiling Height:</td>
<td>9'-4&quot;</td>
</tr>
<tr>
<td>Doors:</td>
<td>Solid</td>
</tr>
<tr>
<td>Windows:</td>
<td>Fixed interior view window to Reception with sill 36&quot; AFF.</td>
</tr>
</tbody>
</table>

HS15-H-3.5 Casework & Special Features:

**General:**

1. Window blinds at all exterior windows.
2. Base cabinetry unit with sink & countertop. Unit shall have adjustable shelving, lockable doors, drawers, and knee space for desk area.
3. Wall-mounted cabinet above sink, with lockable doors.
4. One (1) full length mirror 3'-0" x 6'-0", mounted on wall.
5. Paper towel and soap dispensers.

HS15-H-3.6 Furniture, Fixtures & Equip.:

**Contractor provide:**

1. 21CF Refrigerator with w/ freezer and ice maker.

**Owner provide:**

1. One (1) Computer and printer.
2. One (1) Trash can.
3. Small student cot.

HS15-H-3.7 Instruc. Mat & Equipment:
HS15-H-3.8 Mechanical Criteria:
1. Provide sink with hot and cold water.

HS15-H-3.9 Electrical Criteria:

Power: 1. Duplex outlets, 4'-6" maximum spacing on all walls.

Lighting: 

Data & Other: 1. One (1) 2-port data outlet.

HS15-H-3.10 Technology Criteria:
I-3. Physical Requirements

HS15-I-3.1  Space(s):

   I. Toilets.

HS15-I-3.2  Use:

   1. Accessible toilet facility.

HS15-I-3.3  Special Criteria:

   1. Centrally located for Student Support Services staff.

HS15-I-3.4  Finishes and Features:

<table>
<thead>
<tr>
<th>General Notes:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Floor:</td>
<td>VCT</td>
</tr>
<tr>
<td>Floor Transitions:</td>
<td></td>
</tr>
<tr>
<td>Base:</td>
<td>Resilient top-set base</td>
</tr>
<tr>
<td>Walls:</td>
<td>Painted CMU / gypsum wallboard with acoustical insulation</td>
</tr>
<tr>
<td>Ceiling:</td>
<td>Acoustical ceiling panels</td>
</tr>
<tr>
<td>Ceiling Height:</td>
<td>9'-4&quot;</td>
</tr>
<tr>
<td>Doors:</td>
<td>Solid with privacy lockset</td>
</tr>
<tr>
<td>Windows:</td>
<td>(none)</td>
</tr>
</tbody>
</table>

HS15-I-3.5  Casework & Special Features:

   General

   1. Sanitary napkin disposal.
   2. Toilet paper dispenser, soap dispenser, paper towel dispenser.
   3. Mirror over sink.
   4. Wall cabinet for supplies.
   5. Coat hook on back of door.

HS15-I-3.6  Furniture, Fixtures & Equip.:

HS15-I-3.7  Instruc. Mat & Equipment:

HS15-I-3.8  Mechanical Criteria:

   1. Provide lavatory with hot and cold water.
   2. Toilet.
HS15-I-3.9  Electrical Criteria:

  Power:  1. One (1) duplex GFI outlet near mirror.

  Lighting:

  Data & Other:

HS15-I-3.10  Technology Criteria:
J-3. Physical Requirements

HS15-J-3.1 Space(s):

J. Psychologist / Social Worker Office.

HS15-J-3.2 Use:

1. Conferences, special individualized testing and counseling by professional staff who are based full and part-time in the school.

HS15-J-3.3 Special Criteria:

1. Toilet Room should be located nearby.
2. Group with other Student Support Services offices. Should be in a quiet, low traffic area.

HS15-J-3.4 Finishes and Features:

<table>
<thead>
<tr>
<th>General Notes:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Floor: Carpet</td>
</tr>
<tr>
<td>Floor Transitions:</td>
</tr>
<tr>
<td>Base: Resilient top-set base</td>
</tr>
<tr>
<td>Walls: Painted CMU / gypsum wallboard with acoustical insulation</td>
</tr>
<tr>
<td>Ceiling: Acoustical ceiling panels</td>
</tr>
<tr>
<td>Ceiling Height: 9'-4&quot;</td>
</tr>
<tr>
<td>Doors: Provide door with small vision panel or sidelight</td>
</tr>
<tr>
<td>Windows: Exterior windows preferred</td>
</tr>
</tbody>
</table>

HS15-J-3.5 Casework & Special Features:

<table>
<thead>
<tr>
<th>General</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Window blinds at all exterior windows.</td>
</tr>
<tr>
<td>2. Coat hook on back of door.</td>
</tr>
</tbody>
</table>

HS15-J-3.6 Furniture, Fixtures & Equip.:

HS15-J-3.7 Instruc. Mat & Equipment:

HS15-J-3.8 Mechanical Criteria:

1. HVAC sound level should not exceed NC level 35.
HS15-J-3.9  Electrical Criteria:

**Power:**
1. Two (2) duplex outlets on 2 opposing walls, and one (1) duplex outlet on each remaining wall.

**Lighting:**

**Data & Other:**
1. One (1) 2-port data outlet each on two opposing walls.
2. No intercom speaker.

HS15-J-3.10  Technology Criteria:
K-3. Physical Requirements

HS15-K-3.1  Space(s):

K. Speech Therapy / Audiology Room.

HS15-K-3.2  Use:

1. Space for speech therapists and audiologist to work one on one with students, meet parents, maintain records and store materials.

HS15-K-3.3  Special Criteria:

1. Should be close to guidance areas.
2. Speech Therapy/Audiology Room and the OT/PT Room should have a common wall and should be in close proximity to the corridor.

HS15-K-3.4  Finishes and Features:

<table>
<thead>
<tr>
<th>General Notes:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Floor:</td>
<td>Carpet</td>
</tr>
<tr>
<td>Floor Transitions:</td>
<td></td>
</tr>
<tr>
<td>Base:</td>
<td>Resilient top-set base</td>
</tr>
<tr>
<td>Walls:</td>
<td>Painted CMU / gypsum wallboard with acoustical insulation</td>
</tr>
<tr>
<td>Ceiling:</td>
<td>Acoustical ceiling panels</td>
</tr>
<tr>
<td>Ceiling Height:</td>
<td>9'-4&quot;</td>
</tr>
<tr>
<td>Doors:</td>
<td>Lockable door with vision panel to corridor.</td>
</tr>
<tr>
<td>Windows:</td>
<td>One-way vision panel, with reflective surface in OT/PT Room.</td>
</tr>
</tbody>
</table>

HS15-K-3.5  Casework & Special Features:

General
1. Window blinds at all exterior windows.
2. Marker board  4'-0" x 4'-0", bottom at 35" AFF.
3. Tackboard  2'-0" x 3'-0", bottom at 35" AFF.
4. Full length mirror 2'-0" x 6'-0" on door.

HS15-K-3.6  Furniture, Fixtures & Equip.:

HS15-K-3.7  Instruc. Mat & Equipment:

HS15-K-3.8  Mechanical Criteria:

1. HVAC sound level should not exceed NC level 35.
HS15-K-3.9  Electrical Criteria:

Power: 1. Two (2) duplex outlets on 2 opposing walls, and one (1) duplex outlet on each remaining wall.

Lighting: 1. No auditory distractions from fluorescent lights.

Data & Other: 1. Provide local intercom with sound coming from OT/PT Room.
2. One (1) 2-port data outlet each on opposing walls.

HS15-K-3.10  Technology Criteria:
L-3. Physical Requirements

HS15-L-3.1 Space(s):

L. Occupation Therapy / Physical Therapy (OT/PT).

HS15-L-3.2 Use:

1. Space for Visually and Hearing Impaired Specialists and Occupational and Physical Therapists to work one-on-one with students, meet parents, maintain records and store materials.

HS15-L-3.3 Special Criteria:

1. Locate to have common wall with Speech Therapy/Audiology Room, and be in close proximity to a corridor for easy access.

HS15-L-3.4 Finishes and Features:

<table>
<thead>
<tr>
<th>General Notes:</th>
<th>Carpet</th>
</tr>
</thead>
<tbody>
<tr>
<td>Floor:</td>
<td>Carpet</td>
</tr>
<tr>
<td>Floor Transitions:</td>
<td>Resilient top-set base</td>
</tr>
<tr>
<td>Base:</td>
<td>Resilient top-set base</td>
</tr>
<tr>
<td>Walls:</td>
<td>Painted CMU / gypsum wallboard with acoustical insulation</td>
</tr>
<tr>
<td>Ceiling:</td>
<td>Acoustical ceiling panels</td>
</tr>
<tr>
<td>Ceiling Height:</td>
<td>9'-4&quot;</td>
</tr>
<tr>
<td>Doors:</td>
<td>Lockable door with vision panel to corridor</td>
</tr>
<tr>
<td>Windows:</td>
<td>One-way vision panel with reflective surface in OT/PT Room, located in common wall between Speech Therapy/Audiology room and OT/PT room in the center of the common wall (4'-0&quot; X 4'-0&quot;, sill at 3'-0&quot;)</td>
</tr>
</tbody>
</table>

HS15-L-3.5 Casework & Special Features:

<table>
<thead>
<tr>
<th>General</th>
<th>1. Window blinds at all exterior windows.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>2. Marker board 4'-0&quot; x 4'-0&quot;, bottom at 35&quot; AFF.</td>
</tr>
<tr>
<td></td>
<td>3. Tackboard 2'-0&quot; x 3'-0&quot;, bottom at 35&quot; AFF.</td>
</tr>
<tr>
<td></td>
<td>4. 5'-0&quot; wide base cabinetry unit with sink &amp; countertop. Unit shall have adjustable shelving, drawers, and knee space for desk area.</td>
</tr>
<tr>
<td></td>
<td>5. 5'-0&quot; wide wall-mounted cabinet above sink, with lockable doors.</td>
</tr>
<tr>
<td></td>
<td>6. Full length mirror 2'-0&quot; x 6'-0&quot; on door.</td>
</tr>
<tr>
<td></td>
<td>7. Paper towel and soap dispensers.</td>
</tr>
<tr>
<td></td>
<td>8. Student Desk.</td>
</tr>
<tr>
<td></td>
<td>9. Exam Table.</td>
</tr>
</tbody>
</table>

HS15-L-3.6 Furniture, Fixtures & Equip.:

HS15-A-3.7 Instruc. Mat & Equipment:
HS15-L-3.8 Mechanical Criteria:
1. HVAC sound level should not exceed NC level 35.
2. Provide sink with hot and cold water.

HS15-L-3.9 Electrical Criteria:

Power: 1. Two (2) duplex outlets on 2 opposing walls, and one (1) duplex outlet on each remaining wall.

Lighting: 1. No auditory distractions from fluorescent lights or otherwise.

Data & Other: 1. Provide local intercom to Speech/Audiology Room.
2. Provide one (1) 2-port data outlet each on opposing walls.

HS15-L-3.10 Technology Criteria:
M-3. Physical Requirements

HS15-M-3.1 Space(s):

**M. Technician's Office.**

HS15-M-3.2 Use:

1. Support for Student Support Services staff.

HS15-M-3.3 Special Criteria:

1. Adjacent to Career Center. Accessible to counselors.

HS15-M-3.4 Finishes and Features:

<table>
<thead>
<tr>
<th>General Notes:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Floor:</td>
<td>Carpet</td>
</tr>
<tr>
<td>Floor Transitions:</td>
<td></td>
</tr>
<tr>
<td>Base:</td>
<td>Resilient top-set base</td>
</tr>
<tr>
<td>Walls:</td>
<td>Painted CMU / gypsum wallboard</td>
</tr>
<tr>
<td>Ceiling:</td>
<td>Acoustical ceiling panels</td>
</tr>
<tr>
<td>Ceiling Height:</td>
<td>9'-4&quot;</td>
</tr>
<tr>
<td>Doors:</td>
<td>Door with small vision panel or sidelight</td>
</tr>
<tr>
<td>Windows:</td>
<td>Exterior window preferred</td>
</tr>
</tbody>
</table>

HS15-M-3.5 Casework & Special Features:

**General**

1. Window blinds at all exterior windows.
2. Tackboard - 2'-0" x 3'-0".
3. Coat hook on back of door.

HS15-M-3.6 Furniture, Fixtures & Equip.:

**Owner provide:**

1. Fax machine.

HS15-M-3.7 Instruc. Mat & Equipment:

HS15-M-3.8 Mechanical Criteria:
HS15-M-3.9  Electrical Criteria:

Power: 1. Two (2) duplex outlets on 2 opposing walls, and one (1) duplex outlet on each remaining wall.

Lighting:

Data & Other: 1. Provide intercom with ability to turn off sound.
2. Two (2) 2-port data outlets, one on each of two opposing walls.

HS15-M-3.10  Technology Criteria:
N-3. Physical Requirements

HS15-N-3.1  Space(s):

N. Industry Education Coordinator Office / Conference.

HS15-N-3.2  Use:

1. Industry Education coordinator will use as work station and will meet with students, staff and parents.

HS15-N-3.3  Special Criteria:

1. Locate adjacent to and with direct access to Media Center

HS15-N-3.4  Finishes and Features:

<table>
<thead>
<tr>
<th>General Notes:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Floor:</td>
<td>Carpet</td>
</tr>
<tr>
<td>Floor Transitions:</td>
<td></td>
</tr>
<tr>
<td>Base:</td>
<td>Resilient top-set base</td>
</tr>
<tr>
<td>Walls:</td>
<td>Painted CMU / gypsum wallboard</td>
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</tr>
<tr>
<td>Ceiling Height:</td>
<td>9'-4&quot;</td>
</tr>
<tr>
<td>Doors:</td>
<td>Door with small vision panel or sidelight</td>
</tr>
<tr>
<td>Windows:</td>
<td>Exterior window preferred</td>
</tr>
</tbody>
</table>

HS15-N-3.5  Casework & Special Features:

<table>
<thead>
<tr>
<th>General:</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Window blinds at all exterior windows.</td>
</tr>
<tr>
<td>2. Tackboard - 2'-0&quot; x 3'-0&quot;.</td>
</tr>
</tbody>
</table>

HS15-N-3.6  Furniture, Fixtures & Equip.:

<table>
<thead>
<tr>
<th>Owner provide:</th>
</tr>
</thead>
</table>

HS15-N-3.7  Instruc. Mat & Equipment:

HS15-N-3.8  Mechanical Criteria:
HS15-N-3.9 Electrical Criteria:

**Power:**
1. Two (2) duplex outlets on 2 opposing walls, and one (1) duplex outlet on each remaining wall.

**Lighting:**

**Data & Other:**
1. Provide intercom with ability to turn off sound.
2. Two (2) 2-port data outlets, one each on two opposing walls.

HS15-N-3.10 Technology Criteria:
O-3. Physical Requirements

HS15-O-3.1 Space(s):

O. Records Room.

HS15-O-3.2 Use:

1. Storage of records, materials and supplies.

HS15-O-3.3 Special Criteria:

1. Close proximity to offices and Administrative suite.

HS15-O-3.4 Finishes and Features:

<table>
<thead>
<tr>
<th>General Notes:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Floor: VCT</td>
</tr>
<tr>
<td>Floor Transitions:</td>
</tr>
<tr>
<td>Base: Resilient top-set base</td>
</tr>
<tr>
<td>Walls: Painted CMU / gypsum wallboard</td>
</tr>
<tr>
<td>Ceiling: Acoustical ceiling panels</td>
</tr>
<tr>
<td>Ceiling Height: 9'-4&quot;</td>
</tr>
<tr>
<td>Doors: Solid, lockable door</td>
</tr>
<tr>
<td>Windows:</td>
</tr>
</tbody>
</table>

HS15-O-3.5 Casework & Special Features:

General: 1. Full height adjustable shelving on one wall.

HS15-O-3.6 Furniture, Fixtures & Equip.:

Owner provide: 1. Computer and printer.

HS15-O-3.7 Instruc. Mat & Equipment:

HS15-O-3.8 Mechanical Criteria:

HS15-O-3.9 Electrical Criteria:

Power: 1. One (1) duplex outlet on each wall.

Lighting:

Data & Other: 1. Two (2) 2-port data outlets, one on each of opposing walls.

HS15-O-3.10 Technology Criteria:
P-3. Physical Requirements

HS15-P-3.1 Space(s):

P. Student Assistance Program (SAP) / School Resource Office.

HS15-P-3.2 Use:

1. Office space for School Resource Officer.
2. Office and meeting space for either the Community In Schools or the Student Assistance Program coordinator (each school has one or the other).

HS15-P-3.3 Special Criteria:

1. Locate adjacent to the Student Support Services suite with direct corridor access through a small vestibule waiting area for two students.

HS15-P-3.4 Finishes and Features:

<table>
<thead>
<tr>
<th>General Notes:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Floor:</td>
<td>Carpet</td>
</tr>
<tr>
<td>Floor Transitions:</td>
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<tr>
<td>Base:</td>
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</tr>
<tr>
<td>Walls:</td>
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<tr>
<td>Ceiling:</td>
<td>Acoustical ceiling panels</td>
</tr>
<tr>
<td>Ceiling Height:</td>
<td>9'-4&quot;</td>
</tr>
<tr>
<td>Doors:</td>
<td>Door with small vision panel or sidelight</td>
</tr>
<tr>
<td>Windows:</td>
<td>Exterior window preferred</td>
</tr>
</tbody>
</table>

HS15-P-3.5 Casework & Special Features:

General
1. Window blinds at all exterior windows.
2. Tackboard, 2'-0" x 3'-0".
3. Coat hook on back of door.

HS15-P-3.6 Furniture, Fixtures & Equip.:

HS15-P-3.7 Instruc. Mat & Equipment:

HS15-P-3.8 Mechanical Criteria:
HS15-P-3.9  Electrical Criteria:

Power: 1. Two (2) duplex outlets on 2 opposing walls, and one (1) duplex outlet on each remaining wall.

Lighting: 

Data & Other: 1. Provide intercom with ability to turn off sound.
2. Two (2) 2-port data outlets, one (1) on each of two opposing walls.

HS15-P-3.10  Technology Criteria:
Q-3. Physical Requirements

HS15-Q-3.1 Space(s):

Q. Student Lockers.

HS15-Q-3.2 Use:

1. Locker commons areas for students.

HS15-Q-3.3 Special Criteria:

1. Locate centrally. May be in separate areas, each with lockers in low peninsula configurations.

HS15-Q-3.4 Finishes and Features:

<table>
<thead>
<tr>
<th>General Notes:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Floor:</td>
<td>VCT</td>
</tr>
<tr>
<td>Floor Transitions:</td>
<td></td>
</tr>
<tr>
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<tr>
<td>Walls:</td>
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<td>Ceiling:</td>
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</tr>
<tr>
<td>Ceiling Height:</td>
<td></td>
</tr>
<tr>
<td>Doors:</td>
<td></td>
</tr>
<tr>
<td>Windows:</td>
<td>Exterior windows preferred</td>
</tr>
</tbody>
</table>

HS15-Q-3.5 Casework & Special Features:

<table>
<thead>
<tr>
<th>General</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1. Window blinds at all exterior windows.</td>
</tr>
<tr>
<td></td>
<td>2. 1,200 lockers.</td>
</tr>
</tbody>
</table>

HS15-Q-3.6 Furniture, Fixtures & Equip.:

HS15-Q-3.7 Instruc. Mat & Equipment:

HS15-Q-3.8 Mechanical Criteria:

HS15-Q-3.9 Electrical Criteria:

<table>
<thead>
<tr>
<th>Power</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Lighting</td>
<td></td>
</tr>
<tr>
<td>Data &amp; Other</td>
<td></td>
</tr>
</tbody>
</table>

HS15-Q-3.10 Technology Criteria:
1. General Educational Requirements

**HS16-1.1 Objectives**

1. To provide meals for students and staff in a warm, cheerful, inviting and social place.

2. To offer a wide variety of nutritious foods so students and staff have the opportunity to make wise food choices for healthful living.

**HS16-1.2 Trends**

1. Recycling.

2. Creating a “food court” – like atmosphere to attract students.

**HS16-1.3 Activities and Enrollment**

1. The dining area is designed for three (3) seatings of approximately 30 minutes each.

2. The dining area should be a flexible space to accommodate large group gatherings such as parent meetings and banquets.

3. Food is self-serve to accommodate individual food preferences and to reduce waste.
2. Space Overview

HS16-2.1 Required Spaces

Reference: 1. Circulation area from entrance to serving line should be included in "Non-Assignable" category.

<table>
<thead>
<tr>
<th>Identifier</th>
<th>Space</th>
<th>Quantity</th>
<th>Area Each (SF)</th>
<th>Area Total (SF)</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>Dining Area</td>
<td>1</td>
<td>10,364</td>
<td>10,364</td>
</tr>
<tr>
<td>B</td>
<td>Food Preparation</td>
<td>1</td>
<td>1,600</td>
<td>1,600</td>
</tr>
<tr>
<td>C</td>
<td>Serving Line</td>
<td>1</td>
<td>1,650</td>
<td>1,650</td>
</tr>
<tr>
<td>D</td>
<td>Office</td>
<td>1</td>
<td>100</td>
<td>100</td>
</tr>
<tr>
<td>E</td>
<td>Recycling</td>
<td>1</td>
<td>200</td>
<td>200</td>
</tr>
<tr>
<td>F</td>
<td>Dry Storage</td>
<td>1</td>
<td>600</td>
<td>600</td>
</tr>
<tr>
<td>G</td>
<td>Cooler / Freezer</td>
<td>1</td>
<td>500</td>
<td>500</td>
</tr>
<tr>
<td>H</td>
<td>Staff locker Room / Toilet / W/D</td>
<td>1</td>
<td>300</td>
<td>300</td>
</tr>
<tr>
<td>I</td>
<td>Custodial</td>
<td>1</td>
<td>40</td>
<td>40</td>
</tr>
</tbody>
</table>

Total 9 15,354

HS16-2.2 Design Considerations

1. Locate near bus and or car queuing areas so the dining area can be used as holding space in inclement weather.
2. Locate centrally with close proximity to Administration and away from quiet areas.
3. Locate group toilets nearby for daytime as well as after school use.
4. All shelving to be NSF-approved with rust-proof coating.
5. Corridor from loading dock must be 5’-6” min. wide.
6. Acoustical control and use of daylight is strongly emphasized.
7. Minimize the use of columns and other obstructions.
8. Refer to Section HS-20 “Site” for parking requirements for food service staff and for associated service area.
9. Kitchen equipment and layout to be approved by Child Nutrition Services at each design phase.
10. Approved Schematic Design Drawings must be reviewed by the Department of Health.
11. All kitchen equipment to be demonstrated by factory representatives and operating properly at least one week before food preparation begins.
2. Space Overview (continued)

HS16-2.3 Adjacency Diagram:
A-3. Physical Requirements

HS16-A-3.1 Space(s):

A. Dining Area.

HS16-A-3.2 Use:

1. Student dining.
2. Meetings.

HS16-A-3.3 Special Criteria:

1. Dining rooms should be colorful, well-lighted and inviting to customers. Use various elements to break up space, create visual interest and provide flexibility for different sized groups.
2. Minimize internal columns.
3. Colors of floors, walls, ceiling, serving lines, tables, chairs and trays should be coordinated.
4. Use of graphics, murals, etc. is desirable for walls and ceilings.
5. Architects shall provide table/chair layout and traffic flow pattern. Use SICO “Director” or “President” tables when laying out seating.
6. Queuing for serving line should be along perimeter of dining area.
7. Consider acoustics when planning room volume and selecting building materials.
8. Traffic flows through serving area into dining.
9. Provide two recycling areas (3 large trash cans each area), screened with low wall.

HS16-A-3.4 Finishes and Features:

| General Notes:                |
|------------------------------|------------------------------------------------------------------|
| Floor:                       | Durable materials: Terrazzo. Sealed Concrete, Linoleum, VCT     |
| Floor Transitions:           |                                                                  |
| Base:                        | Resilient top-set base                                           |
| Walls:                       | Painted CMU / gypsum wallboard with acoustical insulation        |
| Ceiling:                     | Acoustical ceiling panels                                       |
| Ceiling Height:              | 14’-0” minimum                                                  |
| Doors:                       | Doors must have automatic closers with automatic hold-open      |
|                              | devices. Doors between kitchen and serving areas must have      |
|                              | 180° swing to open and stay flush against the wall.             |
| Windows:                     | Natural light is important for creating a pleasant, inviting    |
|                              | atmosphere                                                      |

HS16-A-3.5 Casework & Special Features:

General

1. Motorized window shades at exterior windows.
2. Brackets for monitors in two locations - bottom of monitors to be 8’-0” AFF.
HS16-A-3.6 Furniture, Fixtures & Equip.:

Owner's Vending Service provide:
1. Six (6) Vending machines, each 42"w X 42"d X 80"h +/-.

Owner provide:
1. Folding (SICO) tables, w/attached seating. (Provide 2 tables with ADA seating capability).
1. Two (2) 40" monitors and brackets.

HS16-A-3.7 Instruc. Mat & Equipment:

HS16-A-3.8 Mechanical Criteria:
1. Provide electric water cooler in the dining area on a wall away from the serving line, preferably near the main entrance.

HS16-A-3.9 Electrical Criteria:

Power:
1. Provide duplex outlets @ 15'-0" OC on all walls.
2. Provide one (1) duplex electrical outlet at each column.
3. Provide one (1) duplex electrical outlet for each monitor.
4. Provide electrical duplex outlets for vending machines.

Lighting:

Data & Other:
1. Provide PA system speakers (refer to HS-11 "Health and PE"), and handset.

HS16-A-3.10 Technology Criteria:
B-3. Physical Requirements

HS16-B-3.1 Space(s):

**B. Food Preparation.**

HS16-B-3.2 Use:

1. Food preparation for student, faculty and staff meals.

HS16-B-3.3 Special Criteria:

1. Locate adjacent to serving line and accessible to storage areas.
2. Area to have visual supervision from the manager's office.
3. Locate tackboard in central location.
4. Clear circulation around centers and equipment should be: 4'-0" between centers, 3'-0" between work tables, and 4-0" around the hood.
5. Kitchen equipment and layout to be approved by Child Nutrition Services at each design phase.
6. Food Service equipment may vary from requirements listed herein depending on student population and numbers served.

HS16-B-3.4 Finishes and Features:

<table>
<thead>
<tr>
<th>General Notes:</th>
<th>Floor: Non-slip porcelain or quarry tile (medium-dark color), colored grout. Slope to floor drains</th>
</tr>
</thead>
<tbody>
<tr>
<td>Floor Transitions:</td>
<td>Base: Porcelain or quarry tile</td>
</tr>
<tr>
<td>Walls: Epoxy paint, with void-free wall finish. Smooth face CMU or FRP Boards are acceptable. Do not use GWB for walls</td>
<td></td>
</tr>
<tr>
<td>Ceiling: Acoustical ceiling panels and grid (approved for kitchen use)</td>
<td></td>
</tr>
<tr>
<td>Ceiling Height:</td>
<td>Doors: Door to loading dock – provide &quot;panic&quot; device hardware (even if not required by code) to permit easy exit for kitchen staff; provide kick-stop to permit door to be held open during deliveries. Locate peephole in exterior door (to loading dock). Provide doorbell.</td>
</tr>
<tr>
<td>Windows: Access to natural light is desirable. When possible, provide windows</td>
<td></td>
</tr>
</tbody>
</table>

HS16-B-3.5 Casework & Special Features:

**General**

1. Window blinds at all exterior windows.
HS16-B-3.6 Furniture, Fixtures & Equip.:  

**Contractor provide:**
1. All kitchen equipment to be demonstrated by factory representatives and operating properly at least one week before food preparation begins.
2. Refer to WCPSS Design Guideline Section 11 40 00 "Food Service Equipment", and HS-16 Appendices 1 & 2 for schematic layout and equipment list.

HS16-B-3.7 Instruc. Mat & Equipment:

HS16-B-3.8 Mechanical Criteria:
1. Air-conditioning, heating and exhaust system with good ventilation.
2. Floor drains should be made of stainless steel or bronze and located at steamer and sink location. Floor should slope to drains. Drains must be easy to clean and reassemble.
3. Locate additional floor drains for hosing down floor. A floor drain should be near doors to cooler and freezer. Floor should slope to drains.
4. Provide hood with automatic fire extinguisher system w/nozzles, located as indicated in schematic plan. Locate all equipment far enough under hood to prevent steam from escaping and damaging ceiling tiles.
5. Provide stainless steel island utility chase, including water, gas and electrical, to serve items under hood. Provide quick disconnects for all utilities.
6. Extra space to be provided for future expansion under hood. Stub-out for gas and provide conduit through which additional wires can be pulled.
7. Provide grease traps where necessary.
8. Locate one handwash sink on each end of kitchen.
9. Locate fly fan outside door to loading dock.
10. Provide AHU for Food Prep separate from that for Dining.

HS16-B-3.9 Electrical Criteria:

**Power:**
1. Provide flexible connections where appropriate to move equipment for cleaning.
2. Coordinate size and location with equipment requirements.
3. Provide additional (20 amp) outlet for heat/proof cabinets on wall near door to dining.
4. Provide a duplex floor outlet under all 4 worktable locations.
5. Provide three (3) spare ¾” conduits w/pull strings for future use in kitchen utility raceway.
6. All floor outlets must be cast metal junction boxes, mounted above floor, grouted and sloped underneath.

**Lighting:**
1. Minimum lighting is 50 foot candles.
Data & Other:
1. Provide doorbell at loading dock door with loud bell in food prep area.
2. Office telephone requires loud bell located in food preparation area.
3. Food Preparation area needs to be on separate security zone so manager has access during vacation periods.
4. Intercom speaker.

**HS16-B-3.10 Technology Criteria:**
C-3. Physical Requirements

HS16-C-3.1 Space(s):

C. Serving Line.

HS16-C-3.2 Use:

1. Hot and cold food service.

HS16-C-3.3 Special Criteria:

1. Requires easy access from food preparation and the main entrance as well as access to student dining areas.
2. Provide permanent railings to organize circulation.
3. Include three separate double-sided lines, with capability for 2 cashiers at each line.
4. Serving Line equipmetn may vary depending on student population and numbers served.

HS16-C-3.4 Finishes and Features:

<table>
<thead>
<tr>
<th>General Notes:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Floor: VCT</td>
</tr>
<tr>
<td>Floor Transitions:</td>
</tr>
<tr>
<td>Base:</td>
</tr>
<tr>
<td>Walls:</td>
</tr>
<tr>
<td>Ceiling:</td>
</tr>
<tr>
<td>Ceiling Height:</td>
</tr>
<tr>
<td>Doors:</td>
</tr>
<tr>
<td>Windows:</td>
</tr>
</tbody>
</table>

HS16-C-3.5 Casework & Special Features:

HS16-C-3.6 Furniture, Fixtures & Equip.:

Contractor provide:
1. Refer to HS-16 Appendices 1 and 2 for required components.
2. Serving line component features to include 5” locking casters, dual solid stainless steel tray slides, and line-up locks.

Owner provide:
1. 40” monitors and brackets.

HS16-C-3.7 Instruc. Mat & Equipment:

HS16-A-3.8 Mechanical Criteria:

1. Floor drain is not acceptable.
2. Provide handwash sink near serving area.
**HS16-C-3.9 Electrical Criteria:**

**Power:**
1. Number and location to be determined by layout and equipment specification.
2. Side plug floor outlets should be no higher than 4-1/2". Coordinate placement with serving line. Place outlets directly under center point under serving line.
3. Provide one (1) duplex outlet per cash register. (Note: both outlets to be located next to each other under primary cash register and in straight line with serving line outlets).
4. Provide power connections for wall-mounted monitors.
5. Place electrical floor boxes directly under center of each serving line piece.

**Lighting:**
1. Serving lines to have accent lighting for good merchandising and eye appeal.

**Data & Other:**
1. Provide one (1) data outlet per cash register (two cash registers may share one 2-port data outlet). Connect cash registers to file server in closest technology closet with copper wiring.
2. Data outlets, along with electrical outlets, for cash registers, should be under primary cash register only; no outlets (data or elec.) at secondary register.
3. Provide data connections for wall-mounted monitors for display of menu etc.

**HS16-C-3.10 Technology Criteria:**
D-3. Physical Requirements

HS16-D-3.1 Space(s):

D. Office.

HS16-D-3.2 Use:

1. Administrative office for cafeteria manager.

HS16-D-3.3 Special Criteria:

1. Locate to provide for visual supervision of loading dock door, food prep area and storage areas.

HS16-D-3.4 Finishes and Features:

<table>
<thead>
<tr>
<th>General Notes:</th>
<th>Quarry tile</th>
</tr>
</thead>
<tbody>
<tr>
<td>Floor:</td>
<td></td>
</tr>
<tr>
<td>Floor Transitions:</td>
<td></td>
</tr>
<tr>
<td>Base:</td>
<td>Quarry tile</td>
</tr>
<tr>
<td>Walls:</td>
<td>Painted CMU / gypsum wallboard</td>
</tr>
<tr>
<td>Ceiling:</td>
<td></td>
</tr>
<tr>
<td>Ceiling Height:</td>
<td></td>
</tr>
<tr>
<td>Doors:</td>
<td>Provide door with vision panel</td>
</tr>
<tr>
<td>Windows:</td>
<td>Locate fixed window for seated view of food preparation area &amp; receiving, with sill height @ 36&quot; AFF.</td>
</tr>
</tbody>
</table>

HS16-D-3.5 Casework & Special Features:

General 1. Coat hook, on back of door.

HS16-D-3.6 Furniture, Fixtures & Equip.:

HS16-D-3.7 Instruc. Mat & Equipment:

HS16-D-3.8 Mechanical Criteria:
HS16-D-3.9  Electrical Criteria:

**Power:**
1. Provide one (1) duplex outlet on each wall.
2. Provide one (1) quadraplex outlet for file server.

**Lighting:**

**Data & Other:**
1. Provide telephone. (Telephone requires loud bell located in food preparation area).
2. Connection for cash registers with special circuits and isolated grounding provisions.
3. Two (2) 2-port data outlets. Locate on wall with window towards kitchen.
4. Connection to school WAN and LAN (See HS-16 Appendix 3).

HS16-D-3.10  Technology Criteria:
E-3. Physical Requirements

HS16-E-3.1 Space(s):

   E. Recycling.

HS16-E-3.2 Use:

   1. Collection of recyclable plates and utensils after use.

HS16-E-3.3 Special Criteria:

   1. Locate adjacent to Dining Room, convenient to students leaving the room. Provide access from food prep area for changing/emptying cans.

HS16-E-3.4 Finishes and Features:

<table>
<thead>
<tr>
<th>General Notes:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Floor:</td>
<td>VCT</td>
</tr>
<tr>
<td>Floor Transitions:</td>
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</tr>
<tr>
<td>Base:</td>
<td>Resilient top-set base</td>
</tr>
<tr>
<td>Walls:</td>
<td>Epoxy-painted CMU</td>
</tr>
<tr>
<td>Ceiling:</td>
<td></td>
</tr>
<tr>
<td>Ceiling Height:</td>
<td></td>
</tr>
<tr>
<td>Doors:</td>
<td>(none)</td>
</tr>
<tr>
<td>Windows:</td>
<td>(none)</td>
</tr>
</tbody>
</table>

HS16-E-3.5 Casework & Special Features:

HS16-E-3.6 Furniture, Fixtures & Equip.:

HS16-E-3.7 Instruc. Mat & Equipment:

HS16-E-3.8 Mechanical Criteria:

   1. Good ventilation is required.

HS16-E-3.9 Electrical Criteria:

   Power: 1. Electrical outlets for cleaning equipment.

   Lighting:

   Data & Other:

HS16-E-3.10 Technology Criteria:
F-3. Physical Requirements

HS16-F-3.1  Space(s):

**F. Dry Storage.**

HS16-F-3.2  Use:

1. Storing canned food and supplies.

HS16-F-3.3  Special Criteria:

HS16-F-3.4  Finishes and Features:

<table>
<thead>
<tr>
<th>General Notes:</th>
<th></th>
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<tbody>
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<tr>
<td>Floor Transitions:</td>
<td></td>
</tr>
<tr>
<td>Base:</td>
<td>Quarry tile</td>
</tr>
<tr>
<td>Walls:</td>
<td>Epoxy-painted CMU</td>
</tr>
<tr>
<td>Ceiling:</td>
<td></td>
</tr>
<tr>
<td>Ceiling Height:</td>
<td></td>
</tr>
<tr>
<td>Doors:</td>
<td></td>
</tr>
<tr>
<td>Windows:</td>
<td>(none)</td>
</tr>
</tbody>
</table>

HS16-F-3.5  Casework & Special Features:

**General**

1. Maximum LF of 24”D adjustable metal shelving, including 2-3 racks for #10 cans, on castors, located on perimeter, with 1st shelf 12” from floor. (Similar to Metromax "Q").

2. Maximum number of 24”D dunnage racks in center of floor. (Similar to Metromax Bowtie 100% resin).

HS16-F-3.6  Furniture, Fixtures & Equip.:

HS16-F-3.7  Instruc. Mat & Equipment:

HS16-F-3.8  Mechanical Criteria:

1. Year-round ventilation is essential.

HS16-F-3.9  Electrical Criteria:

**Power:**

1. One (1) duplex outlet per wall.

**Lighting:**

**Data & Other:**

HS16-F-3.10  Technology Criteria:
G-3. Physical Requirements

HS16-G-3.1 Space(s):

G. Cooler / Freezer.

HS16-G-3.2 Use:

1. Storing cold food items.

HS16-G-3.3 Special Criteria:

1. Cooler approx. 1/3 of total SF, Freezer approx. 2/3 of total SF.
2. Walk-in freezer and cooler should have individual direct access to food preparation area.
3. Locate as close as possible to outside access for food delivery.
4. No horizontal dimension shall be less than 7'-10".
5. Any cooler and / or freezer located outdoors must have masonry cladding and have direct access from food prep area.
6. Freezer and cooler should not share any wall components or mechanical equipment. Each unit needs to operate and/or be removed or maintained without affecting the other unit.

HS16-G-3.4 Finishes and Features:

<table>
<thead>
<tr>
<th>General Notes:</th>
<th>Manufacturer's diamond tread aluminum flooring</th>
</tr>
</thead>
<tbody>
<tr>
<td>Floor:</td>
<td>Manufacturer’s standard</td>
</tr>
<tr>
<td>Floor Transitions:</td>
<td>Embossed aluminum.</td>
</tr>
<tr>
<td>Base:</td>
<td></td>
</tr>
<tr>
<td>Walls:</td>
<td>Embossed aluminum.</td>
</tr>
<tr>
<td>Ceiling:</td>
<td>Manufacturer's standard</td>
</tr>
<tr>
<td>Ceiling Height:</td>
<td></td>
</tr>
<tr>
<td>Doors:</td>
<td>Manufacturer's standard</td>
</tr>
<tr>
<td>Windows:</td>
<td>(none)</td>
</tr>
</tbody>
</table>

HS16-G-3.5 Casework & Special Features:

HS16-G-3.6 Furniture, Fixtures & Equip.:

Contractor provide:

1. Cooler: Maximum LF 18”D rust-proof metal shelving (5'-0" tall), with first shelf 12” from floor (similar to Metromax “Q”). Provide castors.
2. Freezer: Maximum LF 18”D rust-proof metal shelving on perimeter, with first shelf 12” from floor. Provide castors.
3. Freezer: Maximum number of 24”D dunnage racks in center of freezer. (Similar to Metromax “Bowtie” 100% resin).

HS16-G-3.7 Instruc. Mat & Equipment:

HS16-G-3.8 Mechanical Criteria:
1. Compressors should be in close proximity to cooler/freezer for ease of maintenance and ventilation.
2. Cooler temperature: 38°F.
3. Freezer temperature: -10°F.

**HS16-G-3.9 Electrical Criteria:**

- **Power:**

- **Lighting:** 1. Provide 50 foot-candles of illumination. Upgrade standard equipment if required.

- **Data & Other:**

**HS16-G-3.10 Technology Criteria:**
H-3. Physical Requirements

HS16-H-3.1  Space(s):

H. Staff Locker Room / Toilet / W/D.

HS16-H-3.2  Use:

1. Staff changing area.
2. Washing / drying kitchen linens.

HS16-H-3.3  Special Criteria:

2. Locate near food preparation area.
3. Should have visual supervision of entrance from the office.
4. Locate washer / dryer in niche out of circulation path.

HS16-H-3.4  Finishes and Features:

<table>
<thead>
<tr>
<th>General Notes:</th>
<th>Quarry tile, slope to floor drain</th>
</tr>
</thead>
<tbody>
<tr>
<td>Floor: Floor Transitions:</td>
<td>Quarry tile</td>
</tr>
<tr>
<td>Base: Walls:</td>
<td>Painted CMU / gypsum wallboard</td>
</tr>
<tr>
<td>Ceiling: Ceiling Height:</td>
<td></td>
</tr>
<tr>
<td>Doors:</td>
<td></td>
</tr>
<tr>
<td>Windows:</td>
<td>(none)</td>
</tr>
</tbody>
</table>

HS16-H-3.5  Casework & Special Features:

General
1. Seven (7) full height lockers to include shelf and coat rack or hooks to accommodate long coats and personal belongings for each staff member.
2. Two (2) 12”D adjustable open-grid metal shelves above washer and dryer.
3. Toilet Room:
   a. Sanitary napkin disposal.
   b. Toilet paper dispenser, paper towel dispenser.
   c. Mirror, full length, not opposite toilet.
   d. Wall cabinet in toilet room for storage of personal items.
   e. Coat hook on back of door.

HS16-H-3.6  Furniture, Fixtures & Equip.:

Contractor provide

(Locker Area):
2. Dryer – heavy-duty, residential quality. Provide commercial quality dryer if uniforms are to be dried.
HS16-H-3.7  Instruc. Mat & Equipment:

HS16-H-3.8  Mechanical Criteria:
   2. Floor drain.
   3. Toilet and Sink w/hot and cold water in Toilet Rm.
   4. Provide trench area for washer.

HS16-H-3.9  Electrical Criteria:
   
   Power:  
   1. GFI duplex outlet near sink in toilet room.
   2. Coordinate power requirements for washer and dryer.

   Lighting:  

   Data & Other:  

HS16-H-3.10 Technology Criteria:
I-3. Physical Requirements

HS16-I-3.1 Space(s):  
   I. Custodial.

HS16-I-3.2 Use:  
   1. Storage of cleaning supplies used in Child Nutrition areas.

HS16-I-3.3 Special Criteria:

HS16-I-3.4 Finishes and Features:

| General Notes: |  
| Floor: | Quarry tile. Slope floor to floor drain. |
| Floor Transitions: |  
| Base: | Quarry tile |
| Walls: | Epoxy-painted CMU |
| Ceiling: |  
| Ceiling Height: |  
| Doors: |  
| Windows: | (none) |

HS16-I-3.5 Casework & Special Features:

   General  
   1. Mop rack over mop sink.  
   2. One (1) 24”D x 48”W shelf unit, rust – protected metal.

HS16-I-3.6 Furniture, Fixtures & Equip.:

HS16-I-3.7 Instruc. Mat & Equipment:

HS16-A-3.8 Mechanical Criteria:

   1. Hose bibb.  
   2. Mop sink.  
   3. Floor drain.

HS16-I-3.9 Electrical Criteria:

   Power:  
   1. Two (2) GFI quadruplex outlets, grouped for recharging of equipment.

   Lighting:  
   Data & Other:  

HS16-I-3.10 Technology Criteria:
HIGH SCHOOL FOOD PREP/SERVING
SCHEMATIC FLOOR PLAN

NOT TO SCALE
1. General Educational Requirements

HS17-1.1 Objectives
1. To support and maintain school infrastructure.

HS17-1.2 Trends
1. Concern for safely storing and handling chemicals.
2. Impacts of proper maintenance on "sick" or "healthy" buildings.
3. Integration of technology in purchasing and processing work orders.

HS17-1.3 Activities and Enrollment
1. Maintenance of school.
2. Receiving and storing supplies and equipment.
3. Supervision of custodial staff.
4. Computerized record keeping.
2. Space Overview

HS17-2.1 Required Spaces

Reference:

<table>
<thead>
<tr>
<th>Identifier</th>
<th>Space</th>
<th>Quantity</th>
<th>Area Each (SF)</th>
<th>Area Total (SF)</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>General Storage / Receiving / Custodial</td>
<td>1</td>
<td>1,600</td>
<td>1,600</td>
</tr>
<tr>
<td></td>
<td>Lockers</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>B</td>
<td>Toilet</td>
<td>1</td>
<td>56</td>
<td>56</td>
</tr>
<tr>
<td>C</td>
<td>Building Manager Office / Storage</td>
<td>1</td>
<td>120</td>
<td>120</td>
</tr>
<tr>
<td>D</td>
<td>Lawn Equipment Storage</td>
<td>1</td>
<td>500</td>
<td>500</td>
</tr>
</tbody>
</table>

Total 4 2,276

Note: Refer to Section HS21 "Non-Assignable" for Custodial Closets.

HS17-2.2 Design Considerations

1. General Storage/Receiving is adjacent to loading dock, which is shared with Child Nutrition.
2. Custodial Office/Custodial Lockers/Toilet are located within General Storage/Receiving.
3. Lawn Equipment Storage should be near main building for supervision and security. Easy route to playing fields is important. It should be a separate masonry building.
2. Space Overview (continued)

HS17-2.3 Adjacency Diagram:
A-3. Physical Requirements

HS17-A-3.1 Space(s):

A. General Storage / Receiving / Custodial Lockers.

HS17-A-3.2 Use:

1. Receiving and storing for school supplies and equipment.

HS17-A-3.3 Special Criteria:

1. Locate adjacent to loading dock.
2. Receiving area to include break area with round table and chairs, lockers and toilet.

3. Locate shelving on perimeter (except equipment and pallet storage wall) away from major circulation. Open floor area used to sort and stack materials prior to dispersal throughout school.
4. Subdivide room with chain link fencing (probably three sections). Consult owner after final shape of room is determined to sub-divide. One section would include chemicals that we do not want any unauthorized people near. One section would include storage with bare wall (except electrical) so equipment and palletized materials could be placed there.

HS17-A-3.4 Finishes and Features:

<table>
<thead>
<tr>
<th>General Notes:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Floor:</td>
<td>Sealed concrete</td>
</tr>
<tr>
<td>Floor Transitions:</td>
<td></td>
</tr>
<tr>
<td>Base:</td>
<td>Resilient top-set base</td>
</tr>
<tr>
<td>Walls:</td>
<td></td>
</tr>
<tr>
<td>Ceiling:</td>
<td></td>
</tr>
<tr>
<td>Ceiling Height:</td>
<td></td>
</tr>
<tr>
<td>Doors:</td>
<td>Doors to loading dock and corridor:</td>
</tr>
<tr>
<td></td>
<td>Openings to accommodate palletized</td>
</tr>
<tr>
<td></td>
<td>materials. 6'-0&quot; Double door will</td>
</tr>
<tr>
<td></td>
<td>usually meet this requirement.</td>
</tr>
<tr>
<td>Windows:</td>
<td></td>
</tr>
</tbody>
</table>

HS17-A-3.5 Casework & Special Features:

<table>
<thead>
<tr>
<th>General</th>
<th>1. 24&quot;D x 84&quot;H x 16'-0&quot;L-20'-0&quot;L heavy-duty open adjustable shelving.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>2. Ten (10) metal full-length lockers.</td>
</tr>
<tr>
<td></td>
<td>3. One (1) 4'-0&quot; x 4'-0&quot; tackboard located near door into custodial</td>
</tr>
<tr>
<td></td>
<td>office.</td>
</tr>
<tr>
<td></td>
<td>4. Six-gauge chain link cage, lockable, enclosing 200 SF, with 10'-0&quot;</td>
</tr>
<tr>
<td></td>
<td>shelving.</td>
</tr>
</tbody>
</table>

HS17-A-3.6 Furniture, Fixtures & Equip.:

HS17-A-3.7 Instruc. Mat & Equipment:
HS17-A-3.8 Mechanical Criteria:
1. As part of space is used to store cleaning chemicals and for charging equipment batteries, it must be well ventilated.

HS17-A-3.9 Electrical Criteria:

Power: 1. Four (4) duplex outlets minimum per wall.

Lighting:

Data & Other: 1. One (1) 2-port data outlet.

HS17-A-3.10 Technology Criteria:
B.3. Physical Requirements

HS17-B-3.1 Space(s):

B. Toilet.

HS17-B-3.2 Use:

1. Unisex toilet.

HS17-B-3.3 Special Criteria:

1. Locate within General Storage/ Receiving.

HS17-B-3.4 Finishes and Features:

<table>
<thead>
<tr>
<th>General Notes:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Floor:</td>
<td>VCT</td>
</tr>
<tr>
<td>Floor Transitions:</td>
<td></td>
</tr>
<tr>
<td>Base:</td>
<td>Resilient top-set base</td>
</tr>
<tr>
<td>Walls:</td>
<td>Painted CMU / gypsum wallboard</td>
</tr>
<tr>
<td>Ceiling:</td>
<td>Acoustical ceiling panels</td>
</tr>
<tr>
<td>Ceiling Height:</td>
<td>9'-4&quot;</td>
</tr>
<tr>
<td>Doors:</td>
<td>Provide door with privacy lock.</td>
</tr>
<tr>
<td>Windows:</td>
<td></td>
</tr>
</tbody>
</table>

HS17-B-3.5 Casework & Special Features:

General

1. Sanitary napkin disposal.
2. Toilet paper dispenser, soap dispenser, paper towel dispenser.
3. Mirror over sink.
4. Coat hook on back of door.

HS17-B-3.6 Furniture, Fixtures & Equip.:

HS17-B-3.7 Instruc. Mat & Equipment:

HS17-B-3.8 Mechanical Criteria:

1. Provide sink with hot and cold water.
2. Toilet.

HS17-B-3.9 Electrical Criteria:

Power:

1. One (1) GFI duplex outlet near sink.

Lighting:

Data & Other:
HS17-B-3.10 Technology Criteria:
C-3. Physical Requirements

HS17-C-3.1  Space(s):  

**C. Building Manager Office / Storage.**

HS17-C-3.2  Use:  
1. Office for Custodial Services.
2. Storage of high-value parts.
3. Location for communication with central operations by electronic data entry.

HS17-C-3.3  Special Criteria:  
1. Locate at end of General Storage/Receiving closest to main corridor with visual control of storage.

HS17-C-3.4  Finishes and Features:  

<table>
<thead>
<tr>
<th>General Notes:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Floor:</td>
</tr>
<tr>
<td>Floor Transitions:</td>
</tr>
<tr>
<td>Base:</td>
</tr>
<tr>
<td>Walls:</td>
</tr>
<tr>
<td>Ceiling:</td>
</tr>
<tr>
<td>Ceiling Height:</td>
</tr>
<tr>
<td>Doors:</td>
</tr>
<tr>
<td>Windows:</td>
</tr>
</tbody>
</table>

| VCT |
| Resilient top-set base |
| Painted CMU / gypsum wallboard |
| Acoustical ceiling panels |
| 9'-4" |
| Provide door with small view light |
| Provide windows for maximum view into General Storage/Receiving |

HS17-C-3.5  Casework & Special Features:  

**General**  
1. Window blinds at all exterior windows.
2. Coat Hook.

HS17-C-3.6  Furniture, Fixtures & Equip.:  

HS17-C-3.7  Instruc. Mat & Equipment:  

HS17-C-3.8  Mechanical Criteria:  

HS17-C-3.9  Electrical Criteria:  

**Power:**  
1. Two (2) duplex outlets on two long walls, with surge protection on outlets associated with data outlets.
2. One (1) duplex outlet on other two walls.

**Lighting:**  

**Data & Other:**  
1. Two (2) 2-port data outlets.
HS17-C-3.10 Technology Criteria:
D-3. Physical Requirements

HS17-D-3.1  Space(s):

D. Lawn Equipment Storage.

HS17-D-3.2  Use:

1. Storage of supplies and equipment for maintaining grounds.

HS17-D-3.3  Special Criteria:

1. Locate in service courtyard and / or near PE fields.
2. Must be able to drive equipment through the building so no backing up is required.

HS17-D-3.4  Finishes and Features:

<table>
<thead>
<tr>
<th>General Notes:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Floor:</td>
<td>Sealed concrete</td>
</tr>
<tr>
<td>Floor Transitions:</td>
<td></td>
</tr>
<tr>
<td>Base:</td>
<td>Resilient top-set base</td>
</tr>
<tr>
<td>Walls:</td>
<td>Painted CMU</td>
</tr>
<tr>
<td>Ceiling:</td>
<td></td>
</tr>
<tr>
<td>Ceiling Height:</td>
<td></td>
</tr>
<tr>
<td>Doors:</td>
<td>Overhead coiling service door</td>
</tr>
<tr>
<td>Windows:</td>
<td></td>
</tr>
</tbody>
</table>

HS17-D-3.5  Casework & Special Features:

General
1. One (1) 4'-0" x 8'-0" pegboard.
2. Heavy duty adjustable shelving floor to ceiling along one wall.

HS17-D-3.6  Furniture, Fixtures & Equip.:

HS17-D-3.7  Instruc. Mat & Equipment:

HS17-D-3.8  Mechanical Criteria:

1. No heating or cooling.
2. Provide cold water freeze-proof faucet inside building for mixing chemicals and cleaning equipment.
3. Properly ventilate.

HS17-D-3.9  Electrical Criteria:

Power: 1. Two (2) duplex outlets on each wall, except for wall containing overhead service door.

Lighting:

Data & Other:
HS17-D-3.10 Technology Criteria:
1. General Educational Requirements

**HS18-1.1 Objectives**

1. To support the instructional program by teaching students how to access and use information to problem solve.
2. To support faculty by providing access to computers for instruction and management.
3. To support administrative functions and allow easy access of information between school and central office by providing services such as e-mail, SIMS, NCWISE, and work-order processing.

**HS18-1.2 Trends**

1. Total integration of voice/data and video system.
2. Reduced emphasis on computer labs and greater emphasis on classroom computers.
3. Integration of computers into all areas of the facility.
4. High definition TV.
5. Integration of LAN’s and WAN.
6. NCWISE.

**HS18-1.3 Activities and Enrollment**

1. Video-conferencing, locally and nationally as well as worldwide.
2. Interactive video.
3. LAN’s for academic and administrative functions.
4. Link to on-line services.
5. Links to databases.
6. LCD panels.
2. Space Overview

HS18-2.1 Required Spaces

Reference:

<table>
<thead>
<tr>
<th>Identifier</th>
<th>Space</th>
<th>Quantity</th>
<th>Area Each (SF)</th>
<th>Area Total (SF)</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>Head End Room</td>
<td>1</td>
<td>400</td>
<td>400</td>
</tr>
</tbody>
</table>

Total 1 400

HS18-2.2 Design Considerations

1. Central junction of all communications connections: data lines, phone lines, fiber optic lines, etc.
2. Refer to WCPSS Design Guidelines as the basis for wiring and termination standards.
3. Location and access must be secure; position in an interior space near media and/or administration.
5. Plan to install conduit for all voice/data outlets in educational specifications.
6. Additional satellite technology closets are required; size and placement to be determined per project.
2. Space Overview (continued)

HS18-2.3 Adjacency Diagram:
A-3. Physical Requirements

HS18-A-3.1 Space(s):

A. Head End Room.

HS18-A-3.2 Use:

1. Central junction of all communications connections: data lines, phone lines, fiber optic lines, etc.

HS18-A-3.3 Special Criteria:

1. Locate in a secure interior area near media and/or administration.
2. Provide for “security access only”.
3. Prefer no dimension less than 12'-0".

HS18-A-3.4 Finishes and Features:

<table>
<thead>
<tr>
<th>General Notes:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Floor:</td>
<td>VCT</td>
</tr>
<tr>
<td>Floor Transitions:</td>
<td></td>
</tr>
<tr>
<td>Base:</td>
<td>Resilient top-set base</td>
</tr>
<tr>
<td>Walls:</td>
<td>Painted CMU</td>
</tr>
<tr>
<td>Ceiling:</td>
<td>Acoustical ceiling panels</td>
</tr>
<tr>
<td>Ceiling Height:</td>
<td>9'-4&quot; minimum</td>
</tr>
<tr>
<td>Doors:</td>
<td></td>
</tr>
<tr>
<td>Windows:</td>
<td></td>
</tr>
</tbody>
</table>

HS18-A-3.5 Casework & Special Features:

HS18-A-3.6 Furniture, Fixtures & Equip.:

Contractor provide: 1. Refer to Design Guideline Divisions 27 00 00 “Electrical Safety and Security Systems” and 28 00 00 “Technology/Special Systems” for required equipment.

HS18-A-3.7 Instruc. Mat & Equipment:

HS18-A-3.8 Mechanical Criteria:

1. Uninterrupted HVAC for year-round cooling required.
2. Equipment in Head End Room will generate 10,000 BTUs of heat.

HS18-A-3.9 Electrical Criteria:

Power: 1. Provide a minimum of two (2) quad outlets.

Lighting:  

Data & Other: 1. Provide two (2) 2-port data outlets.
HS18-A-3.10  Technology Criteria:
1. General Educational Requirements

**HS20-1.1 Objectives**

1. Accommodate the school's outdoor program.
2. Safely and efficiently manage on-site vehicular and pedestrian traffic.
3. Provide future mobile classroom units.
4. Master plan the school site to provide for future Parks and Recreation upgrade of school facilities for community use.

**HS20-1.2 Trends**

1. Increased community use of school site facilities extended into evenings and weekends.
2. Increased need for on-going physical education and physical activity opportunities due to national childhood obesity epidemic.
3. Lifetime participation in proper nutrition, physical activity and sport.
4. Equal physical education opportunities for all students.
5. Increased awareness of the importance of physical exercise.
6. Partnerships between schools and other public and private institutions.
7. The development of school parks as a mechanism for maximizing scarce recreational resources.
8. Increased awareness of environmental concerns and education.

**HS20-1.3 Activities and Enrollment**

1. On-site school traffic includes: buses, commercial vans and cars transporting students, parents, staff and visitors to and from school, car and bus parking, service and delivery vehicles, and pedestrians entering, exiting and accessing site facilities. This traffic must be managed safely and efficiently so that it supports the school's mission and traffic management does not become a burden to the staff.
2. Outdoor recreational facilities will accommodate the physical education program, field exercises in academic programs such as science and art, unstructured play and social events such as picnics and carnivals. Group sizes will range from school wide events such as field days, to whole class grouping, small groups and individuals.

3. To manage transitional capacity the school system has elected to utilize mobile classroom units. In planning new school construction and in site planning on existing campuses, space should be identified to site six of these units and accommodations made for their future utility hookups.
2. Space Overview

HS20-2.1 Required Spaces

Reference: Unbuildable space such as wetlands, buffers, etc. is not included in SF shown.

<table>
<thead>
<tr>
<th>Identifier</th>
<th>Space</th>
<th>Quantity</th>
<th>Area Each (SF)</th>
<th>Area Total (SF)</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>Football / Soccer / Track / Lacrosse</td>
<td>1</td>
<td>267,540</td>
<td>267,540</td>
</tr>
<tr>
<td>B</td>
<td>Baseball</td>
<td>1</td>
<td>235,225</td>
<td>235,225</td>
</tr>
<tr>
<td>C</td>
<td>Softball</td>
<td>1</td>
<td>140,625</td>
<td>140,625</td>
</tr>
<tr>
<td>D</td>
<td>Playing Field</td>
<td>2</td>
<td>102,225</td>
<td>204,450</td>
</tr>
<tr>
<td>E</td>
<td>Sand Volleyball (two courts)</td>
<td>1</td>
<td>38,485</td>
<td>38,485</td>
</tr>
<tr>
<td>F</td>
<td>Tennis</td>
<td>1</td>
<td>92,125</td>
<td>92,125</td>
</tr>
<tr>
<td>G</td>
<td>Service Court / Access Drive / Dumpster</td>
<td>1</td>
<td>8,500</td>
<td>8,500</td>
</tr>
<tr>
<td>H</td>
<td>Bus Loop / Parking / Staging</td>
<td>1</td>
<td>188,700</td>
<td>188,700</td>
</tr>
<tr>
<td>I</td>
<td>Car Parking</td>
<td>1</td>
<td>239,847</td>
<td>239,847</td>
</tr>
<tr>
<td>J</td>
<td>Car Stacking / Access</td>
<td>1</td>
<td>66,164</td>
<td>66,164</td>
</tr>
<tr>
<td>K</td>
<td>Pedestrian Circulation</td>
<td>1</td>
<td>48,000</td>
<td>48,000</td>
</tr>
<tr>
<td>L</td>
<td>Greenhouse</td>
<td>1</td>
<td>1,152</td>
<td>1,152</td>
</tr>
<tr>
<td>M</td>
<td>Exterior Agricultural Storage</td>
<td>1</td>
<td>100</td>
<td>100</td>
</tr>
<tr>
<td>N</td>
<td>Art Patio</td>
<td>1</td>
<td>900</td>
<td>900</td>
</tr>
<tr>
<td>O</td>
<td>Mobile Classroom Area</td>
<td>1</td>
<td>15,000</td>
<td>15,000</td>
</tr>
<tr>
<td></td>
<td>Total</td>
<td>12</td>
<td>1,546,813</td>
<td></td>
</tr>
</tbody>
</table>

HS20-2.2 Design Considerations

1. The outdoor playing fields shall accommodate the physical education program, athletics, and outdoor learning activities.
2. As sites are identified, the opportunity for cooperative efforts such as buying adjacent land and master planning together with community groups should be explored.
3. In developing the Campus Master Plan, consideration should be given to:
   a. Future enhancements such as amphitheaters, picnic tables, nature trails, gardens for vegetables, wildflowers, and butterflies; wildlife habitats, sundials, etc. Discuss with WCPSS planner.
   b. Fire lane with access to all areas of the campus: Fire truck access to buildings must not be compromised during drop-off and pick-up times. Therefore, provide a 20’ access way to be maintained at critical points so parents’ vehicle queue will not interfere with emergency access to the building.
   c. Security of life and property when designing the exterior lighting system. Consider placement of utility stub outs for lights which may be installed by community user groups. Provide sufficient lighting for parking areas, coordinate with standards recommended from utility company and in compliance with local regulations.
d. Design with consideration of ways in which the community may use and upgrade the facilities. For schools these improvements may include stub outs for athletic field lighting (include baseball and softball fields). For schools/parks these improvements may include public restrooms/concession area/storage, spectator control access/storage, score boards & warm-up areas.

e. Auxiliary Athletic Support – refer to Section HS-12 "Auxiliary Athletics".

4. Consider context and surrounding community circulation when planning site.

5. Vehicular and pedestrian traffic should be separated.

6. Site Master Plan should include covered walkways to bus and/or car loading/unloading areas.

7. Coordinate traffic pattern so that students will not have to cross driveways or parking areas in route to outdoor play fields.

8. Separate vehicular traffic as much as site and local governing bodies will allow. Allow for separate entrances/exits for bus traffic, car queuing and car parking. If separate roadway accesses are not possible separate traffic as soon as feasible on-site.

9. The daily school schedule for arrival and dismissal, and occasional events, including large group assemblies and special events should be considered in the design of traffic patterns.

10. Make all outdoor facilities ADA compliant.

11. Allow for sufficient buffer space for safety when siting outdoor playing fields.

12. Preservation of the natural environment and outdoor spaces for science and arts is desirable. Consider making provisions for shade and potential assembly areas.

13. Design to allow for future upgrades if possible.

14. Consider safety and social zones of activity:
   a. Parking lots should be distant from foul ball territory.
   b. Screen noise producing areas from instructional areas.

15. Campus Master Plan should indicate fire lane with access to all areas of the campus. This shall not be a paved road. It is critical that the school building not be encircled by vehicle circulation.

16. Determine if site will follow urban, suburban or rural development standards, as these may have different requirements.

17. In planning fields include fencing such as backstops, outfield, dugouts, temporary fencing with the thought of providing multiple use of athletic fields.

18. See WCPSS Design Guidelines for irrigation requirements.

19. Follow standards published by National Federation of State High School Associates for guide to proper athletic field orientation, sizes and markings:
   a. National Federation of State High School Associations, PO Box 361246, Indianapolis, IN 46236-5324 (1-800-776-3462).
   b. Also available from: North Carolina High School Athletic Association, Box 3216, Chapel Hill, NC 27515 (919-962-2345).

20. All sidewalks shall be 6'-0" in width unless noted otherwise.

21. Provide trash receptacles at entrances, play areas, courtyards, and parking lots. Provide Leisure Craft #32DB (32 gallon with liner and dome bonnet) or equal.

22. Provide exterior benches and tables, locations to be determined by WCPSS.
23. When arriving or departing a school site, vehicular traffic and pedestrian traffic must be managed safely and efficiently, and not become a burden to the school’s staff to oversee. Students may arrive via cars, vans, special transportation, buses, bikes, or on foot. In accordance with the WCPSS Student Wellness Policy (6140), WCPSS encourages students to walk or bike to school wherever and whenever possible. This contributes to the health of our students, and also to the health of our communities. To this end, WCPSS encourages our design consultants to pay particular attention to:

   a. Sidewalks – meet municipal requirements, and provide a safe path along school road frontages and along every feasible side of property to minimize walking distances and connect to adjacent properties, and through parking areas to the school building entrance, limiting the number of driveways that students have to cross on foot to enter the school site. Consider connections to current/planned adjacent sidewalks, transit stops, or properties, including neighborhoods.

   b. Crosswalks – provide well-maintained pavement markings; high-visibility transverse markings or raised/textured crosswalks should be considered where there is a need to increase the visibility of students crossing or reduce vehicle speeds.

   c. Pedestrian Signals – provide push button pedestrian signals with countdown indicators, either in conjunction with a new or existing signal, or a dedicated pedestrian crossing.

   d. Signage and Markings – designate school safety zones dedicated on all adjacent streets, and especially at key transition and crossing points.

   e. Safe Routes – provide information about pathways, crossings, and known barriers for areas within a half-mile of the school or on known/anticipated popular routes for students walking or biking to or from school.

   f. Situation–specific Radii – corner radii at car-only entry points should be minimized to reduce vehicle speeds and pedestrian crossing distances at school driveway entrances/exits. Curb returns shall comply with the Americans with Disabilities Act and associated guidance.

   g. Path to Entrance – avoid on-campus paths that have to cross loading/unloading (carpool, service, etc.), driveways, or short-term parking. Design to increase visibility, lighting, and delineation of public/private space transitional areas, to clearly designate entry routes to, and ingress points at, the school.

   h. Bicycle Access and Bicycle Parking – meet local zoning codes. Provide safe paths along school road frontages and from adjacent greenways with safe connections to bike racks. Bicycle racks should be provided within 50 ft of the school entrance, clearly visible, secure, and accessible from two sides.

   i. Site Selection – when selecting sites for new schools, prioritize sites that provide opportunities for students to safely walk or bike to school. Also consider sites in which the adjacent road/highway speed limit can be adjusted to accommodate the enforceable and safe movement of students to and from school, while facilitating conscientious flow of traffic through the school zone (as per GS 20-141.1).

   j. Future land use and traffic projections – in rural or transitioning areas, develop site plans that reflect future land uses and where appropriate, develop bike/pedestrian facilities to accommodate future needs. For example, in rural areas, consider onsite mobility and provide for sidewalks/bike paths onsite even if walking/biking is not feasible in the short term. If funding is not available for these facilities at the time of construction, include future facilities in site plans and conduct grading work during school construction.
2. Space Overview (continued)

HS20-2.3  Adjacency Diagram:

(Site Specific)
A-3. Physical Requirements

HS20-A-3.1 Space(s):

**A. Football / Soccer / Track / Lacrosse.**

HS20-A-3.2 Use:

1. The field will be used for soccer, field events, lacrosse and football games. Participants will include the teams and the marching band. In addition to playing area, space for teams will be provided along sidelines.
2. The track shall be used for running events. Site field events to ensure best use of facility and safety of participants and spectators.

HS20-A-3.3 Special Criteria:

1. Provide a 120,000 SF (approximately) oval area to include a 160’ x 360’ layout for football and a 225’ x 360’ layout for soccer.
2. Provide a 400 meter track surrounding the playing field, with a minimum of 8 lanes.

3. Master plan to include future bleachers, concession stand, ticket booth, etc. See also Section HS-12 "Auxiliary Athletics".
4. The football/soccer/lacrosse field should be oriented as closely as possible along a NW/SE axis.
5. The track shall be banked and approximately oval with two straight runs and two semi-circular or curved ends. The length of the straight sections and the curves shall be equal. A curb 2” at grade shall mark the inner limits of the track. The curb shall be cut at regular interval to allow water to flow off the track.
6. Rubberized track with markings for the following running events:
   a. 100-meter: straight start.
   b. 200-meter: straight start.
   c. 400-meter: curved start.
   d. 800-meter: curved start.
   e. 1600-meter: curved start.
   f. 3200-meter: waterfall start.
   g. 4 x 100 meter relay: staggered start plus exchange zone.
   h. 4 x 200 meter relay: staggered start plus exchange zone.
   i. 1600-meter relay: staggered start plus exchange zone.
   j. 3200-meter relay: waterfall start plus exchange zone.
   k. 100-meter hurdles (women): straight start.
   l. 110-meter hurdles (men): straight start on apron.
   m. 300-meter intermediate hurdles (women & men): one-curve staggered start.
7. Pavement with markings for the following field events:
   a. High jump: rubberized apron. Note this cannot be combined with the long jump or
      triple jump.
   b. Long jump: rubberized runway with sandpit. Note this cannot be combined with the
      high jump or triple jump.
   c. Triple jump: rubberized runways with sandpit. Note this cannot be combined with
      the high jump or long jump.
   d. Pole Vault: rubberized runway with planting box, pole vault standards and landing
      pad. Consider proximity of main field fencing (for landing safety) when locating this
      event.
   e. Shot put: concrete putting circle. Landing location cannot be in the main field area.
   
   f. Discus: concrete throwing circle plus cage. Landing location cannot be in the main
      field area.
8. Consider visitor/spectator locations when locating landings of shot put and discus.
9. Consider field drainage and slopes when locating all sandpits to prevent pits from
   collecting rainwater.
10. The field surface shall be graded smooth to provide a turtleback crown sloping to
    sidelines. Catch basins will be provided for runoff outside of activity areas. The turf is to
    be seeded or sodded as specified in the WCPSS Design Guidelines.
11. The track shall be surfaced with a rubberized material and striped as required by
    NCHSAA.

**HS20-A-3.4** Finishes and Features:

**HS20-A-3.5** Casework & Special Features:

**HS20-A-3.6** Furniture, Fixtures & Equip.:

1. Refer to HS-20 Appendix 2.

**HS20-A-3.7** Instruc. Mat & Equipment:

**HS20-A-3.8** Mechanical Criteria:

1. Provided underground drainage for playing field. Locate drains and slopes so that
   they do not pose a safety hazard for players.

**HS20-A-3.9** Electrical Criteria:

   **Power:**

   **Lighting:**

   **Data & Other:**

**HS20-A-3.10** Technology Criteria:
B-3. Physical Requirements

HS20-B-3.1 Space(s):

B. Baseball.

HS20-B-3.2 Use:

1. Baseball competition.

HS20-B-3.3 Special Criteria:

1. Provide playing field consistent with NCHSAA and National Federation guidelines.
2. Provide 6’ x 0” high perimeter fencing and 12’ x 0” high backstop fencing with 6’ x 0” foul ball screen set at 45 degrees on top.
3. Provide aluminum bleachers consisting of two (2) sections of 5 rows by 21 feet.
4. Provide fencing in the potential dug out area.
5. Provide dugouts for both home and visiting teams. Dugout structure area shall be 40'-0" long x 8'-0" width, with concrete slab level with playing field, with CMU walls and standing-seam metal roof. Roofing shall slope away from field, with minimum interior height of 8'-0". Provide concrete pad 6’ in front of dugout structure to fence line (not covered by roof). Fencing shall drop from full height to 4'-0" above grade in front of dugout area. Provide two (2) 15’ long aluminum benches with backs within each dugout structure. Home team dugout structure shall include 6’ x 8’ minimum storage closet on outfield end, with door access from inside dugout. Future shelving may be added to interior walls of dugout structure by school.

HS20-B-3.4 Finishes and Features:

HS20-B-3.5 Casework & Special Features:

HS20-B-3.6 Furniture, Fixtures & Equip.:

1. Refer to HS-20 Appendix 2.

HS20-B-3.7 Instruc. Mat & Equipment:

HS20-B-3.8 Mechanical Criteria:

1. Address the issue of future uses of water utilities.

HS20-B-3.9 Electrical Criteria:

Power:

1. Address the issue of future uses of electrical utilities.
2. Provide power as required for scoreboards.

Lighting:

Data & Other:

HS20-B-3.10 Technology Criteria:
C-3. Physical Requirements

HS20-C-3.1 Space(s):

C. Softball.

HS20-C-3.2 Use:

1. Softball competition.
2. PE classes.

HS20-C-3.3 Special Criteria:

1. Provide playing field for fast-pitched play consistent with NCHSAA guidelines.
2. Provide 6’ x 0” high perimeter fencing and 12’ x 0” high fencing with 6’ x 0” foul ball screen set at 45 degrees on top.
3. Provide aluminum bleachers consisting of two (2) sections of 5 rows by 21 feet.
4. Provide fencing in the potential dug out area.
5. Provide dugouts for both home and visiting teams. Dugout structure area shall be 40'-0" long x 8'-0" width, with concrete slab level with playing field, with CMU walls and standing-seam metal roof. Roofing shall slope away from field, with minimum interior height of 8'-0". Provide concrete pad 6’ in front of dugout structure to fence line (not covered by roof). Fencing shall drop from full height to 4'-0" above grade in front of dugout area. Provide two (2) 15’ long aluminum benches with backs within each dugout structure. Home team dugout structure shall include 6’ x 8’ minimum storage closet on outfield end, with door access from inside dugout. Future shelving may be added to interior walls of dugout structure by school.

HS20-C-3.4 Finishes and Features:

HS20-C-3.5 Casework & Special Features:

HS20-C-3.6 Furniture, Fixtures & Equip.:

1. Refer to HS-20 Appendix 2.

HS20-C-3.7 Instruc. Mat & Equipment:

HS20-C-3.8 Mechanical Criteria:

1. Address the issue of future uses of water utilities.

HS20-C-3.9 Electrical Criteria:

Power:

1. Address the issue of future uses of electrical utilities.
2. Provide power as required for scoreboards.

Lighting:

Data & Other:

HS20-C-3.10 Technology Criteria:
D-3. Physical Requirements

HS20-D-3.1 Space(s):
   D. Playing Field.

HS20-D-3.2 Use:
   1. PE Classes.

HS20-D-3.3 Special Criteria:
   1. Each unmarked grassy playing field to be approximately 160' x 360'.

HS20-D-3.4 Finishes and Features:

HS20-D-3.5 Casework & Special Features:

HS20-D-3.6 Furniture, Fixtures & Equip.:
   1. Refer to HS-20 Appendix 2.

HS20-D-3.7 Instruc. Mat & Equipment:

HS20-D-3.8 Mechanical Criteria:

HS20-D-3.9 Electrical Criteria:

   Power:

   Lighting:

   Data & Other:

HS20-D-3.10 Technology Criteria:
E-3. Physical Requirements

HS20-E-3.1 Space(s):

E. Sand Volleyball.

HS20-E-3.2 Use:

1. PE classes.
2. Use by neighborhood children should be anticipated.

HS20-E-3.3 Special Criteria:

1. Provide two (2) full sand volleyball courts with outdoor volleyball standards.
2. Courts should be surrounded by a 10’ high chain link fence, with a drive gate in addition to the main pedestrian entrance.

HS20-E-3.4 Finishes and Features:

HS20-E-3.5 Casework & Special Features:

HS20-E-3.6 Furniture, Fixtures & Equip.:

1. Refer to HS-20 Appendix 2.

HS20-E-3.7 Instruc. Mat & Equipment:

HS20-E-3.8 Mechanical Criteria:

HS20-E-3.9 Electrical Criteria:

Power:

Lighting:

Data & Other:

HS20-E-3.10 Technology Criteria:
F-3. Physical Requirements

HS20-F-3.1 Space(s):

F. Tennis.

HS20-F-3.2 Use:
1. Athletic competition.
2. PE classes.

HS20-F-3.3 Special Criteria:
1. Provide six (6) full tennis courts on a paved surface with markings and permanent nets, and fencing.

HS20-F-3.4 Finishes and Features:

HS20-F-3.5 Casework & Special Features:

HS20-F-3.6 Furniture, Fixtures & Equip.:
1. Refer to HS-20 Appendix 2.

HS20-F-3.7 Instruc. Mat & Equipment:

HS20-F-3.8 Mechanical Criteria:

HS20-F-3.9 Electrical Criteria:

Power:

Lighting:

Data & Other:

HS20-F-3.10 Technology Criteria:
G-3. Physical Requirements

HS20-G-3.1  Space(s):

G. Service Court / Access Drive / Dumpster.

HS20-G-3.2  Use:

1. Area is for dumpster(s), recycling igloos and access for vehicles delivering school and cafeteria supplies.

HS20-G-3.3  Special Criteria:

1. Locate in close proximity to the cafeteria, central receiving and loading dock.
2. Site or shield so that a visual screen is created. Design with consideration for the elevation of the loading dock and the turning radii of delivery and disposal vehicles.
3. Configuration should allow for vehicles to pick-up and deliver without blocking traffic.
4. Parking spaces for cafeteria staff should be included in this area.

HS20-G-3.4  Finishes and Features:

HS20-G-3.5  Casework & Special Features:

HS20-G-3.6  Furniture, Fixtures & Equip.:

HS20-G-3.7  Instruc. Mat & Equipment:

HS20-G-3.8  Mechanical Criteria:

HS20-G-3.9  Electrical Criteria:

   Power:

   Lighting:

   Data & Other:

HS20-G-3.10  Technology Criteria:
H-3. Physical Requirements

HS20-H-3.1 Space(s):

H. Bus Loop / Parking / Staging.

HS20-H-3.2 Use:

1. To allow for the entry/exit and the staging of up to 37 buses as they drop-off and pick-up students.
2. Area may also function as limited bus parking for 20 buses and driver parking. County-wide parking is planned to be accommodated at satellite transportation centers.

HS20-H-3.3 Special Criteria:

1. A minimum of one accessible entrance into the building complying with the ADA and NCSBC shall be protected from the weather by a canopy or roof overhang/extension.
2. The designated loading zone shall be a minimum of 144 inches wide by 600 inches (12 ft x 50 ft) long clear floor area shall be provided adjacent to the bus pull-up space with the long dimension parallel to the vehicle direction of travel.
3. Locate in close proximity to the main entrance, preferably near large assembly area within school building and, as a second priority, outdoor play areas.
4. WCPSS utilizes buses which have a capacity of 56-66 students. These are approximately 7 1/2' x 32'. Exceptional children are transported in buses which are 7 1/2'- 0" x 26'-0". Design with consideration for the turning radii of buses, so that buses can discharge and pick up students without students having to cross roadway and so that buses will never have to back up.
5. Bus spaces shall be 15' W x 45' L.
6. Evaluate angled versus 90-degree parking for buses based on site constraints.
7. Provide 5’ x 20’ canopy near the bus drop-off point, ADA compliant.
8. Designer shall check all bus circulation paths to ensure required bus turning and lane clearances are maintained without causing conflicts with curbs, other traffic lanes, or other obstacles. Designers shall utilize "Autoturn" or similar software.

HS20-H-3.4 Finishes and Features:

HS20-H-3.5 Casework & Special Features:

HS20-H-3.6 Furniture, Fixtures & Equip.:

HS20-H-3.7 Instruc. Mat & Equipment:

HS20-H-3.8 Mechanical Criteria:

HS20-H-3.9 Electrical Criteria:

Power:
Lighting:

Data & Other: 1. Provide secured intercom access in a lockable box at bus loading area.

HS20-H-3.10 Technology Criteria:
I-3. Physical Requirements

HS20-I-3.1 Space(s):

I. Car Parking.

HS20-I-3.2 Use:

1. Car parking supports staff, faculty and visitors.
2. For a 2,350 student core capacity school, allow for 556 students, 221 staff and 20 visitor parking spaces. Note municipality parking requirements may vary from WCPSS requirements. When this occurs, further team discussion is necessary.

HS20-I-3.3 Special Criteria:

1. Separate car parking from bus traffic and car drop-off/pick-up.
2. Car drop-off/pick-up should not interfere with traffic flow to car parking.
3. Locate student and staff/visitor parking at the front of the building to promote and identify the front entrance as well as for visual surveillance from administration.
4. Parking should also be convenient to media center, gymnasium and auditorium for events after regular school hours.
5. Consecutively number all parking spaces. Also, mark visitor spaces, six reserved spaces, and handicapped spaces.
6. Locate 6-8 parking spaces near service court for use by child nutrition.

HS20-I-3.4 Finishes and Features:

HS20-I-3.5 Casework & Special Features:

HS20-I-3.6 Furniture, Fixtures & Equip.:

HS20-I-3.7 Instruc. Mat & Equipment:

HS20-I-3.8 Mechanical Criteria:

HS20-I-3.9 Electrical Criteria:

Power:

Lighting: 1. Provide sufficient lighting for parking areas; coordinate with standards recommended from utility company and in compliance with local regulations. Lights are to be provided by the utility company.

Data & Other:

HS20-I-3.10 Technology Criteria:
J.3. Physical Requirements

HS20-J-3.1 Space(s):

J. Car Stacking / Access.

HS20-J-3.2 Use:

1. To safely discharge and pick-up students.
2. Plan to accommodate 139 parent cars for drop-off/pick-up.

HS20-J-3.3 Special Criteria:

1. Verify stacking requirements with local municipality and NCDOT.
2. A minimum of one accessible entrance into the building complying with the ADA and NCSBC shall be protected from the weather by a canopy or roof overhang/extension.
3. The designated loading zone shall be a 60 inch wide by 240 inch (5 ft x 20 ft) long minimum clear floor area adjacent to the vehicle pull-up space with the long dimension parallel to the vehicle direction of travel, ADA compliant.
4. Provide traffic-calming measures at car stacking areas.
5. Provide 5’ x 20’ canopy at the parent line drop-off point.

HS20-J-3.4 Finishes and Features:

HS20-J-3.5 Casework & Special Features:

HS20-J-3.6 Furniture, Fixtures & Equip.:

HS20-J-3.7 Instruc. Mat & Equipment:

HS20-J-3.8 Mechanical Criteria:

HS20-J-3.9 Electrical Criteria:

Power:

Lighting:

Data & Other: 1. Provide secured intercom access in a lockable box at carpool loading area.

HS20-J-3.10 Technology Criteria:
K-3. Physical Requirements

HS20-K-3.1 Space(s):

K. Pedestrian Circulation.

HS20-K-3.2 Use:

1. To allow for the passage of pedestrians to and from the parking/access areas into the school and from the indoor facilities and mobile classrooms to the outdoor facilities.
2. Walkways shall be provided where anticipated foot traffic would destroy vegetation.

HS20-K-3.3 Special Criteria:

1. Walkways should be designed so that all the site facilities are handicapped accessible.
2. Allow for a 10'-0" minimum width of pedestrian walkway at bus staging.
3. Graded grassy paths are to be provided to access playing fields. Grade to 7'-0" width for maintenance access to fields.

HS20-K-3.4 Finishes and Features:

HS20-K-3.5 Casework & Special Features:

HS20-K-3.6 Furniture, Fixtures & Equip.:

HS20-K-3.7 Instruc. Mat & Equipment:

HS20-K-3.8 Mechanical Criteria:

HS20-K-3.9 Electrical Criteria:

   Power:

   Lighting:

   Data & Other:

HS20-K-3.10 Technology Criteria:
L-3. Physical Requirements

HS20-L-3.1 Space(s):

   L. Greenhouse.

HS20-L-3.2 Use:

   1. Provide location for future greenhouse for Agricultural Education.

HS20-L-3.3 Special Criteria:

   1. See Section HS-9.04 "Agricultural Education" and WCPSS Design Guideline Section 13 34 13 "Greenhouses" for size and design.

HS20-L-3.4 Finishes and Features:

HS20-L-3.5 Casework & Special Features:

HS20-L-3.6 Furniture, Fixtures & Equip.:

HS20-L-3.7 Instruc. Mat & Equipment:

HS20-L-3.8 Mechanical Criteria:

HS20-L-3.9 Electrical Criteria:

   Power:

   Lighting:

   Data & Other:

HS20-L-3.10 Technology Criteria:
M-3. Physical Requirements

HS20-M-3.1 Space(s):

- **M. Exterior Agricultural Storage.**

HS20-M-3.2 Use:

1. Provide location for future exterior agricultural storage room.

HS20-M-3.3 Special Criteria:

1. See Section HS-9.04 "Agricultural Education" for design criteria.

HS20-M-3.4 Finishes and Features:

HS20-M-3.5 Casework & Special Features:

HS20-M-3.6 Furniture, Fixtures & Equip.:

HS20-M-3.7 Instruc. Mat & Equipment:

HS20-M-3.8 Mechanical Criteria:

HS20-M-3.9 Electrical Criteria:

- **Power:**

- **Lighting:**

- **Data & Other:**

HS20-M-3.10 Technology Criteria:
N-3. Physical Requirements

HS20-N-3.1 Space(s):
   **N. Art Patio.**

HS20-N-3.2 Use:
   1. Outdoor classes and projects.

HS20-N-3.3 Special Criteria:
   1. Direct access to Art Rooms.
   2. Provide shade if possible.
   3. Landscaping preferred.

HS20-N-3.4 Finishes and Features:

| General Notes: |  
| Floor: | Concrete |
| Floor Transitions: |  
| Base: |  
| Walls: |  
| Ceiling: |  
| Ceiling Height: |  
| Doors: | (4'-0" wide door to Art Rooms) |
| Windows: |  

HS20-N-3.5 Casework & Special Features:

HS20-N-3.6 Furniture, Fixtures & Equip.:  

HS20-N-3.7 Instruc. Mat & Equipment:

HS20-N-3.8 Mechanical Criteria:
   1. Provide hsoe bibb.

HS20-N-3.9 Electrical Criteria:
   
   Power: 1. One (1) weatherproof duplex outlet.

   Lighting:  

   Data & Other:  

HS20-N-3.10 Technology Criteria:
O-3. Physical Requirements

HS20-O-3.1 Space(s):  

O. Mobile Classroom Area.

HS20-O-3.2 Use:  

1. To provide location for mobile classroom units so that they will function as an integral part of the campus.

HS20-O-3.3 Special Criteria:  

1. Provide an approximately square area to accommodate six (6) mobile classrooms. See HS-20 Appendix 1.  
2. Note the dimensions of the most recently purchased single models are 24'-0” x 40'-0” (20'-0” between mobiles and 20'-0” off the building). However, the system still owns older units which will differ in size. In planning allow for additional area around units for ramps and stairs.  
3. Locate on relatively flat, open space free of trees and other obstacles.  
4. In identifying the location, consideration should be given to proximity of grouped toilets and other core facilities such as media center, student support services and cafeteria.  
5. Relative ease of transporting the units to and from the site is also important. Site should be buffered from vehicular traffic and students traveling to and from main school building to mobile classrooms should not cross vehicular traffic.  
6. The aesthetic impact on the school campus should be considered.  
7. Programmed areas should not be used as sites for mobile classrooms.

HS20-O-3.4 Finishes and Features:  

HS20-O-3.5 Casework & Special Features:  

HS20-O-3.6 Furniture, Fixtures & Equip.:  

HS20-O-3.7 Instruc. Mat & Equipment:  

HS20-O-3.8 Mechanical Criteria:  

HS20-O-3.9 Electrical Criteria:  

Power:  

Lighting:  

Data & Other:  

1. Conduit: For future electrical connection provide underground conduit and stub ups from nearest power panel in main building to the mobile classroom site. The power panel should be designed with the required extra capacity. Future connections for MATV and intercom should be provided.
HS20-O-3.10  Technology Criteria:
1. General Educational Requirements

HS21-1.1 Objectives

1. To support and maintain school infrastructure.

HS21-1.2 Trends

HS21-1.3 Activities and Enrollment

1. Accessory spaces required for the building to function.
2. Space Overview

HS21-2.1 Required Spaces

Reference: (Quantities of spaces and areas required vary depending on individual school layout).

<table>
<thead>
<tr>
<th>Identifier</th>
<th>Space</th>
<th>Quantity</th>
<th>Area Each (SF)</th>
<th>Area Total (SF)</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>Corridors, Lobbies</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>B</td>
<td>Group Toilets</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>C</td>
<td>Stairways</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>D</td>
<td>Elevators</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>E</td>
<td>Mechanical Rooms</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>F</td>
<td>Custodial Closets</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>G</td>
<td>Loading Dock / Can Wash</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Total: 0

0

HS21-2.2 Design Considerations
2. Space Overview (continued)

HS21-2.3 Adjacency Diagram:

(none)
A-3. Physical Requirements

HS21-A-3.1 Space(s):

A. Corridors, Lobbies.

HS21-A-3.2 Use:

1. Horizontal circulation.

HS21-A-3.3 Special Criteria:

1. Minimum 8'-0" clear width (allow extra width for lockers, if provided), or as required by building code.
2. Provide appropriate lobbies at entrances and adjacent to gyms, theatres, etc.
3. Refer also to "Facility Guidelines" by the N.C. Department of Public Instruction.

HS21-A-3.4 Finishes and Features:

<table>
<thead>
<tr>
<th>General Notes:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Floor: Durable materials: Terrazo. Sealed Concrete, Linoleum, VCT</td>
</tr>
<tr>
<td>Floor Transitions:</td>
</tr>
<tr>
<td>Base: Resilient top-set base</td>
</tr>
<tr>
<td>Walls: Durable materials: Painted CMU, High-Impact GWB,</td>
</tr>
<tr>
<td>Ceiling: Acoustical ceiling panels or gypsum wallboard</td>
</tr>
<tr>
<td>Ceiling Height: 9'-4&quot; minimum</td>
</tr>
<tr>
<td>Doors: Provide automatic door operators at main entrance doors.</td>
</tr>
<tr>
<td>Windows:</td>
</tr>
</tbody>
</table>

HS21-A-3.5 Casework & Special Features:

General 1. 1,200 Student Lockers.

HS21-A-3.6 Furniture, Fixtures & Equip.:

Contractor provide: 1. Display cases, built-in seating, etc. as noted elsewhere in these guidelines.
2. Provide lockable trophy case in Main Lobby.
3. Continuous tack strips, generally at 54" A.F.F.

HS21-A-3.7 Instruc. Mat & Equipment:

HS21-A-3.8 Mechanical Criteria:

1. Provide ventilation.
HS21-A-3.9 Electrical Criteria:

**Power:**
1. One (1) duplex outlet every 40 linear feet.
2. In main lobby, provide power and conduit for TV.

**Lighting:**

**Data & Other:**
1. 40” wall-mounted TV for main lobby.

HS21-A-3.10 Technology Criteria:
B-3. Physical Requirements

HS21-B-3.1 Space(s):

B. Group Toilets.

HS21-B-3.2 Use:

1. Will be used by students, as well as visitors to the school.

HS21-B-3.3 Special Criteria:

1. Quantity and size to be determined by building code.
2. Locate in convenient, but not prominent location(s).

HS21-B-3.4 Finishes and Features:

<table>
<thead>
<tr>
<th>General Notes:</th>
<th>Toilet partitions are to be polymer resin or natural stone, not laminate or metal.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Floor:</td>
<td>Ceramic tile, terrazzo, sealed concrete</td>
</tr>
<tr>
<td>Floor Transitions:</td>
<td></td>
</tr>
<tr>
<td>Base:</td>
<td>Ceramic Tile</td>
</tr>
<tr>
<td>Walls:</td>
<td>Epoxy-painted CMU</td>
</tr>
<tr>
<td>Ceiling:</td>
<td>Painted gypsum wallboard</td>
</tr>
<tr>
<td>Ceiling Height:</td>
<td>9'-4&quot;</td>
</tr>
<tr>
<td>Doors:</td>
<td>Generally do not provide doors. Control sight lines with partition arrangement.</td>
</tr>
<tr>
<td>Windows:</td>
<td>(none)</td>
</tr>
</tbody>
</table>

HS21-B-3.5 Casework & Special Features:

General

1. Mirrors.
2. Paper towel dispensers, trash receptacles, toilet paper dispensers (including handicapped-accessible), soap dispensers, etc.

HS21-B-3.6 Furniture, Fixtures & Equip.:

HS21-B-3.7 Instruc. Mat & Equipment:

HS21-B-3.8 Mechanical Criteria:

1. One (1) hose bibb in each group toilet.
2. Sinks with hot and cold water.
3. Toilets and urinals.
4. Floor Drain(s).
HS21-B-3.9 Electrical Criteria:

**Power:**
1. One (1) duplex outlet (GFCI) per room.

**Lighting:**

**Data & Other:**

HS21-B-3.10 Technology Criteria:
C-3. Physical Requirements

HS21-C-3.1 Space(s):

C. Stairways.

HS21-C-3.2 Use:

1. Vertical circulation.

HS21-C-3.3 Special Criteria:

1. Size and capacity as required by building code.

HS21-C-3.4 Finishes and Features:

<table>
<thead>
<tr>
<th>General Notes:</th>
<th>Extruded or cast metal stair nosings with abrasive strips (do not use applied rubber or vinyl treads)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Floor:</td>
<td>Durable materials: Terrazzo, sealed concrete, linoleum, VCT</td>
</tr>
<tr>
<td>Floor Transitions:</td>
<td></td>
</tr>
<tr>
<td>Base:</td>
<td>Resilient top-set base at floor landings unless stringers extend around shaft</td>
</tr>
<tr>
<td>Walls:</td>
<td>Durable materials: Painted CMU, Impact-resistant GWB</td>
</tr>
<tr>
<td>Ceiling:</td>
<td>Acoustical ceiling panels or gypsum wallboard</td>
</tr>
<tr>
<td>Ceiling Height:</td>
<td></td>
</tr>
<tr>
<td>Doors:</td>
<td></td>
</tr>
<tr>
<td>Windows:</td>
<td></td>
</tr>
</tbody>
</table>

HS21-C-3.5 Casework & Special Features:

HS21-C-3.6 Furniture, Fixtures & Equip.:

HS21-C-3.7 Instruc. Mat & Equipment:

HS21-C-3.8 Mechanical Criteria:

HS21-C-3.9 Electrical Criteria:

Power: 1. One (1) duplex outlet at each floor level.

Lighting:

Data & Other:

HS21-C-3.10 Technology Criteria:
D.3. Physical Requirements

HS21-D-3.1 Space(s):

D. Elevators.

HS21-D-3.2 Use:

1. Vertical circulation.
2. Freight and furniture handling.
3. Consult with Owner for specific elevator operations: keying, floor lockouts, etc.

HS21-D-3.3 Special Criteria:

1. Refer to WCPSS Design Guidelines for elevator requirements.
2. Locate centrally along a main corridor.

HS21-D-3.4 Finishes and Features:

| General Notes: |  
| Floor: | Linoleum, VCT |
| Floor Transitions: |  
| Base: |  
| Walls: | Stainless Steel, baked enamel or other approved, durable, vandal-resistant material |
| Ceiling: | Luminous |
| Ceiling Height: |  
| Doors: | Stainless Steel, baked enamel or other approved, durable, vandal-resistant material |
| Windows: |  

HS21-D-3.5 Casework & Special Features:

General 1. Provide hooks and pads for use as a freight elevator.

HS21-D-3.6 Furniture, Fixtures & Equip.:

HS21-D-3.7 Instruc. Mat & Equipment:

HS21-D-3.8 Mechanical Criteria:

1. Shaft and equipment room ventilation as required by building and elevator code.
HS21-D-3.9   Electrical Criteria:

   Power:  1. Coordinate power for elevator equipment and shaft with elevator manufacturer and as required by code.

   Lighting:  1. Provide emergency lighting, signaling and telecommunications as required by building and elevator code.

Data & Other:

HS21-D-3.10   Technology Criteria:
E-3. Physical Requirements

HS21-E-3.1 Space(s):

E. Mechanical Rooms (for all utility types).

HS21-E-3.2 Use:

1. Location for building PME & FP systems.

HS21-E-3.3 Special Criteria:

1. Refer to WCPSS Design Guidelines for PME & FP system requirements.

HS21-E-3.4 Finishes and Features:

<table>
<thead>
<tr>
<th>General Notes:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Floor: Sealed concrete</td>
</tr>
<tr>
<td>Floor Transitions:</td>
</tr>
<tr>
<td>Base: Resilient top-set base</td>
</tr>
<tr>
<td>Walls: Unpainted CMU / gypsum wallboard</td>
</tr>
<tr>
<td>Ceiling:</td>
</tr>
<tr>
<td>Ceiling Height:</td>
</tr>
<tr>
<td>Doors:</td>
</tr>
<tr>
<td>Windows:</td>
</tr>
</tbody>
</table>

HS21-E-3.5 Casework & Special Features:

HS21-E-3.6 Furniture, Fixtures & Equip.:

HS21-E-3.7 Instruc. Mat & Equipment:

HS21-E-3.8 Mechanical Criteria:

1. (As required by building code).

HS21-E-3.9 Electrical Criteria:

Power:
1. Provide emergency lighting, signaling and telecommunications as required by N.C. Building Code and WCPSS Design Guidelines.

Lighting:

Data & Other:

HS21-E-3.10 Technology Criteria:
F-3. Physical Requirements

HS21-F-3.1 Space(s):  

F. Custodial Closets.

HS21-F-3.2 Use:  

1. Storage of cleaning and custodial supplies.

HS21-F-3.3 Special Criteria:  

1. Provide one custodial closet (40 SF minimum each) per each 16,000 +/- SF of gross building area. Distribute throughout school.  
2. Provide at least one custodial closet on each floor level.  
3. All must be dimensioned to allow custodial cart (approx. 44” x 19”), mop bucket (approx. 20” x 20”) and upright vacuum to fit beside mop sink, and large trashcan.  
4. Three rooms must be dimensioned to accommodate floor buffer (approx. 24” x 24”) as well as custodial cart.

HS21-F-3.4 Finishes and Features:

<table>
<thead>
<tr>
<th>General Notes:</th>
<th>Quarry tile, sealed concrete. Slope floor to floor drain.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Floor:</td>
<td>Quarry tile</td>
</tr>
<tr>
<td>Floor Transitions:</td>
<td></td>
</tr>
<tr>
<td>Base:</td>
<td>Quarry tile</td>
</tr>
<tr>
<td>Walls:</td>
<td>Epoxy-painted CMU</td>
</tr>
<tr>
<td>Ceiling:</td>
<td></td>
</tr>
<tr>
<td>Ceiling Height:</td>
<td>9'-4” minimum</td>
</tr>
<tr>
<td>Doors:</td>
<td></td>
</tr>
<tr>
<td>Windows:</td>
<td></td>
</tr>
</tbody>
</table>

HS21-F-3.5 Casework & Special Features:  

General

1. Maximum LF x 18”D open adjustable shelving on one wall, similar to Global Industrial "Durashelf Plastic Adjustable Shelving".

2. Mop rack over mop sink.

HS21-F-3.6 Furniture, Fixtures & Equip.:  

HS21-F-3.7 Instruc. Mat & Equipment:  

HS21-F-3.8 Mechanical Criteria:  

1. Hose bibb.  
2. Mop sink with hot and cold water.  
3. Floor drain.
**HS21-F-3.9  Electrical Criteria:**

**Power:**
1. Two (2) GFI quadraplex outlets; grouped for recharging of equipment.

**Lighting:**

**Data & Other:**
1. One (1) 2-port data outlet.

**HS21-F-3.10  Technology Criteria:**
G-3. Physical Requirements

HS21-G-3.1 Space(s):

**G. Loading Dock / Can Wash.**

HS21-G-3.2 Use:

1. Can Wash (approximately 40 SF) and Loading Dock (approximately 150 SF).

2. Temporary storage and pick-up, including disposables for recycling.


HS21-G-3.3 Special Criteria:

1. Accessible to dumpster(s), adjacent to kitchen entrance and general receiving. Should be shielded from public view. Must be covered.

2. Provide room for 3 dumpsters placed against the dock – kitchen staff will dump trash from the dock level into dumpster.

3. Provide one truck bay at dock.

4. Dock should be 4'-0" above outside grade, or provide dock leveler.

5. Provide ramp as well as stairs to loading dock.

6. Provide dock bumpers.

HS21-G-3.4 Finishes and Features:

<table>
<thead>
<tr>
<th>General Notes:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Floor:</td>
</tr>
<tr>
<td>Concrete</td>
</tr>
<tr>
<td>Floor Transitions:</td>
</tr>
<tr>
<td>Base:</td>
</tr>
<tr>
<td>Walls:</td>
</tr>
<tr>
<td>Ceiling:</td>
</tr>
<tr>
<td>Ceiling Height:</td>
</tr>
<tr>
<td>Doors:</td>
</tr>
<tr>
<td>Doors (Loading Dock):</td>
</tr>
<tr>
<td>4'-0&quot; wide with small,</td>
</tr>
<tr>
<td>wire-glass panel or</td>
</tr>
<tr>
<td>peep hole to Food</td>
</tr>
<tr>
<td>Service and Plant</td>
</tr>
<tr>
<td>Operations. Door should</td>
</tr>
<tr>
<td>be self-locking. (</td>
</tr>
<tr>
<td>Should be able to</td>
</tr>
<tr>
<td>prop door open during</td>
</tr>
<tr>
<td>deliveries). Doors</td>
</tr>
<tr>
<td>(Can Wash): Can wash</td>
</tr>
<tr>
<td>must be enclosed with</td>
</tr>
<tr>
<td>a masonry enclosure with</td>
</tr>
</tbody>
</table>
| a metal / lockable gate.

| Windows:                |

HS21-G-3.5 Casework & Special Features:

**General**

1. Mop rack over mop sink.

2. One (1) 24"D can rack.

HS21-G-3.6 Furniture, Fixtures & Equip.: 

HS21-G-3.7 Instruc. Mat & Equipment:
**HS21-G-3.8  Mechanical Criteria:**
1. Hose bibb.
2. Can wash to connect to grease trap.

**HS21-G-3.9  Electrical Criteria:**

- **Power:**
  1. One (1) GFI duplex outlet on dock.

- **Lighting:**
  1. Flood lighting.

- **Data & Other:**
  1. Provide door bell at service door into kitchen, with loud bell inside.
  2. Provide fly fan at door to kitchen.

**HS21-G-3.10  Technology Criteria:**
1. General Educational Requirements

**HS22-1.1 Objectives**

1. To support and maintain school infrastructure, for several school sites, on a daily basis.

2. To provide preventive maintenance and emergency response for facility maintenance issues.

3. To preserve the facility environment.

**HS22-1.2 Trends**

1. Increased security needs.

2. Increased need for separation from students.

3. Impacts of proper maintenance on IAQ (Indoor Air Quality).

4. Integration of technology and increased use of computers.

5. Increased need for flexible storage.

6. Provide for growth of maintenance cluster staff.

**HS22-1.3 Activities and Enrollment**

1. Receiving and storage of supplies and equipment.

2. Repair of equipment.

3. Receive minimal visits from staff.

4. Monitoring of thermal, electrical and emergency systems.

5. Originating and receiving calls.


7. Conducting small crew scheduling meetings.

8. Supervision of maintenance crew.
2. Space Overview

HS22-2.1 Required Spaces

Reference:

<table>
<thead>
<tr>
<th>Identifier</th>
<th>Space</th>
<th>Quantity</th>
<th>Area Each (SF)</th>
<th>Area Total (SF)</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>Shop Area</td>
<td>1</td>
<td>520</td>
<td>520</td>
</tr>
<tr>
<td>B</td>
<td>AFM Office</td>
<td>1</td>
<td>80</td>
<td>80</td>
</tr>
<tr>
<td>C</td>
<td>Storage</td>
<td>1</td>
<td>400</td>
<td>400</td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td>3</td>
<td>1,000</td>
<td></td>
</tr>
</tbody>
</table>

HS22-2.2 Design Considerations

1. Locate adjacent to Plant Operations area.
2. Shop Area and Unconditioned storage should be adjacent to loading dock, which is shared with Child Nutrition and Plant Operations.
3. Provide access for material delivery.
4. Provide ability to load shop vehicles within close proximity.
5. Office is located within Shop Area.
6. Provide a lockable door between Maintenance Cluster area and other school areas.
7. Provide outside access to allow after hours access without entry to school.
8. Connect Maintenance Cluster to school security system.
2. Space Overview (continued)

HS22-2.3 Adjacency Diagram:

- AFM Office
- Corridor
- Shop Area
- Storage

(Exterior)
A-3. Physical Requirements

HS22-A-3.1 Space(s):

A. Shop Area.

HS22-A-3.2 Use:

1. Shop work with small industrial tools.
2. Painting, varnishing.
3. Receiving, storage and pick-up of materials by work crew.
4. Review of large drawings.
5. Data entry.
6. Make and receive phone calls.

HS22-A-3.3 Special Criteria:

1. Must accommodate two (2) workbenches w/stools, lockable cabinet and three (3) units of open shelving.
2. Provide space to accommodate work flow of up to 4 individuals.
3. Space to unload and repair larger items (ie. doors) at workbenches.

HS22-A-3.4 Finishes and Features:

<table>
<thead>
<tr>
<th>General Notes:</th>
<th>Special attention should be given to the selection of finishes due to industrial use.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Floor:</td>
<td>Sealed concrete</td>
</tr>
<tr>
<td>Floor Transitions:</td>
<td></td>
</tr>
<tr>
<td>Base:</td>
<td>Resilient top-set base</td>
</tr>
<tr>
<td>Walls:</td>
<td>Painted CMU with sound attenuation qualities, 1-hour rated fire barrier</td>
</tr>
<tr>
<td>Ceiling:</td>
<td>Acoustical ceiling panels</td>
</tr>
<tr>
<td>Ceiling Height:</td>
<td>9'-4&quot; minimum</td>
</tr>
<tr>
<td>Doors:</td>
<td>Door from shop to school corridor should have sound attenuation, with no glazing. Provide double doors to exterior (3 ft. wide each leaf) with no center mullion; flush bolts at top and bottom. (Allow for emergency egress.)</td>
</tr>
<tr>
<td>Windows:</td>
<td></td>
</tr>
</tbody>
</table>

HS22-A-3.5 Casework & Special Features:

1. Three (3) sections (3'-0" W x 6'-0" H x 18" D, each) of open adjustable metal shelving (solid, not open grid, rustproof) on one wall.
2. Staff lockers (4 half-size lockers).
3. Fire extinguisher, mounted to wall.
4. One (1)- 4'-0" x 4'-0" tackboard located near door to office.
HS22-A-3.6  Furniture, Fixtures & Equip.:

Owner provide:
1. Two (2) workbenches, approx. 72” wide, with drawers (similar to Lista: Grainger stock # MVM47).
2. Two (2) stools, w/back, to use at workbenches.
3. One (1) lockable metal cabinet, with shelves, 78”H x 36”W x 18”D.
4. One (1) folding table.

HS22-A-3.7  Instruc. Mat & Equipment:

HS22-A-3.8  Mechanical Criteria:
1. Sink with hot and cold water. (Similar to a deep laundry sink).
2. Floor drain(s).
3. Conditioned space with adequate ventilation.

HS22-A-3.9  Electrical Criteria:

Power:
1. Provide GFI duplex outlets (120 V) at 3’-0” intervals. Provide at two heights; 18” AFF, as well as above workbench surface height.

Lighting:
1. Provide adequate lighting for work with small parts and computer monitors.

Data & Other:
1. Two (2) 2-port data outlets.
2. Provide intercom access.

HS22-A-3.10  Technology Criteria:
B-3. Physical Requirements

HS22-B-3.1 Space(s):

B. AFM (Area Facility Manager) Office.

HS22-B-3.2 Use:

1. Administrative work by AFM (Area Facility Manager
3. Data entry.
4. Meeting with crew members and school staff.

HS22-B-3.3 Special Criteria:

1. Locate within shop area, close to school corridor.

HS22-B-3.4 Finishes and Features:

<table>
<thead>
<tr>
<th>General Notes:</th>
</tr>
</thead>
<tbody>
<tr>
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<tr>
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</tr>
<tr>
<td>Floor Transitions:</td>
</tr>
<tr>
<td>Base:</td>
</tr>
<tr>
<td>Resilient top-set base</td>
</tr>
<tr>
<td>Walls:</td>
</tr>
<tr>
<td>Painted gypsum wallboard</td>
</tr>
<tr>
<td>Ceiling:</td>
</tr>
<tr>
<td>Acoustical ceiling panels</td>
</tr>
<tr>
<td>Ceiling Height: 9'-4&quot;</td>
</tr>
<tr>
<td>Doors:</td>
</tr>
<tr>
<td>Provide door with small view light</td>
</tr>
<tr>
<td>Windows:</td>
</tr>
</tbody>
</table>

HS22-B-3.5 Casework & Special Features:

General
1. Coat hook on back of door.

HS22-B-3.6 3.6 Furniture, Fixtures & Equip.:

Owner's Furniture & Equip. Specialist provide:

1. One (1) desk (30"x60").
2. One (1) Computer table.
3. One (1) ergonomic desk chair.
4. One (1) side chair.
5. One (1) 5-drawer, lockable file cabinet.
6. One (1) 4-shelf bookcase (60"H x 36"W x 12"D).

Owner's Aux. Services M&O provide:

1. One (1) complete multi-task computer set-up, networked to main server in school.

HS22-B-3.7 Instruc. Mat & Equipment:

HS22-B-3.8 Mechanical Criteria:
1. Conditioned space with adequate ventilation.

**HS22-B-3.9 Electrical Criteria:**

**Power:** 1. One (1) GFI duplex outlet on each wall, at 18” AFF.

**Lighting:** 1. Provide adequate lighting for office work and computer use.

**Data & Other:** 1. Two (2) 2-port data outlets.
2. Network computer to main server in school.
3. Provide intercom access.

**HS22-B-3.10 Technology Criteria:**
C-3. Physical Requirements

HS22-C-3.1 Space(s):

C. Storage.

HS22-C-3.2 Use:

1. Storage of facility maintenance supplies and materials.
2. Storage of small levels of hazardous materials.

HS22-C-3.3 Special Criteria:

1. Access from Shop Area, as well as from building exterior.
2. Space to unload and store supplies.

HS22-C-3.4 Finishes and Features:

<table>
<thead>
<tr>
<th>General Notes:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Floor:</td>
<td>Sealed concrete</td>
</tr>
<tr>
<td>Floor Transitions:</td>
<td></td>
</tr>
<tr>
<td>Base:</td>
<td>Resilient top-set base</td>
</tr>
<tr>
<td>Walls:</td>
<td>Painted CMU</td>
</tr>
<tr>
<td>Ceiling:</td>
<td></td>
</tr>
<tr>
<td>Ceiling Height:</td>
<td>9'-4&quot; minimum, 12'-0&quot; preferred</td>
</tr>
<tr>
<td>Doors:</td>
<td>Lockable, solid door from shop to Storage. Door to exterior should be solid, lockable and 4'-0&quot; wide.</td>
</tr>
<tr>
<td>Windows:</td>
<td></td>
</tr>
</tbody>
</table>

HS22-C-3.5 Casework & Special Features:

General 1. 18" deep, adjustable metal shelving (not open grid), non-rusting, continuous along 3 walls.

HS22-C-3.6 Furniture, Fixtures & Equip.:

Owner's Furniture & Equip. Specialist provide:

1. 6'-0" high, lockable metal storage cabinet (45 gallon capacity) for storing flammable materials.

HS22-C-3.7 Instruc. Mat & Equipment:

HS22-C-3.8 Mechanical Criteria:

1. Provide heat to prevent freezing of supplies.
2. Provide adequate ventilation for hazardous material storage (ie. manual exhaust fan).
HS22-C-3.9   Electrical Criteria:

Power: 1. Two (2) GFI duplex outlets per wall minimum.

Lighting: 1. Provide adequate lighting for unloading and storing materials.

Data & Other:

HS22-C-3.10  Technology Criteria: