

OHIO SCHOOL DESIGN MANUAL

Ohio School Facilities Commission

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PURPOSE	The purpose of this Chapter is to provide the school district and the Design Professional with the guidelines and relationships for the Middle School spaces identified in Chapter 2: Bracketing.
INTRODUCTION	<p>This Chapter begins with an overall building diagram showing how the various areas of a school could be arranged. The diagram is meant only to demonstrate the relationships between various parts of the building.</p> <p>Along with the overall building diagram, there are various program area diagrams throughout this chapter which demonstrate how specific spaces may relate to each other within a particular program area.</p>
NO SMOKING SIGNS	As required by the Ohio Revised Code, post “No Smoking” signs at every entrance door into the building. If a door is for exit only, there is no need for a sign. Post the signs on entrance glass or other appropriate surface. Signs shall contain a telephone number for reporting violations. (866/559-6446)
DIAGRAM	Diagrams of the space have been developed to show how some of the features and loose furnishings may be organized. The space is not required to be designed in the configuration shown.
PROGRAM ACTIVITIES	Program activities indicate the type of activities that may occur in the space. These activities will vary from school district to school district depending on the educational program.
SPATIAL RELATIONSHIPS	Relationships of a particular room to other spaces and activities have been identified to assist the Design Professional in the design of the facility.
ENVIRONMENTAL CONSIDERATIONS	<p>Environmental considerations are items that may affect the educational program. They are the basis of some the requirements of Finishes, Features, Plumbing, HVAC, Electrical, and Technology.</p> <p><i>Storage rooms shall not be required to be exhausted if there is no objectionable transfer (odors or hazardous gas) to adjacent spaces.</i></p>
FINISHES	The finishes stated for the spaces have been developed based on the function of the room. The spaces adjacent to the room or a building system may change the finishes stated.
OPERABLE WINDOWS	Operable windows are optional in exterior window fenestration.
LIGHTING	Interior lighting shall be controlled by occupancy sensors, automatic timed lighting controlled system or a combination of both to comply with ASHRAE 90.1. Exterior lighting shall be controlled by photosensor or astronomical time clock to comply with ASHRAE 90.1 to automatically turn lighting off when sufficient daylight is available.
AREA	Square foot area given for the room is the necessary area. This area is given in net square feet – defined as the area within the walls of the room.

LOOSE FURNISHINGS

Loose furnishings are to be funded by the Ohio School Facilities Commission. The loose furnishings requirements are to be coordinated with the district's educational program. As an example, some spaces may require tables with student chairs and other spaces may require student desks with chairs.

* The intent of the loose furnishings shown on the space plates is not necessarily to be all-inclusive of furniture options or mandate items which may not be needed in a particular district, but rather to provide a general concept of how a particular space could be laid out. Some items listed as loose furnishings could be provided as fixed casework and items listed as fixed casework, if appropriate, could be provided as loose furnishings depending on the building design and types of technology used. Construction and loose furnishings budgets should be coordinated appropriately.

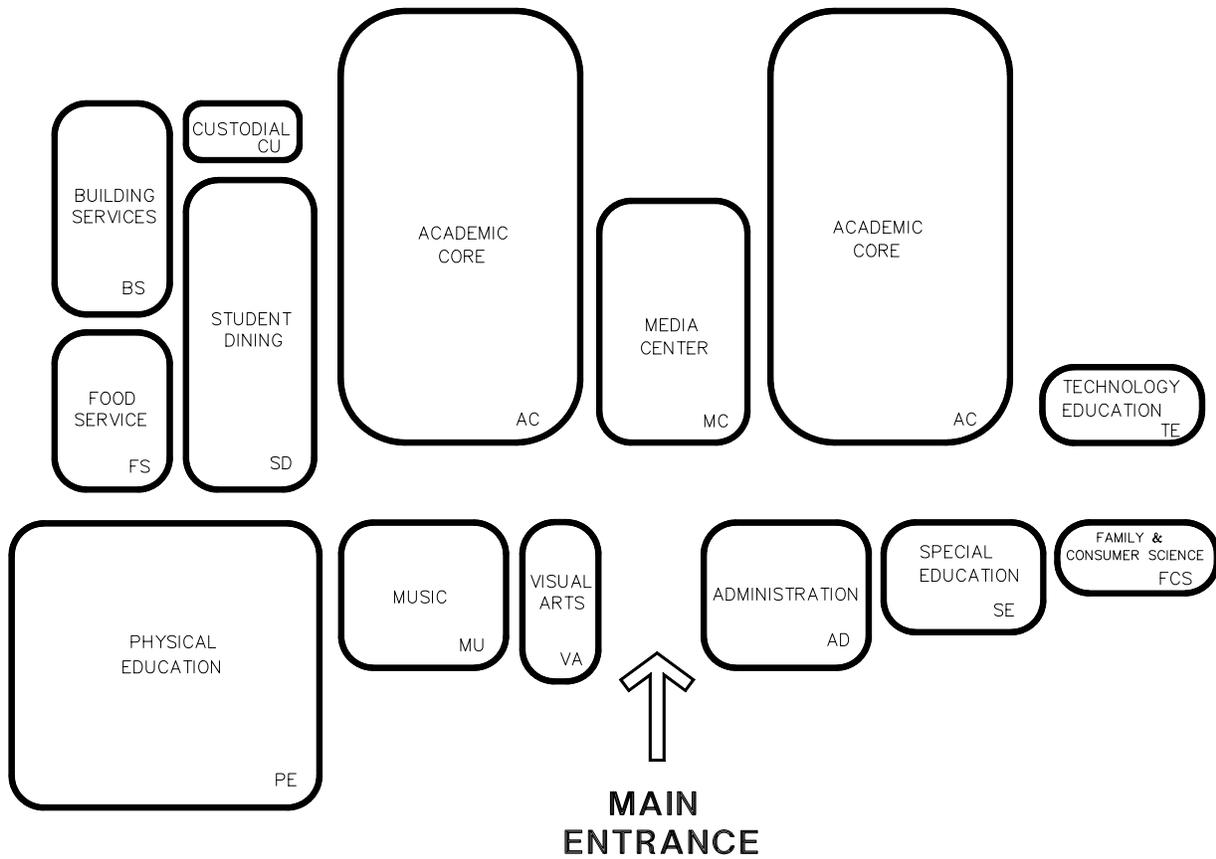
FEATURES

Features identified on the space plates are recommended for these rooms. These features include Fixed Items, Plumbing, Heating, Ventilating and Air Conditioning, Electrical, and Technology systems as well as Miscellaneous Items. Exact sizes of items may need to be modified slightly to interface with the exact size and proportions of the actual space.

Casework and Visual Display Boards should reflect the needs of the district's educational program. The intent of this list is not to mandate casework or visual display boards that may not be needed by a particular district, but rather to be used as a guideline for items that are generally used in this type of space. Some items listed as "fixed casework" could also be provided by mobile casework or loose furnishings if appropriate. Construction and loose furnishings budgets should then be adjusted appropriately.

TECHNOLOGY

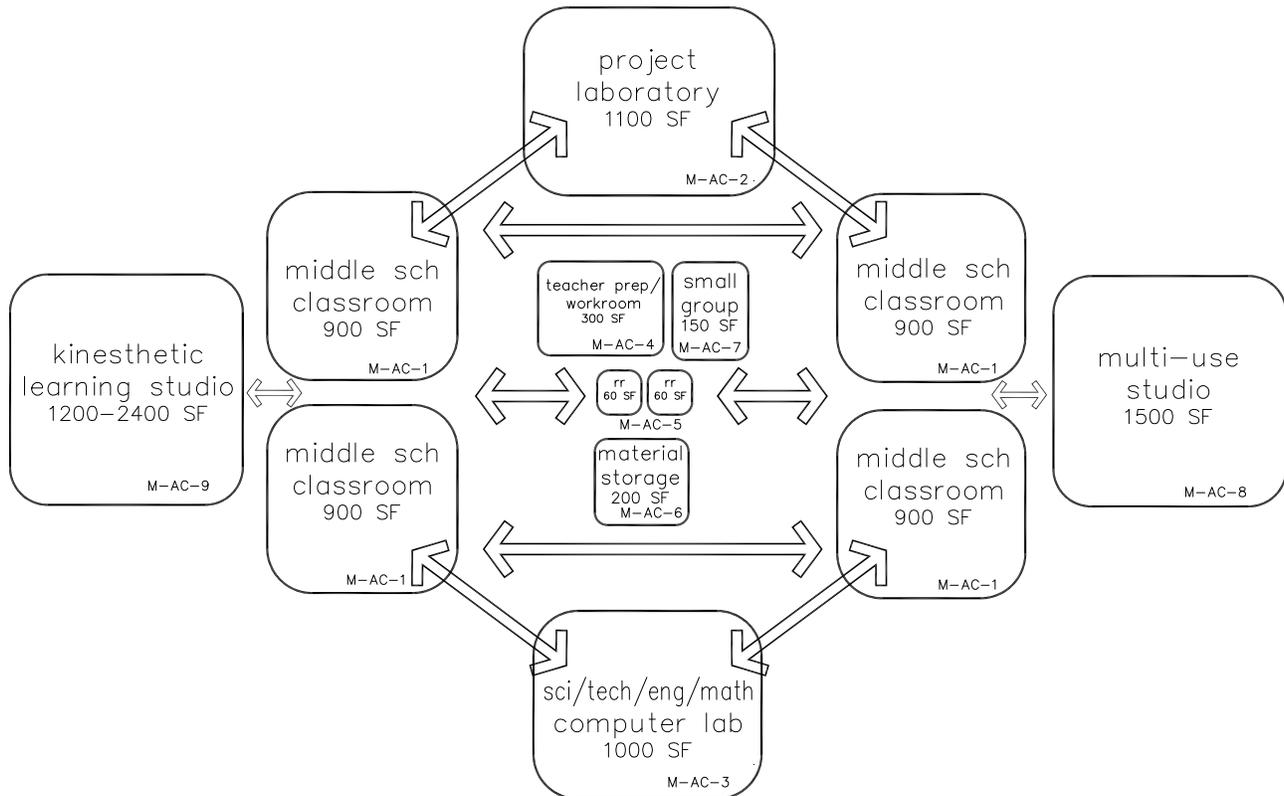
The location of projectors, in spaces where required, shall be carefully coordinated between the Design Professionals in relation to the projection surface and ADA requirements. Note that classroom projectors are required to be ultra-short throw interactive projectors (refer to Section 274119). Classroom instructor AV interfaces and AV equipment are to be comprised of digital systems. Coordination is required between the Design Professionals to accommodate the digital solution that is selected by the District. Refer to Section 271543 and Figure 1, within that section, for a general overview of classroom equipment and interconnectivity requirements. The District's Digital Media Management System requires Design Professionals coordination for adequate dedicated rooftop space for current and potential future system antennas for incorporation of digital broadcast media sources as selected by the District (refer to Section 274125). Design Professionals should especially note that the classroom's dedicated 4 student data ports and associated work stations have been removed. A robust Wireless Local Area Network (WLAN), capable of supporting 1:1 and/or Bring Your Own Device (BYOD) throughout all educational areas is now required. Refer to Section 272133 for all of the new requirements for the District's WLAN.



NOTES:

This is just one example of how the spaces in a middle school could be arranged. This is meant only to demonstrate the relationships between various spaces of the building.

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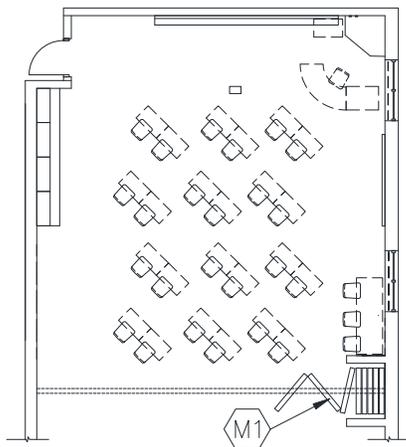
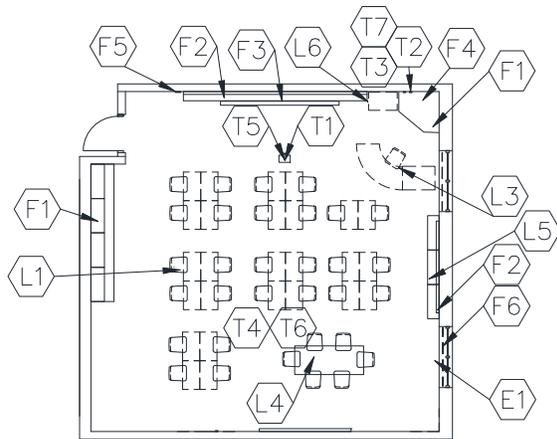
NOTES:

This is an example of how the academic core spaces in a middle school could be arranged. This is meant only to demonstrate the relationships between various spaces of this area.

Following are the Academic Core space plates:

- M-AC-1 Middle School Classroom
- M-AC-2 Project Laboratory
- M-AC-3 *Sci/Tech/Eng/Math/Computer Lab***
- M-AC-4 Teacher Prep Area/Workroom
- M-AC-5 Individual Restroom
- M-AC-6 Instructional Material Storage
- M-AC-7 Small Group Room
- M-AC-8 *Multi-Use Studio***
- M-AC-9 *Kinesthetic Learning Studio***

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CLASSROOM WITH OPTIONAL OPERABLE WALL

CAPACITY: 25 students
 SIZE: 900 SF
 ANCILLARY SPACES:

PROGRAM ACTIVITIES:

- Serves the instructional programs for the following disciplines: language arts, social studies, and mathematics.
- Instructional program shall provide developmental experiences, improve communication skills, changes in social development and in-depth academic understandings.
- The methodology for delivery of programs will involve the traditional strategies, but will include interdisciplinary activities, a variety of groupings, team teaching, and learning and manipulative exercises.

SPATIAL RELATIONSHIPS:

- Classrooms should have easy and quick access to the media center, administrative services, physical education areas, and the arts.

ENVIRONMENTAL CONSIDERATIONS:

- Required: View glass – minimum 5% without daylighting design; minimum 3% with daylighting design.
 Recommended: Daylighting design with glazing area determined by design solution.
- Environmental sound control -
 wall only minimum STC 45
 ceiling minimum CAC 35, NRC 0.70
- Flexibility of space

NOTES:

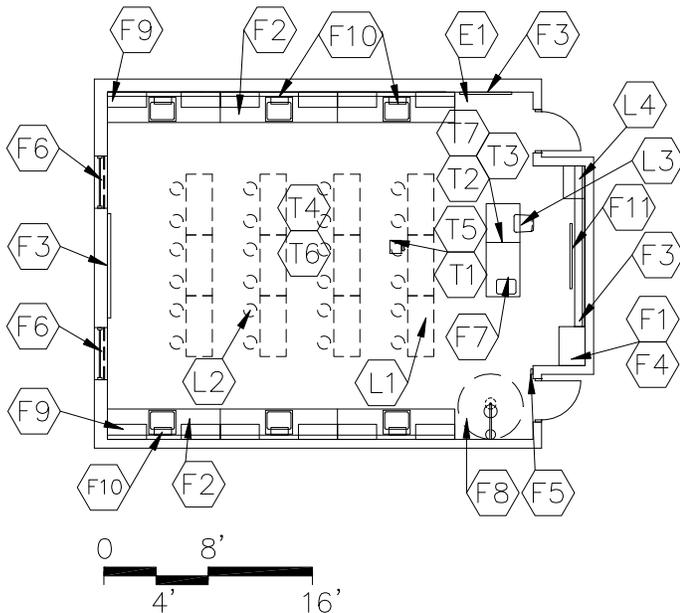
1. Loose furnishings shown represent one of many possible arrangements.
2. Depending upon the educational program of the district, a tall wardrobe may be located in this classroom or could be placed in a teacher prep area/workroom.

**MIDDLE SCHOOL CLASSROOM
M-AC-1**

<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
<u>Flooring:</u>		<u>Fixed Items:</u>	
Carpet, carpet tile	096816	F1 12'-24' combination tall wardrobe, base and wall cabinets	123550
Optional: linoleum, ET, sheet vinyl, or rubber	096500 096516 096813	F2 22'-32' combination marker board, tack board & tackable wall surface	123550
<u>Base:</u>		F3 Projection screen (optional)	115213
Resilient base	096500	F4 Technology support casework	123550
<u>Ceiling:</u>		F5 Pencil sharpener support (optional)	062000
Suspended, acoustical	095113	F6 Windows with integral blinds	085113
<u>Walls:</u>		<u>Fire Suppression:</u>	
Paint		Fire suppression system	211000
099100		<u>Plumbing:</u>	
		N/A	
		<u>HVAC:</u>	
		Supply/return air system	Div. 23
		Independent temperature control	230923
<u>LOOSE FURNISHINGS:</u>		<u>Electrical:</u>	
L1 Student desks or tables and chairs		Fluorescent lighting	265100
L2 Reserved		Illumination level: See Table 8600-5	
L3 Teacher desk or workstation/computer support and chair		Multilevel switching	262726
L4 Activity table		4 duplex receptacles	262726
L5 9' of low bookcases (fixed or mobile)		Double duplex receptacle adjacent to each data and video port	262726
L6 File cabinet		<u>Communications:</u>	
Wastebasket		T1 1 projector video port	271543
Note: Must keep wastebasket		T2 1 voice port and phone	271513/273123
L3 can be loose or fixed.		T3 1 data port	
		near teacher work station	271513
		T4 Wireless access point cable above ceiling	
		Clock	275313
		Central sound system	275123
		Sound reinforcement system	275127
<u>Electronic Safety and Security</u>		T5 Ultra-short throw interactive projector	274119
Life safety devices per code	283111	T6 Wireless access point (WAP) as determined by Design – refer to Note 4	272133
<u>Miscellaneous:</u>		T7 Classroom technology center video port	271543, 274116, 274119, 275127
Pencil sharpener (optional)			
M1 Operable partitions are optional between classrooms	102226		
E1 Duplex receptacle with dedicated circuit for wireless devices			

NOTES:

1. Finishes/Features: Refer to Chapter 9 for specification references.
2. Technology components may be placed in a separate small cabinet, or integrated in the other casework in the room.
3. Where appropriate, some casework may be mobile to add flexibility and could become part of loose furnishings.
4. Baseline includes WAP cable per classroom. WAP device quantity / placement per 272133 requirements.



CAPACITY: 24-28 students
 SIZE: 1,100 SF
 ANCILLARY SPACES:

PROGRAM ACTIVITIES:

- Primary use of this laboratory will be science instruction and scientific discovery activities, but this laboratory may be used for instruction and hands-on experiences in other discipline areas, especially mathematics.
- Will serve multi-discipline groups of five classrooms.
- There will be lecture, experiment, discussion, and manipulation activities during each class session.

SPATIAL RELATIONSHIPS:

- Easy and quick access to other academic areas.
- Easy access to large group restrooms, lockers, teacher prep/workroom, and instructional material storage.
- Adjacent to at least one academic classroom which has resources for mathematics instruction.
- Each room will have an area for preparation of materials by students and staff.
- Easy access to administrative services and related curriculum instructional areas.

ENVIRONMENTAL CONSIDERATIONS:

- Required: View glass – minimum 5% without daylighting design; minimum 3% with daylighting design.
 Recommended: Daylighting design with glazing area determined by design solution.
- Environmental sound control -
 wall only minimum STC 45
 ceiling minimum CAC 35, NRC 0.70
- Acid- and stain-resistant work and floor surfaces

NOTES:

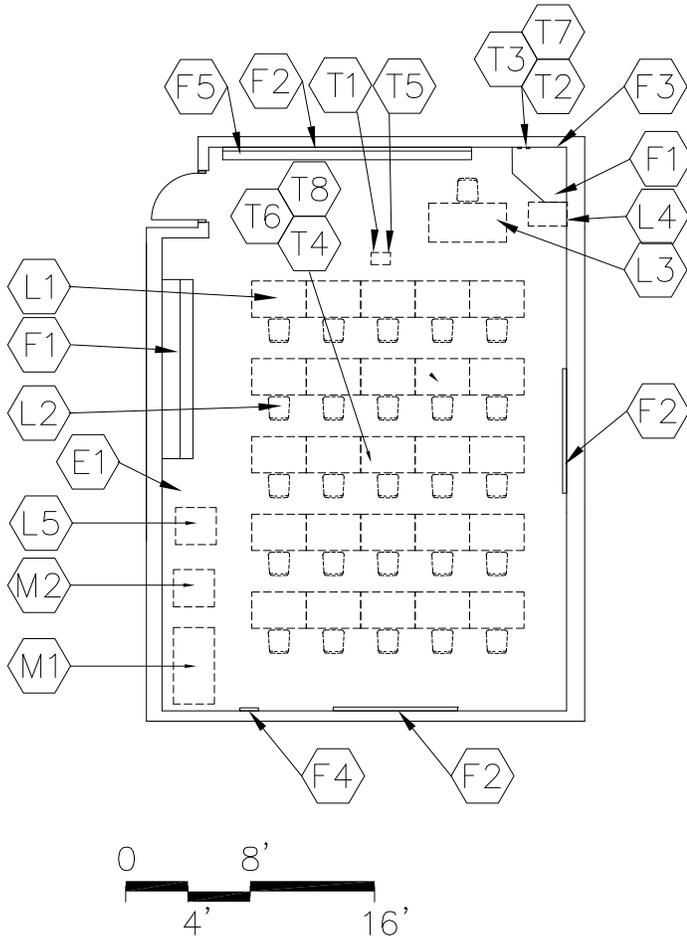
1. Loose furnishings shown represent two of many possible arrangements.
2. Depending upon the educational program of the district, a tall wardrobe may be located in this laboratory or could be placed in a teacher prep area/workroom.
3. Option: Small, bay window-type, pre-manufactured greenhouse.
 No additional square footage allowed.
4. The layouts shown do not restrict or reflect the variety of arrangements available to the Design Professional.

**PROJECT LABORATORY
M-AC-2**

<u>FINISHES¹:</u>		Spec. Ref.#	<u>FEATURES¹:</u>		Spec. Ref.#
<u>Flooring:</u>			<u>Fixed Items:</u>		
Vinyl sheet flooring, linoleum, rubber, ET, polished concrete finishing, or colored concrete finishing		096516 096500 033510 033519	F1 Tall wardrobe with file drawers F2 40'-58' lab station casework or loose cabinets with 6 sinks F3 22'-32' combination marker board, tack board & tackable wall surface F4 Technology support casework F5 Pencil sharpener support (optional) F6 Windows with integral blinds F7 Demonstration table F8 Emergency shower/eyewash(option) F9 24'-40' of wall cabinets F10 Towel dispensers (optional) F11 Projection screen (optional)	123550 123550 101100 123550 062000 085113 123550 123550 123550 102813 115213	
<u>Base:</u>			<u>Fire Suppression:</u>		
Resilient base		096500	Fire suppression system	211000	
<u>Ceiling:</u>			<u>Plumbing:</u>		
Suspended, acoustical		095113	Sinks Plumbing connections	224000 224000/221116/221119	
<u>Walls:</u>			<u>Emergency shower/eyewash</u>		
Paint		099100	Connection (optional) Gas connections (optional) Master shutoff for gas (optional) Compressed air connections(option)	224000 226313 226313 221500	
<u>LOOSE FURNISHINGS:</u>			<u>HVAC:</u>		
L1 Student work tables			Supply/return air system Manually controlled exhaust air system Independent temperature control	Div. 23 Div. 23 230923	
L2 Student stools/chairs			<u>Electrical:</u>		
L3 Teacher desk or workstation/ computer support and chair			Fluorescent lighting Illumination level: See Table 8600-5 Multilevel switching 4 duplex receptacles (optional) Double duplex receptacle adjacent to each data and video port Means of egress lighting per code Emergency lighting	265100 262726 262726 262726 265100 265100	
L4 File cabinet			<u>Communications:</u>		
L5 Reserved			T1 1 projector video port T2 1 voice port and phone T3 1 data port near teacher work station T4 Wireless access point cable above ceiling Clock Central sound system Sound reinforcement system T5 Overhead projector T6 Wireless access point (WAP) as determined by Design – refer to Note 3 T7 Classroom technology center video port	271543 271513/273123 271513 271513 275313 275123 275127 274119 272133 271543, 274116, 274119, 275127	
<u>Electronic Safety and Security:</u>					
Life safety devices per code		283111			
<u>Miscellaneous:</u>					
Pencil sharpener (optional)					
E1 Duplex receptacle with dedicated circuit for wireless devices					

NOTES:

1. Finishes/Features: Refer to Chapter 9 for specification references.
2. Technology components may be placed in a separate small cabinet, or integrated in the other casework in the room.
3. Baseline includes WAP cable per classroom. WAP device quantity / placement per 272133 requirements.



CAPACITY: 25 students
SIZE: 1,000 SF

PROGRAM ACTIVITIES:

- Contains computer workstations for group instruction and individual work
- Activities include computer instruction, media production, and individual project work

SPATIAL RELATIONSHIPS:

- Near reading room/circulation
- Near media specialist office
- Near academic core classrooms

ENVIRONMENTAL CONSIDERATIONS:

- Environmental sound control - wall only minimum STC 45
ceiling minimum CAC 35, NRC 0.70

MISCELLANEOUS:

- Due to the changing nature of technology, a computer lab is to be designed for flexibility of use.

NOTES:

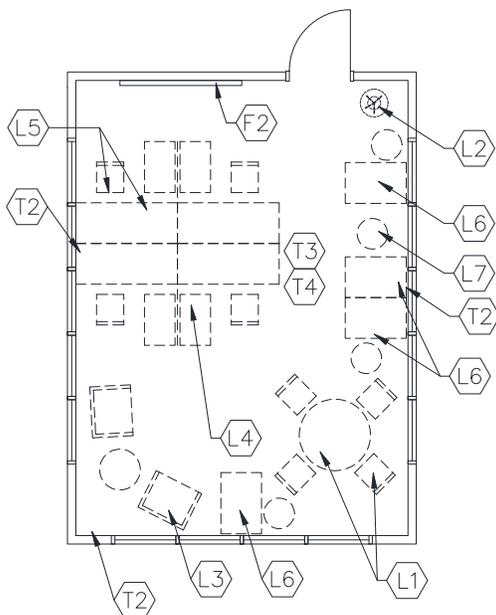
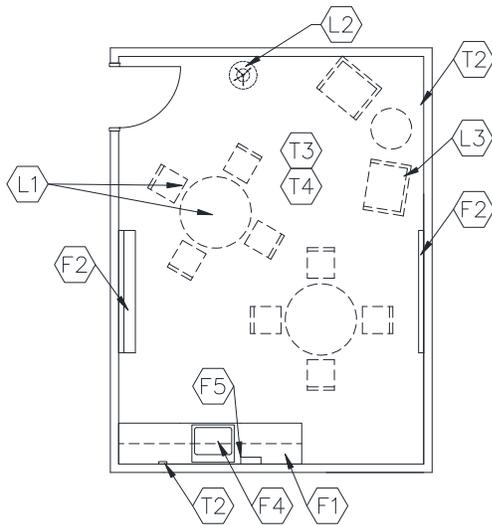
1. Loose furnishings shown represent one of many possible arrangements.

**SCI/TECH/ENG/MATH/COMPUTER LAB
M-AC-3**

<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
<u>Flooring:</u>			
Carpet, carpet tile	096816	<u>Fixed Items:</u>	
Optional: ET or sheet vinyl	096813 096500	F1 8'-20' combination tall wardrobe, base & wall cabinets	123550
<u>Base:</u>		F2 Combination marker board, tack board, & tackable wall surface	101100
Resilient base	096500	F3 Technology support casework	123550
<u>Ceiling:</u>		F4 Pencil sharpener support (optional)	062000
Suspended, acoustical	095113	F5 Projection screen (optional)	115213
<u>Walls:</u>		<u>Fire Suppression:</u>	
Paint	099100	Fire suppression system	211000
		<u>Plumbing:</u>	
		N/A	
<u>LOOSE FURNISHINGS:</u>		<u>HVAC:</u>	
L1 Computer workstation furniture (could be fixed)		Supply/return air system	Div. 23
L2 Student chairs		Independent temperature control	230923
L3 Teacher desk/computer support and chair		<u>Electrical:</u>	
L4 File cabinet		Fluorescent lighting with	
L5 Printer / scanner stand		computer aided lenses	265100
Wastebasket		Illumination level: See Table 8600-5	
		Multilevel switching	262726
<u>Electronic Safety and Security:</u>		4 duplex receptacles	262726
Life safety devices per code	283111	Double duplex receptacle adjacent to each data and video port	262726
<u>Miscellaneous:</u>		<u>Communications:</u>	
Pencil sharpener (optional)		T1 1 projector video port	271543
The following items are to be funded by the school district:		T2 1 voice port and phone	271513/273123
M1 Classroom area network file server		T3 1 data port near teacher workstation	271513
M2 Printer		T4 Classroom area network	271513
		Clock	275313
E1 Duplex receptacle with dedicated circuit for wireless devices		Central sound system	275123
		Sound reinforcement system	275127
		T5 Ultra-short throw interactive projector	274119
		T6 Wireless access point (WAP) as determined by Design – refer to Note 3	272133
		T7 Classroom technology center video port	271543, 274116, 274119, 275127
		T8 Wireless access point cable above ceiling	271513

NOTES:

1. Finishes/Features: Refer to Chapter 9 for specification references.
 2. Technology components may be placed in a separate small cabinet, or integrated in the other casework in the room.
 3. Baseline includes WAP cable per classroom. WAP device quantity / placement per 272133 requirements.
- Note: Some casework may be mobile for flexibility and could become part of loose furnishings.



CAPACITY:
SIZE:

4 - 8 teachers
150-300 SF

PROGRAM ACTIVITIES:

- Teachers and other staff members hold team meetings and prepare for class
- Professional interaction should be encouraged to improve communication, professional development, and team building.
- **Collaboration of grade level grouped or subject grouped instructors.**
- **Collaboration spaces should support the exchange of ideas, remain instantly flexible, and provide an area for both individual study and group collaboration.**

SPATIAL RELATIONSHIPS:

- Near academic core classrooms
- Near individual restroom
- Near instructional material storage

ENVIRONMENTAL CONSIDERATIONS:

- Environmental sound control -
wall minimum STC 45
ceiling minimum CAC 35, NRC 0.70
- **Transparent walls or windows to adjacent rooms**

Collaboration Note:

- **Collaboration is the vehicle by which individuals communicate their vision, desires, opinions, thoughts, and insight to their fellow colleagues. It is the means to address all aspects of the educational process, themes of focus, professional and personal relationships, and to build the camaraderie and teamwork to meet the ever changing educational needs of students of all ages.**

NOTES:

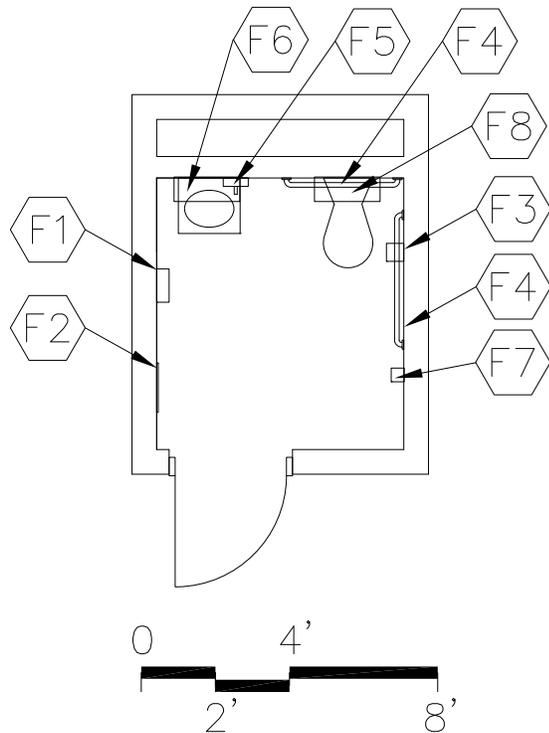
1. Loose furnishings shown represent one of many possible arrangements.
2. Depending upon the educational program of the district, a tall wardrobe may be located in this teacher prep area/workroom or could be placed in a classroom.

TEACHER PREP AREA/WORKROOM

<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
<u>Flooring:</u>			
Carpet, ET, linoleum, sheet vinyl, or rubber	096816	<u>Fixed Items:</u>	
	096500	F1 15'-20' combination base and wall cabinets	123550
	096516	F2 50-75 sf combination marker board, 10110 tack board & tackable wall surface	
<u>Base:</u>			
Resilient base	096500	F3 Reserved	
		F4 3' sink base cabinet	123550
		F5 Towel dispenser (optional)	102813
<u>Ceiling:</u>			
Suspended, acoustical	095113	<u>Fire Suppression:</u>	
		Fire suppression systems	211000
<u>Walls:</u>			
Paint	099100	<u>Plumbing:</u>	
		Sink	224000
		Plumbing connections	224000/221116/221119
<u>LOOSE FURNISHINGS:</u>			
L1 Tables and chairs		<u>HVAC:</u>	
L2 Coat Rack		Supply/return air system	Div. 23
L3 Soft Seating		Independent temperature control	230923
L4 Teacher computer trucks		<u>Electrical:</u>	
L5 Teacher workstation furniture and chair		Single-level switching	262726
L6 42" high teacher cabinet with work surface top		Fluorescent lighting	265100
L7 Stools		Illumination level: See Table 8600-5	
Wastebasket		3 duplex receptacles	262726
		Double duplex receptacle adjacent to each data and video port	262726
		Duplex receptacles for office equipment	262726
		Receptacle for copier (if applicable)	262726
<u>Miscellaneous:</u>			
Copier by school district		<u>Communications:</u>	
E1 Reserved		T1 Reserved	
		T2 Voice ports and phones	271513/273123
		T3 Wireless access point cable above ceiling	271513
		T4 Wireless access point (WAP) as determined by design – refer to note 3	271533
		Clock	275313
		Central sound system	275123
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111

NOTES:

1. Finishes/Features: Refer to Chapter 9 for specification references.
2. **When collaboration area is selected, teacher computer trucks are provided in lieu of teacher desks in classrooms.**
3. **Baseline includes WAP cable. WAP device quantity/placement per 272133 requirements.**



PROGRAM ACTIVITIES:

- Personal and health needs for teachers, staff, and other individuals

SPATIAL RELATIONSHIPS:

- Near academic core classrooms
- Near teacher prep area/workroom

ENVIRONMENTAL CONSIDERATIONS:

- Environmental sound control -
wall minimum STC 48
ceiling minimum CAC 35, NRC 0.70
- Moisture- and stain-resistant finishes

CAPACITY: 1 person
SIZE: 60 SF

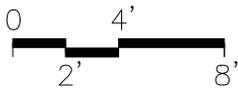
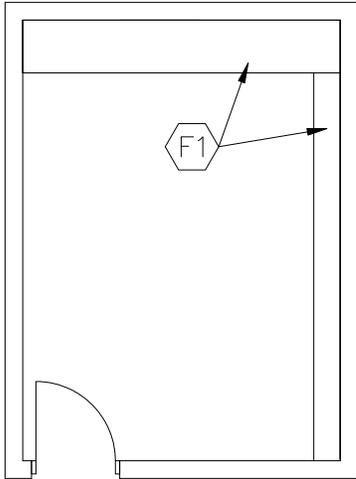
NOTES:

**INDIVIDUAL RESTROOM
M-AC-5**

<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
<u>Flooring:</u>		<u>Fixed Items:</u>	
ET or sheet vinyl	096500	F1 Towel dispenser	102813
Optional: Ceramic mosaic tile, porcelain tile, or resinous flooring	093000 096723	F2 24" x 60" mirror	102813
		F3 Toilet tissue holder	102813
		F4 36" and 42" grab bar	102813
		F5 Soap dispenser	102813
<u>Base:</u>		F6 Shelf above sink (optional)	102813
Resilient base	096500	F7 Coat hook	102813
Optional: Ceramic mosaic tile, porcelain tile, resinous flooring or integral vinyl cove base	093000 096723	F8 Wall cabinet above toilet (optional)	102813
<u>Ceiling:</u>		<u>Fire Suppression:</u>	
Suspended, acoustical	095113	Fire suppression system	211000
<u>Walls:</u>		<u>Plumbing:</u>	
Painted concrete masonry units	042000/099100	Wall-mounted water closet	224000
		Wall-mounted lavatory	224000
		Plumbing connections	224000/221116/221119
<u>LOOSE FURNISHINGS:</u>		<u>HVAC:</u>	
Wastebasket		Exhaust air system	Div. 23
		Supplemental heat as required	Div. 23
		<u>Electrical:</u>	
		Single level switching	262726
		Fluorescent lighting	265100
		Illumination level: See Table 8600-5	
		1 duplex receptacle	262726
		<u>Communications:</u>	
		Central sound system	275123
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
		<u>Miscellaneous:</u>	
		N/A	

NOTES:

1. Finishes/Features: Refer to Chapter 9 for specification references.



PROGRAM ACTIVITIES:

- Storage of supplies, textbooks, and equipment

SPATIAL RELATIONSHIPS:

- Near teacher prep area/workroom

ENVIRONMENTAL CONSIDERATIONS:

N/A

CAPACITY:
SIZE:

N/A
200 SF

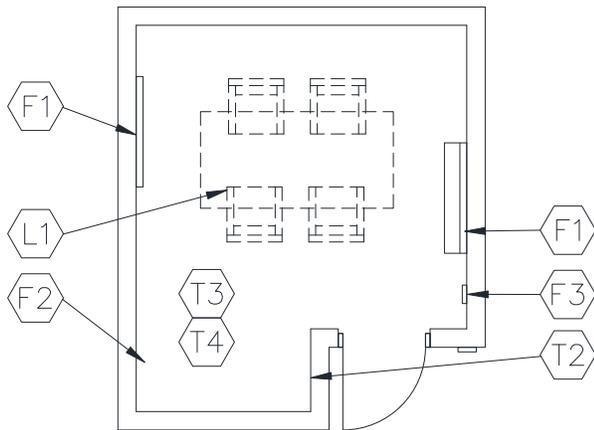
NOTES:

**INSTRUCTIONAL MATERIAL STORAGE
M-AC-6**

	Spec. Ref.#		Spec. Ref.#
<u>FINISHES¹:</u>		<u>FEATURES¹:</u>	
Flooring:		<u>Fixed Items:</u>	
<i>Linoleum, rubber, ET or sheet vinyl</i>	096500 096516	F1 20'-30' of open shelving, depths may vary (fixed or loose)	123550
Base:		Option: mobile storage shelving	105626
Resilient base	096500	<u>Fire Suppression:</u>	
Ceiling:		Fire suppression system	211000
Suspended, acoustical	095113	<u>Plumbing:</u>	
Walls:		N/A	
Painted concrete masonry	042000/099100	<u>HVAC:</u>	
<u>LOOSE FURNISHINGS:</u>		To be determined by Design Professional	
N/A		Supplemental heat as required	Div. 23
		<u>Electrical:</u>	
		Single level switching	262726
		Fluorescent lighting	265100
		Illumination level: See Table 8600-5	
		1 duplex receptacle	262726
		<u>Communications:</u>	
		N/A	
		<u>Electronic Safety and Security:</u>	
		N/A	
		<u>Miscellaneous:</u>	
		N/A	

NOTES:

1. Finishes/Features: Refer to Chapter 9 for specification references.



PROGRAM ACTIVITIES:

- Student small group work
- Independent student work
- Small group meetings

SPATIAL RELATIONSHIPS:

- Near academic core classrooms

ENVIRONMENTAL CONSIDERATIONS:

- Environmental sound control -
 wall only minimum STC 45
 ceiling minimum CAC 35, NRC 0.70

CAPACITY: 4 - 5 students
SIZE: 150 SF

NOTES:

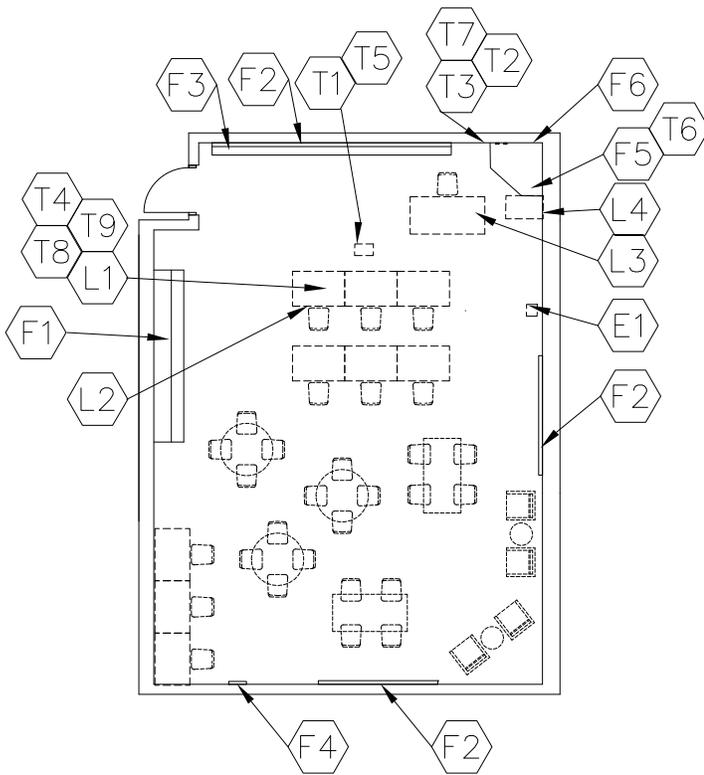
1. Loose furnishings shown represent one of many possible arrangements.

**SMALL GROUP ROOM
M-AC-7**

<u>FINISHES¹:</u>	Spec. <u>Ref.#</u>	<u>FEATURES¹:</u>	Spec. <u>Ref.#</u>
<u>Flooring:</u>		<u>Fixed Items:</u>	
ET, sheet vinyl, linoleum, or rubber	096500	F1 8'-10' combination marker board, tack board, & tackable wall surface	101100
	096516	F2 4'-6' of work surface fixed or loose (optional)	123550
	096813	F3 Pencil sharpener support (optional)	062000
<u>Base:</u>		<u>Fire Suppression:</u>	
Resilient base	096500	Fire suppression system	211000
<u>Ceiling:</u>		<u>Plumbing:</u>	
Suspended, acoustical	095113	N/A	
<u>Walls:</u>		<u>HVAC:</u>	
Painted concrete masonry units	042000/099100	Supply/return air system	Div. 23
<u>LOOSE FURNISHINGS:</u>		Independent temperature control (coupled with similarly loaded adjacent spaces)	230923
L1 Work tables and chairs		<u>Electrical:</u>	
L2 Reserved		Fluorescent lighting:	265100
Wastebasket		Illumination level: See Table 8600-5	
		4 duplex receptacles	262726
		Double duplex receptacle adjacent to each data and video port	262726
		<u>Communications:</u>	
		T1 Reserved	
		T2 voice port with phone	271513/273123
		T3 Wireless access point cable above ceiling	271513
		T4 Wireless access point (WAP) as determined by design – refer to note 2	271533
		Clock	275313
		Central sound system	275123
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
		<u>Miscellaneous:</u>	
		Interior windows (optional)	081113/088000
		Pencil sharpener (optional)	

NOTES:

1. Finishes/Features: Refer to Chapter 9 for specification references.
2. **Baseline includes WAP cable. WAP device quantity / placement per 272133 requirements.**



CAPACITY: 25 students
 SIZE: 1,500 SF

PROGRAM ACTIVITIES:

- Group instruction and individual work
- Activities include instruction, production, and individual project work
- “Wet / Dry” activities

SPATIAL RELATIONSHIPS:

- Near kinesthetic studio
- Near academic core classrooms

ENVIRONMENTAL CONSIDERATIONS:

- Environmental sound control -
 wall only minimum STC 45
 ceiling minimum CAC 35, NRC 0.70

MISCELLANEOUS:

- Due to the changing nature of the activities anticipated, a multi-use studio is to be designed for flexibility of use.

NOTES:

1. Loose furnishings shown represent one of many possible arrangements.

**MULTI-USE STUDIO
M-AC-8**

<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
<u>Flooring:</u>		<u>Fixed Items:</u>	
ET, sheet vinyl, linoleum, rubber	096500	F1 4'-16' of base & wall cabinets	123550
	096516	F2 18'-28' combination marker board, tack board, or tackable wall surface	101100
<u>Base:</u>		F3 Projection screen (optional)	115213
Resilient base	096500	F4 Pencil sharpener support (optional)	062000
<u>Ceiling:</u>		F5 Tall wardrobe with file drawers	123550
Suspended, acoustical	095113	F6 Technology support casework	123550
<u>Walls:</u>		<u>Fire Suppression:</u>	
Painted concrete masonry units	042000/099100	Fire suppression system	211000
<u>LOOSE FURNISHINGS:</u>		<u>PLUMBING:</u> N/A	
L1 Flexible furniture		<u>HVAC:</u>	
L2 Student chairs		Supply/return air system	Div. 23
L3 Teacher desk and chair		Independent temperature control	230923
L4 File cabinet		<u>Electrical:</u>	
Wastebasket		Fluorescent lighting	265100
		Illumination level: See Table 8600-5	
		Multilevel switching	262726
		6 duplex receptacles	262726
		Double duplex receptacle adjacent to each data and video port	262726
		<u>Communications:</u>	
		T1 1 projector video port	271543
		T2 1 voice port and phone	271513/273123
		T3 1 data port near teacher workstation	271513
		T4 Classroom area network (10 ports minimum)	271513
		Clock	275313
		Central sound system	275123
		Sound reinforcement system	275127
		T5 Ultra-short throw interactive projector	274119
		T6 Combination i-Pod / CD Player unit and Mixer/Amp unit, located in the wardrobe, serving room overhead distributed speakers	
		T7 Classroom technology center video port	271543, 274116, 274119, 275127
		T8 Wireless access point cable above ceiling	271513
		T9 Wireless access point (WAP) as determined by Design – refer to Note 3	272133
<u>Electronic Safety and Security:</u>			
Life safety devices per code	283111		
<u>Miscellaneous:</u>			
Pencil sharpener (optional)			
E1 Duplex receptacle with dedicated circuit for wireless devices			

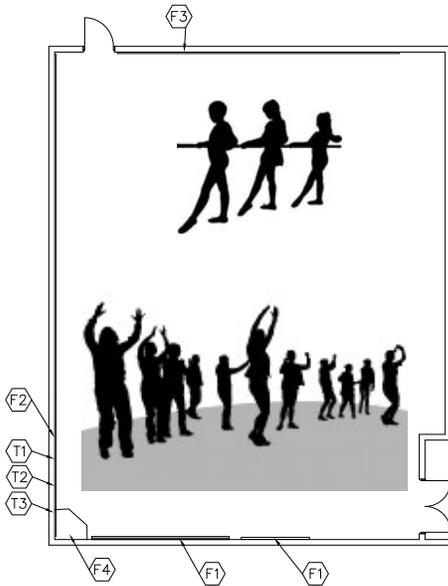
NOTES:

1. Finishes/Features: Refer to Chapter 9 for specification references.
2. Technology components may be placed in a separate small cabinet, or integrated in the other casework in the room.
3. Baseline includes WAP cable per classroom. WAP device quantity / placement per 272133 requirements.

1,600 SF



2,400 SF



CAPACITY: 22-25 students
 SIZE: 1,200 – 2,400 SF

PROGRAM ACTIVITIES:

- Gross motor activities
- Dance
- Aerobics
- Gymnastics
- “Movement” activities

SPATIAL RELATIONSHIPS:

- Near multi-use studio
- Near academic core spaces

ENVIRONMENTAL CONSIDERATIONS:

- Environmental sound control -
 wall only minimum STC 45
 ceiling minimum CAC 35, NRC 0.70
- Flexibility of space

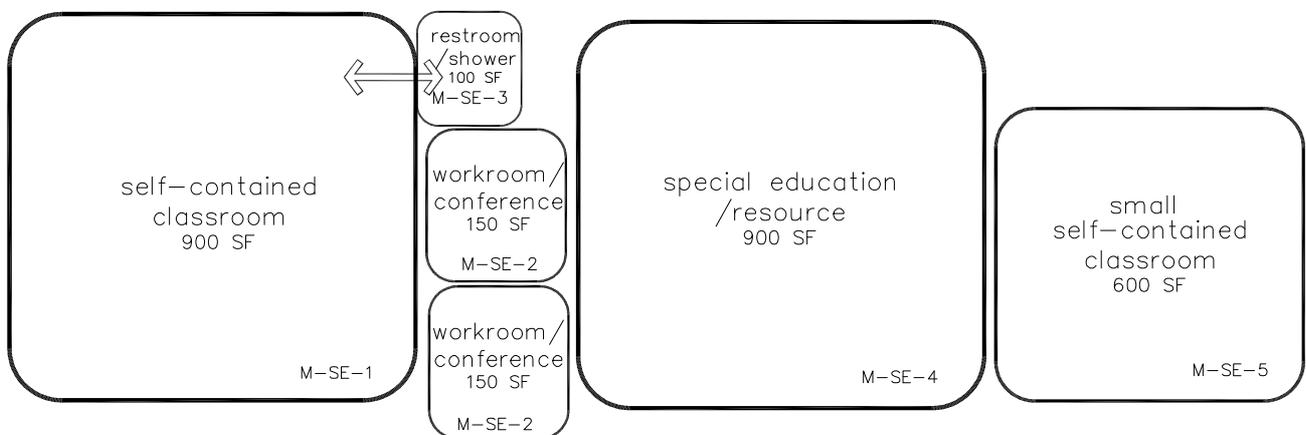
NOTES:

**KINESTHETIC LEARNING STUDIO
M-AC-9**

<u>FINISHES¹:</u>	<u>Spec. Ref.#</u>	<u>FEATURES:</u>	<u>Spec. Ref.#</u>
Flooring:		<u>Fixed Items:</u>	
Fluid applied athletic flooring	096766	F1 8'-24' combination marker board, tack board, or tackable wall surface	101100
Base:		F2 Mirrors	102813
Resilient base	096500	F3 Dance bars	116615
Ceiling:		F4 Tall wardrobe with file drawers	123550
Painted exposed structure	099100	<u>Fire Suppression:</u>	
Walls:		Fire suppression system	211000
Paint		<u>Plumbing:</u>	
099100		N/A	
		<u>HVAC:</u>	
		Supply/return air system	Div. 23
		Independent temperature control	230923
		<u>Electrical:</u>	
		Fluorescent lighting	265100
		Illumination level: See Table 8600-5	
		Multilevel switching	262726
		Dimmable lighting	262726
		6 duplex receptacles	262726
		Double duplex receptacle adjacent to each data and video port	262726
		Means of egress lighting	265100
		Emergency lighting per code	265100
		<u>Communications:</u>	
		T1 1 projector video port	271543
		T2 1 voice port and phone	271513/273123
		T3 1 data port	271513
		Clock	275313
		Central sound system horns	275123
		T4 Combination i-Pod / CD Player unit and Mixer/Amp unit, located in the wardrobe, serving room overhead distributed speakers	
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
		<u>Miscellaneous:</u>	
		N/A	

NOTES:

1. Finishes/Features: Refer to Chapter 9 for specification references.



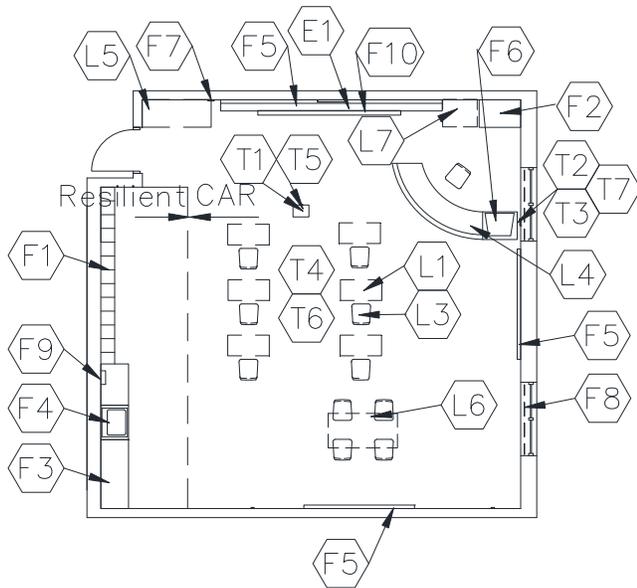
NOTES:

This is an example of how the special education spaces in a middle school could be arranged. This is meant only to demonstrate the relationships between various spaces of this area.

Following are the Special Education space plates:

- M-SE-1 Self-contained Classroom
- M-SE-2 Workroom/Conference
- M-SE-3 Restroom/Shower
- M-SE-4 Special Education/Resource
- M-SE-5 Small Self-contained Classroom

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CAPACITY: Based on disability.
See Chapter 1, Section 1110.

SIZE: 900 SF

PROGRAM ACTIVITIES:

- Accommodates students who have special needs and are unable to be included in regular instructional program areas a majority of the school day.
- Activities include, but are not limited to: group and individual work to improve auditory, tactile, visual, kinesthetic and academic skills.

SPATIAL RELATIONSHIPS:

- Near academic core classrooms
- Adjacent to special education restroom/shower

ENVIRONMENTAL CONSIDERATIONS:

- Required: View glass – minimum 5% without daylighting design; minimum 3% with daylighting design.
Recommended: Daylighting design with glazing area determined by design solution.
- Environmental sound control -
wall only minimum STC 45
ceiling minimum CAC 35, NRC 0.70
- Resilient and stain-resistant floor covering
- Special consideration for wheelchair access and physical accessibility needs (ADA)

NOTES:

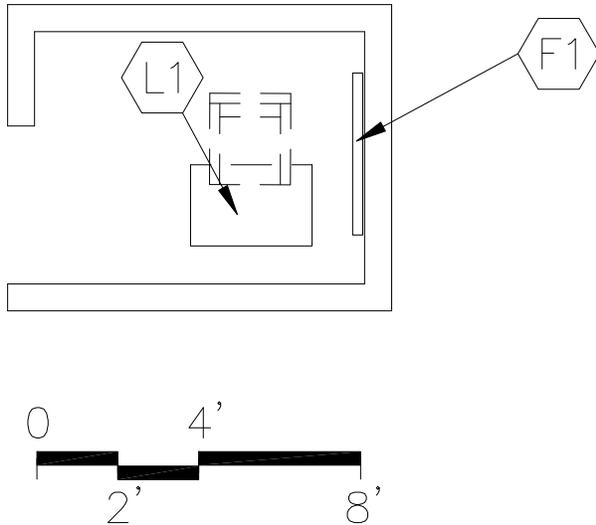
1. Loose furnishings shown represent one of many possible arrangements.
2. Depending upon the educational program of the district, a tall wardrobe may be located in this classroom or could be placed in a workroom/conference area.
3. See Chapter 1, page 1110-16 for specific areas needed for each disability.

**SELF-CONTAINED CLASSROOM
M-SE-1**

<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
<u>Flooring:</u>		<u>Fixed Items:</u>	
Combination carpet, carpet tile, with resilient options	096816 096500	F1 Open casework – student coats and personal items with wall cabinets above (optional) or base/wall/tall cabinets	123550 123550
Optional: All ET, sheet vinyl, linoleum, or rubber	096516	F2 Tall wardrobe w/file drawers	123550
096813		F3 8'-10' of base & wall cabinets	123550
		F4 3' sink base cabinet	123550
		F5 24'-32' combination marker board, tack board or tackable wall surface	101100
<u>Base:</u>		F6 Technology support casework	123550
Resilient base	096500	F7 Pencil sharpener support (optional)	062000
		F8 Windows with integral blinds	085113
<u>Ceiling:</u>		F9 Towel dispenser (optional)	102813
Suspended, acoustical	095113	F10 Projection screen (optional)	115213
<u>Walls:</u>		<u>Fire Suppression:</u>	
Paint	099100	Fire suppression system	211000
<u>LOOSE FURNISHINGS:</u>		<u>Plumbing:</u>	
L1 Student desks/tables		Sink with drinking fountain	224000
L2 Reserved		Plumbing connections	224000/221116/221119
L3 Student chairs		<u>HVAC:</u>	
L4 Teacher workstations/computer support and chair		Supply/return air system	Div. 23
L5 8'-10' of low bookcases (fixed or mobile)		Independent temperature control	230923
L6 Reading table		<u>Electrical:</u>	
L7 File cabinet		Fluorescent lighting	265100
Wastebasket		Illumination level: See Table 8600-5	
		Multilevel switching	262726
		4 duplex receptacles	262726
		Double duplex receptacle adjacent to each data and video port	262726
		<u>Communications:</u>	
		T1 1 projector video port	271543
		T2 1 voice port and phone	271513/273123
		T3 1 data port near teacher workstation	271513
		T4 Wireless access point cable above ceiling Clock	275313
		Central sound system	275123
		Sound reinforcement system	275127
		T5 Ultra-short throw interactive projector	274119
		T6 Wireless access point (WAP) as determined by Design – refer to Note 3	272133
		T7 Classroom technology center video port	271543, 274116, 274119, 275127
<u>Electronic Safety and Security:</u>			
Life safety devices per code	283111		
<u>Miscellaneous:</u>			
Pencil sharpener (optional)			
E1 Duplex receptacle with dedicated circuit for wireless devices			

NOTES:

1. Finishes/Features: Refer to Chapter 9 for specification references.
2. Technology components may be placed in a separate small cabinet, or integrated in the other casework in the room.
3. Baseline includes WAP cable per classroom. WAP device quantity / placement per 272133 requirements.
Note: Some casework may be mobile for flexibility and could become part of loose furnishings.

**PROGRAM ACTIVITIES:**

- Could be used for emotionally disturbed or other students requiring a quiet individual area.
- Preparation and storage of instructional materials and equipment.

SPATIAL RELATIONSHIPS:

- Close proximity to academic classrooms
- Integral part of self-contained classroom or special education/resource room

ENVIRONMENTAL CONSIDERATIONS:

- Environmental sound control
wall minimum STC 45
ceiling minimum CAC 35, NRC 0.70

CAPACITY: 1 - 2 persons
SIZE: 150 SF

NOTES:

1. Loose furnishings shown represent one of many possible arrangements.
2. Walls floor to ceiling and an open area for ½ of the fourth wall.
3. See Chapter 1, page 1110-16 for specific areas needed for each disability.

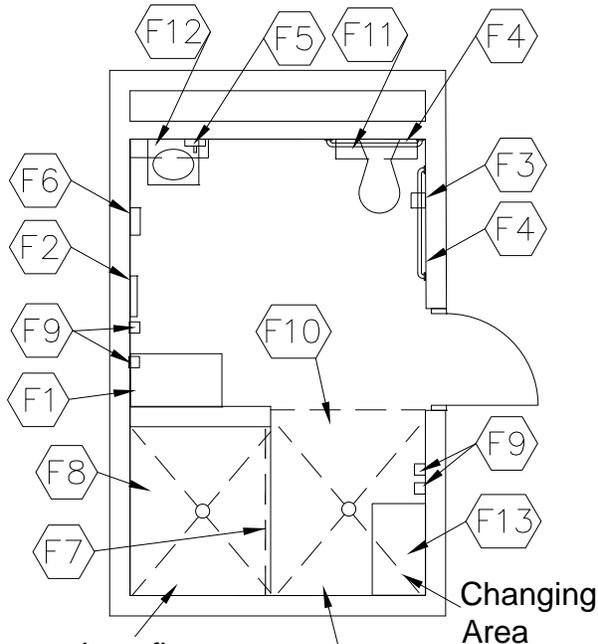
WORKROOM/CONFERENCE**M-SE-2 (Quiet Area)**

CHAPTER 5: MIDDLE SCHOOL

	Spec. Ref.#		Spec. Ref.#
<u>FINISHES¹:</u>		<u>FEATURES¹:</u>	
Flooring:		<u>Fixed Items:</u>	
Carpet, carpet tile, ET, linoleum, or sheet vinyl	096816 096500 096516 096813	F1 4' of tack board or marker board (optional)	101100
Base:		<u>Fire Suppression:</u>	
Resilient base	096500	Fire suppression system	211000
Ceiling:		<u>Plumbing:</u>	
Suspended, acoustical	095113	N/A	
Walls:		<u>HVAC:</u>	
Painted concrete masonry units	042000/099100	Supply/return air system	Div. 23
		Independent temperature control	230923
<u>LOOSE FURNISHINGS:</u>		<u>Electrical:</u>	
L1 Student desk and chair		Dimmable lighting	262726
Wastebasket		Fluorescent lighting	265100
		Illumination level: See Table 8600-5	
		1 duplex receptacle	262726
		<u>Communications:</u>	
		Clock (optional)	275313
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
		<u>Miscellaneous:</u>	
		Interior window with blinds (optional)	081113/088000

NOTES:

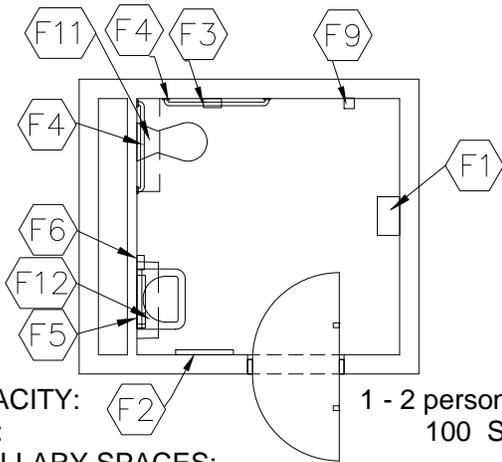
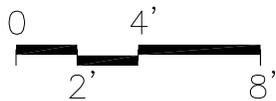
1. Finishes/Features: Refer to Chapter 9 for specification references.



Shower-slope floor;
no raised threshold;
5' x 5' for two people

Drying Area;
5' x 5' sloped floor

Changing
Area



CAPACITY:
SIZE:
ANCILLARY SPACES:

1 - 2 persons
100 SF

PROGRAM ACTIVITIES:

- Changing area
- Toilet / shower needs

SPATIAL RELATIONSHIPS:

- Next to self-contained classroom

ENVIRONMENTAL CONSIDERATIONS:

- Environmental sound control -
wall minimum STC 48
ceiling minimum CAC 35, NRC 0.70
- Moisture- and stain-resistant finishes
- Special consideration for wheelchair access
and physical accessibility needs (ADA)

NOTES:

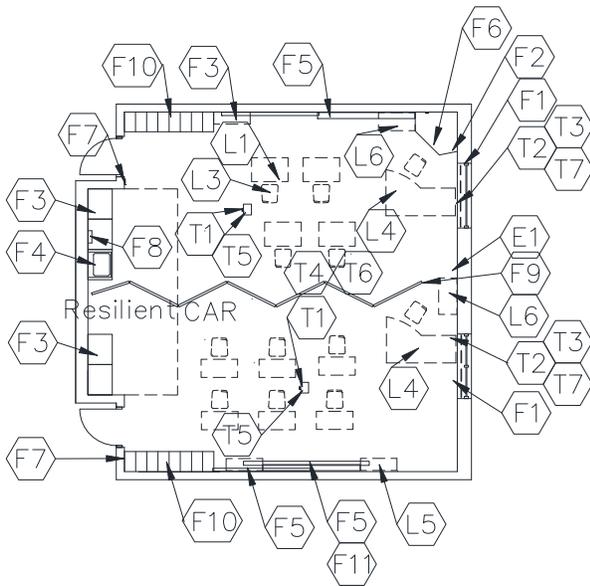
1. See Chapter 1, page 1110-16 for specific areas needed for each disability.

**RESTROOM/SHOWER
M-SE-3**

<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
<u>Flooring:</u>		<u>Fixed Items:</u>	
Ceramic mosaic tile, porcelain tile,	096516	F1 Base cabinets	123550
ET, vinyl sheet, rubber sheet	096500	F2 24" x 60" mirror	102813
flooring		F3 Toilet tissue holder	102813
Shower: Ceramic mosaic tile or	093000	F4 36" and 42" grab bar	102813
porcelain tile		F5 Soap dispenser	102813
		F6 Towel dispenser	102813
<u>Base:</u>		F7 Shower curtain and rod	102813
Restroom: Resilient base, ceramic	096500	F8 ADA shower accessories	102813
mosaic, porcelain tile, or	093000	F9 (2) towel hooks	102813
integral vinyl cove base		F10 Cubicle curtain	102813
Shower: Ceramic mosaic tile base,	093000	F11 8" deep wall cabinet above toilet	102813
porcelain tile, or integral vinyl cove base		F12 Shelf (optional)	102813
		F13 Changing station (fixed or loose)	123550
<u>Ceiling:</u>		<u>Fire Suppression:</u>	
Restroom: Suspended, acoustical	095113	Fire suppression system	283111
Shower: Painted portland			
cement plaster or	092400/099100	<u>Plumbing:</u>	
interior finish system	092513	Wall-mounted water closet	224000
		Wall-mounted lavatory	224000
<u>Walls:</u>		ADA shower controls and head	224000
Epoxy painted concrete		Plumbing connections	224000/221116/221119
masonry units	042000/099100		
or ceramic wall tile in shower	093000	<u>HVAC:</u>	
and latex paint in restroom	099100	Exhaust air system	Div. 23
		Supplemental heat as required	Div. 23
<u>LOOSE FURNISHINGS:</u>		<u>Electrical:</u>	
Wastebasket		Single level switching	262726
		Fluorescent lighting	265100
		Illumination level: See Table 8600-5	
		1 duplex receptacle	262726
		<u>Communications:</u>	
		Central sound system	275123
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
		<u>Miscellaneous:</u>	
		N/A	

NOTES:

1. Finishes/Features: Refer to Chapter 9 for specification references.
2. Refer to ADAAG 4.21 for grab bar and control locations.



CAPACITY: Based on disability.
See Chapter 1, Section 1110.
SIZE: 900 SF

PROGRAM ACTIVITIES:

- Accommodates students who have special needs with cognitive disability, hearing impairment, visual impairment, emotional disturbance, orthopedic impairment, autism, brain injury, learning-deaf-blindness disabilities.
- Variety of special services such as one-on-one instruction and small group instruction.
- Activities include, but are not limited to: group discussions, demonstrations, music activities, life skills, coping skills, speech, and visual and hearing support services.

SPATIAL RELATIONSHIPS:

- Near academic core classrooms
- The space will be used to accommodate the specific IEP requirements of each student

ENVIRONMENTAL CONSIDERATIONS:

- Required: View glass – minimum 5% without daylighting design; minimum 3% with daylighting design.
Recommended: Daylighting design with glazing area determined by design solution.
- Environmental sound control –
wall only minimum STC 45
ceiling minimum CAC 35, NRC 0.70

NOTES:

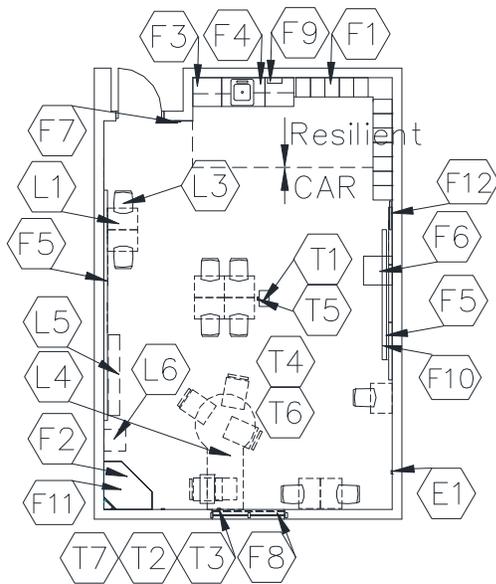
1. Loose furnishings shown represent one of many possible arrangements.
2. Depending upon the educational program of the district, a tall wardrobe may be located in this room or could be placed in a workroom/conference area.
3. See Chapter 1, page 1110-16 for specific areas needed for each disability.

**SPECIAL EDUCATION/RESOURCE
M-SE-4**

<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
<u>Flooring:</u>		<u>Fixed Items:</u>	
Combination carpet, carpet tile with resilient options	096816 096500	F1 Windows with integral blinds	085113 123550
Option: All ET, sheet vinyl, linoleum, or rubber	096516 096813	F2 Tall wardrobe with file drawers	123550
		F3 8'-12' of base cabinets	123550
		F4 3' sink base cabinet	123550
		F5 20'-32' combination chalk/marker board, tack board, tackable wall surface	101100
<u>Base:</u>		F6 Technology support casework	123550
Resilient base	096500	F7 Pencil sharpener support (optional)	062000
		F8 Towel dispenser (optional)	102813
<u>Ceiling:</u>		F9 Operable partition (optional)	102226
Suspended, acoustical	095113	F10 Open casework coats and personal storage w/wall cabinets above	123550
		F11 Projection screen (optional)	115213
<u>Walls:</u>		F12 Mobile storage cabinet (optional)	123550
Paint	099100	F13 Mirror (optional)	102813
<u>LOOSE FURNISHINGS:</u>		<u>Fire Suppression:</u>	
L1 Student desks/tables		Fire suppression system	211000
L2 Reserved		<u>Plumbing:</u>	
L3 Student chairs		Sink	224000
L4 Teacher desk / computer support and chair		Plumbing connections	224000/221116/221119
L5 Mobile bookcases or storage unit		<u>HVAC:</u>	
L6 File cabinet		Supply/return air system	Div. 23
Wastebasket		Independent temperature control	230923
		<u>Electrical:</u>	
		Fluorescent lighting	265100
		Illumination level: See Table 8600-5	
		Multilevel switching	262726
		4 duplex receptacles	262726
		Double duplex receptacle adjacent to each data and video port	262726
		<u>Communications:</u>	
		T1 1 projector video port	271543
		T2 1 voice port and phone	271513/237123
		T3 1 data port	
		near each teacher workstation	271513
		T4 Wireless access point cable above ceiling	271513
		Clock	275313
		Sound reinforcement system	275127
		Central sound system	275123
		T5 Ultra-short throw interactive projector	274119
E1 Duplex receptacle with dedicated circuit for wireless devices			
<u>Communications (cont'd):</u>			
T6 Wireless access point (WAP) as determined by Design – refer to Note 3	272133		
T7 Classroom technology center video port	271543, 274116, 274119, 275127		

NOTES:

1. Finishes/Features: Refer to Chapter 9 for specification references.
2. Technology components may be placed in a separate small cabinet, or integrated in the other casework in the room.
3. Baseline includes WAP cable per classroom. WAP device quantity / placement per 272133 requirements.



CAPACITY: Based on disability.
See Chapter 1, Section 1110.

SIZE: 600 SF

PROGRAM ACTIVITIES:

- Can accommodate students with cognitive, hearing, speech, language, emotional, orthopedic, autistic, brain injury, learning, deaf, and blindness. Services to include occupational, physical, and speech therapy.
- Accommodates students who have special needs and are unable to be included in regular instructional program areas.
- Activities include, but are not limited to: group discussions, demonstrations, music activities, listening skills, presentations, art and science projects, and small group activities.

SPATIAL RELATIONSHIPS:

- Distributed throughout academic core areas.

ENVIRONMENTAL CONSIDERATIONS:

- Required: View glass – minimum 5% without daylighting design; minimum 3% with daylighting design.
Recommended: Daylighting design with glazing area determined by design solution.
- Environmental sound control -
wall only minimum STC 45
ceiling minimum CAC 35, NRC 0.70
- Resilient and stain-resistant floor covering
- Special consideration for wheelchair access and physical accessibility needs (ADA)

NOTES:

1. Loose furnishings shown represent one of many possible arrangements.
2. Depending upon the educational program of the district, a tall wardrobe may be located in this classroom or could be placed in a workroom/conference area.
3. See Chapter 1, page 1110-16, for specific areas needed for each disability.

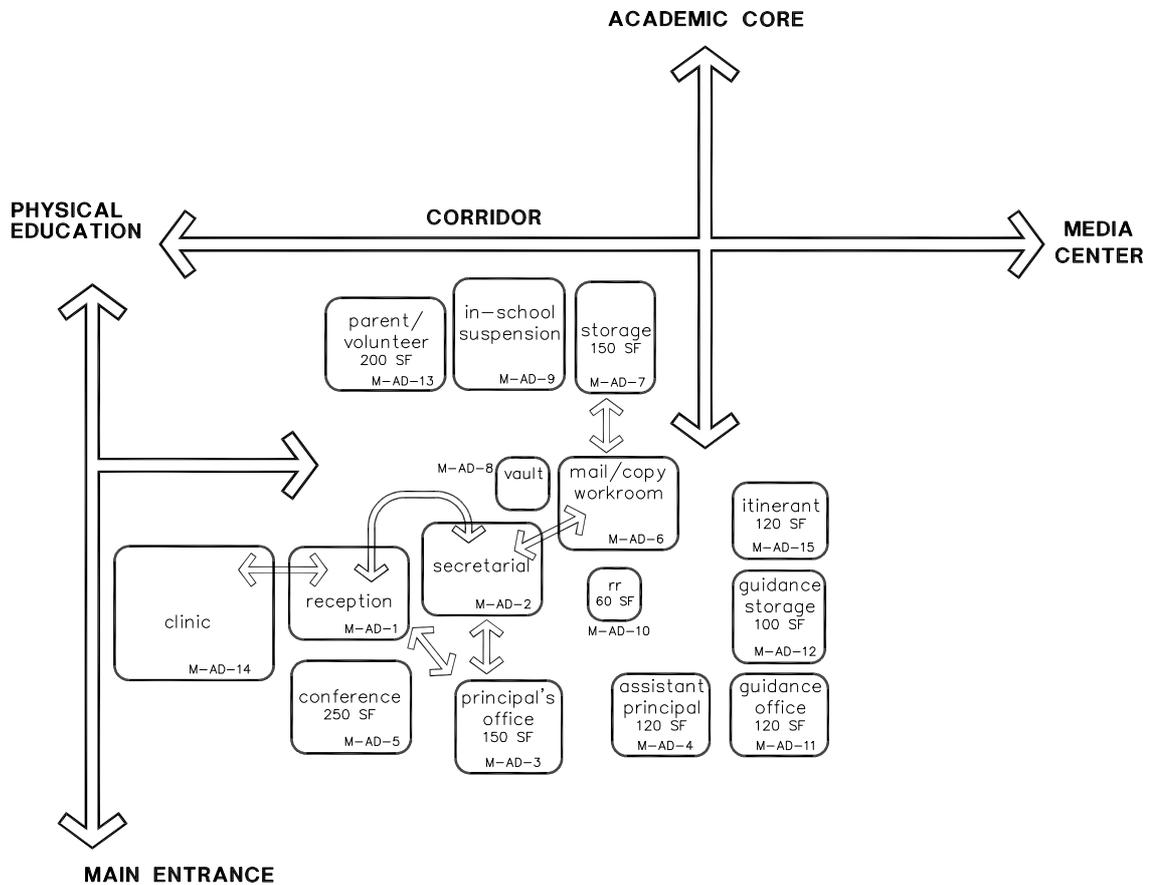
SMALL SELF-CONTAINED CLASSROOM

M-SE-5 (Special Education)

<u>FINISHES¹:</u>		Spec. Ref.#	<u>FEATURES¹:</u>		Spec. Ref.#
<u>Flooring:</u>			<u>Fixed Items:</u>		
Combination carpet, carpet tile, with resilient options		096816 096516	F1	Open casework – coats and personal items with wall cabinets above (optional) or base/wall/tall cabinets	123550
Option: All ET, sheet vinyl, linoleum or rubber		096500 096813	F2	Tall wardrobe w/file drawers	123550
			F3	About 6' of base & wall cabinets	123550
			F4	3' sink base cabinet	123550
			F5	20'-28' combination marker board, tack board, & tackable wall surface	101100
<u>Base:</u>			F6	Mobile storage cabinet (optional)	123550
Resilient base		096500	F7	Pencil sharpener support (optional)	062000
			F8	Windows with integral blinds	085113
<u>Ceiling:</u>			F9	Towel dispenser (optional)	102813
Suspended, acoustical		095113	F10	Projection screen (optional)	115213
			F11	Technology support casework	123550
<u>Walls:</u>			F12	Mirror (optional)	102813
Paint		099100			
			<u>Fire Suppression:</u>		
<u>LOOSE FURNISHINGS:</u>			Fire suppression system		211000
L1 Student desks/tables			<u>Plumbing:</u>		
L2 Reserved			Sink with drinking fountain		224000
L3 Student chairs			Plumbing connections		224000/221116/221119
L4 Teacher workstations/computer support and chair			<u>HVAC:</u>		
L5 6' of low bookcases (fixed or mobile) Wastebasket			Supply/return air system		Div. 23
			Independent temperature control		230923
			<u>Electrical:</u>		
			Fluorescent lighting		265100
			Illumination level: See Table 8600-5		
			Multilevel switching		262726
			4 duplex receptacles		262726
			Double duplex receptacle adjacent to each data and video port		262726
			<u>Communications:</u>		
			T1	1 projector video port	271543
			T2	1 voice port and phone	271513/273123
			T3	1 data port near teacher workstation	271513
			T4	Wireless access point cable above ceiling	271513
				Clock	275313
				Central sound system	275123
				Sound reinforcement system	275127
			T5	Ultra-short throw interactive projector	274119
			T6	Wireless access point (WAP) as determined by Design – refer to Note 3	272133
			T7	Classroom technology center video port	271543, 274116, 274119,
					275127

NOTES:

1. Finishes/Features: Refer to Chapter 9 for specification references.
2. Technology components may be placed in a separate small cabinet, or integrated in the other casework in the room.
3. Baseline includes WAP cable per classroom. WAP device quantity / placement per 272133 requirements.



NOTES:

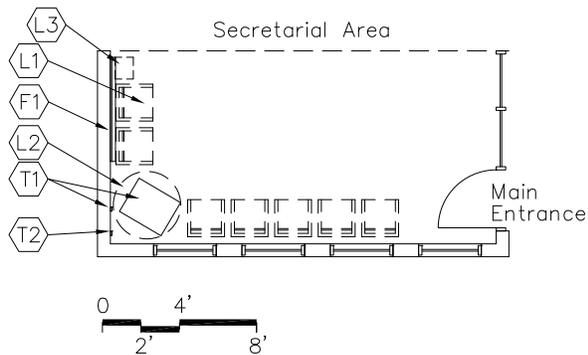
This is an example of how the administrative spaces in a middle school could be arranged. This is meant only to demonstrate the relationships between various spaces of this area.

Following are the Administrative space plates:

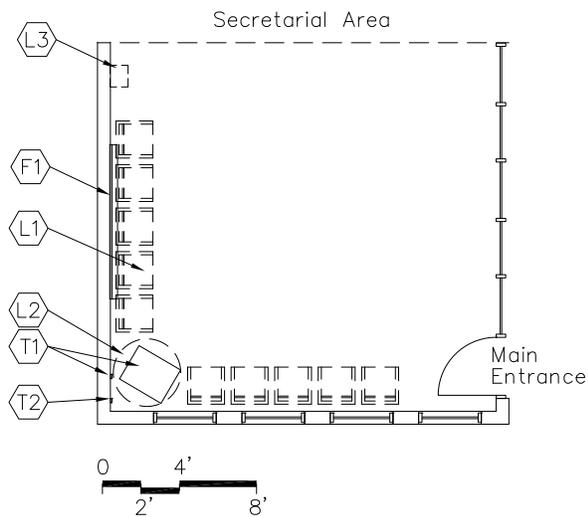
- M-AD-1 Reception Area
- M-AD-2 Secretarial Area
- M-AD-3 Principal's Office
- M-AD-4 Assistant Principal's Office
- M-AD-5 Conference Room
- M-AD-6 Mail/Work/Copy Room
- M-AD-7 Administrative Storage
- M-AD-8 Vault/Records Storage
- M-AD-9 In-school Suspension
- M-AD-10 Restroom
- M-AD-11 Guidance Counselor's Office
- M-AD-12 Guidance Records/Storage
- M-AD-13 Parent/Volunteer Room
- M-AD-14 Health Clinic (includes restroom)
- M-AD-15 Itinerant Personnel Office

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200 SF



400 SF



CAPACITY: 6 - 8 or 8 - 10 visitors
 SIZE: 200 - **450** SF
 ANCILLARY SPACES: Secretarial Area
 M-AD-2

PROGRAM ACTIVITIES:

- Serves as the main entry to the building
- Visitors may wait or are directed to other areas of the building.

SPATIAL RELATIONSHIPS:

- Access to all areas of the building
- Open to secretarial area
- Near principal's office
- Near main entrance to the building
- Visual access to main entrance of the building

ENVIRONMENTAL CONSIDERATIONS:

- Environmental sound control -
 wall minimum STC 40
 ceiling minimum CAC 35, NRC 0.70
- Audio and visual control from secretarial area

NOTES:

1. Loose furnishings shown represent one of many possible arrangements.

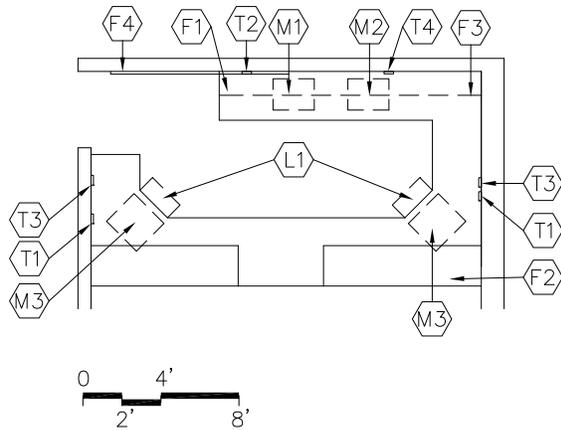
**RECEPTION AREA
M-AD-1**

<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
Flooring:		<u>Fixed Items:</u>	
Carpet or Carpet Tile	096816	F1 Tack board or tackable wall	
	096813	surface (optional)	101100
Base:		<u>Fire Suppression:</u>	
Resilient base	096500	Fire suppression system	211000
Ceiling:		<u>Plumbing:</u>	
Suspended, acoustical	095113	N/A	
Walls:		<u>HVAC:</u>	
Painted gypsum wallboard		Supply/return air system	Div. 23
over metal studs	092116/099100	Independent temperature control	230923
<u>LOOSE FURNISHINGS:</u>		<u>Electrical:</u>	
L1 Visitor chairs		Single level switching	262726
L2 End table		Fluorescent lighting	265100
L3 Racks for forms (optional)		Illumination level: See Table 8600-5	
Wastebasket		2 duplex receptacles	262726
		Double duplex receptacle adjacent	
		to video port	262726
		Means of egress lighting per code	265100
		<u>Communications:</u>	
		T1 1 projector video port, monitor, and brackets	
			271543/274119
		T2 1 voice port and phone	271513/273123
		Clock	275313
		Central sound system	275123
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
		<u>Miscellaneous:</u>	
		Interior windows	081113/088000

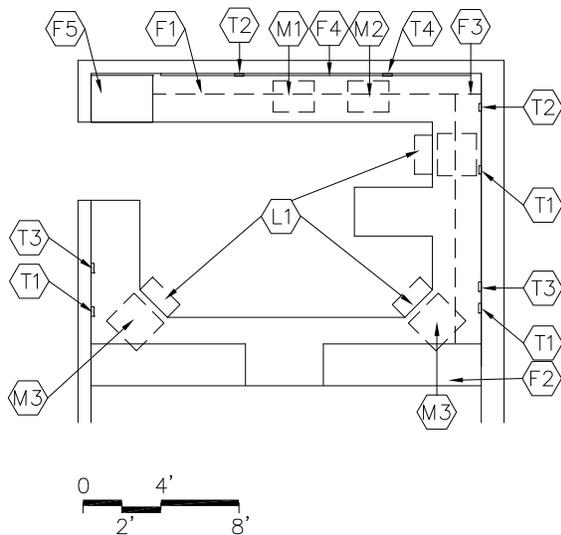
NOTES:

1. Finishes/Features: Refer to Chapter 9 for specification references.

200 SF ADA Compliant Approach



400 SF ADA Compliant Approach



CAPACITY: 1 - 2 or 2 - 3 staff
 SIZE: 200 - **450** SF
 ANCILLARY SPACES: Reception Area
 M-AD-1

PROGRAM ACTIVITIES:

- Conduct administrative support duties, and receive and direct visitors

SPATIAL RELATIONSHIPS:

- Easy access to all areas of the building
- Open to reception area
- Near principal's office
- Near main entrance to the building
- Visual access to main entrance of the building

ENVIRONMENTAL CONSIDERATIONS:

- Environmental sound control -
 wall minimum STC 40
 ceiling minimum CAC 35, NRC 0.70
- Audio and visual control of reception area

NOTES:

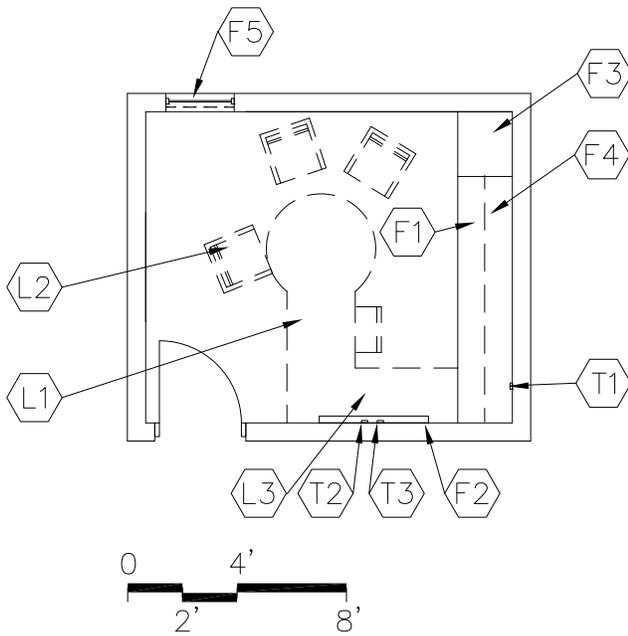
1. Loose furnishings shown represent one of many possible arrangements.

**SECRETARIAL AREA
M-AD-2**

<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
<u>Flooring:</u>		<u>Fixed Items²:</u>	
Carpet or Carpet Tile	096816 096813	F1 24' - 60' of work surface with file drawers	123550 123550
<u>Base:</u>		F2 42" high counter top with portion of counter 34" high or lower	123550
Resilient base	096500	F3 16'-24' of wall cabinets (optional) for forms, supplies, books, and manuals	123550
<u>Ceiling:</u>		F4 Tackable wall surface (optional)	101100
Suspended, acoustical	095113	F5 Tall cabinet for coats (optional)	123550
<u>Walls:</u>		<u>Fire Suppression:</u>	
Painted gypsum wallboard over metal studs	092116/099100	Fire suppression system	211000
<u>LOOSE FURNISHINGS:</u>		<u>Plumbing:</u>	
L1 Secretarial chairs		N/A	
Wastebasket		<u>HVAC:</u>	
		Supply/return air system	Div. 23
		Temperature control with reception area (coupled with similarly loaded adjacent spaces)	230923
		<u>Electrical:</u>	
		Single level switching	262726
		Fluorescent lighting	265100
		Illumination level: See Table 8600-5	
		3 duplex receptacles	262726
		Double duplex receptacle adjacent to each data port	262726
		Emergency lighting	265100
		<u>Communications:</u>	
		T1 1 voice port and phone at each secretarial workstation	271513/ 273123
		T2 1 fax port	271513/273113
		T3 1 data port at each secretarial workstation	271513
		T4 1 data port for printer	271513
		Central sound system	275123
		Clock	275313
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
<u>Miscellaneous:</u>			
The following items are to be funded by the school district:			
M1 Fax machine			
M2 Printer			
M3 Computer/typewriter			

NOTES:

1. Finishes/Features: Refer to Chapter 9 for specification references.
2. Ranges shown illustrate quantities for the smallest and largest possible room size.



PROGRAM ACTIVITIES:

- Instructional and administrative leader of the building
- One-on-one conferences with parents, small group meetings, and coordination of administrative tasks

SPATIAL RELATIONSHIPS:

- Near reception area
- Near secretarial area
- Easy access to school circulation areas
- Near main entrance to the building
- Near conference room

ENVIRONMENTAL CONSIDERATIONS:

- Environmental sound control -
wall minimum STC 45
ceiling minimum CAC 35, NRC 0.70

CAPACITY: 1 - 4 persons
SIZE: 150 SF

NOTES:

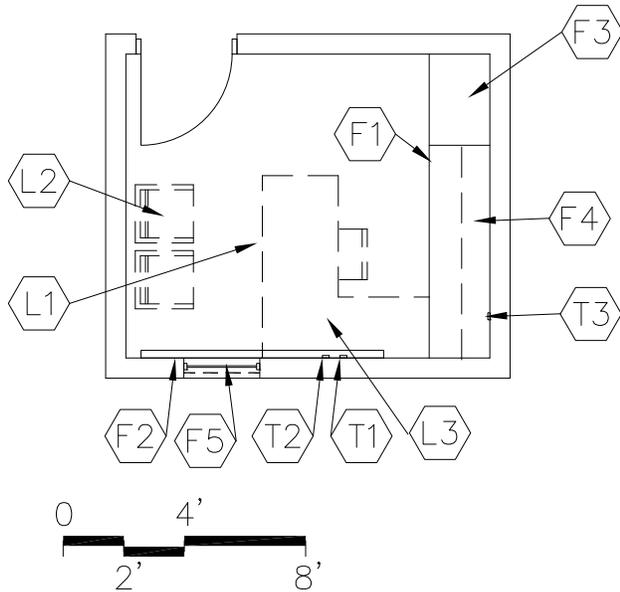
1. Loose furnishings shown represent one of many possible arrangements.

**PRINCIPAL'S OFFICE
M-AD-3**

<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
<u>Flooring:</u>		<u>Fixed Items:</u>	
Carpet or Carpet Tile	096816	F1 Work surface with file drawers	123550
	096813	F2 4' of tack board, marker board or tackable wall surface	101100
<u>Base:</u>		F3 Tall wardrobe (optional)	123550
Resilient base	096500	F4 Wall cabinets above work surface	123550
<u>Ceiling:</u>		F5 Window with integral blinds	085113
Suspended, acoustical	095113	Coat hook (optional)	
<u>Walls:</u>		<u>Fire Suppression:</u>	
Painted gypsum wallboard over metal studs	092116/099100	Fire suppression system	211000
<u>LOOSE FURNISHINGS:</u>		<u>Plumbing:</u>	
L1 Desk and chair		N/A	
L2 Visitor chairs		<u>HVAC:</u>	
L3 Computer desk return		Supply/return air system	Div. 23
Wastebasket		Independent temperature control (coupled with similarly loaded adjacent spaces)	230923
		<u>Electrical:</u>	
		Single level switching	262726
		Fluorescent lighting	265100
		Illumination level: See Table 8600-5	
		4 duplex receptacles	262726
		Double duplex receptacle adjacent to each data and video port	262726
		<u>Communications:</u>	
		T1 1 projector video port	271543
		T2 1 voice port and phone	271513/273123
		T3 1 data port near workstation	271513
		Central sound system	275123
		Clock	275313
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
		<u>Miscellaneous:</u>	
		N/A	

NOTES:

1. Finishes/Features: Refer to Chapter 9 for specification references. Optional: moveable cabinets
2. Fixed casework and loose furnishings can also be all fixed casework or all loose furnishings.



PROGRAM ACTIVITIES:

- To assist principal in administrative tasks
- One-on-one conferences with parents and coordination of administrative tasks

SPATIAL RELATIONSHIPS:

- Near reception area
- Near secretarial area
- Direct access to school circulation areas
- Near main entrance to the building
- Near or accessible to principal's office
- Near conference room

ENVIRONMENTAL CONSIDERATIONS:

- Environmental sound control -
wall minimum STC 45
ceiling minimum CAC 35, NRC 0.70

CAPACITY: 1 - 3 persons
SIZE: 120 SF

NOTES:

1. Loose furnishings shown represent one of many possible arrangements.

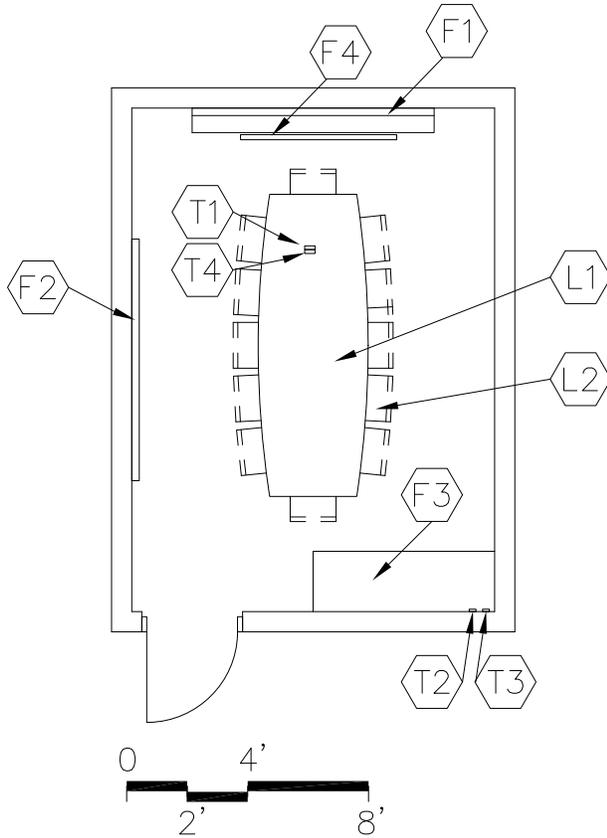
**ASSISTANT PRINCIPAL'S OFFICE
M-AD-4**

CHAPTER 5: MIDDLE SCHOOL

<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
Flooring:		<u>Fixed Items:</u>	
Carpet or Carpet Tile	096816	F1 Work surface with file drawers	123550
	096813	F2 4' of tack board, marker board, or tackable wall surface	101100
Base:		F3 Tall wardrobe	123550
Resilient base	096500	F4 Wall cabinets above work surface	123550
Ceiling:		F5 Window with integral blinds	085113
Suspended, acoustical	095113	Coat hook (optional)	
Walls:		<u>Fire Suppression:</u>	
Painted gypsum wallboard over metal studs	092116/099100	Fire suppression system	211000
<u>LOOSE FURNISHINGS:</u>		<u>Plumbing:</u>	
L1 Desk and chair		N/A	
L2 Visitor chairs		<u>HVAC:</u>	
L3 Computer desk return		Supply/return air system	Div. 23
Wastebasket		Independent temperature control (coupled with similarly loaded adjacent spaces)	230923
		<u>Electrical:</u>	
		Single level switching	262726
		Fluorescent lighting	265100
		Illumination level: See Table 8600-5	
		4 duplex receptacles	262726
		Double duplex receptacle adjacent to data and video port	262726
		<u>Communications:</u>	
		T1 1 voice port and phone	271513/273123
		T2 1 data port near workstation	271513
		T3 1 projector video port	271543
		Central sound system	275123
		Clock	275313
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
		<u>Miscellaneous:</u>	
		N/A	

NOTES:

1. Finishes/Features: Refer to Chapter 9 for specification references. Optional: moveable cabinets
2. Fixed casework and loose furnishings can also be all fixed casework or all loose furnishings.



PROGRAM ACTIVITIES:

- Conferences with staff, students, parents, and other community groups

SPATIAL RELATIONSHIPS:

- Near principal's office
- Near assistant principal's office
- Near reception area
- Near secretarial area

ENVIRONMENTAL CONSIDERATIONS:

- Environmental sound control -
wall minimum STC 45
ceiling minimum CAC 35, NRC 0.70
- Optional – window with integral blind

CAPACITY: 12 – 15 persons
 SIZE: 250 SF

NOTES:

1. Loose furnishings shown represent one of many possible arrangements.

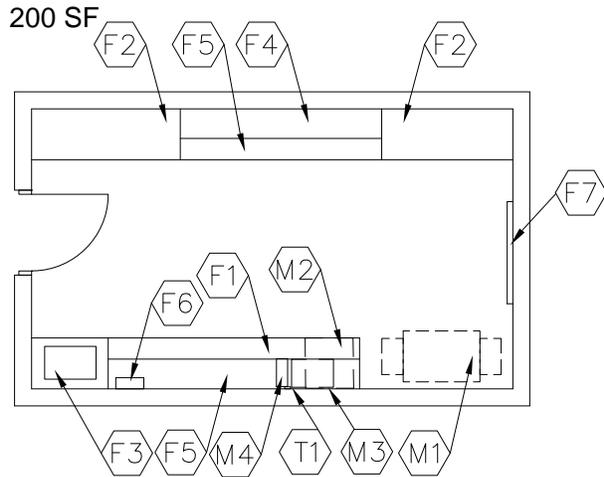
**CONFERENCE ROOM
M-AD-5**

CHAPTER 5: MIDDLE SCHOOL

<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
Flooring:		Fixed Items:	
Carpet or Carpet Tile	096816	F1 About 16' combination marker board, tack board, & tackable wall surface or media display cabinet	101100
Base:		F2 Reserved	
Resilient base	096500	F3 Base cabinets (optional)	123550
Ceiling:		F4 Projection screen (optional)	115213
Suspended, acoustical	095113	Coat hooks (optional)	
Walls:		<u>Fire Suppression:</u>	
Painted gypsum wallboard over metal studs	092116/099100	Fire suppression system	211000
<u>LOOSE FURNISHINGS:</u>		<u>Plumbing:</u>	
L1 Conference table		N/A	
L2 Chairs		<u>HVAC:</u>	
Wastebasket		Supply/return air system	Div. 23
		Independent temperature control	230923
		<u>Electrical:</u>	
		Multilevel switching	262726
		Fluorescent lighting	265100
		Illumination level: See Table 8600-5	
		3 duplex receptacles	262726
		Double duplex receptacle adjacent to each data and video port	262726
		<u>Communications:</u>	
		T1 1 projector video port	271543
		T2 1 voice port and phone	271513/273123
		T3 1 data port	271513
		Clock	275313
		Central sound system	275123
		T4 Ultra-short throw interactive projector	274119
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
		<u>Miscellaneous:</u>	
		N/A	

NOTES:

1. Finishes/Features: Refer to Chapter 9 for specification references.
2. Fixed casework and loose furnishings can also be all fixed casework or all loose furnishings.



PROGRAM ACTIVITIES:

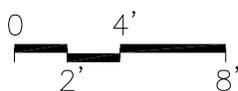
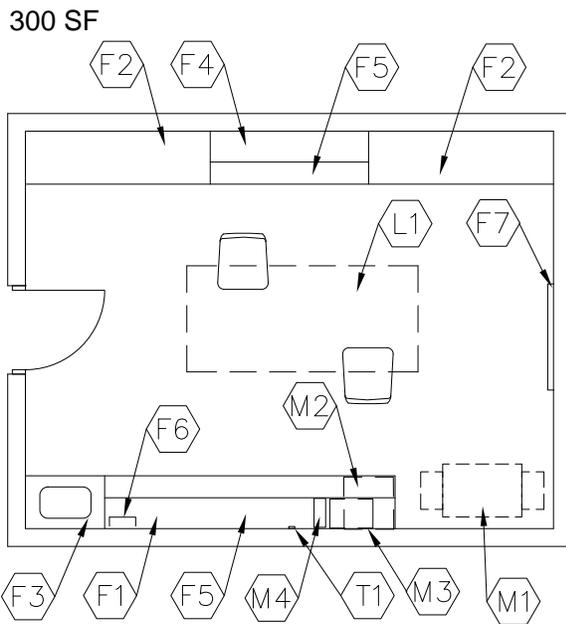
- Distribution area for preparation/copying of mail and materials.
- Staff receives messages and obtains supplies.

SPATIAL RELATIONSHIPS:

- Near secretarial area

ENVIRONMENTAL CONSIDERATIONS:

- Environmental sound control -
wall minimum STC 40
ceiling minimum CAC 35, NRC 0.70



CAPACITY: N/A
SIZE: 200 - 400 SF

NOTES:

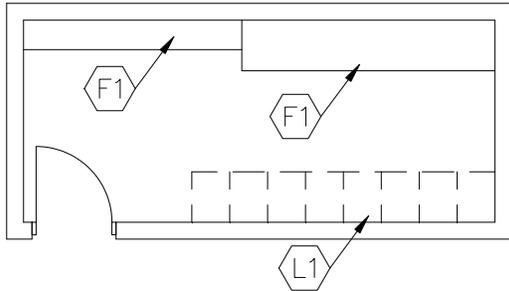
1. The mail cubicles can be either on the wall or through the wall.

**MAIL/WORK/COPY ROOM
M-AD-6**

<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
Flooring:		<u>Fixed Items:</u>	
Carpet, carpet tile, rubber, linoleum, ET or sheet vinyl	096500 096813 096816 096516	F1 About 10' of base & wall cabinets	123550 123550
		or about 28'-32' combination storage cabinets	
Base:		F3 3' sink base cabinet	123550
Resilient base	096500	F4 Mail cubicles for all staff	123200
		F5 Reserved	
Ceiling:		F6 Towel dispenser (optional)	102813
Suspended, acoustical	095113	F7 4' tack board or marker board (optional)	101100
Walls:		<u>Fire Suppression:</u>	
Painted gypsum wallboard over metal studs	092116/099100	Fire suppression system	211000
<u>LOOSE FURNISHINGS:</u>		<u>Plumbing:</u>	
L1 Work table and chairs (applicable in 300 SF space only)		Sink	224000
Wastebasket		Plumbing connections	224000/221116/221119
		<u>HVAC:</u>	
		Supply/return air system	Div. 23
		Independent temperature control	230923
		<u>Electrical:</u>	
		Single level switching	262726
		Fluorescent lighting	265100
		Illumination level: See Table 8600-5	
		3 - 5 duplex receptacles	262726
		Receptacle for copier	262726
		<u>Communications:</u>	
		T1 1 voice port and phone	271513/ 273123
		Clock	275313
		Central sound system	275123
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
		<u>Miscellaneous:</u>	
		The following item is to be funded by the school district:	
		M1 Copier	
		M2 Undercounter refrigerator	
		M3 Microwave	
		M4 Coffee maker	

NOTES:

1. Finishes/Features: Refer to Chapter 9 for specification references.



CAPACITY: N/A
 SIZE: 150 - 200 SF

PROGRAM ACTIVITIES:

- Supplies, books, records, forms, and equipment storage

SPATIAL RELATIONSHIPS:

- Near mail/work/copy room
- Near vault/records storage

ENVIRONMENTAL CONSIDERATIONS:

N/A

NOTES:

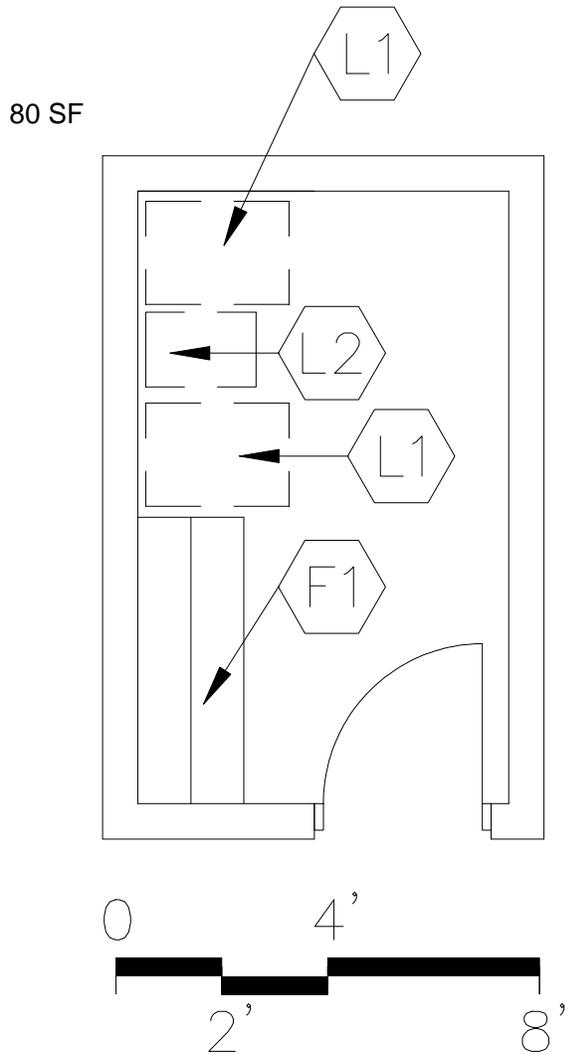
1. Loose furnishings shown represent one of many possible arrangements.

**ADMINISTRATIVE STORAGE
M-AD-7**

	Spec. Ref.#		Spec. Ref.#
<u>FINISHES¹:</u>		<u>FEATURES¹:</u>	
Flooring:		<u>Fixed Items:</u>	
Rubber, carpet, carpet tile, linoleum, ET or sheet vinyl	096500 096813 096816 096516	F1 10'-20' of open shelving, depth may vary (optional – or additional files)	123550 105626
Option: mobile storage shelving			
Base:		<u>Fire Suppression:</u>	
Resilient base	096500	Fire suppression system	211000
Ceiling:		<u>Plumbing:</u>	
Suspended, acoustical	095113	N/A	
Walls:		<u>HVAC:</u>	
Painted gypsum wallboard over metal studs	092116/099100	To be determined by Design Professional	
		Supplemental heat as required	Div. 23
<u>LOOSE FURNISHINGS:</u>		<u>Electrical:</u>	
L1 File cabinets		Single level switching	262726
		Fluorescent lighting	265100
		Illumination level: See Table 8600-5	
		1 duplex receptacle	262726
		<u>Communications:</u>	
		N/A	
		<u>Electronic Safety and Security:</u>	
		N/A	
		<u>Miscellaneous:</u>	
		N/A	

NOTES:

1. Finishes/Features: Refer to Chapter 9 for specification references.



CAPACITY: N/A
 SIZE: 80 - 115 SF

PROGRAM ACTIVITIES:

- Storage of records and security files in a secure area

SPATIAL RELATIONSHIPS:

- Access to guidance area
- Access to secretarial personnel

ENVIRONMENTAL CONSIDERATIONS:

N/A

NOTES:

1. Loose furnishings shown represent one of many possible arrangements.

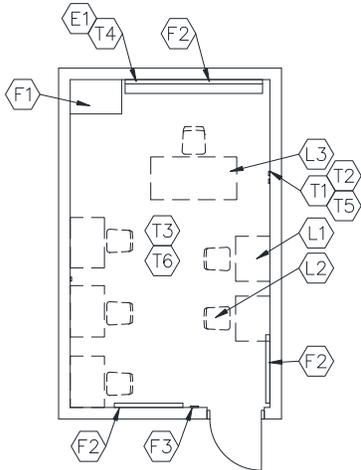
**VAULT/RECORDS STORAGE
M-AD-8**

<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
Flooring:		<u>Fixed Items:</u>	
Rubber, carpet, carpet tile, linoleum, ET or sheet vinyl	096500 096813 096816 096516	F1 3'-6' of open shelving, (optional – or additional files) (depth may vary) (fixed or loose)	123550
		Option: mobile storage shelving	105626
Base:		<u>Fire Suppression:</u>	
Resilient base	096500	Fire suppression system	211000
Ceiling:		<u>Plumbing:</u>	
Rated 2-hour construction	---	N/A	
Walls:		<u>HVAC:</u>	
Rated 2-hour construction		To be determined by Design Professional	
Painted concrete masonry units or	042000/099100	<u>Electrical:</u>	
Painted gypsum wallboard over metal studs	092116/099100	Single level switching	262726
		Fluorescent lighting	265100
		Illumination level: See Table 8600-5	
		1 duplex receptacle	262726
<u>LOOSE FURNISHINGS:</u>		<u>Communications:</u>	
L1 File cabinets		N/A	
L2 Safe (loose or fixed)		<u>Electronic Safety and Security:</u>	
		N/A	
		<u>Miscellaneous:</u>	
		Wall, ceiling, and door construction to have a 2-hour fire rating	

NOTES:

1. Finishes/Features: Refer to Chapter 9 for specification references.

200 SF



PROGRAM ACTIVITIES:

- Instructional area for students who require time away from the normal classroom due to behavioral problems

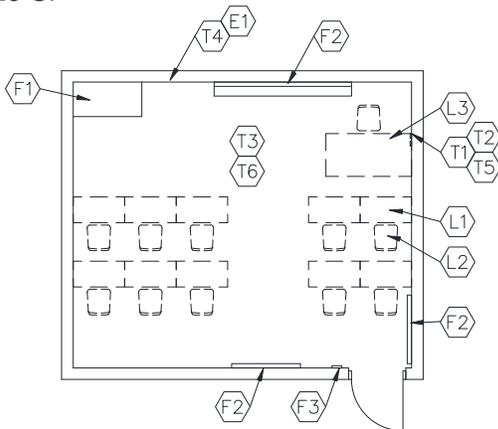
SPATIAL RELATIONSHIPS:

- Near principal's office
- Near secretarial area

ENVIRONMENTAL CONSIDERATIONS:

- Environmental sound control -
wall minimum STC 45
ceiling minimum CAC 35, NRC 0.70
- Optional – window with integral blind

325 SF



CAPACITY: 5 - 8 students
SIZE: 200 - 600 SF

NOTES:

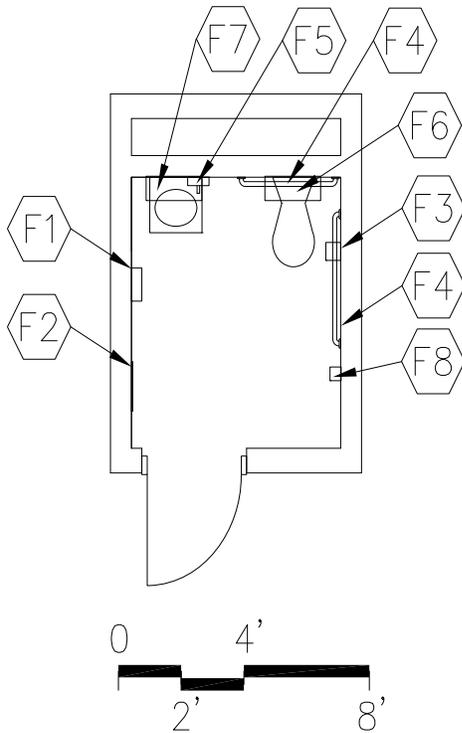
1. Loose furnishings shown represent one of many possible arrangements.

**IN-SCHOOL SUSPENSION
M-AD-9**

<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
<u>Flooring:</u>		<u>Fixed Items:</u>	
Carpet, carpet tile, ET, linoleum, rubber, or sheet vinyl	096816 096500 096516 096813	F1 3'-4' of base cabinets (optional) F2 10'-16' combination marker board, tackboard or tackable wall surface F3 Pencil sharpener support (optional)	123550 101100 062000
<u>Base:</u>		<u>Fire Suppression:</u>	
Resilient base	096500	Fire suppression system	211000
<u>Ceiling:</u>		<u>Plumbing:</u>	
Suspended, acoustical	095113	N/A	
<u>Walls:</u>		<u>HVAC:</u>	
Paint 092113		Supply/return air system Independent temperature control	Div. 23 230923
<u>LOOSE FURNISHINGS:</u>		<u>Electrical:</u>	
L1 Student carrels and/or desks L2 Student chairs L3 Teacher workstation and chair L4 Reserved Wastebasket		Single level switching Fluorescent lighting Illumination level: See Table 8600-5 4 duplex receptacles Double duplex receptacle adjacent to each data and video port	262726 265100 262726 262726
<u>Electronic Safety and Security:</u>		<u>Communications:</u>	
Life safety devices per code	283111	T1 1 voice port and phone T2 1 data port near teacher workstation T3 Wireless access point cable above ceiling	271513/273123 271513 271513
E1 Duplex receptacle with dedicated circuit for wireless devices		T4 1 projector video port Clock Central sound system T5 Classroom technology center video port	271543 275313 275123 271543, 274116, 274119, 275127
<u>Miscellaneous:</u>		T6 Wireless access point (WAP) as determined by Design – refer to Note 2	
Pencil sharpener (optional)			272133

NOTES:

1. Finishes/Features: Refer to Chapter 9 for specification references.
2. Baseline includes WAP cable per classroom. WAP device quantity / placement per 272133 requirements.



PROGRAM ACTIVITIES:

- Personal and health needs for teachers and staff
- Restroom facilities for clinic

SPATIAL RELATIONSHIPS:

- Located in the administrative area

ENVIRONMENTAL CONSIDERATIONS:

- Environmental sound control -
wall minimum STC 48
ceiling minimum CAC 35, NRC 0.70
- Moisture- and stain-resistant finishes

CAPACITY: 1 person
 SIZE: **60 SF**

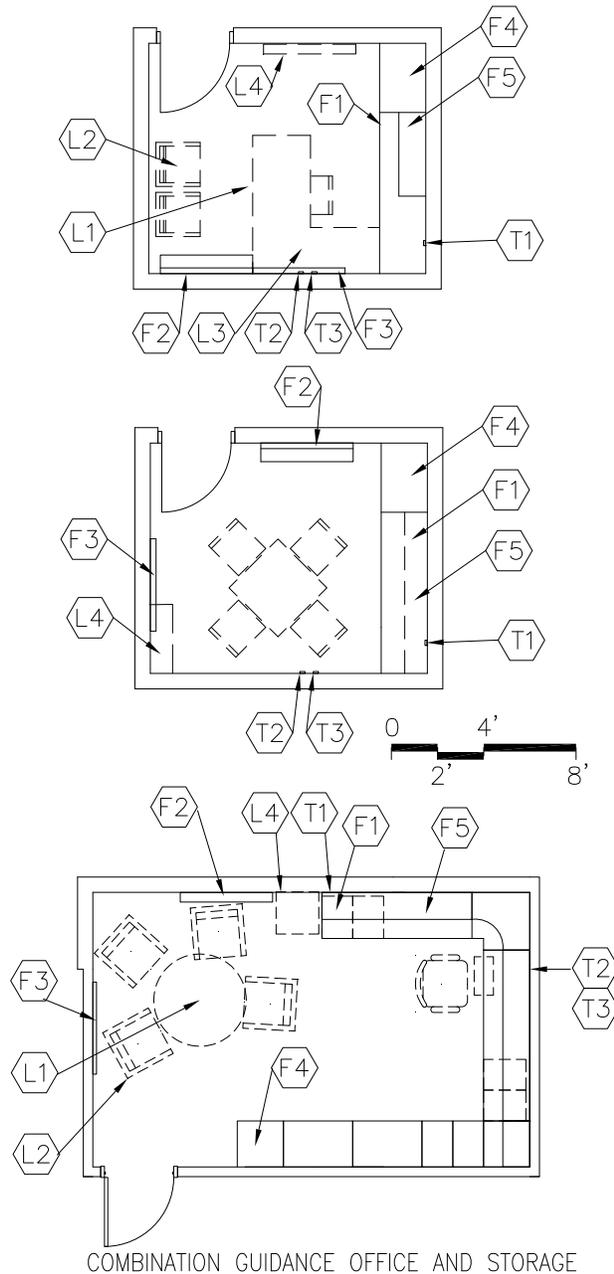
NOTES:

**RESTROOM
M-AD-10**

<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
<u>Flooring:</u>		<u>Fixed Items:</u>	
ET or sheet vinyl	096500	F1 Towel dispenser	102813
Optional: ceramic mosaic tile, porcelain tile, or resinous flooring	093000 096723	F2 24" x 60" mirror	102813
		F3 Toilet tissue holder	102813
		F4 36" and 42" grab bar	102813
		F5 Soap dispenser	102813
<u>Base:</u>		F6 8" deep wall cabinet above toilet for supplies (optional)	102813
Resilient base	096500	F7 Stainless steel shelf (optional)	102813
Optional: ceramic mosaic tile, porcelain tile, resinous flooring, or integral vinyl cove base	093000 096723	F8 Coat hook	102813
		<u>Fire Suppression:</u>	
<u>Ceiling:</u>		Fire suppression system	211000
Suspended, acoustical	095113	<u>Plumbing:</u>	
<u>Walls:</u>		Wall-mounted water closet	224000
Painted concrete masonry units	042000/099100	Wall-mounted lavatory	224000
Optional: moisture & abuse-resistant gypsum wall board	092116/099100	Plumbing connections	224000/221116/221119
<u>LOOSE FURNISHINGS:</u>		<u>HVAC:</u>	
Wastebasket		Exhaust air system	Div. 23
		Supplemental heat as required	Div. 23
		<u>Electrical:</u>	
		Single level switching	262726
		Fluorescent lighting	265100
		Illumination level: See Table 8600-5	
		1 duplex receptacle	262726
		<u>Communications:</u>	
		Central sound system	275123
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
		<u>Miscellaneous:</u>	
		N/A	

NOTES:

1. Finishes/Features: Refer to Chapter 9 for specification references.



CAPACITY: 1 - 3 persons
SIZE: 120 SF

PROGRAM ACTIVITIES:

- Guidance counselor to do individual work and provide assistance to students
- One-on-one conferences with parents and coordination of administrative tasks
- Could be combined with guidance records/storage

SPATIAL RELATIONSHIPS:

- Near guidance/records storage
- Near reception area
- Near secretarial area
- Access to school circulation areas

ENVIRONMENTAL CONSIDERATIONS:

- Environmental sound control - wall minimum STC 45
ceiling minimum CAC 35, NRC 0.70
- Optional – window with integral blind

NOTES:

1. Loose furnishings shown represent one of many possible arrangements.

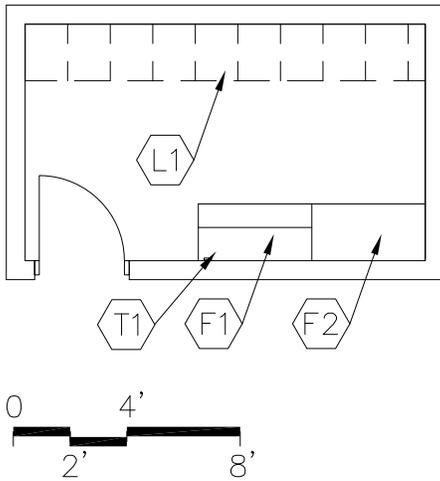
**GUIDANCE COUNSELOR'S OFFICE
M-AD-11**

CHAPTER 5: MIDDLE SCHOOL

<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
<u>Flooring:</u>		<u>Fixed Items:</u>	
Carpet or Carpet Tile	096816	F1 Work surface with file drawers	123550
	096813	F2 4'-8' combination marker board, tack board or tackable wall surface	101100
<u>Base:</u>		F3 Reserved	
Resilient base	096500	F4 Tall wardrobe	123550
<u>Ceiling:</u>		F5 Wall cabinets	123550
Suspended, acoustical	095113	Coat hook (optional)	
<u>Walls:</u>		<u>Fire Suppression:</u>	
Painted gypsum wallboard over metal studs	092116/099100	Fire suppression system	211000
<u>LOOSE FURNISHINGS:</u>		<u>Plumbing:</u>	
L1 Desk or table, with chair		N/A	
L2 Visitor chairs		<u>HVAC:</u>	
L3 Computer desk return		Supply/return air system	Div. 23
L4 Bookcase (fixed or loose)		Independent temperature control (coupled with similarly loaded adjacent spaces)	230923
Wastebasket		<u>Electrical:</u>	
		Single level switching	262726
		Fluorescent lighting	265100
		Illumination level: See Table 8600-5	
		4 duplex receptacles	262726
		Double duplex receptacle adjacent to each data and video port	262726
		<u>Communications:</u>	
		T1 1 projector video port	271543
		T2 1 voice port and phone	271513/273123
		T3 1 data port near workstation	271513
		Central sound system	275123
		Clock	275313
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
		<u>Miscellaneous:</u>	
		N/A	

NOTES:

1. Finishes/Features: Refer to Chapter 9 for specification references. Optional: moveable cabinets
2. Fixed casework and loose furnishings can also be all fixed casework or all loose furnishings.



PROGRAM ACTIVITIES:

- Storage of supplies, files, and equipment in a secure area

SPATIAL RELATIONSHIPS:

- Near guidance counselor's office
- Could be combined with guidance counselor's office

ENVIRONMENTAL CONSIDERATIONS:

N/A

CAPACITY:
SIZE:

N/A
100 SF

NOTES:

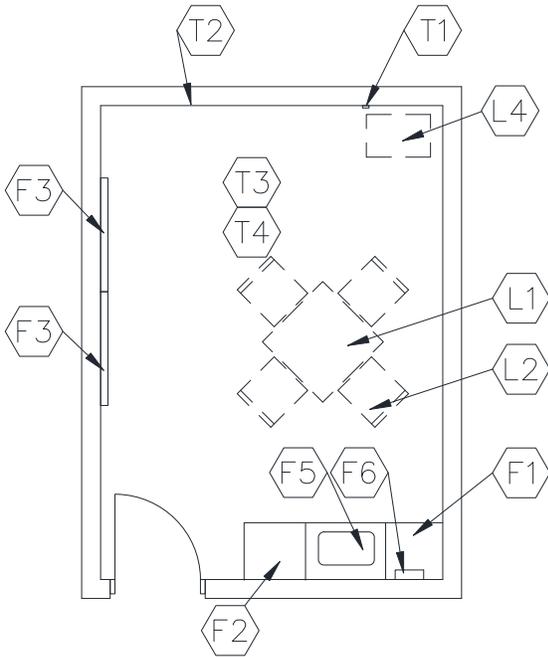
1. Loose furnishings shown represent one of many possible arrangements.

**GUIDANCE RECORDS/STORAGE
M-AD-12**

<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
Flooring:		<u>Fixed Items:</u>	
Rubber, carpet, carpet tile, linoleum, ET, or sheet vinyl	096500 096813 096816 096516	F1 6'-10' combination tall cabinets, base or wall cabinets (or additional file cabinets)	123550
Base:		Option: mobile storage shelving	105626
Resilient base	096500	<u>Fire Suppression:</u>	
Ceiling:		Fire suppression system	211000
Rated 2-hour construction	---	<u>Plumbing:</u>	
Walls:		N/A	
Rated 2-hour construction		<u>HVAC:</u>	
Painted gypsum wallboard over metal studs or	092116/099100	To be determined by Design Professional	
Painted concrete masonry units	042000/099100	<u>Electrical:</u>	
<u>LOOSE FURNISHINGS:</u>		Single level switching	262726
L1 File cabinets		Fluorescent lighting	265100
		Illumination level: See Table 8600-5	
		1 duplex receptacle	262726
		<u>Communications:</u>	
		T1 1 data port (optional)	271513
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
		<u>Miscellaneous:</u>	
		Wall, ceiling, and door construction to have a 2-hour fire rating	

NOTES:

1. Finishes/Features: Refer to Chapter 9 for specification references.



PROGRAM ACTIVITIES:

- After school meetings, community, and small group meetings

SPATIAL RELATIONSHIPS:

- Near administrative area

ENVIRONMENTAL CONSIDERATIONS:

- Environmental sound control -
wall minimum STC 45
ceiling minimum CAC 35, NRC 0.70
- Optional – window with integral blind

CAPACITY: 2 - 8 persons
SIZE: 200 - 300 SF

NOTES:

1. Loose furnishings shown represent one of many possible arrangements.

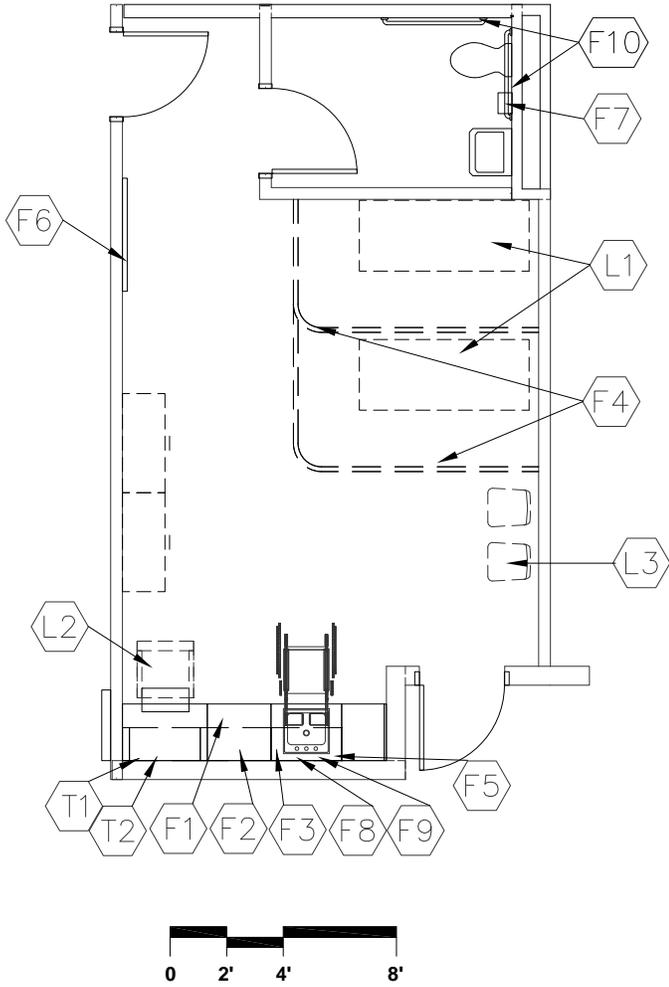
**PARENT/VOLUNTEER ROOM
M-AD-13**

<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
<u>Flooring:</u>		<u>Fixed Items:</u>	
Carpet or Carpet Tile	096816	F1 About 3' of base cabinets	123550
	096813	F2 Tall wardrobe	123550
Optional: ET, linoleum, or sheet vinyl	096500	F3 8'-12' combination marker board, tack board or tackable wall surface	101100
	096516	F4 Reserved	
<u>Base:</u>		F5 3' Sink base cabinet	123550
Resilient base	096500	F6 Towel dispenser	102813
<u>Ceiling:</u>		<u>Fire Suppression:</u>	
Suspended, acoustical	095113	Fire suppression system	211000
<u>Walls:</u>		<u>Plumbing:</u>	
Painted gypsum wallboard over metal studs	092116/099100	Sink	224000
		Plumbing connections	224000/221116/221119
<u>LOOSE FURNISHINGS:</u>		<u>HVAC:</u>	
L1 Table		Supply/return air system	Div. 23
L2 Chairs		Independent temperature control (coupled with similarly loaded adjacent spaces)	230923
L3 Reserved			
L4 Monitor cart			
Wastebasket			
<u>Miscellaneous:</u>		<u>Electrical:</u>	
N/A		Single level switching	262726
		Fluorescent lighting	265100
		Illumination level: See Table 8600-5	
		4 duplex receptacles	262726
		Double duplex receptacle adjacent to each data and video port	262726
		<u>Communications:</u>	
		T1 Reserved	
		T2 voice port with phone	271513/273123
		T3 Wireless access point cable above ceiling	271513
		T4 Wireless access point (WAP) as determined by design – refer to note 2	27153
		Clock	275313
		Central sound system	275123
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111

NOTES:

1. Finishes/Features: Refer to Chapter 9 for specification references.
2. **Baseline includes WAP cable. WAP device quantity / placement per 272133 requirements.**

450 SF



PROGRAM ACTIVITIES:

- Treatment of minor injuries, administration of medication, and conduction of hearing or vision tests

SPATIAL RELATIONSHIPS:

- Near reception area
- Adjacent to individual restroom
- Near special education shower

ENVIRONMENTAL CONSIDERATIONS:

- Environmental sound control - wall minimum STC 48
ceiling minimum CAC 35, NRC 0.70
- Stain-resistant floor covering

CAPACITY: 2 - 3 patients
SIZE: Clinic.....**290 - 540** SF
Restroom.....60 SF
ANCILLARY SPACES: Secretarial Area
M-AD-2

NOTES:

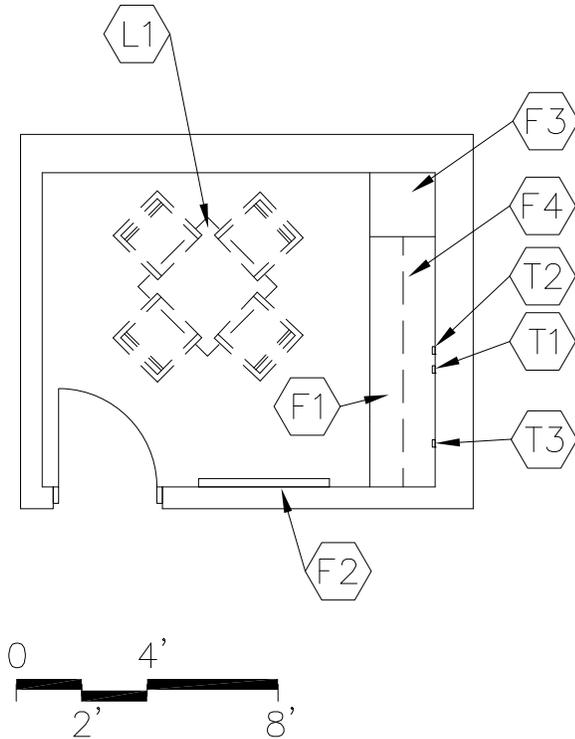
1. Loose furnishings shown represent one of many possible arrangements.

**HEALTH CLINIC (includes restroom)
M-AD-14**

<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
<u>Flooring:</u>		<u>Fixed Items:</u>	
Linoleum, rubber, ET	096516	F1 8'-10' combination base & wall	123550
vinyl, or	096500	cabinets, lockable	
resinous flooring	096723	F2 3' sink base cabinet	123550
Restroom: ET, sheet vinyl,	093000	F3 Reserved	
ceramic mosaic, porcelain or		F4 Cubicle curtain and track	102123
resinous flooring		F5 Towel dispenser	102813
<u>Base:</u>		F6 4' of tack board or marker board	101100
Resilient base, resinous flooring,	096500	F7 Sanitary napkin dispenser/disposal	102813
or integral vinyl cover base, ceramic	096730	F8 Soap dispenser	102813
mosaic or porcelain tile	093000	F9 24" x 60" mirror	102813
<u>Ceiling:</u>		F10 36" and 42" grab bars	102813
Suspended, acoustical	095113	Coat hooks (optional)	
<u>Walls:</u>		<u>Fire Suppression:</u>	
Painted gypsum wallboard		Fire suppression system	211000
over metal studs	092116/099100	<u>Plumbing:</u>	
<u>LOOSE FURNISHINGS:</u>		Wall-mounted water closet	224000
L1 Cots		Wall-mounted lavatory	224000
L2 Desk and chair		Sink - with goose neck	224000
L3 Chairs		Plumbing connections	224000/221116/221119
Wastebasket		<u>HVAC:</u>	
<u>EQUIPMENT</u>		Supply/return air system	Div. 23
E1 Refrigerator with ice making capabilities		Independent temperature	230923
		control	
		Exhaust directly to exterior	
<u>Miscellaneous:</u>		<u>Electrical:</u>	
N/A		Single level switching with dimmer	262726
		Fluorescent lighting	265100
		Illumination level: See Table 8600-5	
		2 duplex receptacles	262726
		Double duplex receptacle adjacent	
		to each data port	262726
		Receptacle for refrigerator	262726
		Emergency lighting	265100
		<u>Communications:</u>	
		T1 1 voice port and phone	271513/273123
		T2 1 data port near workstation	271523
		Clock	275313
		Central sound system	275123
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111

NOTES:

1. Finishes/Features: Refer to Chapter 9 for specification references.



APACITY: 1 - 3 persons
 SIZE: 120 SF

PROGRAM ACTIVITIES:

- Office and work area for specialists such as psychologist, reading specialist, etc., who regularly spend a portion of their schedule at one of several schools

SPATIAL RELATIONSHIPS:

- Near reception area
- Near secretarial area
- Direct access to school circulation areas
- Near main entrance to the building
- Near or accessible to principal's office and guidance counselor's office

ENVIRONMENTAL CONSIDERATIONS:

- Environmental sound control - wall minimum STC 45
ceiling minimum CAC 35, NRC 0.70
- Optional – window with integral blind

NOTES:

1. Loose furnishings shown represent one of many possible arrangements.

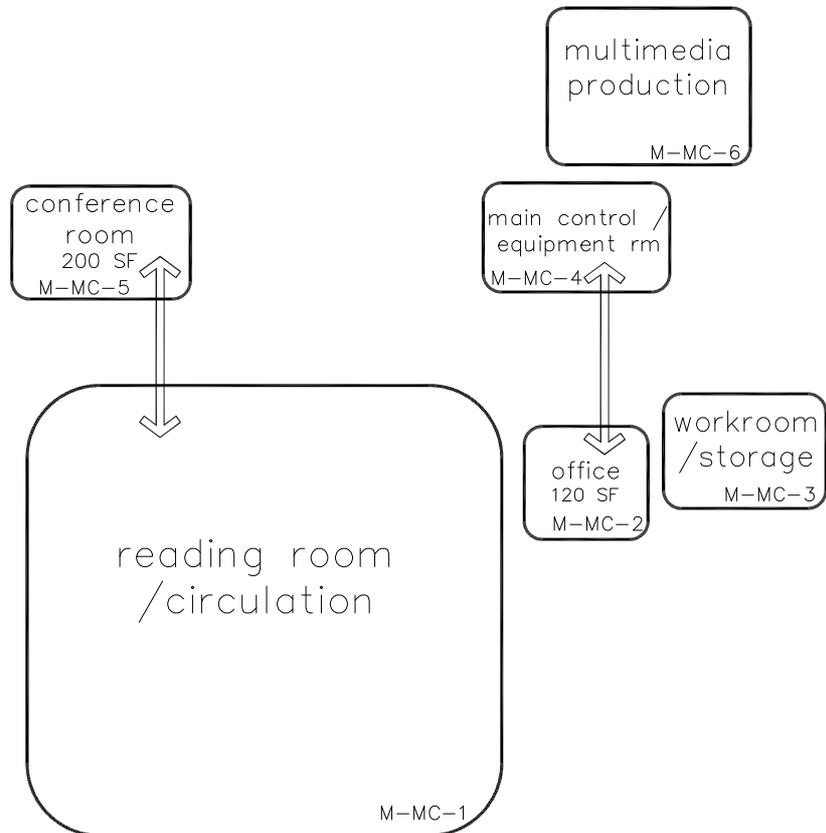
**ITINERANT PERSONNEL OFFICE
M-AD-15**

CHAPTER 5: MIDDLE SCHOOL

<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
<u>Flooring:</u>		<u>Fixed Items:</u>	
Carpet or Carpet Tile	096816	F1 Work surface with file drawers(optional)	123550
	096813	F2 4' of tack board, marker board, or tackable wall surface	101100
<u>Base:</u>		F3 Tall wardrobe (optional)	123550
Resilient base	096500	F4 Wall cabinets	123550
<u>Ceiling:</u>		Coat hook (optional)	
Suspended, acoustical	095113	<u>Fire Suppression:</u>	
<u>Walls:</u>		Fire suppression system	211000
Painted gypsum wallboard over metal studs	092116/099100	<u>Plumbing:</u>	
		N/A	
<u>LOOSE FURNISHINGS:</u>		<u>HVAC:</u>	
L1 Table and chairs		Supply/return air system	Div. 23
Wastebasket		Independent temperature control (coupled with similarly loaded adjacent spaces)	230923
		<u>Electrical:</u>	
		Single level switching	262726
		Fluorescent lighting	265100
		Illumination level: See Table 8600-5	
		4 duplex receptacles	262726
		Double duplex receptacle adjacent to data and video port	262726
		<u>Communications:</u>	
		T1 1 voice port and phone	271513/273123
		T2 1 data port	271513
		T3 1 projector video port	271543
		Central sound system	275123
		Clock	275313
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
		<u>Miscellaneous:</u>	
		N/A	

NOTES:

1. Finishes/Features: Refer to Chapter 9 for specification references. Optional: moveable cabinets
2. Fixed casework and loose furnishings can also be all fixed casework or all loose furnishings.



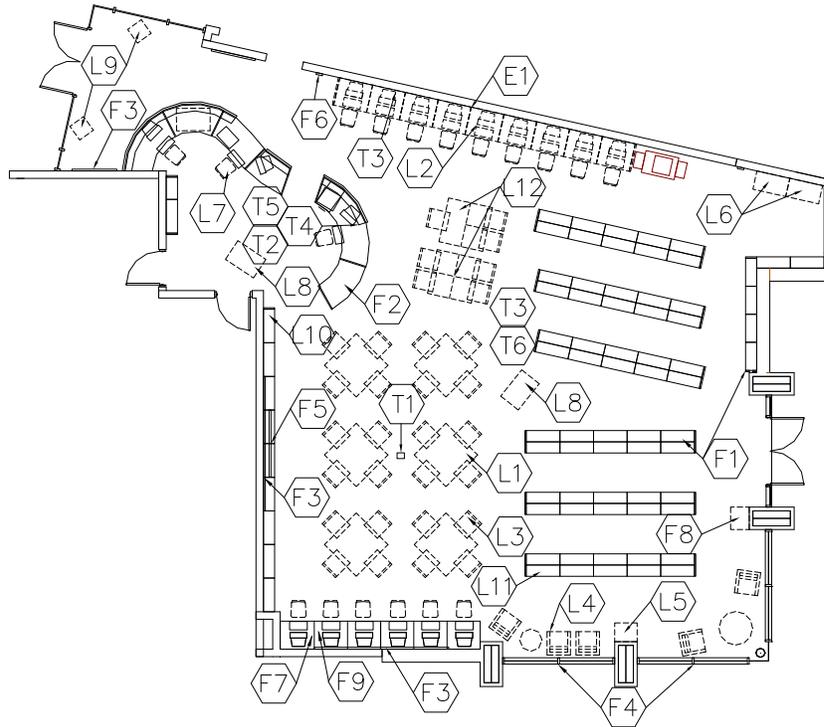
NOTES:

This is an example of how the media center spaces in a middle school could be arranged. This is meant only to demonstrate the relationships between various spaces of this area.

Following are the Media Center space plates:

- M-MC-1 Reading Room/Circulation
- M-MC-2 Media Specialist Office
- M-MC-3 Workroom/Storage
- M-MC-4 Main Control / Equipment Room
- M-MC-5 Conference Room
- M-MC-6 Multimedia Production Room

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CAPACITY: 10% of student capacity
 SIZE: 10% of student capacity multiplied
 by 35 SF per student

PROGRAM ACTIVITIES:

- Information laboratory that serves the instructional needs of the entire school.
- Recreational reading, research, accessing information, using technology, storing, cataloging, and reproduction of materials and information.
- Individual, small group, and class reading and researching.

SPATIAL RELATIONSHIPS:

- Centrally located and accessible to all areas of the facility
- Locate with access to academic core classrooms
- Easy access to public parking

ENVIRONMENTAL CONSIDERATIONS:

- Environmental sound control - wall only minimum STC 45 ceiling minimum CAC 35, NRC 0.70
- Visual awareness of space to students and staff through transparency to corridor

NOTES:

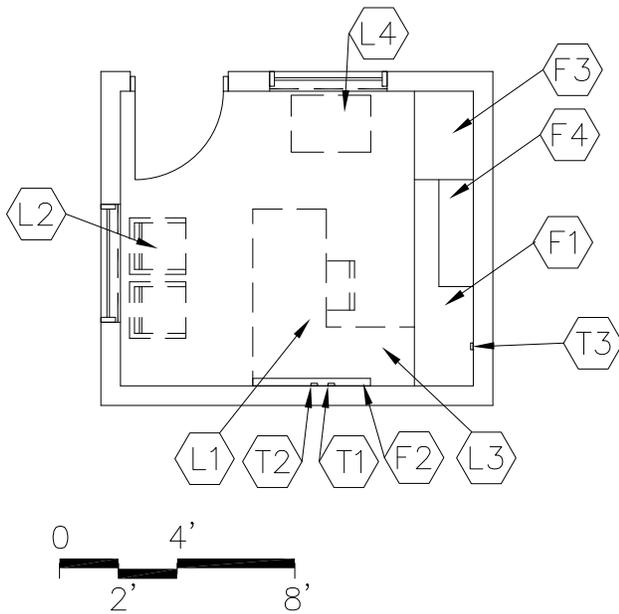
1. Loose furnishings shown represent one of many possible arrangements.

**READING ROOM/CIRCULATION
M-MC-1**

<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
<u>Flooring:</u>			
Carpet or Carpet Tile	096816 096813	<u>Fixed Items:</u>	
		F1 Library book shelving (see notes)	115123
		F2 Circulation desk casework	123550
		F3 20'-32' of tack board, marker board or tackable wall surface (optional)	101100
<u>Base:</u>			
Resilient base	096500	F4 Windows with integral blinds	085113
<u>Ceiling:</u>			
Suspended, acoustical	095113	F5 Projection screen (optional)	115213
<u>Walls:</u>			
Painted concrete masonry units	042000/099100	F6 Pencil sharpener support (optional)	062000
Acoustical wall treatment	098000	F7 Computer workstations (could be loose)	123550
<u>LOOSE FURNISHINGS:</u>			
L1 Student tables		F8 Search terminal stations	123550
L2 Computer workstation furniture		F9 Technology support casework	123550
L3 Student chairs		<u>Fire Suppression:</u>	
L4 Casual seating/tables		Fire suppression system	211000
L5 Atlas stand/dictionary stand (optional)		<u>Plumbing:</u>	
L6 Lateral file		N/A	
L7 Circulation desk task chair		<u>HVAC:</u>	
L8 Mobile book carts		Supply/return air system	Div. 23
L9 Paperback book racks		Independent temp control	230923
L10 Magazine display		<u>Electrical:</u>	
L11 Newspaper rack		Multi-level switching	262726
L12 Study carrels		Fluorescent lighting	265100
Wastebaskets		Illumination level: See Table 8600-5	
<u>Electronic Safety and Security:</u>			
Life safety devices per code	283111	8 duplex receptacles (minimum)	262726
<u>Miscellaneous:</u>			
Interior windows	081113/088000	Double duplex receptacle adjacent to each data and video port	262726
Pencil sharpener (optional)		Emergency lighting per code	265100
		Means of egress lighting per code	265100
		<u>Communications:</u>	
		T1 1 projector video port and video display device	271543/274119
		T2 1 voice port and phone	271513/273123
		T3 Wireless access point cable above ceiling	271513
		T4 1 data port for media center automation system	271513
		Clock	275313
		Central sound system	275123
		T5 Classroom technology center video port	271543, 274116, 274119, 275127
		T6 Wireless access point (WAP) as determined by Design – refer to Note 6	272133
E1 Duplex receptacle with dedicated circuit for wireless devices			

NOTES:

1. Finishes/Features: Refer to Chapter 9 for specification references.
2. Circulation desk(s) and library shelving can be loose furnishings.
3. Technology components may be placed in a separate small cabinet, or integrated in the other casework in the room.
4. Fixed casework and loose furnishings can be interchangeable.
5. Up to 20% of book shelving can be movable.
6. **Baseline includes WAP cable per classroom. WAP device quantity / placement per 272133 requirements.**



PROGRAM ACTIVITIES:

- Media specialist to conduct duties

SPATIAL RELATIONSHIPS:

- Near reading room/circulation area
- Near workroom/storage
- Could be part of the media center reading room

ENVIRONMENTAL CONSIDERATIONS:

- Environmental sound control -
wall minimum STC 45
ceiling minimum CAC 35, NRC 0.70

CAPACITY: 1 - 3 persons
SIZE: 120 SF

NOTES:

1. Loose furnishings shown represent one of many possible arrangements.

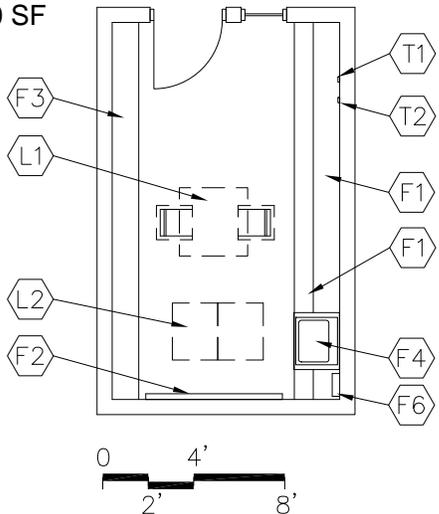
**MEDIA SPECIALIST OFFICE
M-MC-2**

<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
<u>Flooring:</u>		<u>Fixed Items:</u>	
Carpet or Carpet Tile	096816	F1 Work surface with file drawers	123550
	096813	F2 4' of tack board, marker board, or tackable wall surface	101100
<u>Base:</u>		F3 Tall wardrobe (optional)	123550
Resilient base	096500	F4 Wall cabinets (optional)	123550
<u>Ceiling:</u>		F5 Bookcases (optional)	123550
Suspended, acoustical	095113	Coat hook (optional)	
<u>Walls:</u>		<u>Fire Suppression:</u>	
Painted concrete masonry units	042000/099100	Fire suppression system	211000
<u>LOOSE FURNISHINGS:</u>		<u>Plumbing:</u>	
L1 Desk and chair		N/A	
L2 Visitor chairs		<u>HVAC:</u>	
L3 Computer desk return		Supply/return air system	Div. 23
L4 File cabinet		Independent temperature control (coupled with similarly loaded adjacent spaces)	230923
Wastebasket		<u>Electrical:</u>	
		Single level switching	262726
		Fluorescent lighting	265100
		Illumination level: See Table 8600-5	
		4 duplex receptacles	262726
		Double duplex receptacle adjacent to data and video port	262726
		<u>Communications:</u>	
		T1 1 voice port and phone	271513/273123
		T2 1 data port near workstation	271513
		T3 1 projector video port	271543
		Central sound system	275123
		Clock	275313
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
		<u>Miscellaneous:</u>	
		Interior window	081113/088000

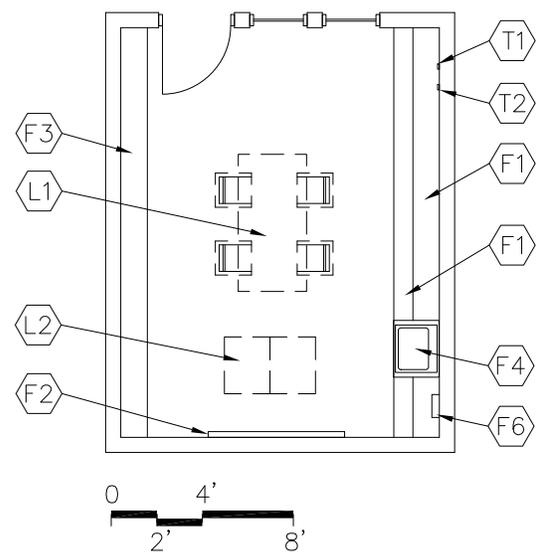
NOTES:

1. Finishes/Features: Refer to Chapter 9 for specification references. Optional: moveable cabinets
2. Fixed casework and loose furnishings can either be all fixed casework or all loose furnishings.

150 SF



250 SF



CAPACITY: 1 - 3 staff
 SIZE: 150 - **400** SF

PROGRAM ACTIVITIES:

- Receiving, processing, and repairing media material

SPATIAL RELATIONSHIPS:

- Near reading room/circulation
- Near media specialist office

ENVIRONMENTAL CONSIDERATIONS:

- Environmental sound control -
 wall minimum STC 45
 ceiling minimum CAC 35, NRC 0.70
- Visual access to reading room/circulation

NOTES:

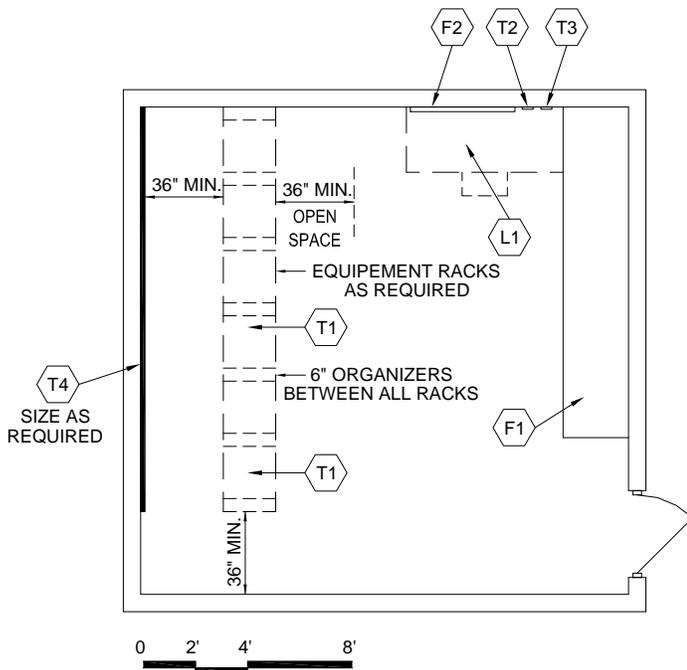
1. Loose furnishings shown represent one of many possible arrangements.

**WORKROOM/STORAGE
M-MC-3**

<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
<u>Flooring:</u>		<u>Fixed Items²:</u>	
Rubber, <i>linoleum, ET or sheet vinyl</i>	096500	F1 20'-34' combination base/wall/tall cabinets	123550
Optional: Carpet or carpet tile	096516		
	096813	F2 4'-8' of tack board or marker board	101100
	096816	F3 10' - 18' of bookcases (optional)	123550
<u>Base:</u>		F4 3' sink base cabinet	123550
Resilient base	096500	F5 Reserved	
		F6 Towel dispenser	102813
<u>Ceiling:</u>		<u>Fire Suppression:</u>	
Suspended, acoustical	095113	Fire suppression system	211000
<u>Walls:</u>		<u>Plumbing:</u>	
Painted concrete masonry units	042000/099100	Sink	224000
		Plumbing connections	224000/221116/221119
<u>LOOSE FURNISHINGS:</u>		<u>HVAC:</u>	
L1 Table and chairs		Supply/return air system	Div. 23
L2 Book trucks		Independent temperature control	230923
Wastebasket		<u>Electrical:</u>	
		Single level switching	262726
		Fluorescent lighting	265100
		Illumination level: See Table 8600-5	
		3 duplex receptacles (minimum)	262726
		Double duplex receptacle adjacent to each data port	262726
		<u>Communications:</u>	
		T1 1 voice port and phone	271513/ 273123
		T2 1 data port	271513
		Clock	275313
		Central sound system	275123
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
		<u>Miscellaneous:</u>	
		Interior window	081113/088000

NOTES:

1. Finishes/Features: Refer to Chapter 9 for specification references.
2. Ranges shown indicate quantities for the smallest and largest possible room size.



PROGRAM ACTIVITIES:

- Collection and distribution hub for the voice, video, and data networks within the facility
- Contains racks for distribution equipment

SPATIAL RELATIONSHIPS:

- Near the center of the building **to minimize the number of Telecommunication Rooms (TR)**

ENVIRONMENTAL CONSIDERATIONS:

- Ventilation and cooling of heat-generating electronic equipment

Note: Technology designer shall confer with school district technology director to determine equipment and space needed and coordinate with project designer.

CAPACITY: N/A
 SIZE: **(Baseline) (Minimum)** 300 SF

ER Utilized as district N.O.C. – add minimum 150 SF

ER Utilized as building data center for central servers/thin client – add minimum 30 SF per 10 classrooms

NOTES:

1. Loose furnishings shown represent one of many possible arrangements.
2. **Verify and coordinate ER size and location with the technology designer during programming phase.**

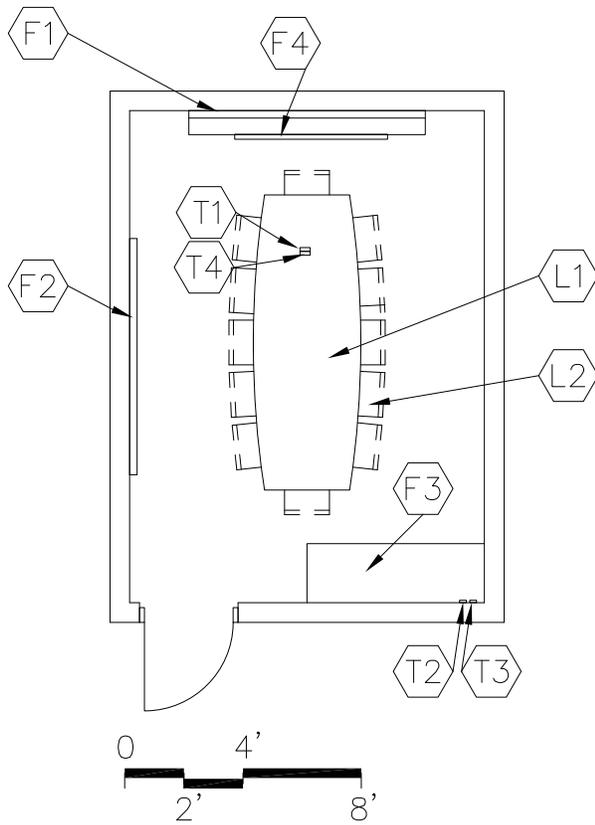
**MAIN CONTROL / EQUIPMENT ROOM
M-MC-4 (ER)**

CHAPTER 5: MIDDLE SCHOOL

<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
Flooring:		<u>Fixed Items:</u>	
ET or sheet vinyl (static dissipative flooring)	096500	F1 8'-16' of open shelving, depths may vary (fixed or loose)	123550
Base:		F2 4' of tack board or marker board (optional)	101100
Resilient base	096500	<u>Fire Suppression:</u>	
Ceiling:		Fire suppression system	211000
Suspended, acoustical	095113	<u>Plumbing:</u>	
Walls:		N/A	
Painted concrete masonry units	042000/099100	<u>HVAC:</u>	
<u>LOOSE FURNISHINGS:</u>		Independent, packaged system	Div. 23
L1 Desk and chair		<u>Electrical:</u>	
Wastebasket		Single level switching	262726
		Fluorescent lighting	265100
		Illumination level: See Table 8600-5	
		3 duplex receptacles	262726
		Duplex receptacle for electronic systems	262726
		Telecommunications Grounding	
		270526/260526	
		Standby power	263213/263600
		<u>Communications:</u>	
		T1 Technology Equipment	
		Central sound system	275123
		Telephone wiring	271313/271513
		Integrated telephone system	273123
		Video wiring	271543
		Digital on demand delivery system	274125
		Local area network wiring	271513/271323
		Local area network electronics	272100/272133
		Grounding & Infrastructure Equipment	
		270526/271100	
		T2 1 voice port and phone	271513/273123
		T3 1 data port near workstation	271513
		T4 3/4" plywood back board	271313
		<u>Electrical Safety and Security:</u>	
		Life safety devices per code	283111
		Security system	281300/281600/282300
		<u>Miscellaneous:</u>	
		Provide distribution equipment with an equipment electrical ground.	

NOTES:

1. Finishes/Features: Refer to Chapter 9 for specification references.



PROGRAM ACTIVITIES:

- Used primarily by students for group projects

SPATIAL RELATIONSHIPS:

- Near reading room/circulation

ENVIRONMENTAL CONSIDERATIONS:

- Environmental sound control -
wall minimum STC 45
ceiling minimum CAC 35, NRC 0.70
- Optional – window with integral blind

CAPACITY: 8 - 12 persons
SIZE: 200 - 310 SF

NOTES:

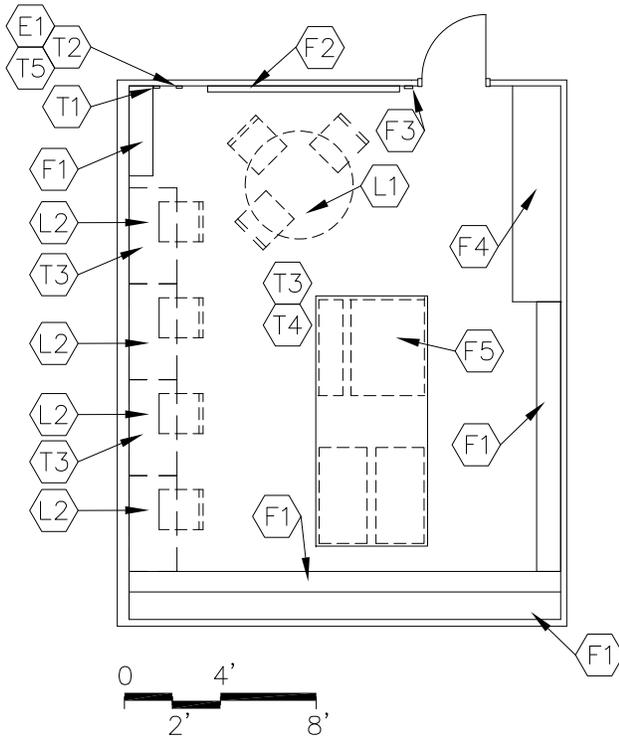
1. Loose furnishings shown represent one of many possible arrangements.

**CONFERENCE ROOM
M-MC-5**

	Spec. Ref.#		Spec. Ref.#
<u>FINISHES¹:</u>		<u>FEATURES¹:</u>	
Flooring:		<u>Fixed Items:</u>	
Carpet or Carpet Tile	096816 096813	F1 14'-18' combination marker board, tack board, and tackable wall surface	101100
Base:		F2 Reserved	
Resilient base	096500	F3 Base cabinets (optional) (fixed or mobile)	123550
Ceiling:		F4 Projection screen (optional) Coat hooks (optional)	115213
Suspended, acoustical	095113	<u>Fire Suppression:</u>	
Walls:		Fire suppression system	211000
Painted concrete masonry units	042000/099100	<u>Plumbing:</u>	
		N/A	
<u>LOOSE FURNISHINGS:</u>		<u>HVAC:</u>	
L1 Conference table		Supply/return air system	Div. 23
L2 Chairs		Independent temperature control	230923
Wastebasket		<u>Electrical:</u>	
		Multilevel switching	262726
		Fluorescent lighting	265100
		Illumination level: See Table 8600-5	
		3 duplex receptacles	262726
		Double duplex receptacle adjacent to each data and video port	262726
		<u>Communications:</u>	
		T1 1 projector video port	271543
		T2 1 voice port and phone	271513/273123
		T3 1 data port	271513
		T4 Ultra-short throw interactive projector	274119
		Central sound system	275123
		Clock	275313
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
		<u>Miscellaneous:</u>	
		N/A	

NOTES:

1. Finishes/Features: Refer to Chapter 9 for specification references.
2. Fixed equipment or loose furnishings can be also all fixed equipment or all loose furnishings.



CAPACITY: 2 - 7 persons
 SIZE: 400 SF
 ANCILLARY SPACES:

PROGRAM ACTIVITIES:

- Production of a variety of media
- Individual student project work and student instruction
- Putting together student project presentations in media such as PowerPoint, video, reports, 3D models, etc.

SPATIAL RELATIONSHIPS:

- Near workroom/storage
- Near media center

ENVIRONMENTAL CONSIDERATIONS:

- Environmental sound control –
 wall only minimum STC 45
 ceiling minimum CAC 35, NRC 0.70

NOTES:

1. Loose furnishings shown represent one of many possible arrangements.
2. This space could be an area inside the media center.

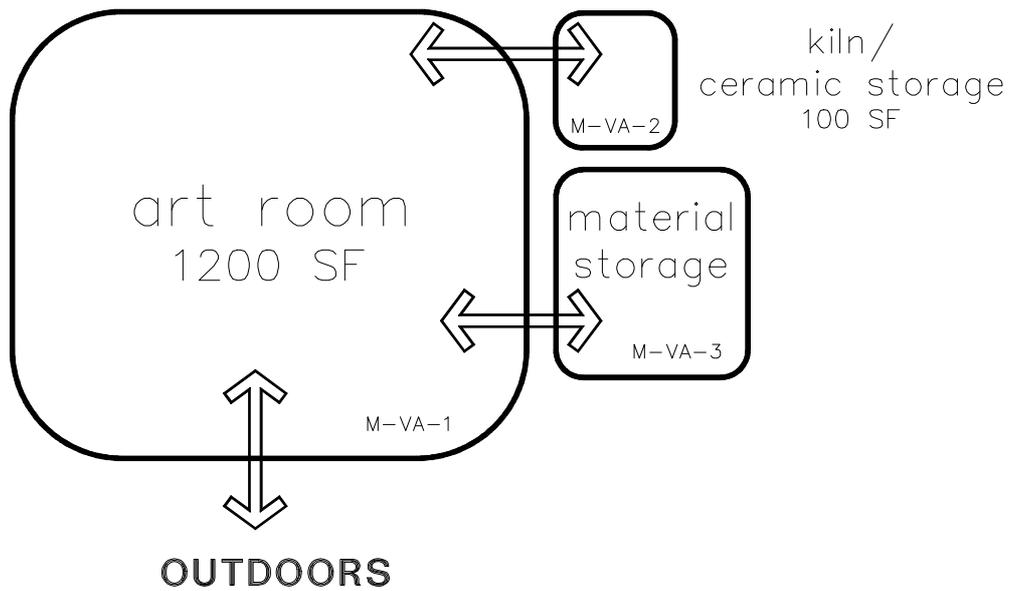
**MULTIMEDIA PRODUCTION ROOM
M-MC-6**

CHAPTER 5: MIDDLE SCHOOL

<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
<u>Flooring:</u>		<u>Fixed Items³:</u>	
Linoleum, ET, sheet vinyl, or rubber	096516 096500	F1 15'-35' combination tall cabinets, wall and base cabinets	123550
<u>Base:</u>		F2 4'-8' of combination tack board/ marker board	101100
Resilient base	096500	F3 Pencil sharpener support (optional)	062000
<u>Ceiling:</u>		F4 3' - 9' of tall cabinets	123550
Suspended, acoustical	095113	F5 Work surface	123550
<u>Walls:</u>		F6 Technology support casework (if applicable)	123550
Painted concrete masonry units	042000/099100	<u>Fire Suppression:</u>	
		Fire suppression system	211000
<u>LOOSE FURNISHINGS:</u>		<u>Plumbing:</u>	
L1 Tables and chairs/stools		N/A	
L2 Computer workstation furniture		<u>HVAC:</u>	
Wastebasket		Supply/return air system	Div. 23
		Independent temperature control	230923
<u>Electronic Safety and Security:</u>		<u>Electrical:</u>	
Life safety devices per code	283111	Multilevel switching	262726
<u>Miscellaneous:</u>		Fluorescent lighting	265100
Pencil sharpener (optional)		Illumination level: See Table 8600-5	
Interior windows for supervision (optional)	081113/088000	4 duplex receptacles	262726
The following items to be provided by the school district: copier, scanner, printers, binders, and laminators.		Double duplex receptacle adjacent to each data and video port	262726
E1 Duplex receptacle with dedicated circuit for wireless devices		<u>Communications:</u>	
		T1 1 projector video port and video display device	271543/274119
		T2 1 voice port and phone	271513/273123
		T3 Wireless access point cable above ceiling	271513
		Clock	275313
		Central sound system	275123
		T4 Wireless access point (WAP) as determined by Design – refer to Note 3	272133
		T5 Classroom technology center video port	271543, 274116, 274119, 275127

NOTES:

1. Finishes/Features: Refer to Chapter 9 for specification references.
2. Ranges shown indicate quantities for the smallest and largest possible room size.
3. **Baseline includes WAP cable. WAP device quantity / placement per 272133 requirements.**

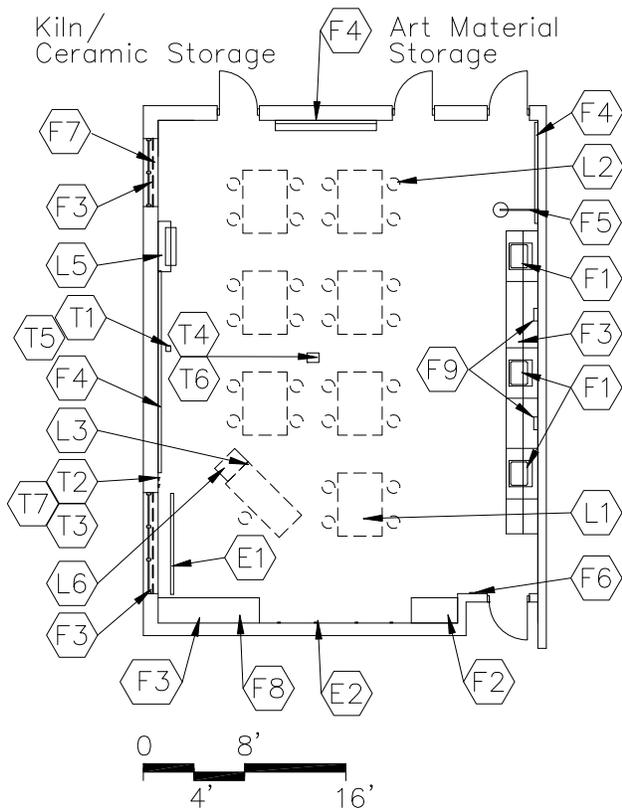
**NOTE:**

This is an example of how the visual arts spaces in a middle school could be arranged. This is meant only to demonstrate the relationships between various spaces of this area.

Following are the Visual Art space plates:

- M-VA-1 Art Room
- M-VA-2 Kiln/Ceramic Storage
- M-VA-3 Art Material Storage

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CAPACITY: 28 students
SIZE: 1,200 SF
ANCILLARY SPACES: Kiln/Ceramic Storage M-VA-2
 Art Material Storage M-VA-3

PROGRAM ACTIVITIES:

- Art students will work on a variety of two and three-dimensional art projects. Projects will include drawing and painting, computer graphics, sculpture and model making, collage, fiber arts, and ceramics.

SPATIAL RELATIONSHIPS:

- Near academic core classrooms
- Direct access to outdoors or access through corridor

ENVIRONMENTAL CONSIDERATIONS:

- Required: View glass – minimum 5% without daylighting design; minimum 3% with daylighting design.
 Recommended: Daylighting design with glazing area determined by design solution.
- Environmental sound control -
 wall only minimum STC 45
 ceiling minimum CAC 35, NRC 0.70
- Stain-resistant floor covering

NOTES:

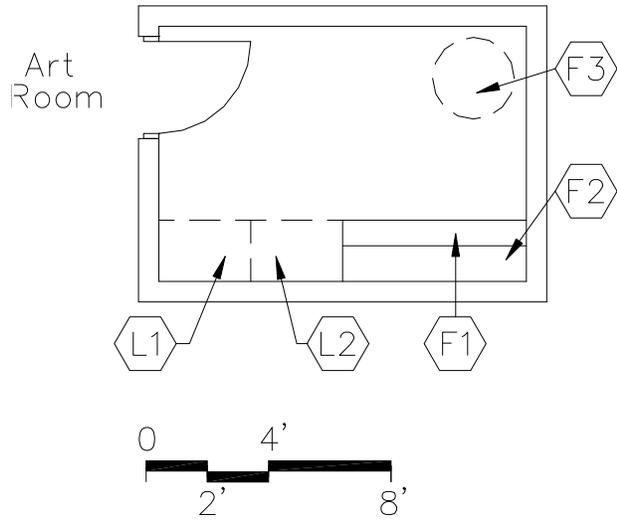
1. Loose furnishings shown represent one of many possible arrangements.

**ART ROOM
M-VA-1**

	Spec. Ref.#		Spec. Ref.#
FINISHES¹:		FEATURES¹:	
Flooring:		Fixed Items:	
ET, sheet vinyl, rubber,	096500	F1 3'-5'sink base cabinets,	123550
sealed concrete,	033000	or several wash fountains	
polished concrete finishing, or	033510	F2 Tall wardrobe with file drawers	123550
colored concrete finishing	033519	F3 26'-34' combination tall cabinets,	123550
		base and wall cabinets	
Base:		F4 26'-34' combination marker board,	101100
Resilient base	096500	tack board & tackable wall surface	
		F5 Emergency eyewash (recommended)	224000
Ceiling:		F6 Pencil sharpener support(optional)	062000
Suspended, acoustical	095113	F7 Windows with integral blinds	085113
		F8 Technology support casework	123550
Walls:		F9 Towel dispenser (optional)	102813
Paint		F10 Projection screen (optional)	115213
099100			
LOOSE FURNISHINGS:		Fire Suppression:	
L1 Student work tables		Fire suppression system	211000
L2 Student chairs or stools		Plumbing:	
L3 Teacher desk and chair/stool and teacher		Sinks with solids interceptor	224000
computer support		Emergency eyewash connections	224500
L4 Reserved		Plumbing connections	224000/221116/221119
L5 Desk height file cabinet		HVAC:	
Wastebasket		Supply/return air system	Div. 23
		Independent temperature control	230923
EQUIPMENT:		Manually controlled general exhaust	Div. 23
E1 Drying rack		Electrical:	
		Fluorescent lighting	265100
		Illumination level: See Table 8600-5	
		Multilevel switching	262726
		4 duplex receptacles	262726
		Double duplex receptacle adjacent to	
		each data and video port	262726
		Track lighting	265100
		Means of egress lighting per code	265100
		Emergency lighting per code	265100
		Communications:	
		T1 1 projector video port	271543
		T2 1 voice port and phone	271513/273123
		T3 1 data port	
		near teacher workstation	271513
		T4 Wireless access point cable above ceiling	271513
		Clock	275313
		Central sound system	275123
		Sound reinforcement system	275127
		T5 Ultra-short throw interactive projector	274119
		T6 Wireless access point (WAP) as determined by	
		design – refer to Note 2	272133
		T7 Classroom technology center videoport	271543, 274116, 274119, 275127
Electronic Safety and Security:			
Life safety devices per code	283111		
Miscellaneous:			
Pencil sharpener (optional)			
E2 Duplex receptacle with dedicated circuit			
for wireless devices			

NOTES:

1. Finishes/Features: Refer to Chapter 9 for specification references.
2. Baseline includes WAP cable per classroom. WAP device quantity/placement per 272133 requirements.



PROGRAM ACTIVITIES:

- Firing of art projects in ceramics and pottery by the teacher

SPATIAL RELATIONSHIPS:

- Adjacent to art room
- Near art material storage

ENVIRONMENTAL CONSIDERATIONS:

- Ventilation controlled by a thermostat

CAPACITY:	N/A
SIZE:	100 SF
ANCILLARY SPACES:	Art Room M-VA-1

NOTES:

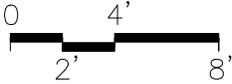
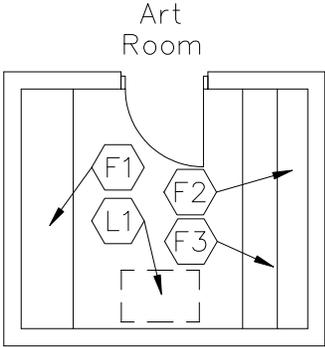
KILN/CERAMIC STORAGE
M-VA-2

<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
<u>Flooring:</u>		<u>Fixed Items:</u>	
Sealed concrete,	033000	F1 3'-6' of base cabinets	123550
polished concrete finishing, or	033510	F2 3'-6' of wall cabinets	123550
colored concrete finishing	033519	F3 Kiln	119200
<u>Base:</u>		<u>Fire Suppression:</u>	
Resilient base	096500	Fire suppression system	211000
<u>Ceiling:</u>		<u>Plumbing:</u>	
Suspended, acoustical	095113	N/A	
<u>Walls:</u>		<u>HVAC:</u>	
Painted concrete masonry units	042000/099100	Temperature controlled exhaust	Div. 23
		Ventilation for kiln	Div. 23
<u>LOOSE FURNISHINGS:</u>		<u>Electrical:</u>	
L1 3' of tall dry storage units (total)		Single level switching	262726
L2 3' of tall damp storage units (total)		Fluorescent lighting	265100
		Illumination level: See Table 8600-5	
		1 duplex receptacle	262726
		Electrical connection for kiln	262726
L1 and L2 could be fixed casework.		<u>Communications:</u>	
		Central sound system	275123
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
		<u>Miscellaneous:</u>	
		N/A	

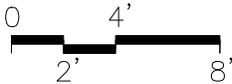
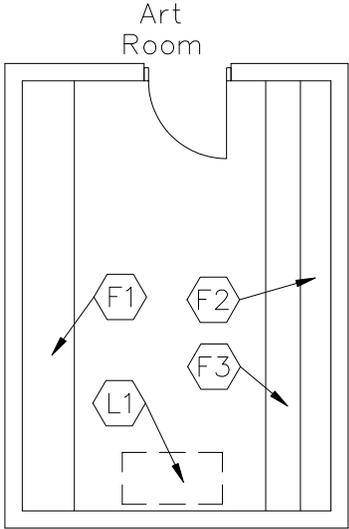
NOTES:

1. Finishes/Features: Refer to Chapter 9 for specification references.

100 SF



200 SF



PROGRAM ACTIVITIES:

- Storage of art supplies and materials

SPATIAL RELATIONSHIPS:

- Adjacent to art room

ENVIRONMENTAL CONSIDERATIONS:

- Stain-resistant floor covering

CAPACITY: N/A
 SIZE: 100 - 200 SF
 ANCILLARY SPACES: Art Room
 M-VA-1

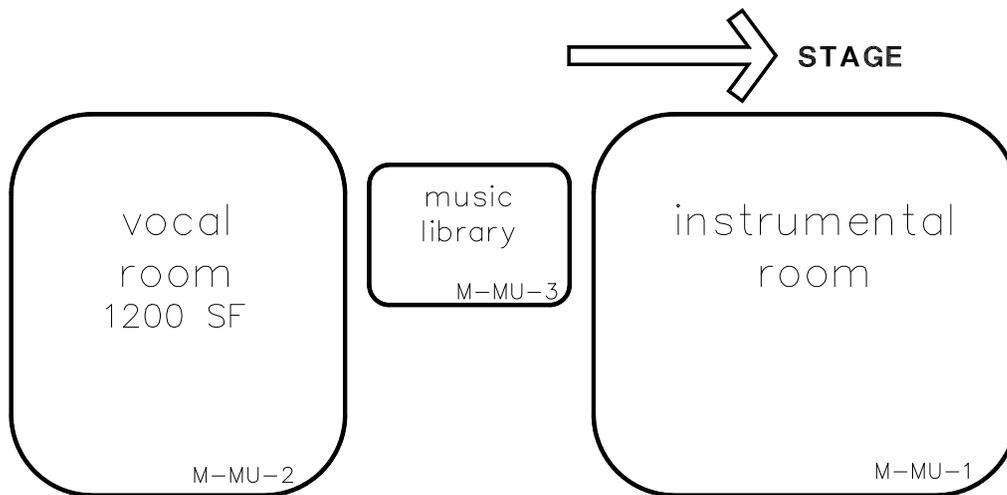
NOTES:

ART MATERIAL STORAGE
M-VA-3

<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
<u>Flooring:</u>			
ET, sheet vinyl,	096500	F1 16'-28' combination base/wall or tall storage	123550
sealed concrete,	033000		
polished concrete finishing, or	033510		
colored concrete finishing	033519	<u>Fire Suppression:</u>	
		Fire suppression system	211000
<u>Base:</u>			
Resilient base	096500	<u>Plumbing:</u>	
		N/A	
<u>Ceiling:</u>			
Suspended, acoustical	095113	<u>HVAC:</u>	
		Exhaust air system	Div. 23
		Supplemental heat as required	Div. 23
<u>Walls:</u>			
Painted concrete masonry units	042000/099100	<u>Electrical:</u>	
		Single level switching	262726
		Fluorescent lighting	265100
		illumination level: See Table 8600-4	
		Duplex receptacle above base cabinet	262726
<u>LOOSE FURNISHINGS:</u>			
L1 Mobile materials cart		<u>Communications:</u>	
		N/A	
		<u>Electronic Safety and Security:</u>	
		N/A	
		<u>Miscellaneous:</u>	
		N/A	

NOTES:

1. Finishes/Features: Refer to Chapter 9 for specification references.
2. Ranges shown indicate quantities for the smallest and largest possible room size.



NOTES:

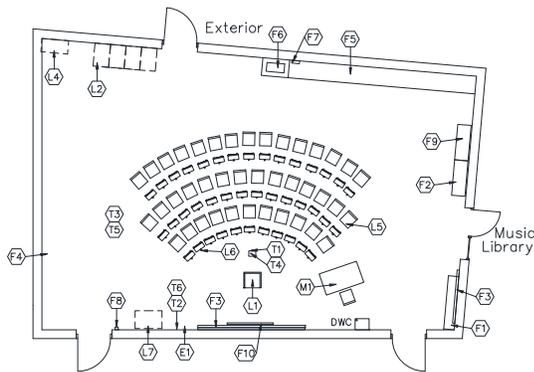
This is an example of how the music spaces in a middle school could be arranged. This is meant only to demonstrate the relationships between various spaces of this area.

Following are the Music space plates:

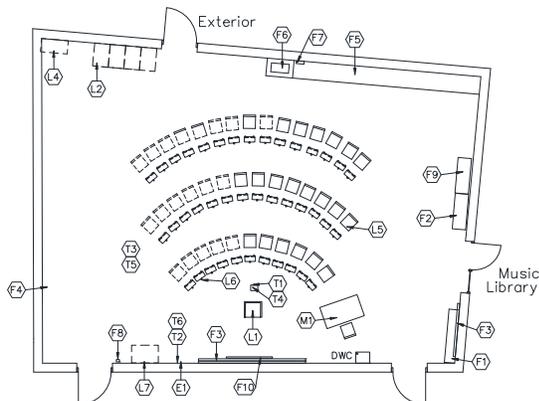
- M-MU-1 Instrumental Room
- M-MU-2 Vocal Room
- M-MU-3 Music Library

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1400 SF



1600 SF



CAPACITY: District to dictate program
 SIZE: 1,400 - 1,600 SF
 ANCILLARY SPACES: Music Library
 M-MU-3

PROGRAM ACTIVITIES:

- House all of the instrumental music activities
- Practice area for individuals, small groups, class-size groups, and the entire school band
- Practice and performance type presentations
- Storage of band instruments

SPATIAL RELATIONSHIPS:

- Grouped with other noise producing activities
- Access to parking
- Direct access to outdoors
- Near vocal room
- Near the stage in the student dining area

ENVIRONMENTAL CONSIDERATIONS:

- Environmental sound control - wall minimum STC 60
ceiling minimum CAC 35, NRC 0.70
- Large doors
- Ceiling heights: preferred 12'-16' (12' minimum)
- Acoustical requirements as determined by final configuration and other factors of the space.

NOTES:

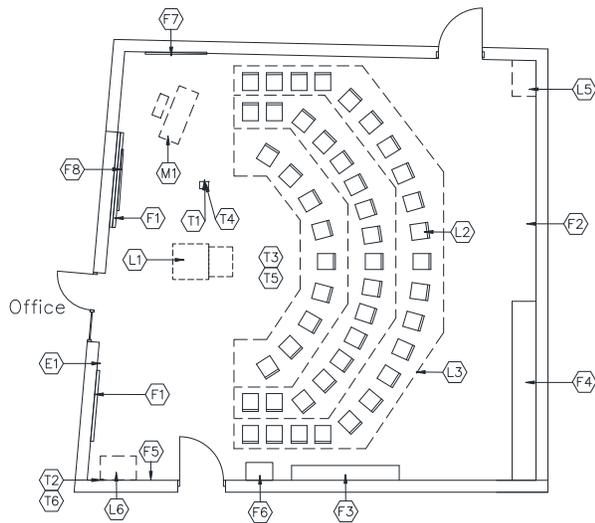
1. Loose furnishings shown represent one of many possible arrangements.

**INSTRUMENTAL ROOM
M-MU-1**

<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
<u>Flooring:</u>		<u>Fixed Items:</u>	
Carpet, carpet tile	096816	F1 4'-8' of bookshelves (or loose)	123550
Optional: linoleum, rubber, ET, sheet vinyl	096516 096500 096813	F2 About 4' of tall cabinets	123550
		F3 12'-28' combination marker board, tack board, tackable wall surface	101100
		F4 Technology support casework	123550
		F5 Instrument storage cabinets	123550
		F6 3' sink base cabinet	123550
<u>Base:</u>		F7 Towel dispenser	102813
Resilient base	096500	F8 Pencil sharpener support (optional)	062000
		F9 Stereo cabinet (optional)	123550
<u>Ceiling:</u>		F10 Projection screen (optional)	115213
Suspended, acoustical	095113		
		<u>Fire Suppression:</u>	
<u>Walls:</u>		Fire suppression system	211000
Paint		<u>Plumbing:</u>	
099100		Drinking water cooler	224000
Acoustical wall treatment		Sink	224000
(varies with geometry of room)	098000	Plumbing connections	224000/221116/221119
Absorptive 25%, reflective 25%, diffusive 50%			
		<u>HVAC:</u>	
		Supply/return air system	Div. 23
		Independent temp control	230923
<u>LOOSE FURNISHINGS:</u>		<u>Electrical:</u>	
L1 Conducting podium		Fluorescent lighting	265100
L2 Mobile percussion instrument storage cabinet		Illumination level: See Table 8600-5	
L3 Reserved		Multilevel switching	262726
L4 Mobile sheet music cabinet		4 duplex receptacles	262726
L5 Music chairs		Double duplex receptacle adjacent to each data and video port	262726
L6 Music stands		Emergency lighting	265100
L7 Teacher workstation		Telecommunications Grounding	270526/260526
Wastebasket			
		<u>Communications:</u>	
<u>Electronic Safety and Security:</u>		T1 1 projector video port	271543
Life safety devices per code	283111	T2 1 voice port and phone	271513/273123
		T3 Wireless access point cable above ceiling	271513
		Clock	275313
<u>Miscellaneous:</u>		Middle School music sound system	275125
Doors are to have acoustic trim accessories.		Central sound system	275123
Pencil sharpener (optional)		T4 Ultra-short throw interactive projector	274119
The following item is to be funded by the school district:		T5 Wireless access point (WAP) as determined by Design – refer to Note 3	272133
M1 Piano		T6 Classroom technology center video port	271543, 274116, 274119, 275127
E1 Duplex receptacle with dedicated circuit for wireless devices			

NOTES:

1. Finishes/Features: Refer to Chapter 9 for specification references.
2. Sink and cabinet could be in instrument storage room.
3. Baseline includes WAP cable per classroom. WAP device quantity / placement per 272133 requirements.



CAPACITY: 40 students
 SIZE: 1,200 SF
 ANCILLARY SPACES: Music Library
 M-MU-3

PROGRAM ACTIVITIES:

- Houses all of the vocal music activities
- Practice area for individuals and groups of students, as well as an instructional area
- Serves the general music activities

SPATIAL RELATIONSHIPS:

- Grouped with other noise producing type activities
- Near instrumental room
- Access to parking area
- Near the stage

ENVIRONMENTAL CONSIDERATIONS:

- Environmental sound control -
 wall minimum STC 60
 ceiling minimum CAC 35, NRC 0.70
- Large doors
- High ceilings
- Acoustical requirements as determined by final configuration and other factors of the space.

NOTES:

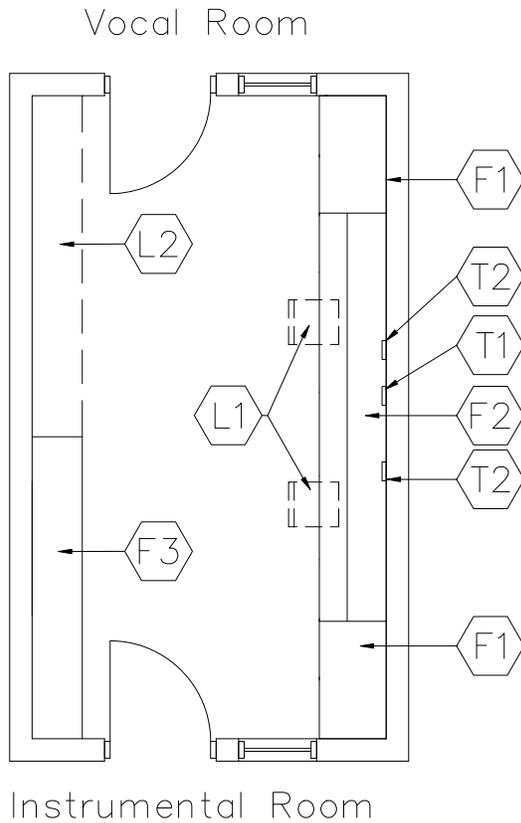
1. Loose furnishings shown represent one of many possible arrangements.

**VOCAL ROOM
M-MU-2**

<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
Flooring:		Fixed Items:	
Carpet, carpet tile,	096816	F1 12'-28' combination marker board,	
linoleum, ET, sheet vinyl,	096516	tack board, tackable wall surface	101100
or rubber	096500	F2 Technology support casework	123550
	096813	F3 4'-9' of bookcases (or loose)	123550
(Determined by district program needs)		F4 3'-10' of tall cabinets	123550
		F5 Pencil sharpener support (optional)	062000
Base:		F6 Stereo cabinet (optional)	123550
Resilient base	096500	F7 Mirrors on wall (optional)	102813
		F8 Projection screen (optional)	115213
Ceiling:		Fire Suppression:	
Suspended, acoustical	095113	Fire suppression system	211000
		Plumbing: N/A	
Walls:		HVAC:	
Paint		Supply/return air system	Div. 23
099100		Independent temperature control	230923
Acoustical wall treatment		Electrical:	
(varies with geometry of room)	098000	Fluorescent lighting	265100
		Illumination level: See Table 8600-5	
LOOSE FURNISHINGS:		Multilevel switching	262726
L1 Conducting podium		4 duplex receptacles	262726
L2 Music chairs and caddies		Double duplex receptacle adjacent to	
L3 Portable risers		each data and video port	262726
L4 Reserved		Means of egress lighting per code	265100
L5 Mobile music storage cabinet		Emergency lighting per code	265100
L6 Teacher computer workstation		Telecommunications Grounding	270526/260526
Wastebasket		Communications:	
		T1 1 projector video port	271543
Electronic Safety and Security:		T2 1 voice port and phone	271513/273123
Life safety devices per code	283111	T3 Wireless access point cable above	
		ceiling	271513
Miscellaneous:		Clock	275313
Doors are to have acoustic trim accessories.		Middle School music sound system	275125
Pencil sharpener (optional)		Central sound system	275123
The following item is to be funded by the school district:		T4 Ultra-short throw interactive projector	274119
M1 Piano		T5 Wireless access point (WAP) as	
		determined by Design – refer to Note 3	272133
E1 Duplex receptacle with dedicated		T6 Classroom technology center video port	
circuit for wireless devices		271543, 274116, 274119,	
		27512	

NOTES:

1. Finishes/Features: Refer to Chapter 9 for specification references.
2. Technology components may be placed in a separate small cabinet, or integrated in the other casework in the room.
3. Baseline includes WAP cable per classroom. WAP device quantity / placement per 272133 requirements.



CAPACITY: 2 teachers
 SIZE: 200 SF
 ANCILLARY SPACES: Instrumental Room
 M-MU-1
 Vocal Room
 M-MU-2

PROGRAM ACTIVITIES:

- Office for both instrumental and vocal music teachers
- Library for printed music, tapes, etc.

SPATIAL RELATIONSHIPS:

- Adjacent to both the instrumental room and vocal room

ENVIRONMENTAL CONSIDERATIONS:

- Interior windows to vocal room and instrumental room
- Environmental sound control
 walls minimum **STC 45**
 ceiling minimum **CAC 35, NRC 0.70**

NOTES:

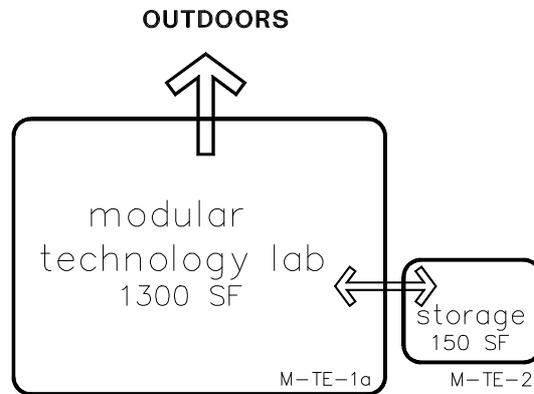
1. Loose furnishings shown represent one of many possible arrangements.

**MUSIC LIBRARY
M-MU-3**

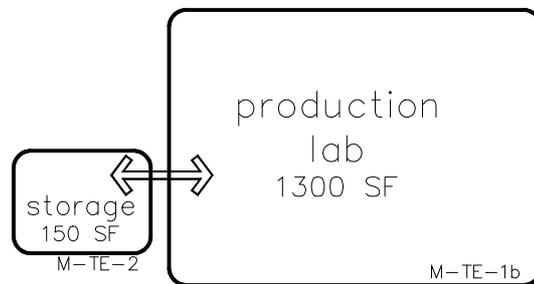
<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
<u>Flooring:</u>		<u>Fixed Items:</u>	
Carpet, carpet tile,	096816	F1 (2), 2'-3' of tall wardrobes	123550
linoleum, ET, sheet vinyl	096813	F2 24' of work surface with file drawers	
or rubber	096500	and wall cabinets	123550
<u>Base:</u>		F3 8'-16' of tall storage cabinets	
Resilient base	096500	or shelving (or file cabinets)	123550
<u>Ceiling:</u>		Option: mobile storage shelving	105626
Suspended, acoustical	095113	<u>Fire Suppression:</u>	
<u>Walls:</u>		Fire suppression system	211000
Painted concrete masonry units	042000/099100	<u>Plumbing:</u>	
<u>LOOSE FURNISHINGS:</u>		N/A	
L1 Chairs		<u>HVAC:</u>	
L2 Files		Independent temperature control	230923
Wastebasket		Supply/return air system	Div. 23
		<u>Electrical:</u>	
		Fluorescent lighting	265100
		Illumination level: See Table 8600-5	
		3 duplex receptacles	262726
		Double duplex receptacle adjacent to	
		data port	262726
		<u>Communications:</u>	
		T1 1 voice port and phone	271513/ 273123
		T2 1 data port near each workstation	271513
		Central sound system	275123
		<u>Electronic Safety and Security:</u>	
		Life safety device per code	283111
		<u>Miscellaneous:</u>	
		Interior windows (optional)	081113/088000

NOTES:

1. Finishes/Features: Refer to Chapter 9 for specification references.



OR

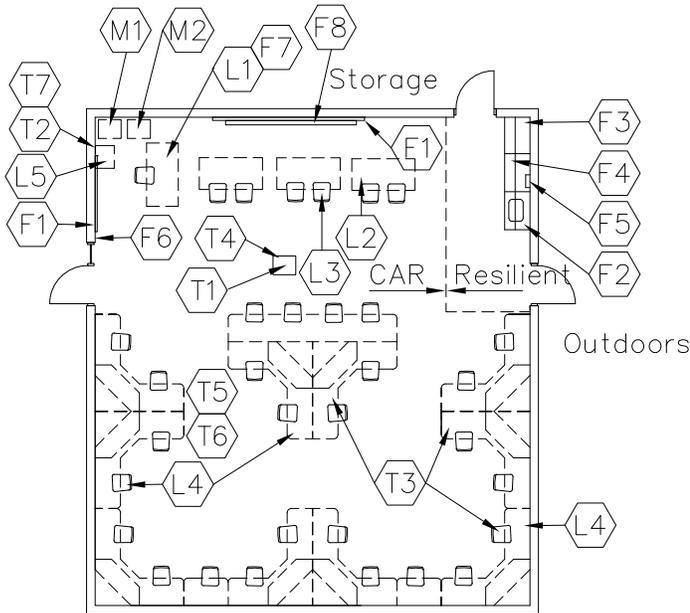
**NOTE:**

This is an example of how the technology education spaces in a middle school could be arranged. This is meant only to demonstrate the relationships between various spaces of this area.

Following are the Technology Education space plates:

- M-TE-1a Modular Technology Lab
- M-TE-1b Production Lab
- M-TE-2 Storage

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CAPACITY: 25 students
SIZE: 1,300 SF
ANCILLARY SPACES: M-TE-2
 Storage

PROGRAM ACTIVITIES:

- Program accommodates groups of 2 or 3 students working with separate computerized modules in various technical areas that could include robotics, electronics, thermodynamics, research and design, and desktop publishing.
- This curriculum may be integrated with the science and math programs.
- Activity will introduce students to problem solving activities.
- A variety of hands-on activities/experiments which could include automation, wind tunnels, flight technology, digital imaging, and meteorology.

SPATIAL RELATIONSHIPS:

- Grouped with other noise producing type activities
- Access to driveway and parking
- Direct access to outdoors or access through corridor
- Adjacent to storage room

ENVIRONMENTAL CONSIDERATIONS:

- Environmental sound control -
 wall only minimum STC 45
 ceiling minimum CAC 35, NRC 0.70
- Optional – window with integral blind

NOTES:

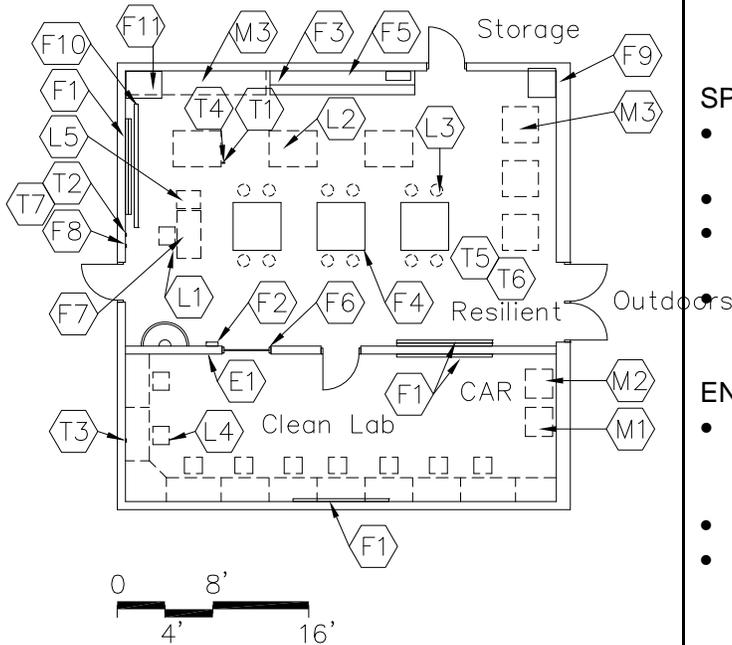
1. Loose furnishings represent one of many possible arrangements.

**MODULAR TECHNOLOGY LAB
M-TE-1a**

<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
<u>Flooring:</u>		<u>Fixed Items:</u>	
Linoleum, ET,	096500	F1 18'-26' combination marker	101100
rubber, sheet vinyl,	096516	board, tack board and tackable wall surface	
carpet, carpet tile	096816	F2 3' sink base cabinet	123550
	096813	F3 About 9' of wall cabinets	123550
<u>Base:</u>		F4 About 9' of base cabinet with (heavy duty	
Resilient base	096500	counter top)	123550
<u>Ceiling:</u>		F5 Towel dispenser	102813
Suspended, acoustical	095113	F6 Pencil sharpener support (optional)	062000
<u>Walls:</u>		F7 Technology support casework	123550
Painted concrete masonry units		F8 Projection screen (optional)	115213
	042000/099100	<u>Fire Suppression:</u>	
<u>LOOSE FURNISHINGS:</u>		Fire suppression system	211000
L1 Teacher desk/computer support and chair		<u>Plumbing:</u>	
L2 Tables with heavy duty tops		Sink	224000
L3 Student stools/chairs		Plumbing connections	
L4 Computer technology workstation			224000/221116/221119
with chairs		<u>HVAC:</u>	
L5 File cabinet		Supply/return air system	Div. 23
Wastebaskets		Independent temp control	230923
<u>Electronic Safety and Security:</u>		<u>Electrical:</u>	
Life safety devices per code	283111	Fluorescent lighting with	
<u>Miscellaneous:</u>		computer aided lenses	265100
Pencil sharpener (optional)		Illumination level: See Table 8600-5	
The following items are to be provided by the		Multilevel switching	262726
school district:		8 duplex receptacles	262726
M1 Classroom area network file server		Double duplex receptacle adjacent to	
M2 Printer		data and video port	262726
E1 Duplex receptacle with dedicated		Means of egress lighting per code	265100
circuit for wireless devices		Emergency lighting per code	265100
<u>Communications (cont'd):</u>		<u>Communications:</u>	
T6 Wireless access point (WAP) as		T1 1 projector video port	271543
determined by Design – refer to Note 3		T2 1 voice port and phone	271513/273123
	272133	T3 Classroom area network	
T7 Classroom technology center video port		(25 data ports minimum)	271513
271543, 274116, 274119, 275127		Clock	275313
		Central sound system	275123
		Sound reinforcement system	275127
		T4 Ultra-short throw interactive projector	274119
		T5 Wireless access point cable above	
		ceiling	271513

NOTES:

1. Finishes/Features: Refer to Chapter 9 for specification references.
2. Technology components may be placed in a separate small cabinet, or integrated in the other casework in the room.
3. Baseline includes WAP cable per classroom. WAP device quantity / placement per 272133 requirements.



PROGRAM ACTIVITIES:

- Space for instruction in developing skills in use of tools, materials, and processes to apply knowledge of planning and design to actual fabrication of projects

SPATIAL RELATIONSHIPS:

- Grouped with other noise producing type activities
- Access to driveway and parking
- Direct access to outdoors or access through corridor
- Adjacent to storage room

ENVIRONMENTAL CONSIDERATIONS:

- Environmental sound control - wall only minimum STC 45 ceiling minimum CAC 35, NRC 0.70
- Resilient floor covering
- Optional – window with integral blind

CAPACITY: 25 students
SIZE: 1,300 SF
ANCILLARY SPACES: M-TE-2
 Storage

NOTES:

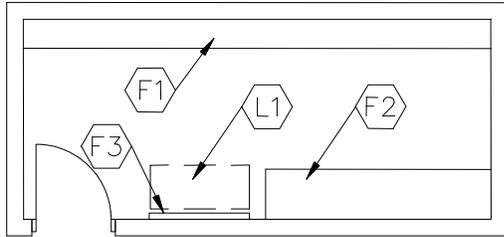
1. Loose furnishings represent one of many possible arrangements.

**PRODUCTION LAB
M-TE-1b**

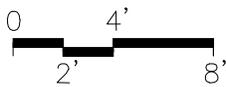
<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
<u>Flooring:</u>		<u>Fixed Items:</u>	
Linoleum, rubber, ET, sheet vinyl	096516	F1 12'-28' combination marker board, tack board & tackable wall surface	101100
Carpet, carpet tile	096500	F2 Towel dispenser	102813
	096816	F3 8'-12' of wall cabinets	123550
	096813	F4 Workbench and locker base	123550
<u>Base:</u>		F5 About 12' of heavy duty counter top at 36" high with knee space	123550
Resilient base	096500	F6 Interior window	081113/088000
		F7 Technology support casework	123550
<u>Ceiling:</u>		F8 Pencil sharpener support (optional)	062000
Painted, exposed structure	095113	F9 Tool cabinet (optional)	
		F10 Projection screen (optional)	115213
<u>Walls:</u>		F11 Tall wardrobe	123550
Painted concrete masonry units	042000/099100	<u>Fire Suppression:</u>	
		Fire suppression system	211000
		<u>Plumbing:</u>	
		Wash fountain	224000
		Plumbing connections	224000/221116/221119
<u>LOOSE FURNISHINGS:</u>		<u>HVAC:</u>	
L1 Teacher desk and chair		Supply/return air system	Div. 23
L2 Tables with heavy duty tops		Independent temperature control	230923
L3 Student stools		Localized dust collection system as necessary	233513
L4 Computer technology workstation with chairs		<u>Electrical:</u>	
L5 File cabinet		Fluorescent lighting	265100
Wastebasket		Illumination level: See Table 8600-5	
Waste receptacle		Multilevel switching in computer area	262726
		8 duplex receptacles	262726
<u>Electronic Safety and Security:</u>		Double duplex receptacle adjacent to data and video port	262726
Life safety devices per code	283111	Means of egress lighting per code	265100
<u>Miscellaneous:</u>		Emergency lighting per code	265100
Pencil sharpener (optional)		Electrical power for shop equipment	262726
The following items are to be funded by the school district:		Master shut-off for power equipment	262726
M1 Classroom area network file server		<u>Communications:</u>	
M2 Printer		T1 1 projector video port	271543
M3 Shop equipment with localized dust collection as necessary		T2 1 voice port and phone	271513/273123
		T3 Classroom area network (10 data ports minimum)	271513
E1 Duplex receptacle with dedicated circuit for wireless devices		Clock	275313
		Central sound system	275123
		Sound reinforcement system	275127
<u>Communications (cont'd):</u>		T4 Ultra-short throw interactive projector	274119
T6 Wireless access point (WAP) as determined by Design – refer to Note 3	272133	T5 Wireless access point cable above ceiling	271513
T7 Classroom technology center video port	271543, 274116, 274119, 275127		

NOTES:

1. Finishes/Features: Refer to Chapter 9 for specification references.
2. Technology components may be placed in a separate small cabinet, or integrated in the other casework in the room.
3. **Baseline includes WAP cable per classroom. WAP device quantity / placement per 272133 requirements.**



Modular Technology Lab
Production Lab



PROGRAM ACTIVITIES:

- Houses equipment, instructional aids, and materials used in the technology education activities

SPATIAL RELATIONSHIPS:

- Adjacent to the modular technology lab or production lab
- Access to service drive

ENVIRONMENTAL CONSIDERATIONS:

N/A

CAPACITY: N/A
 SIZE: 150 SF
 ANCILLARY SPACES: Modular Technology Lab
 M-TE-1a
 or Production Lab
 M-TE-1b

NOTES:

1. Loose furnishings shown represent one of many possible arrangements.

STORAGE
M-TE-2

	Spec. Ref.#		Spec. Ref.#
<u>FINISHES¹:</u>		<u>FEATURES¹:</u>	
Flooring:		<u>Fixed Items:</u>	
Sealed concrete	033000	F1 10'-20' of open shelving, depths may vary (fixed or loose)	123550
Base:		F2 About 9' of tall cabinets	123550
Resilient base	096500	F3 4' of pegboard (optional)	102813
Ceiling:		<u>Fire Suppression:</u>	
Suspended, acoustical	095113	Fire suppression system	211000
Walls:		<u>Plumbing:</u>	
Painted concrete masonry units	042000/099100	N/A	
<u>LOOSE FURNISHINGS:</u>		<u>HVAC:</u>	
L1 Mobile tool cart		To be determined by Design Professional	
		Supplemental heat as required	Div. 23
		<u>Electrical:</u>	
		Fluorescent lighting	265100
		Illumination level: See Table 8600-5	
		1 duplex receptacle	262726
		<u>Communications:</u>	
		N/A	
		<u>Electronic Safety and Security:</u>	
		N/A	
		<u>Miscellaneous:</u>	
		N/A	

NOTES:

1. Finishes/Features: Refer to Chapter 9 for specification references.



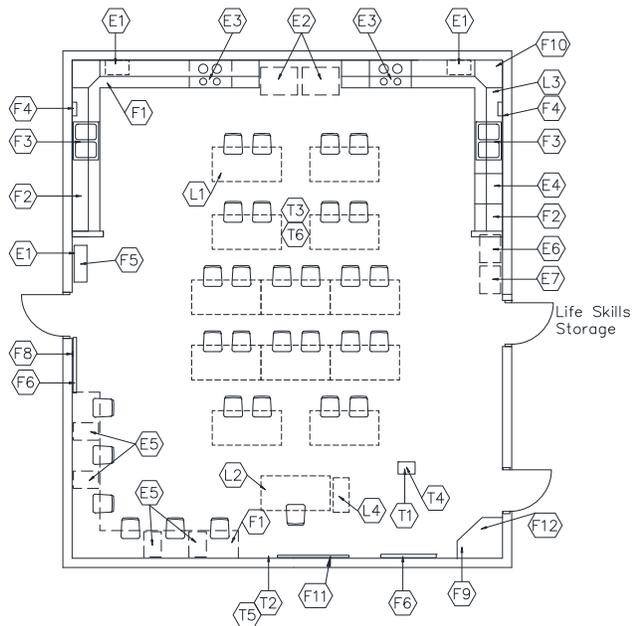
NOTES:

This is an example of how the family and consumer science spaces in a middle school could be arranged. This is meant only to demonstrate the relationships between various spaces of this area.

Following are the Family and Consumer Science space plates:

- M-FCS-1 Life Skills Lab
- M-FCS-1 Life Skills Storage

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CAPACITY: 24 students
 SIZE: 1,100 SF
 ANCILLARY SPACES: Life Skills Storage
 M-FCS-2

PROGRAM ACTIVITIES:

- Houses the facilities for the home economics programs, family living program, and consumer science programs
- Activities will include hands-on activities, demonstrations, and lectures.

SPATIAL RELATIONSHIPS:

- Grouped with support service programs
- Adjacent to storage

ENVIRONMENTAL CONSIDERATIONS:

- Environmental sound control -
 wall only minimum STC 45
 ceiling minimum CAC 35, NRC 0.70

NOTES:

1. Loose furnishings shown represent one of many possible arrangements.

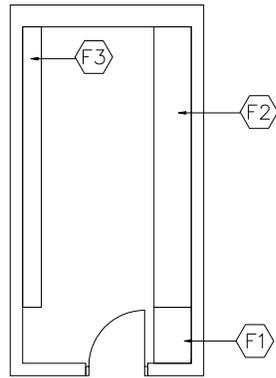
**LIFE SKILLS LAB
M-FCS-1**

CHAPTER 5: MIDDLE SCHOOL

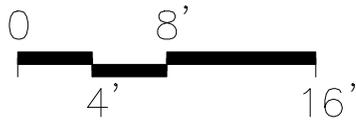
<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
<u>Flooring:</u>		<u>Fixed Items:</u>	
Linoleum,	096515	F1 Base cabinets	123550
ET, sheet vinyl, or rubber	096500	F2 Wall cabinets	123550
		F3 Double bowl sink base cabinet	123550
		F4 Towel dispensers (optional)	102813
<u>Base:</u>		F5 3'-8' of bookcases	123550
Resilient base	096500	F6 12'-20' combination marker board tack board, & tackable wall surface	101100
<u>Ceiling:</u>		F7 Reserved	
Suspended, acoustical	095113	F8 Pencil sharpener support (optional)	062000
		F9 Tall wardrobe with file drawers	123550
<u>Walls:</u>		F10 3' tall cabinet (optional)	123550
Paint	099100	F11 Projection screen (optional)	115213
		F12 Technology support casework	123550
<u>LOOSE FURNISHINGS:</u>		<u>Fire Suppression:</u>	
L1 Tables and chairs		Fire suppression system	211000
L2 Teacher desk/computer support and chair		<u>Plumbing:</u>	
L3 Reserved		Double sinks	224000
L4 File cabinet		Plumbing connections	224000/221116/221119
Wastebaskets		Garbage disposal (optional)	224000
		Washer connections	224000
<u>EQUIPMENT:</u>		<u>HVAC:</u>	
E1 Microwaves		Supply/return air system	Div. 23
E2 Refrigerators		Manually operated exhaust system	Div. 23
E3 Ranges and ovens		Independent temp control	230923
E4 Dishwasher		Dryer vent system	Div. 23
E5 Sewing machines		<u>Electrical:</u>	
E6 Washer		Fluorescent lighting	265100
E7 Dryer		Illumination level: See Table 8600-5	
		Multilevel switching	262726
<u>Miscellaneous:</u>		4 duplex receptacles	262726
Pencil sharpener (optional)		Double duplex receptacle adjacent to each data and video port	262726
E1 Duplex receptacle with dedicated circuit for wireless devices		Receptacles for refrigerators, microwaves, ranges, dishwashers, and sewing machines	262726
<u>Electronic Safety and Security:</u>		Means of egress lighting per code	265100
Life safety devices per code	283111	Emergency lighting per code	265100
		Washer and dryer connections	262726
<u>Communications (cont'd):</u>		<u>Communications:</u>	
T4 Ultra-short throw interactive projector	274119	T1 1 projector video port	271543
T5 Classroom technology center video port	271543, 274116, 274119, 275127	T2 1 voice port and phone	271513/273123
T6 Wireless access point (WAP) as determined by Design – refer to Note 3	272133	T3 Wireless access point cable near ceiling	271513
		Clock	275313
		Central sound system	275123
		Sound reinforcement system	275127

NOTES:

1. Finishes/Features: Refer to Chapter 9 for specification references.
2. Technology components may be placed in a separate small cabinet, or integrated in the other casework in the room.
3. Baseline includes WAP cable per classroom. WAP device quantity / placement per 272133 requirements.



Life Skills Lab



PROGRAM ACTIVITIES:

- Storage of materials, supplies, and equipment used in the delivery of the family and consumer science program

SPATIAL RELATIONSHIPS:

- Adjacent to life skills lab

ENVIRONMENTAL CONSIDERATIONS:

N/A

CAPACITY:	N/A
SIZE:	100 SF
ANCILLARY SPACES:	M-FCS-1 Life Skills Lab

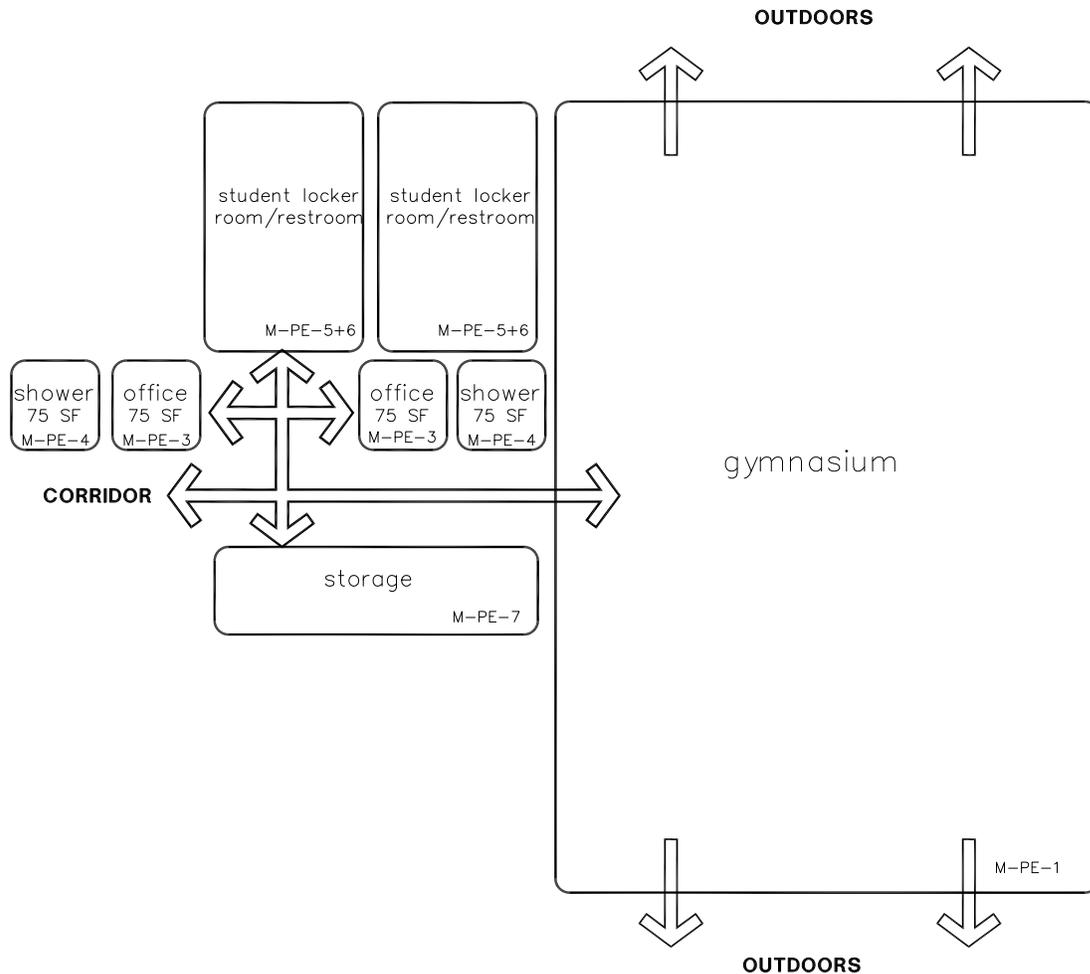
NOTES:

**LIFE SKILLS STORAGE
M-FCS-2**

<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
Flooring:		<u>Fixed Items:</u>	
Rubber, linoleum, sheet vinyl, or ET	096500 096516	F1 Tall wardrobe (optional)	123550
		F2 10'-15' of tall cabinets, or base and wall cabinets	123550
Base:		F3 10'-15' of open tall cabinets	123550
Resilient base	096500	<u>Fire Suppression:</u>	
Ceiling:		Fire suppression system	211000
Suspended, acoustical	095113	<u>Plumbing:</u>	
Walls:		N/A	
Painted concrete masonry units	042000/099100	<u>HVAC:</u>	
<u>LOOSE FURNISHINGS:</u>		To be determined by Design Professional	
N/A		Supplemental heat as required	Div. 23
		<u>Electrical:</u>	
		Fluorescent lighting	265100
		Illumination level: See Table 8600-5	
		1 duplex receptacle	262726
		<u>Communications:</u>	
		N/A	
		<u>Electronic Safety and Security:</u>	
		N/A	
		<u>Miscellaneous:</u>	
		N/A	

NOTES:

1. Finishes/Features: Refer to Chapter 9 for specification references.
2. Fixed equipment and loose furniture can also be all fixed equipment or all loose equipment.



NOTES:

This is an example of how the physical education spaces in a middle school could be arranged. This is meant only to demonstrate the relationships between various spaces of this area.

Following are the Physical Education space plates:

- M-PE-1 Gymnasium
- M-PE-2 Auxiliary Gymnasium
- M-PE-3 P.E./Athletic Office
- M-PE-4 Staff Shower
- M-PE-5 Student Locker Room
- M-PE-6 Student Restroom/Shower
- M-PE-7 Physical Education Storage

GYMNASIUM SIZE

When designing spaces for physical education activities, it is important to consider the type of activities, the number of participants, equipment needed, and space allocation for each space. Consideration should also be given as to the size of the activity area and safety borders (run-outs). Adequate co-funded space for these design considerations, and others, should be provided in the square footage allowed for the gymnasium.

The table included below, illustrates the maximum gymnasium size for each of the student enrollment examples found in the Program of Requirements (POR). For example, a school with 1,000 students would have approximately 95 staff members indicating a total number of persons in the facility of 1,095. The maximum size of the gymnasium would be 8,500 sf. That value, 8,500 sf., would be inserted into the POR for the gym size.

Additional student enrollment examples (1,250 and 1,750 students) have been added to assist in planning and design of various sized gymnasiums. These examples are bolded in the table below.

SEATING

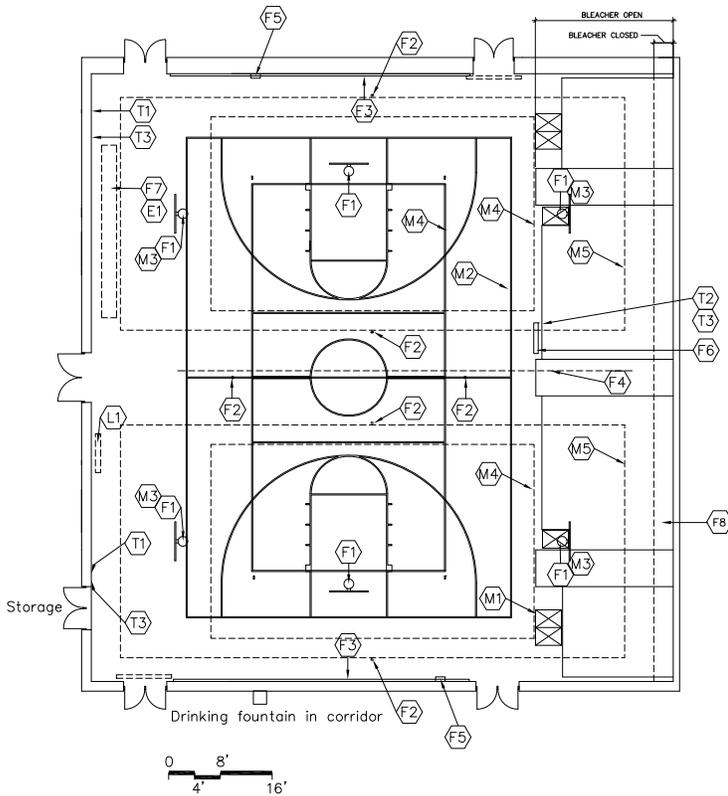
Regarding seating/bleachers, in middle schools, space for seating in the gym is provided for the entire student enrollment and staff. The approximate number of seats to be included is shown in the table below.

FINAL LAYOUT

The actual Gym layout and number of seats will be determined during the design process.

Middle School Gymnasium Design Guidelines					
STN ENRL	Staff	Total Occup	Gym SF	Court Size	Approx. # Seats
450	44	494	7,000	50 x 74	108
600	58	658	7,500	50 x 74	236
750	72	822	8,000	50 x 74	364
1,000	95	1,095	8,500	50 x 74	492
1,250	119	1,369	9,300	50 x 74	696
1,500	142	1,642	10,000	50 x 74	876
1,750	180	1,930	11,000	50 x 74	1,132
2,000	217	2,217	12,000	50 x 74	1,388

Note: 2011



Please see page 5109-5 for an enlargement of this diagram.

CAPACITY: 25 - 60 students
 SIZE: 7,000 – 12,000 SF
 ANCILLARY SPACES: Physical Education Storage
 M-PE-7

PROGRAM ACTIVITIES:

- P. E. students will practice and participate in exercise, sports activities, intramural events, and physical fitness.
- Student assemblies
- Community use

SPATIAL RELATIONSHIPS:

- Direct access to outdoors
- Near student dining

ENVIRONMENTAL CONSIDERATIONS:

- Adequate sound control/acoustics
- Clear, **fixed** height of 23' from floor to nearest obstruction
- Environmental sound control - wall minimum STC 60

NOTES:

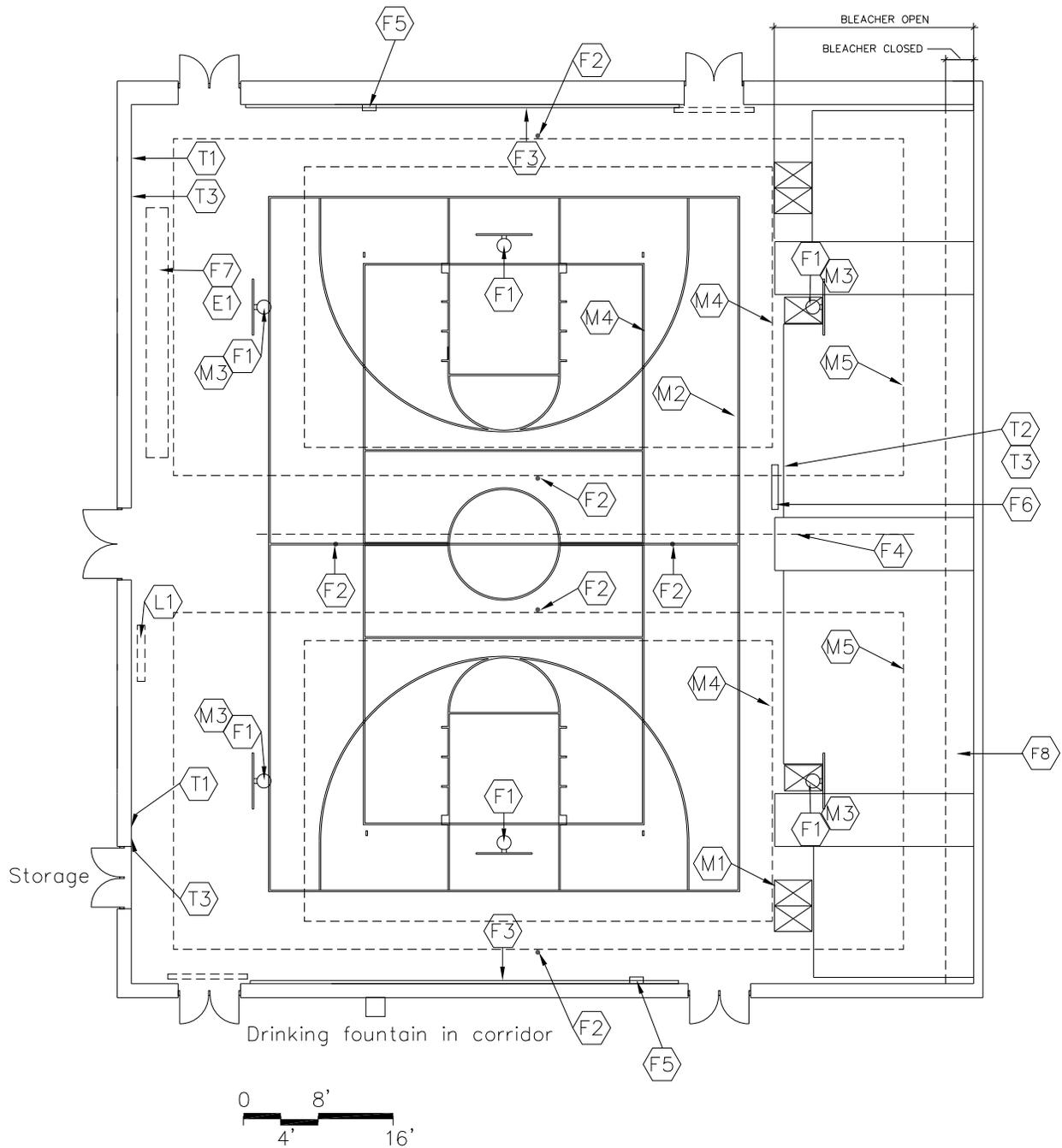
1. Loose furnishings shown represent one of many possible arrangements.

**GYMNASIUM
M-PE-1**

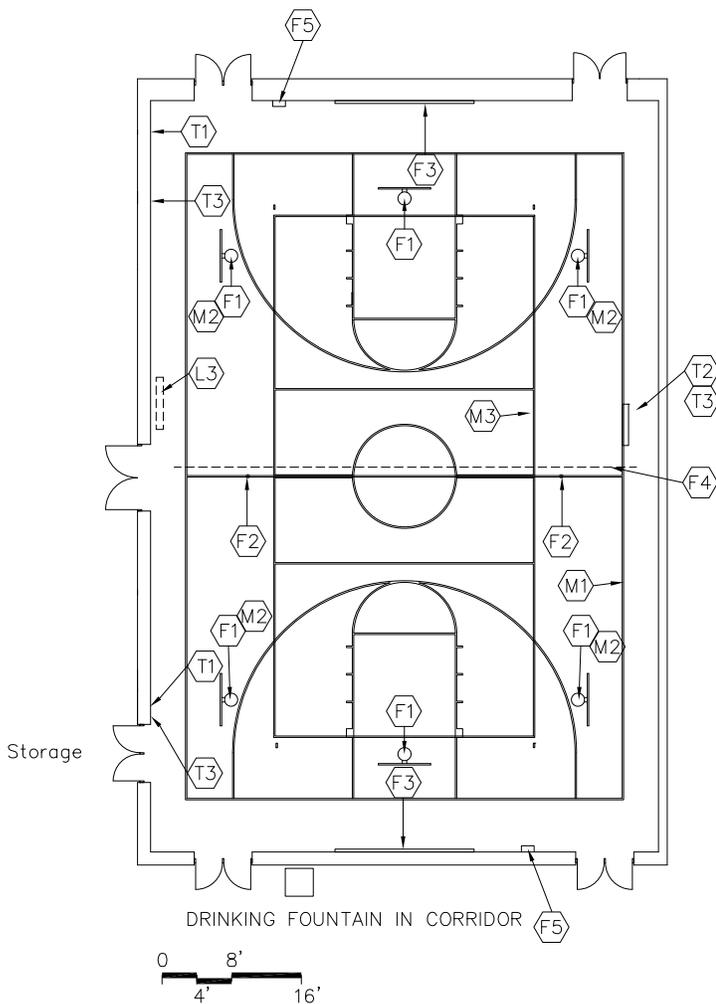
<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
<u>Flooring:</u>		<u>Fixed Items:</u>	
Wood flooring or	096466	F1 (6) basketball backstops, glass	116623
Fluid-applied athletic flooring	096766	F2 Volleyball sleeves and standards on a cart	116623
<u>Base:</u>		F3 Safety wall wainscot (see note 2)	116623
Ventilated resilient base	096466	F4 Divider gym curtain	116623
<u>Ceiling:</u>		F5 Chin-up bar (optional)	116623
Painted exposed structure	099100	F6 Scorer table	126600
<u>Walls:</u>		F7 Wrestling mat hoist (optional)	116623
Painted	099100	F8 Telescoping bleachers	126600
Sound absorbing concrete masonry units or abuse-resistant	042000	<u>Fire Suppression:</u>	
acoustical wall treatment	098000	Fire suppression system	211000
<u>LOOSE FURNISHINGS:</u>		<u>Plumbing:</u>	
L1 Portable markerboard		Drinking fountain	224000
		directly outside the entrance	
		<u>HVAC:</u>	
		Supply/return air system	Div. 23
		Independent temp control	230923
		<u>Electrical:</u>	
		Multi-level switching	262726
		Fluorescent lighting	265100
		Illumination level: See Table 8600-5	
		8 duplex receptacles	262726
		Double duplex receptacle adjacent to each data and video port	262726
		Emergency lighting per code	265100
		Means of egress lighting per code	265100
		Electrical connections to P.E. equipment where necessary	262726
		Scoreboard (control outlets in the face of bleachers)	116643
		Telecommunications Grounding	270526/260526
		<u>Communications:</u>	
		T1 2 projector video ports, 1 monitor with cart	271543/274119
		T2 1 voice port	271513/273113
		T3 3 data port	271513
		Clocks with wire guards	275313
		Central sound system	275123
		Gymnasium sound system	275124
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
<u>Miscellaneous:</u>			
M1 Bleacher seating (ADA accessible) Court markings (optional)			
M2 74' x 42' main basketball court			
M3 2 cross courts to fit			
M4 30'x 60' volleyball courts			
M5 36' x 78' tennis courts			
Provide wire guards on light fixtures and wall-mounted electrical devices.			
<u>EQUIPMENT:</u>			
E1 Wrestling mat			

NOTES:

1. Finishes/Features: Refer to Chapter 9 for specification references.
2. Extend safety wall wainscot 5 feet beyond side game lines at both ends of main basketball court.



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PROGRAM ACTIVITIES:

- *P.E. students will practice and participate in exercise, sports activities, intramural events, and physical fitness.*
- **Student assemblies**
- Community use

SPATIAL RELATIONSHIPS:

- **Direct** access to outside
- **Near student dining**

ENVIRONMENTAL CONSIDERATIONS:

- Adequate sound control/acoustics
- Clear height of 23' from floor to nearest obstruction
- Environmental sound control - wall minimum STC 60

Please see page 5109-9 for an enlargement of this diagram.

CAPACITY: 25 - 60 students
 SIZE: 5,000 - 6,500 SF
 ANCILLARY SPACES:

NOTES:

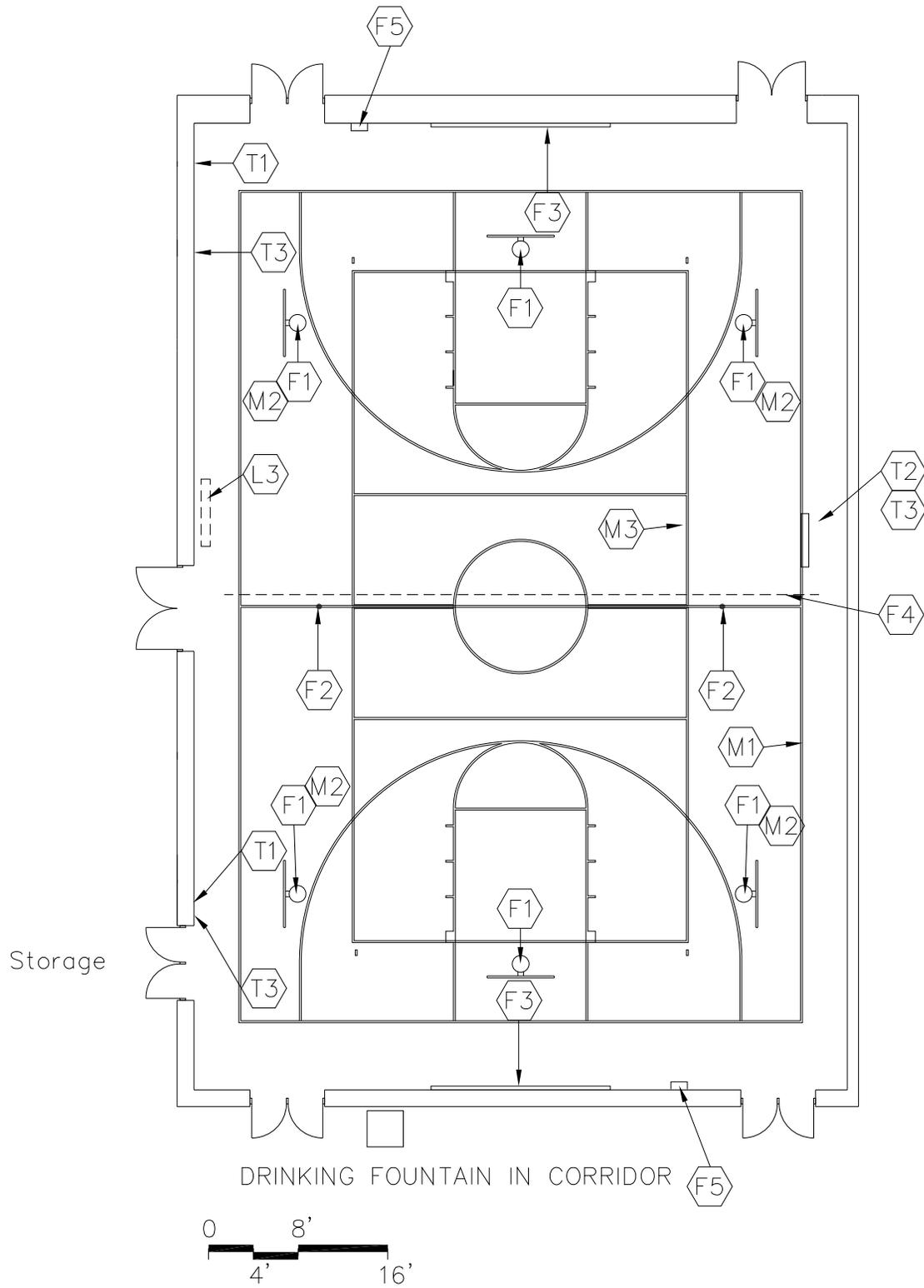
1. Loose furnishings shown represent **one** of many possible arrangements.

**AUXILIARY GYMNASIUM
M-PE-2**

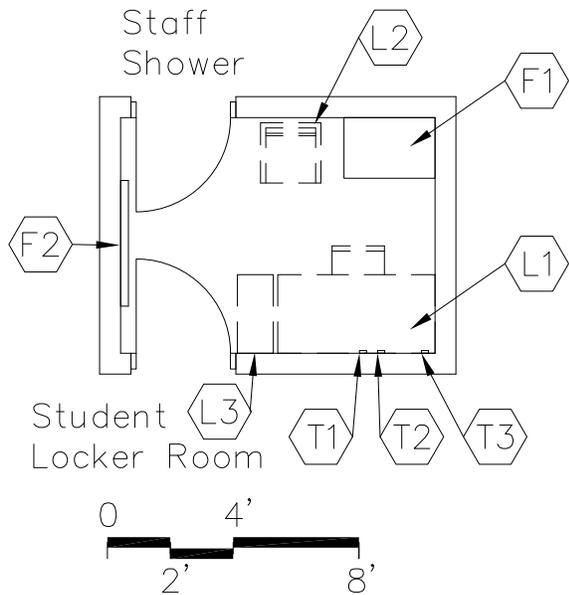
<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
<u>Flooring:</u>		<u>Fixed Items:</u>	
Wood flooring or fluid applied athletic flooring	096466 096766	F1 6 basketball backstops, glass	116623
		F2 Volleyball sleeves and standards on a cart	116623
		F3 Safety wall wainscot	116623
<u>Base:</u>		F4 Divider gym curtain	116623
Ventilated resilient base	096466	F5 Chin-up bar (optional)	116623
<u>Ceiling:</u>		<u>Fire Suppression:</u>	
Painted exposed structure	099100	Fire suppression system	211000
<u>Walls:</u>		<u>Plumbing:</u>	
Painted	099100	Drinking fountain directly outside the entrance	224000
Sound absorbing concrete masonry units on 2 walls or abuse-resistant acoustical wall treatment	042000	<u>HVAC:</u>	
		Supply/return air system	Div. 23
<u>LOOSE FURNISHINGS:</u>		Independent temperature control	230923
L1 Portable markerboard		<u>Electrical:</u>	
		Multi-level switching	262726
		Fluorescent lighting	265100
		Illumination level: See Table 8600-6	
		8 duplex receptacles	262726
		Double duplex receptacle adjacent to each data and video port	262726
		Emergency lighting per code	265100
		Means of egress lighting per code	265100
		Electrical connections to P.E. equipment where necessary	262726
		Telecommunications Grounding	270526/260526
<u>Miscellaneous:</u>		<u>Communications:</u>	
Court markings (minimum)		T1 2 video ports, 1 monitor with cart	271543/274119
M1 74' x 50' main basketball court		T2 1 voice port	271513/273113
M2 2 cross courts to fit		T3 2 data port	271513
M3 30'x60' volleyball court		Clocks with wire guards	275313
Provide wire guards on light fixtures and wall-mounted electrical devices.		Central sound system	275123
		Gymnasium sound system	275124
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111

NOTES:

1. Finishes/Features: Refer to Chapter 9 for specification references.
2. The OSFC does not co-fund telescoping bleachers in auxiliary gyms. District may provide telescoping bleachers in accordance with section 126600 at district's expense.



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PROGRAM ACTIVITIES:

- Teacher office for planning, grading, conferences, and scheduling

SPATIAL RELATIONSHIPS:

- Near gymnasium
- Adjacent to student locker rooms
- Adjacent to staff shower

ENVIRONMENTAL CONSIDERATIONS:

- Environmental sound control -
wall minimum STC 45
ceiling minimum CAC 35, NRC 0.70

CAPACITY: 1 teacher
 SIZE: 75 SF
 ANCILLARY SPACES: Student Locker Room
 M-PE-5
 Staff Shower
 M-PE-4

NOTES:

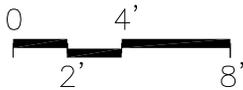
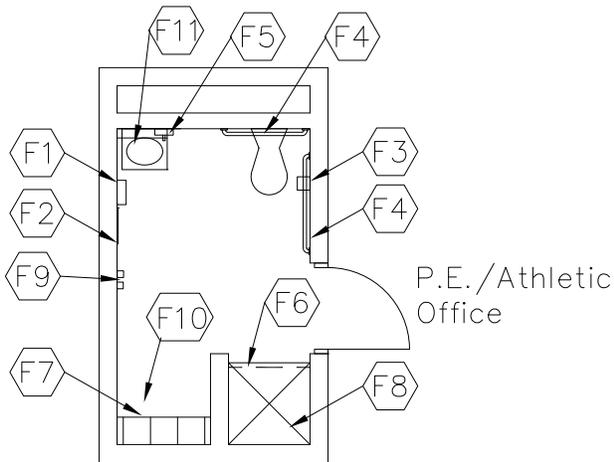
1. Loose furnishings shown represent one of many possible arrangements.

**P.E./ATHLETIC OFFICE
M-PE-3**

<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
Flooring:		<u>Fixed Items:</u>	
Linoleum,	096516	F1 Tall wardrobe	123550
ET, sheet vinyl, or rubber	096500	F2 4' of tack or marker board	101100
Base:		<u>Fire Suppression:</u>	
Resilient base	096500	Fire suppression system	211000
Ceiling:		<u>Plumbing:</u>	
Acoustical, suspended	095113	N/A	
Walls:		<u>HVAC:</u>	
Painted concrete masonry units	042000/099100	Supply/return air system	Div. 23
		Independent temp control	230923
		(coupled with similarly loaded adjacent spaces)	
<u>LOOSE FURNISHINGS:</u>		<u>Electrical:</u>	
L1 Teacher desk and chair		Single level switching	262726
L2 Visitor chair		Fluorescent lighting	265100
L3 File cabinet		Illumination level: See Table 8600-5	
Wastebasket		4 duplex receptacles	262726
		Double duplex receptacle adjacent to each data and video port	262726
		<u>Communications:</u>	
		T1 1 voice port and phone	271513/273123
		T2 1 data port near teacher workstation	271513
		T3 1 projector video port	271543
		Central sound system	275123
		Clock	275313
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
		<u>Miscellaneous:</u>	
		Interior window (optional)	081113/088000

NOTES:

1. Finishes/Features: Refer to Chapter 9 for specification references.



PROGRAM ACTIVITIES:

- Personal and health care needs for physical education teacher

SPATIAL RELATIONSHIPS:

- Adjacent to P.E./athletic office

ENVIRONMENTAL CONSIDERATIONS:

- Environmental sound control -
walls minimum STC 48
ceiling minimum CAC 35, NRC 0.70
- Moisture- and stain-resistant finishes

CAPACITY: 1 person
 SIZE: 75 SF
 ANCILLARY SPACES: P.E./Athletic Office
 M-PE-3

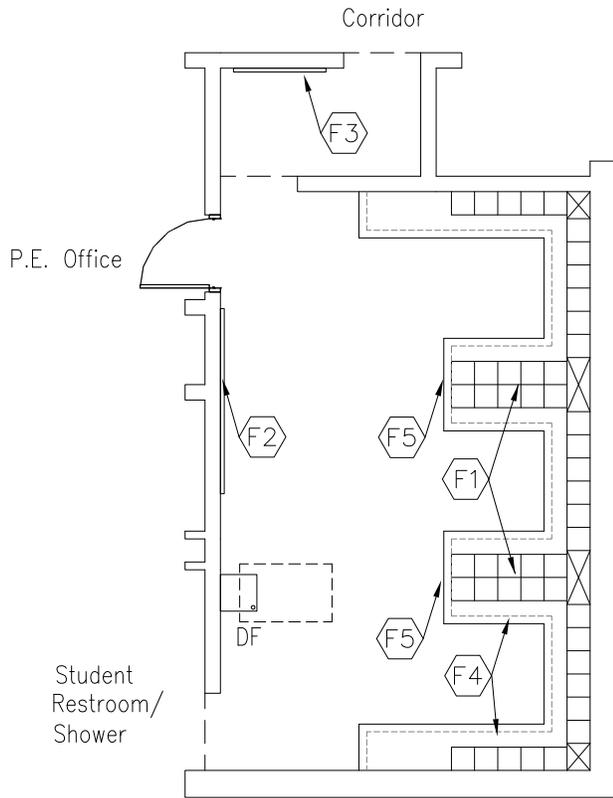
NOTES:

STAFF SHOWER
M-PE-4

<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
<u>Flooring:</u>		<u>Fixed Items:</u>	
Restroom: Ceramic mosaic tile	093000	F1 Towel dispenser	102813
sheet vinyl, resinous flooring	096500	F2 24" x 60" mirror	102813
	096723	F3 Toilet tissue holder	102813
Shower: Ceramic mosaic tile,	093000	F4 36" and 42" grab bar	102813
porcelain tile, or resinous flooring		F5 Soap dispenser	102813
		F6 Shower curtain and rod	102813
<u>Base:</u>		F7 3 athletic lockers	105113
Restroom: Resilient base,	096500	F8 ADA Shower accessories	102813
resinous flooring, or	096723	F9 Towel hooks	102813
integral vinyl cove base	093000	F10 Built-in bench (optional)	102813
Shower: Ceramic mosaic tile base,		F11 Mirror over sink with shelf (optional)	102813
porcelain tile base, resinous flooring,			
or integral vinyl cove base		<u>Fire Suppression:</u>	
		Fire suppression system	211000
<u>Ceiling:</u>		<u>Plumbing:</u>	
Restroom: Suspended, acoustical	095113	Wall-mounted water closet	224000
Shower: Painted portland cement plaster	092400/099100	Wall-mounted lavatory	224000
	092513	ADA shower controls and head	224000
or interior finish system		Plumbing connections	224000/221116/221119
<u>Walls:</u>		<u>HVAC:</u>	
Epoxy painted concrete masonry units	042000/099100	Exhaust air system	Div. 23
or ceramic wall tile in shower and	093000	Supplemental heat as required	Div. 23
latex paint in restroom	099100		
<u>LOOSE FURNISHINGS:</u>		<u>Electrical:</u>	
Wastebasket		Single level switching	262726
		Fluorescent lighting	265100
		Illumination level: See Table 8600-6	
		1 duplex receptacle	262726
		<u>Communications:</u>	
		Central sound system	275123
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
		<u>Miscellaneous:</u>	
		N/A	

NOTES:

1. Finishes/Features: Refer to Chapter 9 for specification references.



PROGRAM ACTIVITIES:

- Students change from their regular clothes into clothes appropriate for physical education
- Storage for personal items while students are attending physical education class

SPATIAL RELATIONSHIPS:

- Adjacent to student restroom/shower
- Near both gymnasium and outdoor area
- Located on gymnasium level
- Adjacent to P.E./athletic office

ENVIRONMENTAL CONSIDERATIONS:

- Environmental sound control -
wall minimum STC 48
ceiling minimum CAC 35, NRC 0.70

CAPACITY: 25 - 30 students
SIZE: 600 - **900 SF**
ANCILLARY SPACES:
 Student Restroom/Shower
 M-PE-6
 P.E./Athletic Office
 M-PE-3

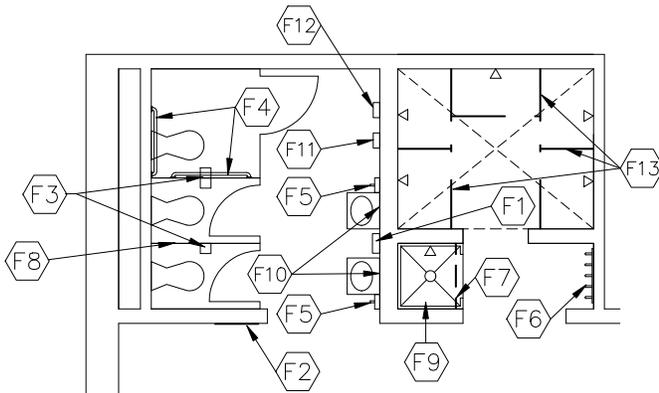
NOTES:

STUDENT LOCKER ROOM
M-PE-5

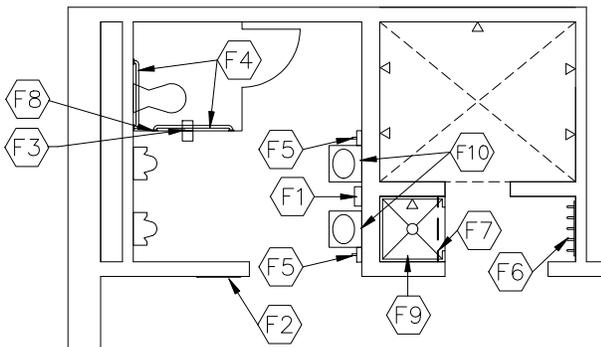
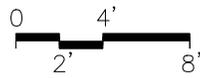
<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
Flooring:			
Sealed concrete, sheet vinyl,	093000	Fixed Items:	
rubber, rubber tile,	096500	F1 Athletic lockers	105113
or resinous flooring	096723	F2 8'-16' combination marker board and tackable wall surface	101100
Base:			
Resilient base or	096500	F3 Reserved	
resinous flooring	096723	F4 Locker benches (fixed or loose)	062000
Ceiling:			
Suspended, acoustical with high-impact hold-down clips	095113	F5 Mirrors (optional)	102813
Option: Exposed painted pre-cast units	099100	Fire Suppression:	
		Fire suppression system	211000
Walls:			
Painted concrete masonry units	042000/099100	Plumbing:	
		Drinking fountain	224000
LOOSE FURNISHINGS:			
Wastebaskets		HVAC:	
		Supply air system	Div. 23
		Exhaust air system	Div. 23
		Independent temperature control	230923
		Electrical:	
		Fluorescent lighting	265100
		Illumination level: See Table 8600-6	
		2 duplex receptacles	262726
		Emergency lighting	265100
		Means of egress per code	265100
		Communications:	
		Clock	275313
		Central sound system	275123
		Electronic Safety and Security:	
		Life safety devices per code	283111
		Miscellaneous:	
		N/A	

NOTES:

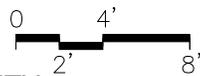
1. Finishes/Features: Refer to Chapter 9 for specification references.



Female Student Locker Room



Male Student Locker Room



CAPACITY: 5 students
 SIZE: 250 SF
 ANCILLARY SPACES: Student Locker Room
 M-PE-5

PROGRAM ACTIVITIES:

- Serves as separate shower and restroom areas for males and females in the physical education and athletic programs
- Community adults and children may also use this facility after hours

SPATIAL RELATIONSHIPS:

- Adjacent to student locker room
- Direct access to both gymnasium and outdoor area

ENVIRONMENTAL CONSIDERATIONS:

- Environmental sound control - wall minimum STC 48
ceiling minimum CAC 35, NRC 0.70
- Moisture- and stain-resistant finishes

NOTES:

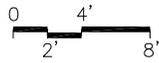
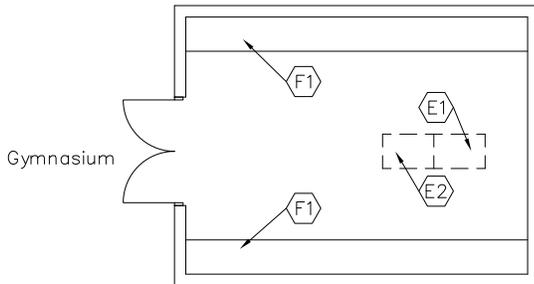
**STUDENT RESTROOM/SHOWER
M-PE-6**

<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
Flooring:			
Restroom: Ceramic mosaic, porcelain tile , sheet vinyl, or resinous flooring	093000 096500 096723	Fixed Items:	
Shower: Ceramic mosaic tile, porcelain tile, or resinous flooring		F1 Towel dispensers	102813
		F2 24" by 60" mirror	102813
		F3 Toilet tissue holders	102813
		F4 36" and 42" grab bars	102813
		F5 Soap dispensers	102813
		F6 Towel hooks	102813
		F7 Shower curtain and rod	102813
		F8 Toilet partitions	102813
		F9 ADA shower accessories	102813
		F10 16" x 24" mirrors with shelves	102813
		F11 Sanitary product dispenser ²	102813
		F12 Sanitary product receptacles ²	102813
		F13 Modesty shower partitions ²	102113
Base:			
Restroom: Resilient base, resinous flooring, or integral vinyl cove base	096500 096723 093000	Fire Suppression:	
Shower: Ceramic mosaic tile base, porcelain tile base, resinous flooring, or integral vinyl cove base		Fire suppression system	211000
		Plumbing:	
		Wall-mounted water closets	224000
		Wall-mounted lavatories or wash fountains	224000
		Wall-mounted urinals	224000
		ADA shower controls and head	224000
		Shower fixtures	224000
		Plumbing connections	24000/221116/221119
Ceiling:			
Restroom: Suspended, acoustical with high-impact, hold-down clips	095113	HVAC:	
Shower: Painted portland cement plaster or interior finish system	092400/099100 092513	Supply/return air system	Div. 23
		Exhaust air system	Div. 23
Walls:			
Epoxy-painted concrete masonry units or ceramic wall tile in showers and latex paint in restroom	042000/099100 093000 099100	Electrical:	
		Fluorescent lighting	265100
		Illumination level: See Table 8600-6	
		Single level switching	262726
		1 duplex receptacle	262726
		Emergency lighting	265100
		Means of egress lighting per code	265100
LOOSE FURNISHINGS:			
Wastebaskets		Communications:	
		Central sound system	275123
		Electronic Safety and Security:	
		Life safety devices per code	283111
		Miscellaneous:	
		N/A	

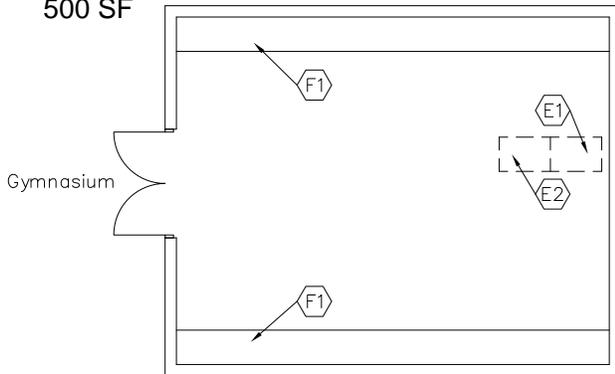
NOTES:

1. Finishes/Features: Refer to Chapter 9 for specification references.
2. Toilet accessories and shower partitions for female locker rooms.
3. Optional: electric hand dryers

300 SF



500 SF



PROGRAM ACTIVITIES:

- Storage for physical education equipment

SPATIAL RELATIONSHIPS:

- Adjacent to gymnasium
- Near P.E./athletic office

ENVIRONMENTAL CONSIDERATIONS:

N/A

CAPACITY: N/A
 SIZE: 300 - 500 SF
 ANCILLARY SPACES: Gymnasium
 M-PE-1

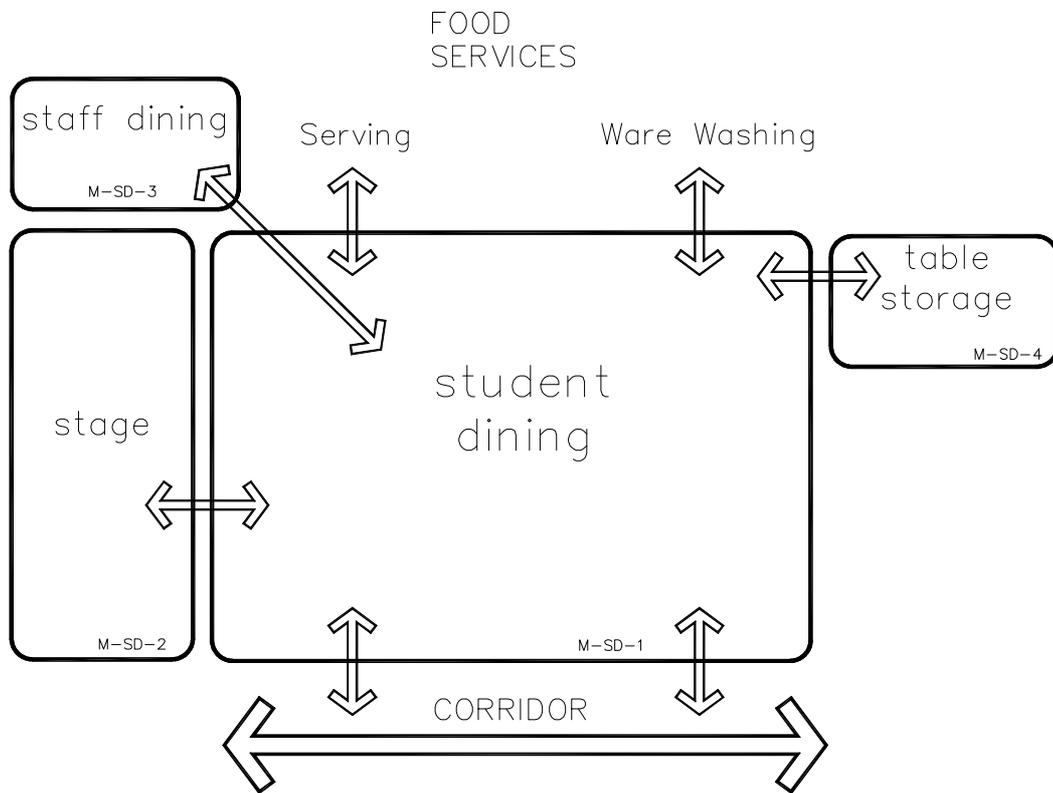
NOTES:

**PHYSICAL EDUCATION STORAGE
M-PE-7**

	Spec. Ref.#		Spec. Ref.#
<u>FINISHES¹:</u>		<u>FEATURES¹:</u>	
Flooring:		<u>Fixed Items²:</u>	
Sealed concrete	033000	F1 20' – 48' of open shelving, depths may vary (fixed or loose)	123550
Base:		<u>Fire Suppression:</u>	
No base		Fire suppression system	211000
Ceiling:		<u>Plumbing:</u>	
Exposed structure		N/A	
Option: Rated gypsum wallboard	092116	<u>HVAC:</u>	
Walls:		Exhaust air system	Div. 23
Unpainted concrete masonry units	042000	Supplemental heat as required	Div. 23
<u>LOOSE FURNISHINGS:</u>		<u>Electrical:</u>	
N/A		Single level switching	262726
<u>EQUIPMENT:</u>		Fluorescent lighting	265100
E1 Tumbling mats on carts		Illumination level: See Table 8600-6	
E2 Ball carts		1 duplex receptacle	262726
		<u>Communications:</u>	
		N/A	
		<u>Electronic Safety and Security:</u>	
		N/A	
		<u>Miscellaneous:</u>	
		N/A	

NOTES:

1. Finishes/Features: Refer to Chapter 9 for specification references.
2. Ranges shown indicate quantities for the largest and smallest possible room size.



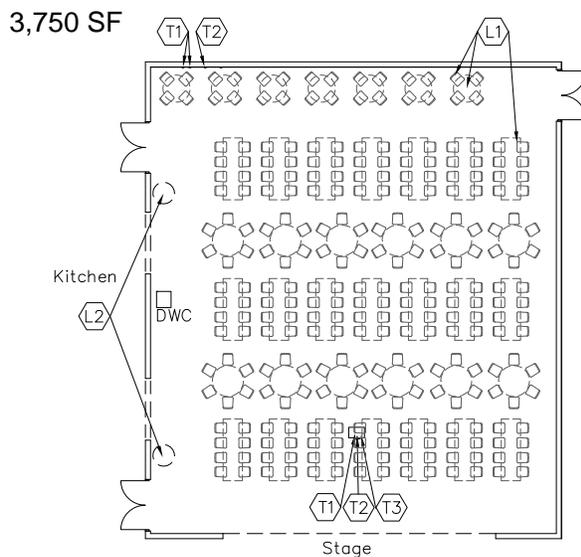
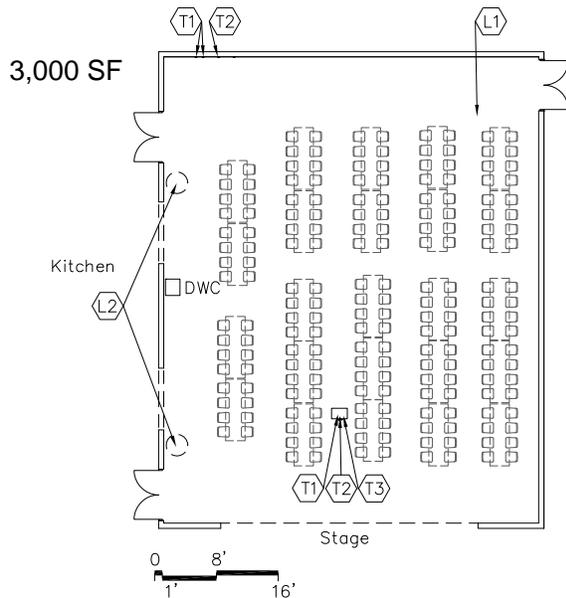
NOTES:

This is an example of how the student dining spaces in a middle school could be arranged. This is meant only to demonstrate the relationships between various spaces of this area.

Following are the Student Dining space plates:

- M-SD-1 Student Dining
- M-SD-2 Stage
- M-SD-3 Staff Dining
- M-SD-4 Table Storage
- M-SD-5 Family Restroom**

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CAPACITY: 1/3 of the student capacity
SIZE: Student capacity divided by 3, multiplied by 15 SF per student
 3,000 SF minimum
ANCILLARY SPACES: Stage, M-SD-2
 Kitchen, M-FS-1

PROGRAM ACTIVITIES:

- Space for student dining and assembly-type programs

SPATIAL RELATIONSHIPS:

- Adjacent to kitchen
- Near staff dining
- Adjacent to stage

ENVIRONMENTAL CONSIDERATIONS:

- Stain-resistant floor covering
- Environmental sound control wall minimum STC 60

MISCELLANEOUS:

- Based on 3 serving periods, the size of the dining area is computed by dividing the student capacity by 3, then multiplying by 15 SF per student. The minimum size of a dining space is 3,000 SF.
- Natural lighting

NOTES:

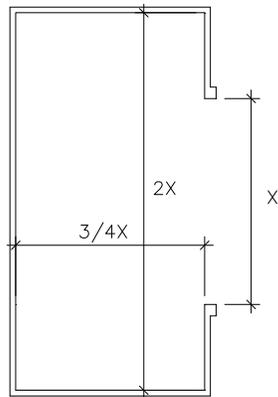
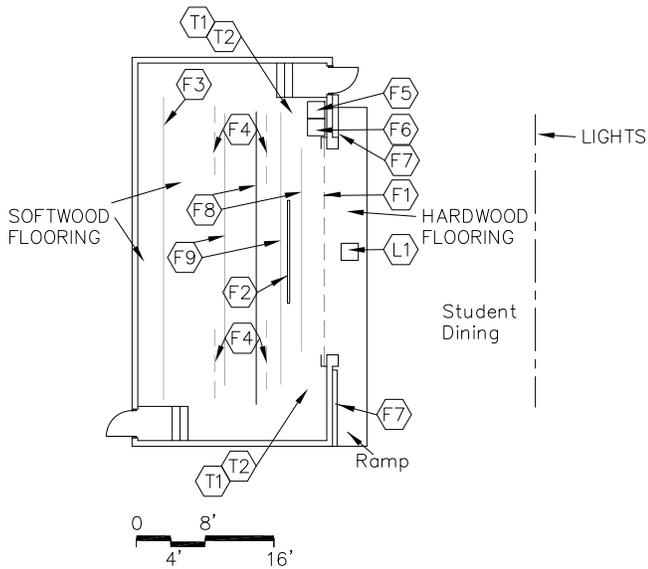
1. Loose furnishings shown represent one of many possible arrangements.

STUDENT DINING
M-SD-1

<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
Flooring:		<u>Fixed Items:</u>	
Linoleum, rubber, ET, sheet	096500	N/A	
vinyl, porcelain tile, terrazzo	096516		
tile, carpet tile, VCTT,	093000	<u>Fire Suppression:</u>	
polished concrete finishing, or	096813	Fire suppression system	211000
colored concrete finishing	033510		
	033519	<u>Plumbing:</u>	
Base:		Drinking water cooler	224000
Resilient base	096500	<u>HVAC:</u>	
Optional: porcelain tile base	093000	Supply/return air system	Div. 23
Ceiling:		Independent temp ctrl	230923
Suspended, acoustical	095113	<u>Electrical:</u>	
Walls:		Fluorescent lighting	265100
Painted concrete masonry units	042000/099100	illumination level: See Table 8600-6	
Acoustical wall treatment	098000	Multilevel switching	262726
and diffusers		8 duplex receptacles	262726
<u>LOOSE FURNISHINGS:</u>		Double duplex receptacle adjacent to	
L1 Tables and chairs or long tables with		each data and video port	262726
attached stools		Means of egress lighting per code	265100
L2 Large waste receptacles		Emergency lighting	265100
Folding or high density stack chairs		Telecommunications Grounding	270526/260526
for large assembly use		<u>Communications:</u>	
Carts for chairs		T1 2 projector video ports	271543
Recycling bins		T2 2 data ports	271513
Note: Cafeteria tables with attached stools shall		Clock	275313
be securely anchored to walls when not in use or		Student dining/cafeteria sound system ²	275122
be kept in secure storage area when not in use.		Central sound system	275123
		T3 Ultra-short throw interactive projector	274119
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
		<u>Miscellaneous:</u>	
		Windows with integral blinds or	081113
		windows with shading devices	/088000
		(optional)	

NOTES:

1. Finishes/Features: Refer to Chapter 9 for specification references.
2. Student dining sound system is to be used in conjunction with the stage.



Proportions are recommended – not mandatory.

ASPECT RATIO OF STAGE

CAPACITY: NA
 SIZE: x = proscenium opening
 see diagram for dimensions
 ANCILLARY SPACES: Student Dining
 M-SD-1

PROGRAM ACTIVITIES:

- Serves as the assembly type programs, performances, and presentations for students and adults

SPATIAL RELATIONSHIPS:

- Open to student dining area

ENVIRONMENTAL CONSIDERATIONS:

- Area should be raised slightly above student dining area floor
- Provide handicapped accessibility

NOTES:

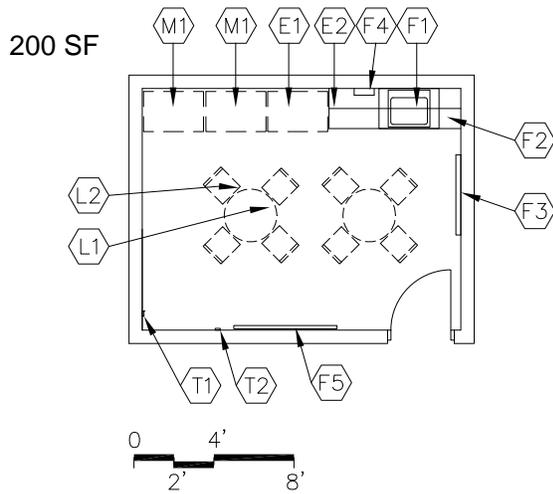
**STAGE
M-SD-2**

CHAPTER 5: MIDDLE SCHOOL

<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
<u>Flooring:</u>		<u>Fixed Items:</u>	
Wood flooring, dark finish	096400	F1 Front curtain, track, and valance or grand border	116143
Stairs: carpet, rubber, or wood		F2 Projection screen	116143
<u>Base:</u>		F3 Rear curtain	116143
Ventilated resilient base	096400	F4 Leg curtains, tracks, and/or pivots	116143
<u>Ceiling:</u>		F5 Sound control console receptacle	275122
Painted, exposed structure	099100	F6 Lighting control console receptacle	265100
<u>Walls:</u>		F7 Pipe handrail	055000
Painted concrete masonry units	042000/099100	F8 Light pipe	116143
		F9 Border curtains	116143
<u>LOOSE FURNISHINGS:</u>		<u>Fire Suppression:</u>	
L1 Podium		Fire suppression system	211000
		<u>Plumbing:</u>	
		N/A	
		<u>HVAC:</u>	
		Supply/return air system	Div. 23
		Temperature control with student dining space	230923
		<u>Electrical:</u>	
		Fluorescent lighting	265100
		Illumination level: See Table 8600-6	
		Single level switching	262726
		2 duplex receptacles	262726
		Double duplex receptacle adjacent to each data and video port	262726
		Emergency lighting	265100
		Telecommunications Grounding	270526/260526
		<u>Communications:</u>	
		T1 2 projector video ports (1 on each side of the proscenium opening)	271543/274119
		T2 2 data ports (1 on each side of the proscenium opening)	271513
		Student dining/cafeteria sound system ²	275122
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111

NOTES:

1. Finishes/Features: Refer to Chapter 9 for specification references.
2. Student dining sound system is to be used in conjunction with student dining area.
3. Provide a reflective strip on floor at edge of stage.



PROGRAM ACTIVITIES:

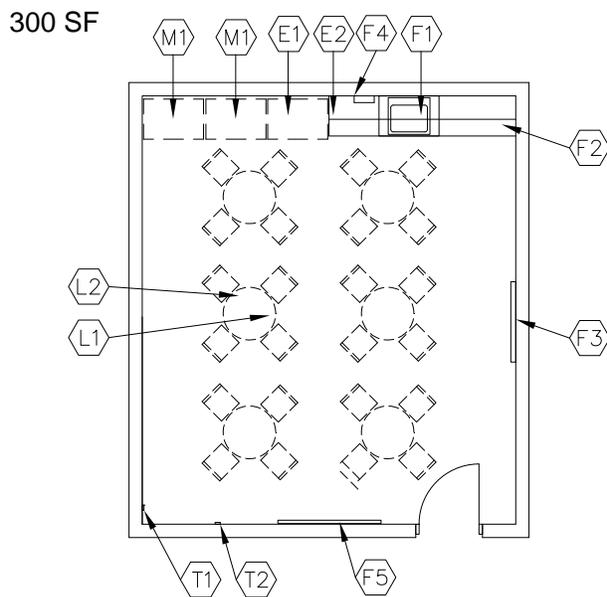
- Space for staff dining

SPATIAL RELATIONSHIPS:

- Near student dining
- Near food services

ENVIRONMENTAL CONSIDERATIONS:

- Environmental sound control -
walls **only** minimum STC **45**
ceiling minimum CAC 35, NRC 0.70



CAPACITY: 8 – 24 staff
 SIZE: 200 – **400 SF**
 ANCILLARY SPACES: Student Dining
 M-SD-1

NOTES:

1. Loose furnishings shown represent one of many possible arrangements.

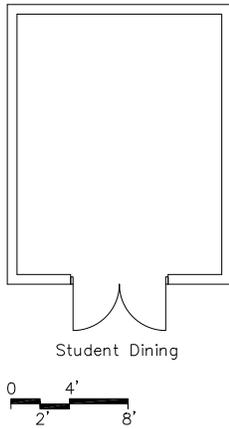
STAFF DINING
M-SD-3

<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
<u>Flooring:</u>			
Linoleum, ET, sheet vinyl,	096500	<u>Fixed Items:</u>	
rubber, porcelain tile,	096516	F1 3' sink base cabinet with	123550
carpet tile, VCTT,	093000	wall cabinet above	
terrazzo tile	096813	F2 About 8' of base and wall cabinets	123550
		F3 4' of tack board	101100
		F4 Towel dispenser	102813
		F5 4'-6' marker board (optional)	101100
<u>Base:</u>			
Resilient base	096500	<u>Fire Suppression:</u>	
Optional: porcelain tile	093000	Fire suppression system	211000
<u>Ceiling:</u>			
Suspended, acoustical	095113	<u>Plumbing:</u>	
		Sink	224000
		Plumbing connections	224000/221116/221119
<u>Walls:</u>			
Painted, concrete masonry units	042000/099100	<u>HVAC:</u>	
		Supply/return air system	Div. 23
		Independent temperature control	230923
<u>LOOSE FURNISHINGS:</u>			
L1 Tables		<u>Electrical:</u>	
L2 Chairs		Single level switching	262726
Waste receptacle		Fluorescent lighting	265100
		Illumination level: See Table 8600-6	
		4 duplex receptacles	262726
		Double duplex receptacle adjacent to each video port	262726
		Receptacles for vending machines, refrigerator, and microwave	262726
<u>EQUIPMENT:</u>			
E1 Refrigerator (could be fixed equipment)		<u>Communications:</u>	
E2 Microwave		T1 1 projector video port	271543
Waste receptacle		T2 1 voice port and phone	271513/273113
		Clock	275313
		Central sound system	275123
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
		<u>Miscellaneous:</u>	
		The following items are to be funded by the school district:	
		M1 Vending machines	

NOTES:

1. Finishes/Features: Refer to Chapter 9 for specification references.

250 SF



PROGRAM ACTIVITIES:

- Storage for tables and chairs

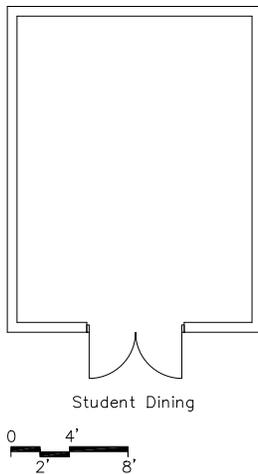
SPATIAL RELATIONSHIPS:

- Adjacent to student dining
- Near food services

ENVIRONMENTAL CONSIDERATIONS:

N/A

400 SF



CAPACITY: N/A
 SIZE: 250 - **400** SF
 ANCILLARY SPACES: Student Dining
 M-SD-1

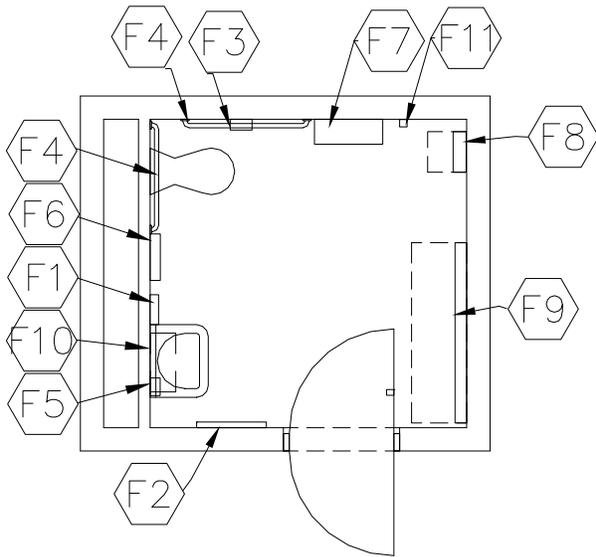
NOTES:

**TABLE STORAGE
M-SD-4**

<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
Flooring:		<u>Fixed Items:</u>	
Sealed concrete	033000	N/A	
Base:		<u>Fire Suppression:</u>	
No base		Fire suppression system	211000
Ceiling:		<u>Plumbing:</u>	
Exposed structure		N/A	
Option: Rated gypsum wallboard	092116	<u>HVAC:</u>	
Walls:		Exhaust air system	Div. 23
Unpainted concrete masonry units	042000	Supplemental heat as required	Div. 23
<u>LOOSE FURNISHINGS:</u>		<u>Electrical:</u>	
N/A		Single level switching	262726
		Fluorescent lighting	265100
		Illumination level: See Table 8600-6	
		1 duplex receptacle	262726
		<u>Communications::</u>	
		N/A	
		<u>Electronic Safety and Security:</u>	
		N/A	
		<u>Miscellaneous:</u>	
		N/A	

NOTES:

1. Finishes/Features: Refer to Chapter 9 for specification references.



PROGRAM ACTIVITIES:

- Personal, health, and handicap needs for all building occupants

SPATIAL RELATIONSHIPS:

- Located where best accessible to all building occupants and the public

ENVIRONMENTAL CONSIDERATIONS:

- Environmental sound control -
wall minimum STC 48
ceiling minimum CAC 35, NRC 0.70
- Moisture- and stain-resistant finishes

CAPACITY: 2 people
SIZE: 80 SF

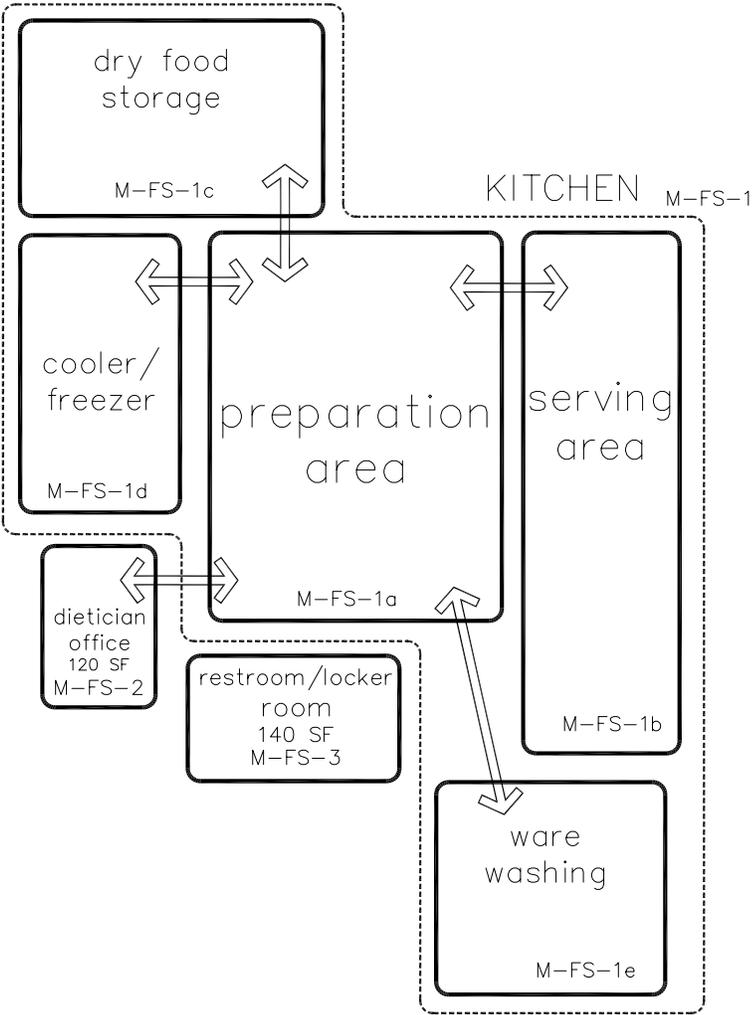
NOTES:

**FAMILY RESTROOM
M-SD-5**

<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
<u>Flooring:</u>		<u>Fixed Items:</u>	
ET, porcelain tile ,		F1 Towel dispenser	102813
sheet vinyl, ceramic mosaic tile	096500	F2 24" x 60" mirror	102813
Optional: Ceramic mosaic tile,	093000	F3 Toilet tissue holder	102813
porcelain tile, or	096723	F4 36" and 42" grab bar	102813
resinous flooring		F5 Soap dispenser	102813
		F6 Sanitary napkin dispenser/disposal	102813
<u>Base:</u>		F7 Folding utility shelf	102813
Resilient base	096500	F8 Mounted child seat	102813
Optional: Ceramic mosaic tile,	093000	F9 Adult/child changing station	102813
porcelain tile, resinous flooring	096723	F10 16" x 24" mirror with shelf	102813
flooring, or integral vinyl cove base		F11 Coat hooks	102813
		<u>Fire Suppression:</u>	
<u>Ceiling:</u>		Fire suppression system	211000
Suspended, acoustical	095113		
		<u>Plumbing:</u>	
<u>Walls:</u>		Wall-mounted water closet	224000
Painted concrete masonry units	042000/099100	Wall-mounted lavatory	224000
		Plumbing connections	224000/221116/221119
<u>LOOSE FURNISHINGS:</u>		<u>HVAC:</u>	
Wastebasket		Exhaust air system	Div. 23
		Supplemental heat as required	Div. 23
		<u>Electrical:</u>	
		Single level switching	262726
		Fluorescent lighting	265100
		Illumination level: See Table 8600-5	
		1 duplex receptacle	262726
		<u>Communications:</u>	
		Central sound system	275123
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
		<u>Miscellaneous:</u>	
		N/A	

NOTES:

1. Finishes/Features: Refer to Chapter 9 for specification references.



NOTES:

This is an example of how the food service spaces in a middle school could be arranged. This is meant only to demonstrate the relationships between various spaces of this area.

Following are the Food Service space plates:

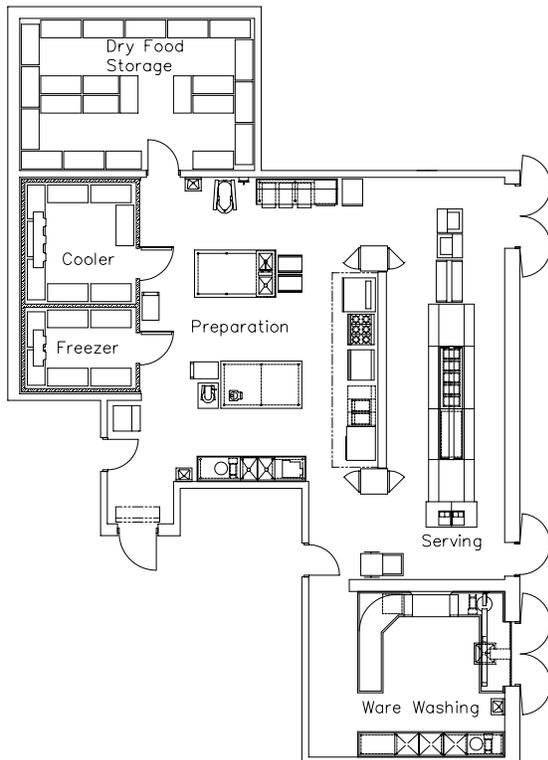
- M-FS-0 Warming Kitchen
- M-FS-1 Kitchen
- M-FS-1a Preparation Area
- M-FS-1b Serving Area
- M-FS-1c Dry Food Storage
- M-FS-1d Cooler/Freezer
- M-FS-1e Ware Washing
- M-FS-2 Dietician Office
- M-FS-3 **Restroom/Locker Room**

**KITCHEN
M-FS-1**

This space consists of various areas:

- Preparation Area
- Serving Area
- Dry Food Storage
- Cooler/Freezer
- Ware Washing

A space plate follows for each of these areas.



- CAPACITY:** 3 – 10 persons
SIZE: Student capacity multiplied by 3.5 SF per student
ANCILLARY SPACES: Student Dining M-SD-1
Loading/Receiving Area M-BS-9

PROGRAM ACTIVITIES:

- Space for the planning, ordering, preparation, and serving of the meals, and for providing meals for the students and staff

SPATIAL RELATIONSHIPS:

- Adjacent to student dining
- Near staff dining
- Near table storage
- Adjacent to loading/receiving area

ENVIRONMENTAL CONSIDERATIONS:

- Compliance with State Board of Health requirements

MISCELLANEOUS:

- The sizing of the kitchen area assumes:
Type "A" meal service only at 80% of the student capacity and 3, 30-minute serving periods.

NOTES:

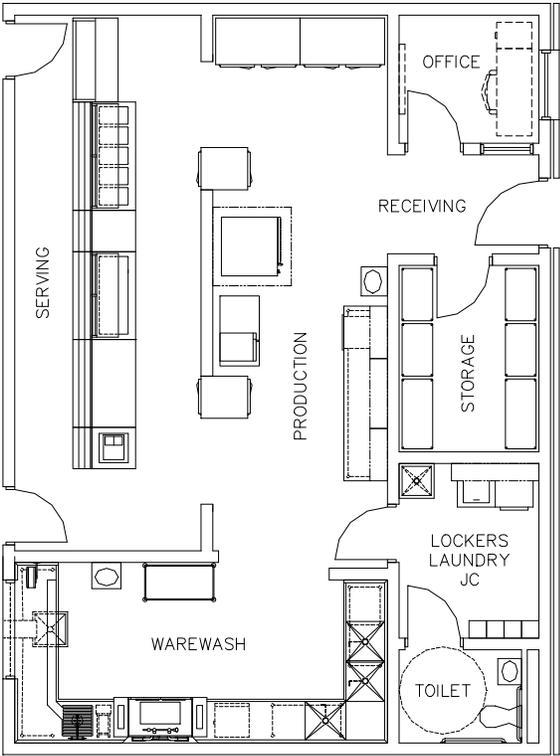
This kitchen layout is to be used only for a central kitchen operation.

This space consists of various areas:

Production Area	25%
Serving Area	35%
Warewash	25%
Storage	10%
Receiving	5%

Additional areas to be added:

Office	75 SF
Toilet	50 SF
Lockers/Laundry/Janitorial Closet	125 SF



PROGRAM ACTIVITIES:

- Space for receiving, organizing, and serving of the meals prepared in the central kitchen.

SPATIAL RELATIONSHIPS:

- Adjacent to student dining
- Near staff dining
- Near table storage
- Adjacent to loading/receiving area

ENVIRONMENTAL CONSIDERATIONS:

- Compliance with State Board of Health requirements

MISCELLANEOUS:

- Kitchen area must be located adjacent to exterior loading dock area to receive transported food from central kitchen.

CAPACITY: 3 - 7 persons
SIZE: Student capacity multiplied by 2.0 SF per student
ANCILLARY SPACES: Student Dining M-SD-1
 Loading/Receiving Area M-BS-1

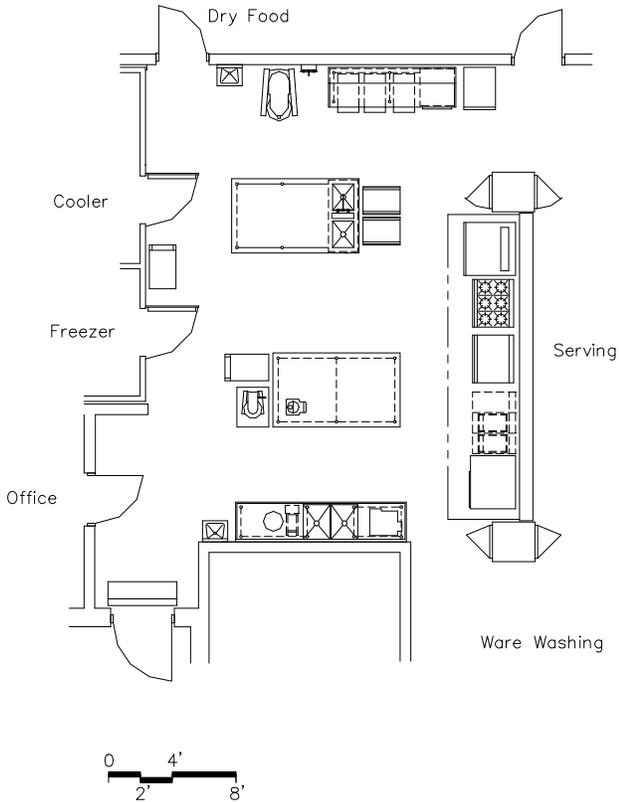
NOTES:

**WARMING KITCHEN
M-FS-0**

<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
<u>Flooring:</u>		<u>Fixed Items:</u>	
Quarry tile or resinous flooring	093000 096723	Food service equipment	114000
<u>Base:</u>		<u>Fire Suppression:</u>	
Quarry tile base or resinous integral base	093000 096723	Fire suppression system	211000
<u>Ceiling:</u>		<u>Plumbing:</u>	
Cleanable, suspended, acoustical	095113	Connections to food service eqpt.	224000
		Plumbing connections	224000/221116/221119
<u>Walls:</u>		Hand washing lavatory	224000
Epoxy-painted concrete masonry units	042000/0991000	Gas connection	226313
Option: Ceramic wall tile	093000	<u>HVAC:</u>	
or latex paint	099100	Supply/return air system	Div. 23
		Independent temp control	230923
		Kitchen canopy exhaust system	233800
<u>LOOSE FURNISHINGS:</u>		<u>Electrical:</u>	
N/A		Dual level switching	262726
		Fluorescent lighting	265100
		Illumination level: See Table 8600-6	
		10 duplex receptacles	262726
		Duplex receptacle at	262726
		each cash register	
		Emergency lighting	265100
		Connections to food service eqpt.	262726
		Means of egress lighting per code	265100
		<u>Communications:</u>	
		1 voice port and phone	271513/ 273123
		1 data port at cash register(s)	271513
		Clock	275313
		Central sound system	275123
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
		<u>Miscellaneous:</u>	
		N/A	

NOTES:

1. Finishes/Features: Refer to Chapter 9 for specification references and refer to Chapter 10 for a list of possible food service equipment.



PROGRAM ACTIVITIES:

- Space and equipment for the preparation of food for students and staff

SPATIAL RELATIONSHIPS:

- Adjacent to the serving area
- Near the cooler/freezer
- Near the dry food storage

ENVIRONMENTAL CONSIDERATIONS:

- Proper ventilation of space to remove cooking odors
- Cleanable building surfaces

CAPACITY: 3 – 10 persons
SIZE: Based on 36% of the kitchen area
ANCILLARY SPACES: Part of the kitchen

NOTES:

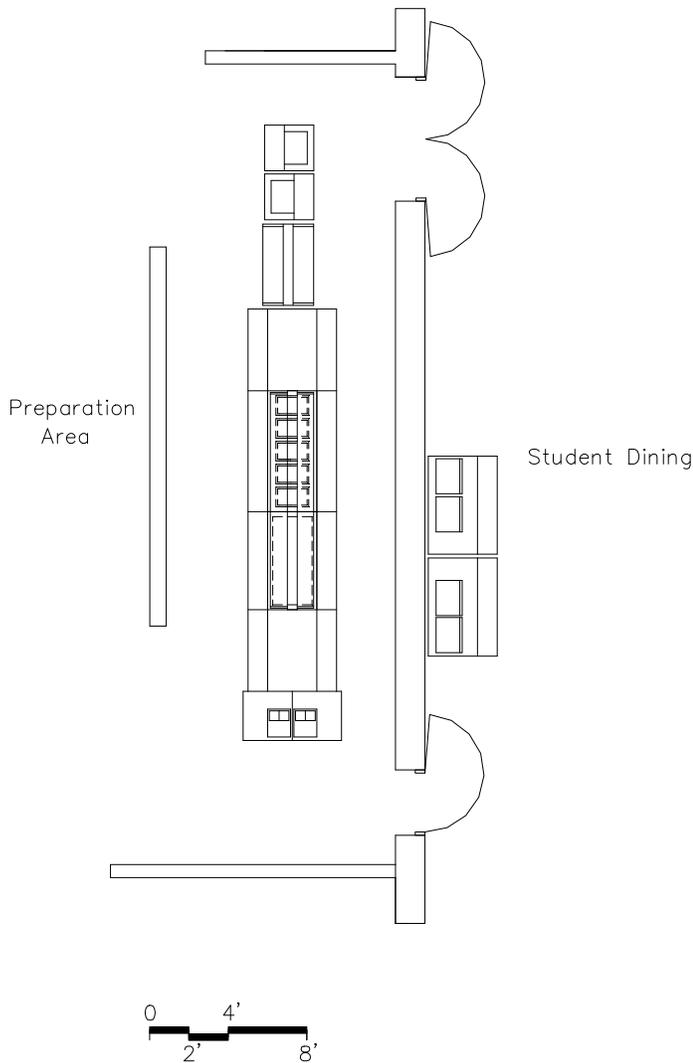
1. This is an example of a preparation area. Food service equipment will vary from school district to school district.

KITCHEN - Preparation Area
M-FS-1a

<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
<u>Flooring:</u>		<u>Fixed Items:</u>	
Quarry tile or resinous flooring	093000 096723	Food service equipment	114000
<u>Base:</u>		<u>Fire Suppression:</u>	
Quarry tile base or resinous integral base	093000 096723	Fire suppression system	211000
<u>Ceiling:</u>		<u>Plumbing:</u>	
Cleanable, suspended, acoustical	095113	Connections to food service equipment	224000
<u>Walls:</u>		Plumbing connections	224000/221116/221119
Epoxy-painted concrete masonry units	042000/099100	Hand washing lavatory	224000
Option: Ceramic wall tile or latex paint	093000 099100	Gas connections	226313
<u>LOOSE FURNISHINGS:</u>		<u>HVAC:</u>	
N/A		Supply/return air system	Div. 23
		Independent temperature control	230923
		Kitchen canopy exhaust system	233800
		<u>Electrical:</u>	
		Dual level switching	262726
		Fluorescent lighting	265100
		Illumination level: See Table 8600-6	
		4 duplex receptacles	262726
		Emergency lighting	265100
		Connections to food service equipment	262726
		Means of egress lighting per code	265100
		<u>Communications:</u>	
		1 voice port and phone	271513/ 273123
		Clock	275313
		Central sound system	275123
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	238111
		<u>Miscellaneous:</u>	
		N/A	

NOTES:

1. Finishes/Features: Refer to Chapter 9 for specification references and refer to Chapter 10 for a list of possible food service equipment.



PROGRAM ACTIVITIES:

- Space for serving of food

SPATIAL RELATIONSHIPS:

- Adjacent to student dining
- Adjacent to preparation area

ENVIRONMENTAL CONSIDERATIONS:

- Cleanable building services

CAPACITY: N/A
SIZE: Based on 34% of the kitchen area
ANCILLARY SPACES: Part of the kitchen

NOTES:

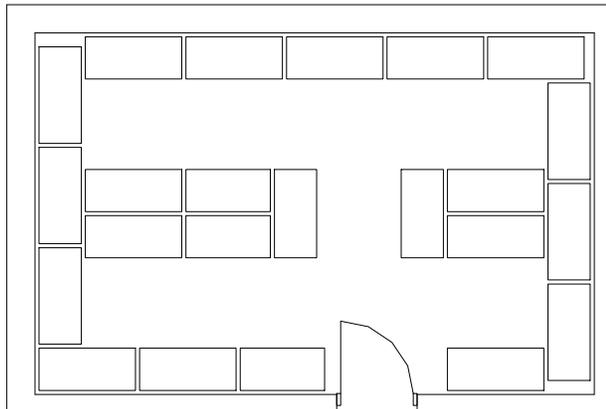
1. This is an example of a serving area. Food service equipment will vary from school district to school district.

**KITCHEN - Serving Area
M-FS-1b**

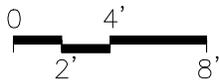
<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
<u>Flooring:</u>		<u>Fixed Items:</u>	
Quarry tile or resinous flooring	093000	Food service equipment	114000
Optional: porcelain tile	096723		
<u>Base:</u>		<u>Fire Suppression:</u>	
Quarry tile base, resinous integral base	093000	Fire suppression system	211000
Optional: porcelain tile base	096723		
<u>Ceiling:</u>		<u>Plumbing:</u>	
Cleanable, suspended, acoustical	095113	Connections to food service equipment	224000
<u>Walls:</u>		<u>HVAC:</u>	
Epoxy-painted concrete masonry units	042000/099100	Supply/return air system	Div. 23
Option: Ceramic wall tile or latex paint	093000 099100	<u>Electrical:</u>	
<u>LOOSE FURNISHINGS:</u>		Dual level switching	262726
N/A		Fluorescent lighting	265100
		Illumination level: See Table 8600-6	
		4 duplex receptacles	262726
		Connections to food service equipment	262726
		Emergency lighting	265100
		Means of egress lighting per code	265100
		Duplex receptacle at each cash register	262726
		<u>Communications:</u>	
		Data port(s) at cash register(s)	271513
		Clock	275313
		Central sound system	275123
		1 Voice port and phone	271513/273123
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
		<u>Miscellaneous:</u>	
		N/A	

NOTES:

1. Finishes/Features: Refer to Chapter 9 for specification references and refer to Chapter 10 for a list of possible food service equipment.



Preparation Area



PROGRAM ACTIVITIES:

- Lockable space to store dry food products and government commodities for 15 to 30 days

SPATIAL RELATIONSHIPS:

- Near the food preparation area
- Access to the loading/receiving area

ENVIRONMENTAL CONSIDERATIONS:

- Continuous conditioning of air
- Cleanable building surfaces

CAPACITY: N/A
SIZE: Based on 11% of the kitchen area
ANCILLARY SPACES: Part of the kitchen

NOTES:

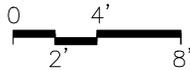
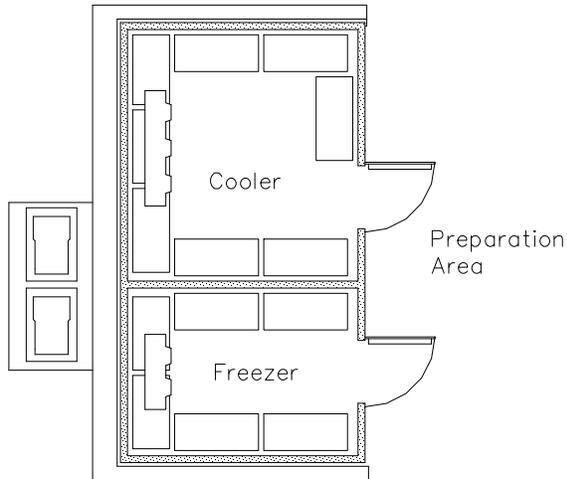
1. This is an example of a dry food storage area. Food service equipment will vary from school district to school district.

KITCHEN - Dry Food Storage
M-FS-1c

<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
<u>Flooring:</u>		<u>Fixed Items:</u>	
Linoleum, ET, or sheet vinyl	096500	Food service equipment	114000
Option: Quarry tile or resinous flooring	093000 096723		
	096516	<u>Fire Suppression:</u>	
		Fire suppression system	211000
<u>Base:</u>		<u>Plumbing:</u>	
Resilient base	096500	N/A	
Option: Quarry tile or resinous integral base	096723 093000		
<u>Ceiling:</u>		<u>HVAC:</u>	
Cleanable, suspended, acoustical	095113	Exhaust air system	Div. 23
		Supply/return air system	Div. 23
<u>Walls:</u>		<u>Electrical:</u>	
Epoxy-painted concrete masonry units	042000/099100	Single level switching	262726
Option: Ceramic wall tile or latex paint	093000 099100	Fluorescent lighting	265100
		Illumination level: See Table 8600-6	
		1 duplex receptacle	262726
<u>LOOSE FURNISHINGS:</u>		<u>Communications:</u>	
N/A		N/A	
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
		<u>Miscellaneous:</u>	
		N/A	

NOTES:

1. Finishes/Features: Refer to Chapter 9 for specification references and refer to Chapter 10 for a list of possible food service equipment.



PROGRAM ACTIVITIES:

- Space for refrigerated storage of perishable products

SPATIAL RELATIONSHIPS:

- Adjacent to food preparation area
- Access to the loading/receiving area

ENVIRONMENTAL CONSIDERATIONS:

- Ventilation for refrigeration machinery
- Cleanable building surfaces
- Floor to be flush with adjacent kitchen floor

CAPACITY: N/A
 SIZE: Based on 10% of the kitchen area
 ANCILLARY SPACES: Part of the Kitchen

NOTES:

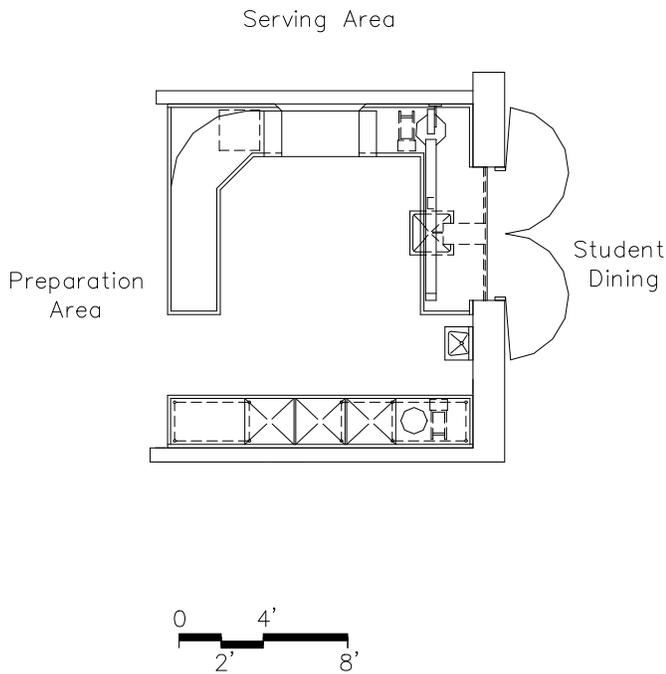
1. This is an example of a cooler/freezer. Food service equipment will vary from school district to school district.

**KITCHEN - Cooler/Freezer
M-FS-1d**

	Spec. Ref.#		Spec. Ref.#
<u>FINISHES¹:</u>		<u>FEATURES¹:</u>	
Flooring:		<u>Fixed Items:</u>	
Quarry tile or resinous flooring	093000 096723	Food service equipment	114000
Base:		<u>Fire Suppression:</u>	
Quarry tile base or resinous integral base	093000 096723	Fire suppression system	211000
Ceiling:		<u>Plumbing:</u>	
Manufactured insulated panel	114000	N/A	
Walls:		<u>HVAC:</u>	
Manufactured insulated panel	114000	Exhaust air system for compressors Div. 23	
<u>LOOSE FURNISHINGS:</u>		<u>Electrical:</u>	
N/A		Single level switching	262726
		Fluorescent or LED lighting	265100
		Illumination level: See Table 8600-6	
		Electrical connections to freezer/cooler refrigeration equipment	262726
		<u>Communications:</u>	
		N/A	
		<u>Electronic Safety and Security:</u>	
		N/A	
		<u>Miscellaneous:</u>	
		N/A	

NOTES:

1. Finishes/Features: Refer to Chapter 9 for specification references and refer to Chapter 10 for a list of possible food service equipment.



PROGRAM ACTIVITIES:

- Space and equipment to scrape, wash, air dry, and store serving trays and utensils

SPATIAL RELATIONSHIPS:

- Adjacent to student dining

ENVIRONMENTAL CONSIDERATIONS:

- Proper ventilation of space to remove steam and condensation
- Cleanable building surfaces

CAPACITY: N/A
 SIZE: Based on 9% of the kitchen area
 ANCILLARY SPACES: Part of the kitchen

NOTES:

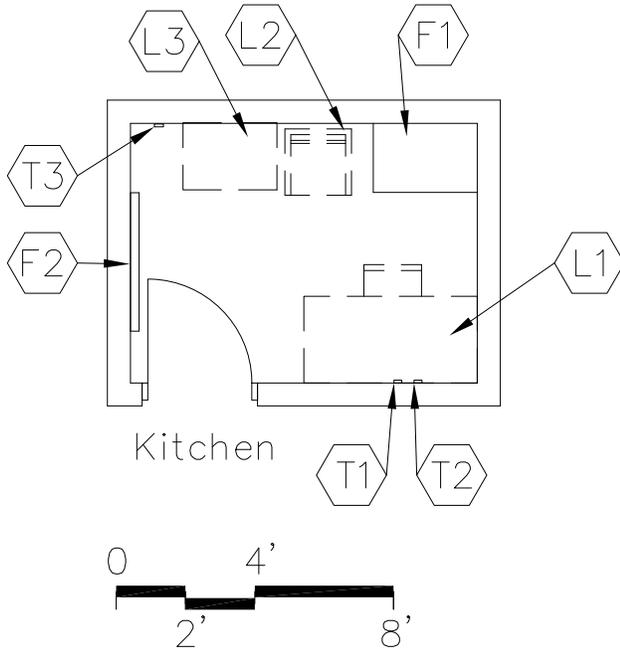
1. This is an example of a ware washing area. Food service equipment will vary from school district to school district.

KITCHEN - Ware Washing
M-FS-1e

<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
Flooring:		<u>Fixed Items:</u>	
Quarry tile or resinous flooring	093000	Food service equipment	114000
Base:		<u>Fire Suppression:</u>	
Quarry tile base or resinous	093000	Fire suppression system	211000
integral base	096723	<u>Plumbing:</u>	
Ceiling:		Lavatory	224000
Cleanable, suspended, acoustical	095113	Connections to food service equipment	224000
Walls:		<u>HVAC:</u>	
Epoxy-painted concrete masonry units	042000/099100	Supply/return air system	Div. 23
Option: Ceramic wall tile	093000	Independent temperature control	230923
or latex paint	099100	Exhaust hood system	Div. 23
<u>LOOSE FURNISHINGS:</u>		<u>Electrical:</u>	
N/A		Dual level switching	262726
		Fluorescent lighting	265100
		Illumination level: See Table 8600-6	
		1 duplex receptacle	262726
		Connections to food service equipment	262726
		<u>Communications:</u>	
		Central sound system	275123
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
		<u>Miscellaneous:</u>	
		N/A	

NOTES:

1. Finishes/Features: Refer to Chapter 9 for specification references and refer to Chapter 10 for a list of possible food service equipment.



PROGRAM ACTIVITIES:

- Space for the dietician to plan menus and meet with various vendors

SPATIAL RELATIONSHIPS:

- Adjacent to kitchen

ENVIRONMENTAL CONSIDERATIONS:

- Environmental sound control -
wall minimum STC 45
ceiling minimum CAC 35, NRC 0.70
- Optional – window with integral blind

CAPACITY: 1 - 2 persons
 SIZE: 75 SF
 ANCILLARY SPACES: Kitchen
 M-FS-1

NOTES:

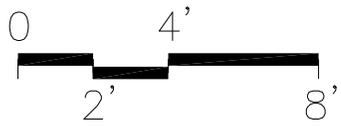
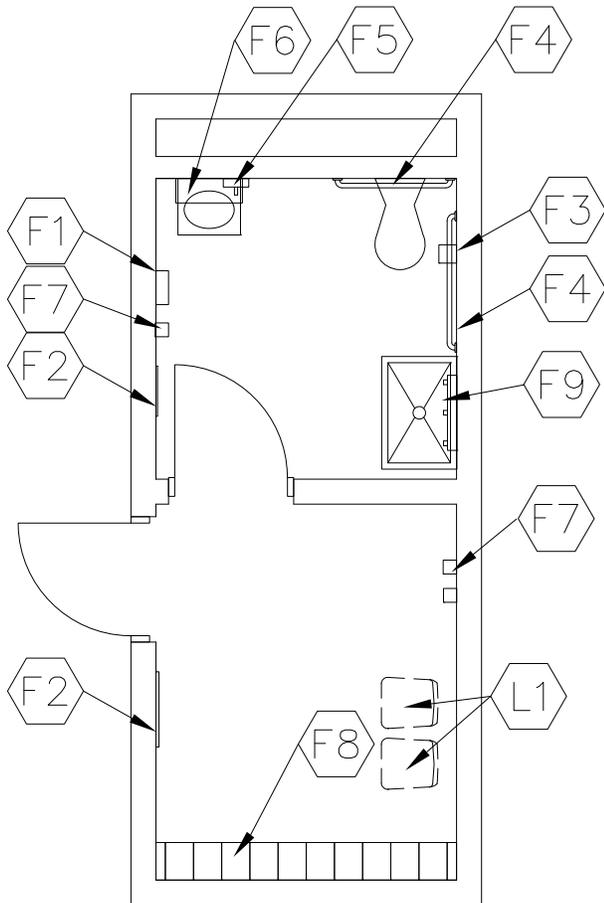
1. Loose furnishings shown represent one of many possible arrangements.

**DIETICIAN'S OFFICE
M-FS-2**

<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
<u>Flooring:</u>			
Linoleum, ET, or sheet vinyl	096500	<u>Fixed Items:</u>	
	096516	F1 Tall wardrobe (optional)	123550
Option: Quarry tile or resinous flooring	093000	F2 4' of tack board or marker board	101100
	096723	<u>Fire Suppression:</u>	
<u>Base:</u>		Fire suppression system	211000
Resilient base	096500	<u>Plumbing:</u>	
Option: Quarry tile, resinous integral base	093000	N/A	
	096723	<u>HVAC:</u>	
<u>Ceiling:</u>		Supply/return air system	Div. 23
Suspended, acoustical	095113	Independent temp control (coupled with similarly loaded adjacent spaces)	230923
<u>Walls:</u>		<u>Electrical:</u>	
Painted concrete masonry units	042000/199100	Single level switching	262726
<u>LOOSE FURNISHINGS:</u>		Fluorescent lighting	265100
L1 Desk and chair		Illumination level: See Table 8600-6	
L2 Visitor chair		4 duplex receptacles	262726
L3 File cabinet		Double duplex receptacle adjacent to data and video port	262726
Wastebasket		<u>Communications:</u>	
		T1 1 voice port and phone	271513/273123
		T2 1 data port near workstation	271513
		T3 1 projector video port	271543
		Central sound system	275123
		Clock	275313
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
		<u>Miscellaneous:</u>	
		Interior window (optional)	081113/088000

NOTES:

1. Finishes/Features: Refer to Chapter 9 for specification references.
2. Fixed equipment or loose furnishings can also be all fixed or all loose.



CAPACITY: 2 persons
 SIZE: 140 SF
 ANCILLARY SPACES:

PROGRAM ACTIVITIES:

- Personal and health needs for food service staff

SPATIAL RELATIONSHIPS:

- Adjacent to kitchen

ENVIRONMENTAL CONSIDERATIONS:

- Environmental sound control -
 wall minimum STC 48
 ceiling minimum CAC 35, NRC 0.70
- Moisture- and stain-resistant finishes

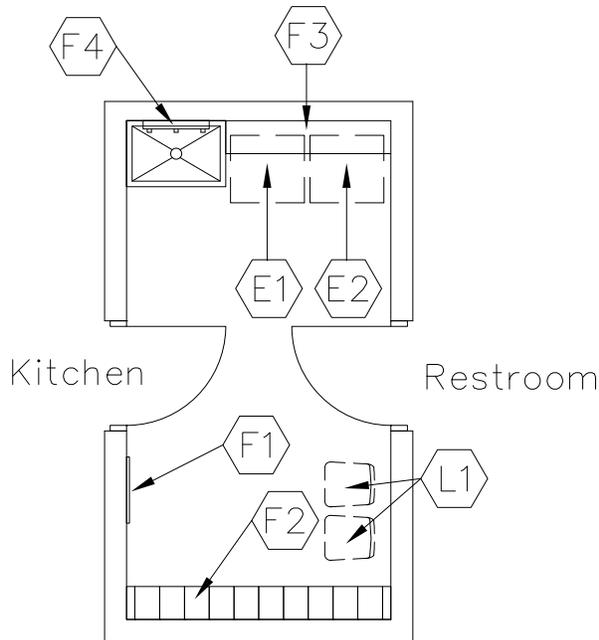
NOTES:

**RESTROOM / LOCKER ROOM
M-FS-3**

<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
<u>Flooring:</u>		<u>Fixed Items:</u>	
ET, sheet vinyl, rubber, rubber tile, or	096500	F1 Towel dispenser	102813
Optional: quarry tile or resinous flooring	093000 096723	F2 2 , 24" x 60" mirrors	102813
		F3 Toilet tissue holder	102813
		F4 36" and 42" grab bar	102813
		F5 Soap dispenser	102813
<u>Base:</u>		F6 Mirror with shelf above sink(optional)	102813
Resilient base	096500	F7 Coat hooks	102813
Optional: quarry tile, integral vinyl cove base, or integral resinous base	093000 096723	F8 Lockers 12" x 12" x 60"	105113
		F9 Mop holder	102813
<u>Ceiling:</u>		<u>Fire Suppression:</u>	
Suspended, acoustical	095113	Fire suppression system	211000
<u>Walls:</u>		<u>Plumbing:</u>	
Painted concrete masonry units	042000/099100	Wall-mounted water closet	224000
		Wall-mounted lavatory	224000
		Floor service sink	224000
		Plumbing connections	224000/221116/221119
<u>LOOSE FURNISHINGS:</u>		<u>HVAC:</u>	
L1 Chairs		Exhaust air system	Div. 23
Wastebasket		Supplemental heat as required	Div. 23
		<u>Electrical:</u>	
		Single level switching	262726
		Fluorescent lighting	265100
		Illumination level: See Table 8600-5	
		2 duplex receptacles	262726
		<u>Communications:</u>	
		Central sound system	275123
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
		<u>Miscellaneous:</u>	
		N/A	

NOTES:

1. Finishes/Features: Refer to Chapter 9 for specification references.



PROGRAM ACTIVITIES:

- Space for the food service staff to store their personal belongings and to change their clothing
- Space for the washing, drying, and storage of towels, aprons, etc.
- ***This space could replace M-FS-3***

SPATIAL RELATIONSHIPS:

- Adjacent to kitchen
- Adjacent to restroom

ENVIRONMENTAL CONSIDERATIONS:

- Environmental sound control -
wall minimum STC 48
ceiling minimum CAC 35, NRC 0.70

CAPACITY: 2 persons
 SIZE: 125 SF
 ANCILLARY SPACES: Kitchen, M-FS-1
 Dietician Office, M-FS-2

NOTES:

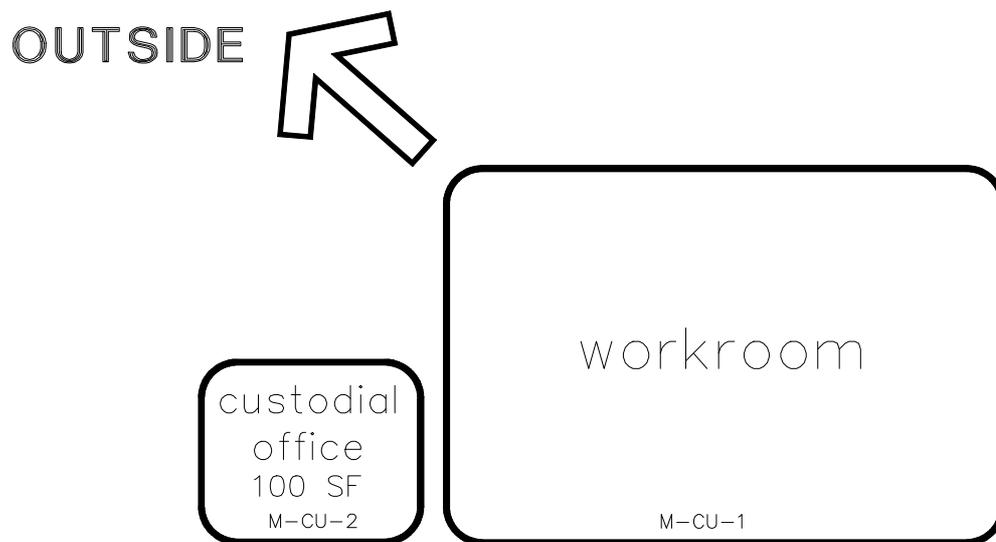
1. Loose furnishings shown represent one of many possible arrangements.

**LOCKER ROOM
M-FS-4**

<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
Flooring:			
Sheet vinyl, resinous flooring, ET	096500	Fixed Items:	
Option: Quarry tile or resinous flooring	096723 093000	F1 24" x 60" mirror (optional)	102813
		F2 Lockers 12" x 12" x 60"	105113
		F3 6' of wall cabinets or shelf (optional)	123550
		F4 Mop holder	102813
Base:			
Resilient base, resinous flooring, or integral vinyl cove base	096500 096723	Fire Suppression:	
Option: Quarry tile or resinous integral base		Fire suppression system	211000
Ceiling:			
Suspended, acoustical with high-impact, hold-down clips	095113	Plumbing:	
Option: exposed, painted pre-cast units	099100	Plumbing connections	224000/221116/221119
		Floor service sink	224000
		Washer connection	224000
Walls:			
Painted concrete masonry units	042000/099100	HVAC:	
		Exhaust air system	Div. 23
		Supplemental heat as required	Div. 23
		Dryer vent system	Div. 23
LOOSE FURNISHINGS:			
L1 Chairs		Electrical:	
Wastebasket		Single level switching	262726
		Fluorescent lighting	265100
		Illumination level: See Table 8600-6	
		1 duplex receptacle	262726
		Connections for washer and dryer	262726
EQUIPMENT:			
E1 Washer		Communications:	
E2 Dryer		Central sound system	275123
		Clock	275313
		Electronic Safety and Security:	
		Life safety devices per code	283111
		Miscellaneous:	
		Provide storage cabinet for supplies if required by governing agency.	

NOTES:

1. Finishes/Features: Refer to Chapter 9 for specification references.



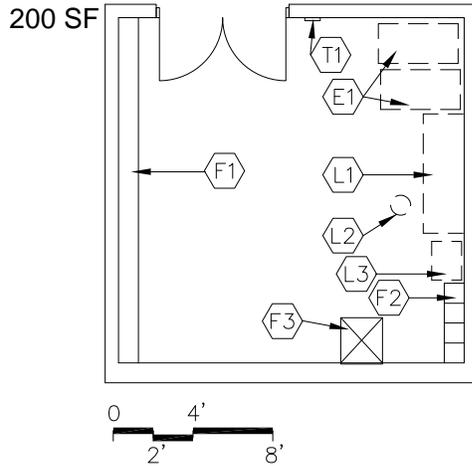
NOTES:

This is an example of how the custodial spaces in a middle school could be arranged. This is meant only to demonstrate the relationships between various spaces of this area.

Following are the Custodial space plates:

M-CU-1	Workroom
M-CU-2	Custodial Office

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PROGRAM ACTIVITIES:

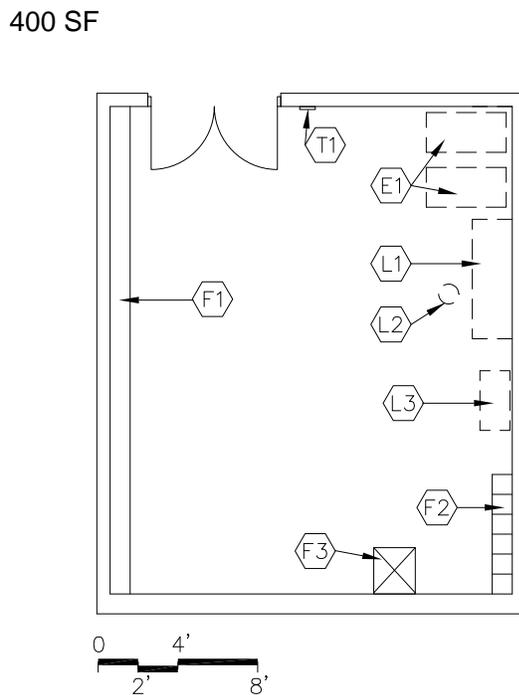
- Space for storage of custodial equipment needed to maintain the building
- Space for equipment repair

SPATIAL RELATIONSHIPS:

- Near central storage area
- Near custodial office

ENVIRONMENTAL CONSIDERATIONS:

N/A



CAPACITY: N/A
SIZE: 200 - **600** SF

NOTES:

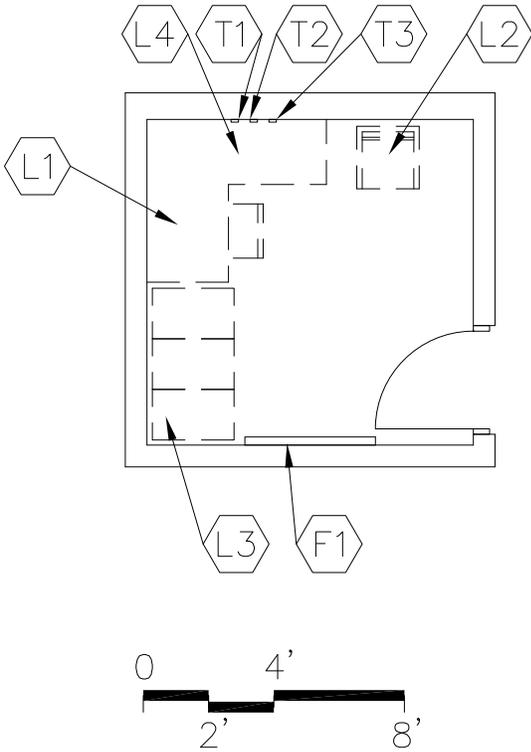
1. Loose furnishings shown represent one of many possible arrangements.

**WORKROOM
M-CU-1**

<u>FINISHES¹:</u>	Spec. <u>Ref.#</u>	<u>FEATURES¹:</u>	Spec. <u>Ref.#</u>
<u>Flooring:</u>		<u>Fixed Items²:</u>	
Sealed concrete,	033000	F1 10' - 24' of open shelving,	
polished concrete finishing, or	033510	depths may vary (fixed or loose)	123550
colored concrete finishing	033519	F2 4 - 6 lockers	105113
		F3 Mop holder	102813
<u>Base:</u>		<u>Fire Suppression:</u>	
Resilient base	096500	Fire suppression system	211000
<u>Ceiling:</u>		<u>Plumbing:</u>	
Suspended, acoustical	095113	Floor service sink	224000
<u>Walls:</u>		<u>HVAC:</u>	
Painted concrete masonry units	042000/099100	Supply/return air system	Div. 23
		Independent temperature control	230923
<u>LOOSE FURNISHINGS:</u>		<u>Electrical:</u>	
L1 Workbench		Fluorescent lighting	265100
L2 Stool		Illumination level: See Table 8600-6	
L3 Tool cabinet		Single level switching	262726
Waste receptacles		4 duplex receptacles (minimum)	262726
		Electrical receptacles for custodial equipment	262726
<u>EQUIPMENT:</u>		<u>Communications:</u>	
E1 Recycling bins		T1 1 voice port and phone	271513/ 273123
		Central sound system	275123
		Clock	275313
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
		<u>Miscellaneous:</u>	
		N/A	

NOTES:

1. Finishes/Features: Refer to Chapter 9 for specification references.
2. Ranges shown indicate quantities for the smallest and largest possible room size.



PROGRAM ACTIVITIES:

- Office for the custodian for scheduling, ordering, and inventory

SPATIAL RELATIONSHIPS:

- Near custodial workroom

ENVIRONMENTAL CONSIDERATIONS:

- Environmental sound control -
wall minimum STC 45
ceiling minimum CAC 35, NRC 0.70
- Optional – window with integral blind

CAPACITY:
SIZE:

N/A
100 SF

NOTES:

1. Loose furnishings shown represent one of many possible arrangements.

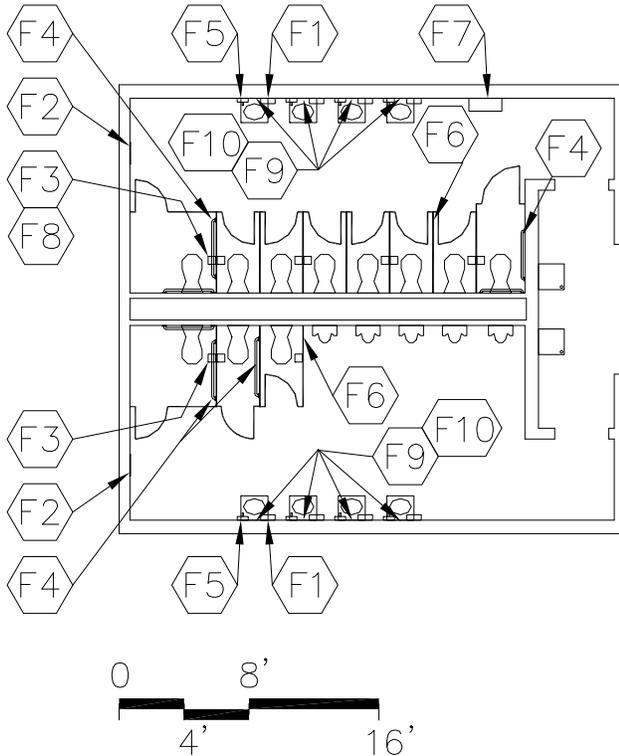
**CUSTODIAL OFFICE
M-CU-2**

<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
<u>Flooring:</u>		<u>Fixed Items:</u>	
Linoleum, ET, sheet vinyl,	096500	F1 4' of tack board or marker board	101100
sealed concrete,	096516	(optional)	
polished concrete finishing, or	033000		
colored concrete finishing	033510	<u>Fire Suppression:</u>	
	033519	Fire suppression system	211000
<u>Base:</u>		<u>Plumbing:</u>	
Resilient base	096500	N/A	
<u>Ceiling:</u>		<u>HVAC:</u>	
Suspended, acoustical	095113	Supply/return air system	Div. 23
		Independent temperature control	230923
		(coupled with similarly loaded	
		adjacent spaces)	
<u>Walls:</u>		<u>Electrical:</u>	
Painted concrete masonry units	042000/099100	Single level switching	262726
		Fluorescent lighting	265100
		Illumination level: See Table 8600-6	
		4 duplex receptacles	262726
		Double duplex receptacle adjacent to	
		data and modem port	262726
<u>LOOSE FURNISHINGS:</u>		<u>Communications:</u>	
L1 Desk and chair		T1 Modem port for temperature	
L2 Visitor chair		controls computer	271523
L3 File cabinets		T2 1 voice port and phone	271513/ 273123
L4 Computer desk return		T3 1 data port near workstation	271513
Wastebasket		Central sound system	275123
		Clock	275313
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
		<u>Miscellaneous:</u>	
		Interior window (optional)	081113/088000

NOTES:

1. Finishes/Features: Refer to Chapter 9 for specification references.
2. Fixed casework and loose furnishings can also be all fixed casework or all loose furnishings.

Spaces to be determined by Design Professional based on the number of fixtures required.



CAPACITY: Based on size of program area
SIZE: Based on the sum of the program areas excluding building services, multiplied by 3.5%

PROGRAM ACTIVITIES

- Personal and health needs for the students

SPATIAL RELATIONSHIPS:

- Near student dining area
- Near public use areas, such as media center and gymnasium
- Near academic core area
- Restrooms located in several areas throughout building

ENVIRONMENTAL CONSIDERATIONS:

- Environmental sound control –
 wall minimum STC 53
 ceiling minimum CAC 35, NRC 0.70

NOTES:

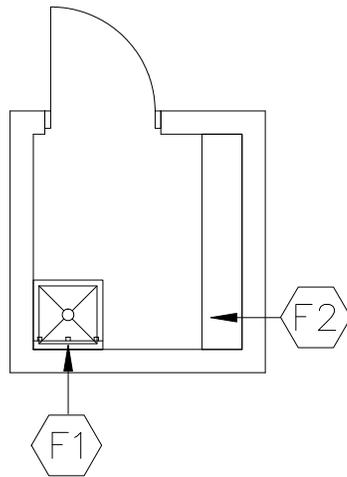
1. Where individual restrooms are provided in lieu of large group restrooms, refer to M-BS-10.

LARGE GROUP RESTROOMS
M-BS-1

<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
<u>Flooring:</u>		<u>Fixed Items:</u>	
Ceramic mosaic tile	093000	F1 Towel dispensers	102813
Optional: porcelain tile, resinous flooring or unbacked sheet vinyl with welded seams	096723 096500	F2 24" x 60" mirror	102813
		F3 Toilet tissue holders	102813
		F4 36" and 42" grab bar	102813
		F5 Soap dispensers	102813
<u>Base:</u>		F6 Toilet partitions	102113
Ceramic mosaic tile base	093000	F7 Sanitary product dispenser	102813
Optional: structural glazed tile, porcelain tile base, resinous flooring, or integral vinyl base	042000 096723 096500	F8 Sanitary product receptacles	102813
		F9 16" x 24" mirrors with shelf (optional)	102813
		F10 Shelves (optional)	123550
<u>Ceiling:</u>		<u>Fire Suppression:</u>	
Suspended, acoustical	095113	Fire suppression system	211000
Optional: Abuse resistant gypsum wallboard	092116	<u>Plumbing:</u>	
		Wall-mounted water closets	224000
<u>Walls:</u>		Wall-mounted urinals	224000
Painted concrete masonry units	042000/099100	Wall-mounted lavatories or wash fountains	224000
		Wall hydrants	224000
		Plumbing connections	224000/221116/221119
<u>LOOSE FURNISHINGS:</u>		Drinking water coolers	224000
Waste Receptacles		<u>HVAC:</u>	
		Exhaust air system	Div. 23
		Supplemental heat as required	Div. 23
		<u>Electrical:</u>	
		Single level switching	262726
		Fluorescent lighting	265100
		Illumination level: See Table 8600-5	
		1 duplex receptacle	262726
		Emergency lighting	265100
		<u>Communications:</u>	
		Central sound system	275123
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
		<u>Miscellaneous:</u>	
		N/A	

NOTES:

1. Finishes/Features: Refer to Chapter 9 for specification references.
2. Optional: electric hand dryers



PROGRAM ACTIVITIES:

- Space for storage of custodial supplies throughout the building

SPATIAL RELATIONSHIPS:

- Near large group restrooms

ENVIRONMENTAL CONSIDERATIONS:

N/A

CAPACITY:
SIZE:

N/A
50 SF

NOTES:

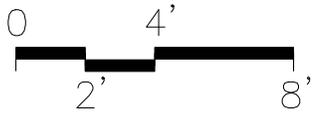
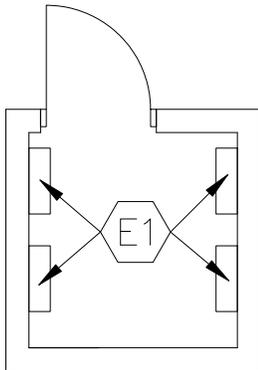
**CUSTODIAL CLOSET
M-BS-2**

	Spec. Ref.#		Spec. Ref.#
<u>FINISHES¹:</u>		<u>FEATURES¹:</u>	
Flooring:		<u>Fixed Items:</u>	
Sealed concrete	033000	F1 Mop holder	102813
		F2 Fixed or loose shelving (optional)	123550
Base:		<u>Fire Suppression:</u>	
Resilient base	096500	Fire suppression system	211000
Ceiling:		<u>Plumbing:</u>	
Cleanable, suspended, acoustical	095113	Service sink or floor drain sink	224000
Walls:		Plumbing connections	224000/221116/221119
Painted concrete masonry units	042000/099100	<u>HVAC:</u>	
		Exhaust air system	Div. 23
<u>LOOSE FURNISHINGS:</u>		<u>Electrical:</u>	
N/A		Single level switching	262726
		Fluorescent lighting	265100
		Illumination level: See Table 8600-6	
		1 duplex receptacle	262726
		<u>Communications:</u>	
		N/A	
		<u>Electronic Safety and Security:</u>	
		N/A	
		<u>Miscellaneous:</u>	
		N/A	

NOTES:

1. Finishes/Features: Refer to Chapter 9 for specification references.

**Space to be determined by
Design Professional.**



CAPACITY:
SIZE:

N/A
50 SF

PROGRAM ACTIVITIES:

- Space for electrical wiring and panels

SPATIAL RELATIONSHIPS:

N/A

ENVIRONMENTAL CONSIDERATIONS:

N/A

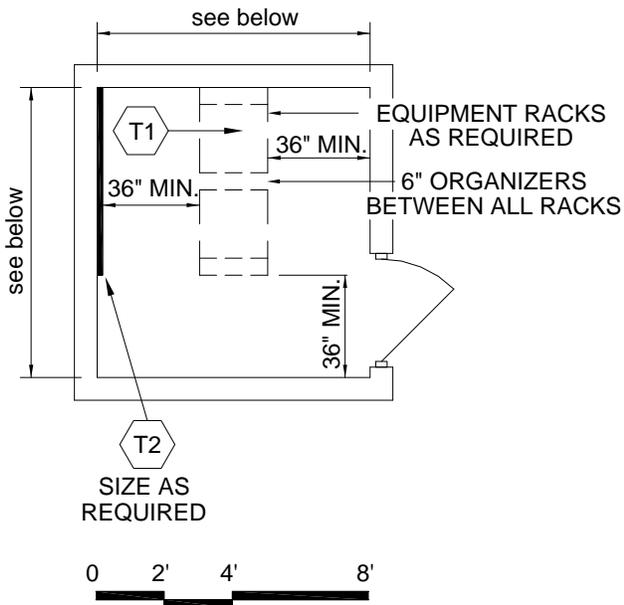
NOTES:

ELECTRICAL CLOSET
M-BS-3

<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
Flooring:		<u>Fixed Items:</u>	
Sealed concrete	033000	N/A	
Base:		<u>Fire Suppression:</u>	
No base		Fire suppression system	211000
Ceiling:		<u>Plumbing:</u>	
Exposed structure	---	N/A	
Walls:		<u>HVAC:</u>	
Unpainted concrete masonry units	042000	To be determined by Design Professional	
<u>LOOSE FURNISHINGS:</u>		<u>Electrical:</u>	
N/A		Single level switching	262726
		Fluorescent lighting	265100
		Illumination level: See Table 8600-6	
		1 duplex receptacle	262726
		E1 Electrical switchboard	262413/262416
		<u>Communications:</u>	
		N/A	
		<u>Electronic Safety and Security:</u>	
		N/A	
		<u>Miscellaneous:</u>	
		N/A	

NOTES:

1. Finishes/Features: Refer to Chapter 9 for specification references.



PROGRAM ACTIVITIES:

- Space for technology needs

SPATIAL RELATIONSHIPS:

N/A

ENVIRONMENTAL CONSIDERATIONS:

N/A

CAPACITY:

N/A

SIZE:

TR Serving Zone > 188 ports:
minimum 10 ft. x 12 ft.

TR Serving Zone of 96-188 ports:
minimum 8 ft. x 10 ft.

TR Serving Zone of < 96 ports:
minimum 8 ft. x 8 ft.

NOTES:

1. This is an example of a telecommunications room. The equipment and layout will vary from school district to school district.
2. **Verify and coordinate TR quantity, size and location with technology designer during programming phase.**
3. **Multiple TR's may be required.**

**TELECOMMUNICATIONS ROOM
M-BS-4**

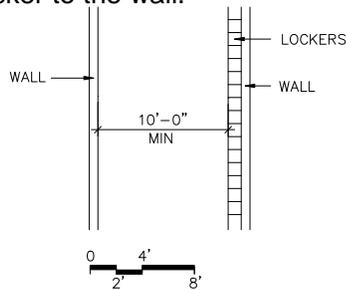
<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
Flooring:		<u>Fixed Items:</u>	
Sealed concrete,	033000	N/A	
polished concrete finishing, or	033510		
colored concrete finishing	033519	<u>Fire Suppression:</u>	
		Fire suppression system	211000
Base:		<u>Plumbing:</u>	
No base		N/A	
Ceiling:		<u>HVAC:</u>	
Exposed structure	---	Cooling and Exhaust air system	Div. 23
Walls:		<u>Electrical:</u>	
Unpainted concrete masonry units	042000	Single level switching	262726
		Fluorescent lighting	265100
<u>LOOSE FURNISHINGS:</u>		Illumination level: See Table 8600-6	
N/A		1 duplex receptacle	262726
		Receptacles for data equipment	262726
		Telecommunications Grounding	
		270526/260526	
		Standby power	263213/263600
		<u>Communications:</u>	
		T1 Technology equipment	
		Central sound system	275123
		Telephone Wiring	271313/271513
		Integrated Telephone System	273123
		Video Wiring	271543
		Digital on Demand Delivery System	274125
		Local Area Network Wiring	271513/271323
		Local Area Network Electronics	
		272100/273123	
		Grounding & Infrastructure Equipment	
		270526/271100	
		T2 3/4" plywood back board	271313
		<u>Electronic Safety and Security:</u>	
		Security System	281300/281600/282300
		<u>Miscellaneous:</u>	
		N/A	

NOTES:

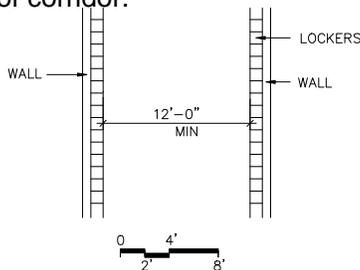
1. Finishes/Features: Refer to Chapter 9 for specification references.

CHAPTER 5: MIDDLE SCHOOL

- Corridors shall be a minimum of 8 feet wide if no lockers are located in the corridor.
- Corridors shall be a minimum of 10 feet wide if lockers are located on one side of the corridor. The corridor width is from the face of the locker to the wall.



- Corridors shall be a minimum of 12 feet wide if lockers are located on each side of the corridor. The corridor width is from the face of the locker to the face of locker on opposite side of corridor.



- Instructional and activity areas shall be accessible by corridors without passing through another instructional or activity area.
- The corridors are to meet the existing requirements of applicable codes
- Stairs, ramps, and elevators are included under the corridor category.
- It is recommended that stairs in multi-story buildings not be enclosed unless required by code.

CAPACITY: Based on size of program area
 SIZE: Based on the sum of the program areas excluding building services, multiplied by 20%

PROGRAM ACTIVITIES:

- Circulation space

SPATIAL RELATIONSHIPS:

N/A

ENVIRONMENTAL CONSIDERATIONS:

- Uniform lighting

VESTIBULES

- Area of vestibules to be included within area allotted for corridors.
- Width of vestibules can be no less than minimum width of adjacent corridor.
- Minimum corridor length to be 8'-0" between doors.
- Vestibules are to be provided at major entrances/exits and may be eliminated at minor entrances/exits as determined by the Design Professional.
- Provide automatic door operator on one leaf of main entrance/exit door and related vestibule door.
- Provide a five-step or fifteen foot walk off mat extending from main outside entry doors into the building and as wide as the entry doors.
- Option – entrance floor grilles. See Chapter 9, Section 124816.
- **Lockers are not part of the construction factor, but are a part of the circulation/corridor factor.**

NOTES:

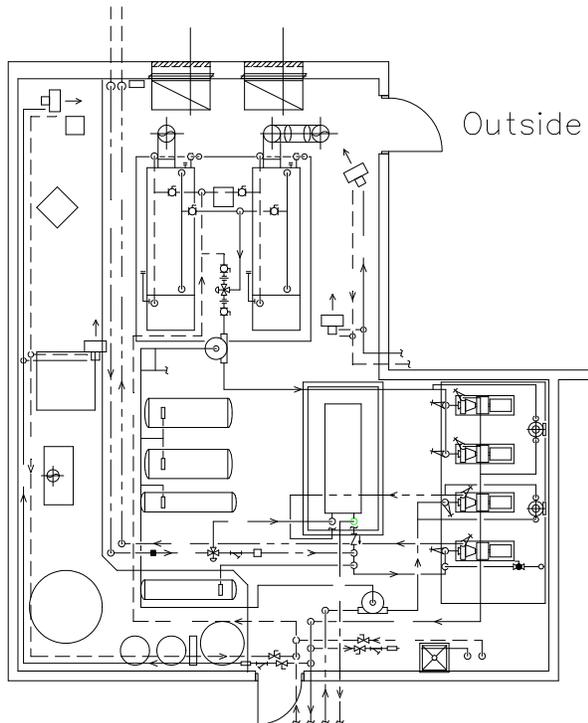
CORRIDORS
M-BS-5

<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
<u>Flooring²:</u>		<u>Fixed Items:</u>	
Linoleum, ET, sheet vinyl,	096516	Corridor lockers	105113
rubber, carpet,	096500	Fire extinguishers and cabinets	104400
carpet tile,	096816	Recessed vinyl floor mats or	
polished concrete finishing,	096813	surface mats	124813
or colored concrete finishing	033510	Tack board or tackable wall surface	101100
	033519		
Optional: Terrazzo tile, porcelain	093000	<u>Fire Suppression:</u>	
		N/A	
<u>Base:</u>		<u>Plumbing:</u>	
Resilient base	096500	Drinking water coolers	224000
Optional: structural glazed tile	042000		
<u>Ceiling:</u>		<u>HVAC:</u>	
Suspended, acoustical	095113	Supply/return air system	Div. 23
Option in vestibules: Abuse resistant		Temp ctrl from	230923
gypsum wallboard	092116	adjacent instructional spaces	
<u>Walls:</u>		<u>Electrical:</u>	
Painted concrete masonry units		Dual level switching	262726
	042000/099100	Fluorescent lighting	265100
		illumination level: See Table 8600-6	
<u>LOOSE FURNISHINGS</u>		Duplex receptacles	262726
Recycling bins and waste receptacles		Double duplex receptacle adjacent to	
Fixed or loose benches		each video port	262726
		Means of egress lighting per code	265100
		Emergency lighting	265100
<u>NOTE:</u> At entries adjacent to dining/ commons area, match dining/commons flooring.		<u>Communications:</u>	
		Video ports	271543
		Data ports	271513
		Pay phone terminals	271513/273113
		Central sound system	275123
		Clocks	275313
		Wireless access points	
			271513/272100/272133
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
		Security System	281300/281600/282300
		<u>Miscellaneous:</u>	
		Display cases and Directory	101200

NOTES:

1. Finishes/Features: Refer to Chapter 9 for specification references.
2. Linoleum, VET, or sheet vinyl is to be used in vestibules, stairwells, and elsewhere as appropriate. Porcelain tile is optional in lobbies, with resilient or structural glazed tile base.

Space to be determined by Design Professional.



CAPACITY: Based on size of program area
SIZE: Based on the sum of the program areas excluding building services, multiplied by 6.9%

PROGRAM ACTIVITIES:

- Space for mechanical and electrical equipment

SPATIAL RELATIONSHIPS:

- Accessible for maintenance and repair
- Access to outside
- Isolate from main area of building
- Near loading/receiving area
- Near custodial area

ENVIRONMENTAL CONSIDERATIONS:

- Environmental sound control –
 wall minimum STC 60
 ceiling minimum CAC 35, NRC 0.70

NOTES:

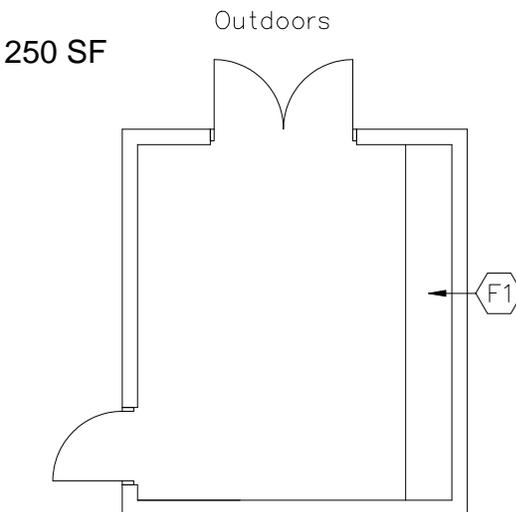
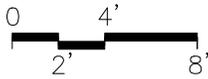
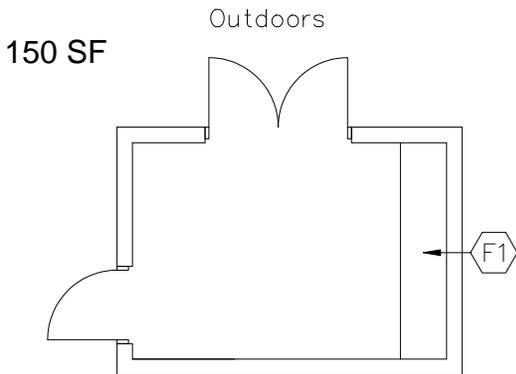
1. This is an example of a mechanical room. The equipment and layout will vary depending upon the heating, ventilating, and air conditioning system used.
2. A penthouse is considered a mechanical room.

MECHANICAL/ELECTRICAL SPACE/DECKS
M-BS-6

<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
Flooring:		<u>Fixed Items:</u>	
Sealed concrete	033000	To be determined by Design Professional	
Base:		<u>Fire Suppression:</u>	
No base		N/A	
Ceiling:		<u>Plumbing:</u>	
Exposed structure	---	To be determined by Design Professional	
Walls: (note 2)		<u>HVAC:</u>	
Unpainted concrete masonry units	042000	To be determined by Design Professional	
<u>LOOSE FURNISHINGS:</u>		<u>Electrical:</u>	
N/A		Single level switching	262726
		Fluorescent lighting	265100
		Illumination level: See Table 8600-6	
		Others as determined by Design Professional	
		<u>Communications:</u>	
		Central sound system	275123
		Voice port and phone	271413/ 273123
		<u>Electronic Safety and Security:</u>	
		N/A	
		<u>Miscellaneous:</u>	
		N/A	

NOTES:

1. Finishes/Features: Refer to Chapter 9 for specification references.
2. Option for penthouse to use metal panel on concrete masonry or metal panel on metal framing wall systems.



CAPACITY: N/A
 SIZE: 150 - 250 SF

PROGRAM ACTIVITIES:

- Space for storage of outdoor custodial equipment

SPATIAL RELATIONSHIPS:

- Near custodial office
- Near custodial workroom
- Direct access to outdoors

ENVIRONMENTAL CONSIDERATIONS:

N/A

NOTES:

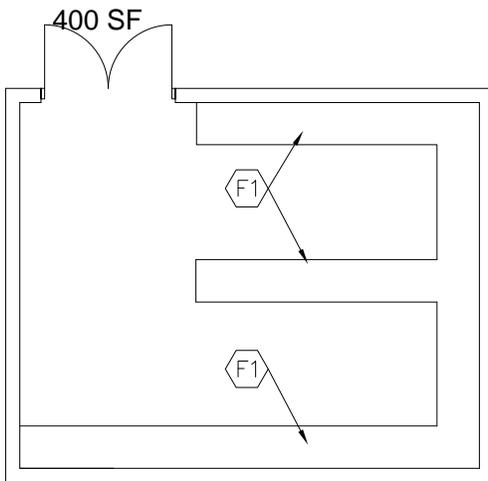
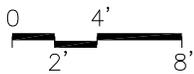
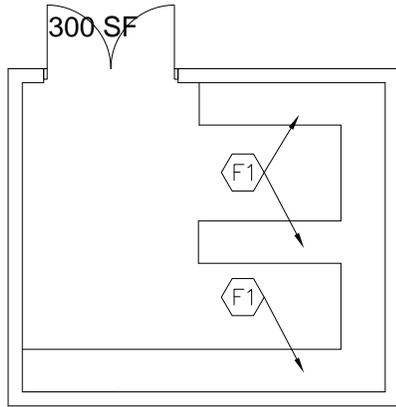
**STORAGE AREA
M-BS-7**

<u>FINISHES</u> ¹ :	Spec. Ref.#	<u>FEATURES</u> ¹ :	Spec. Ref.#
Flooring:		<u>Fixed Items</u> ² :	
Sealed concrete	033000	F1 10' - 16' of open tall shelving, depths may vary (fixed or loose)	123550
Base:		<u>Fire Suppression:</u>	
No base		Fire suppression system	211000
Ceiling:		<u>Plumbing:</u>	
Exposed structure	---	N/A	
Walls:		<u>HVAC:</u>	
Unpainted concrete masonry units	042000	Exhaust air system	Div. 23
<u>LOOSE FURNISHINGS:</u>		Supplemental heat as required	Div. 23
N/A		<u>Electrical:</u>	
		Single level switching	262726
		Fluorescent lighting	265100
		Illumination level: See Table 8600-6	
		Duplex receptacles	262726
		<u>Communications:</u>	
		N/A	
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
		<u>Miscellaneous:</u>	
		N/A	

NOTES:

1. Finishes/Features: Refer to Chapter 9 for specification references.
2. Ranges shown indicate quantities for the smallest and largest possible room size.

Space to be determined by Design Professional.



CAPACITY: N/A
SIZE: 300 - 700 SF

PROGRAM ACTIVITIES:

- Storage for paper products, utensils, supplies, etc., to be used throughout the entire building

SPATIAL RELATIONSHIPS:

- Near loading/receiving area
- Direct access to building circulation

ENVIRONMENTAL CONSIDERATIONS:

N/A

NOTES:

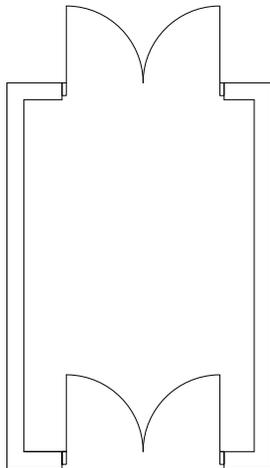
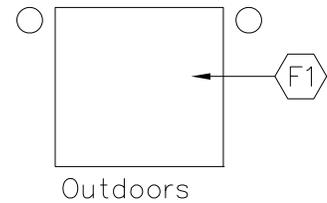
**CENTRAL STORAGE AREA
M-BS-8**

CHAPTER 5: MIDDLE SCHOOL

<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
Flooring:		<u>Fixed Items²:</u>	
Sealed concrete	033000	F1 26' - 32' of open tall shelving, depths may vary (fixed or loose)	123550
Base:		Option: mobile storage shelving	105626
No base		<u>Fire Suppression:</u>	
Ceiling:		Fire suppression system	211000
Exposed structure	---	<u>Plumbing:</u>	
Walls:		N/A	
Unpainted concrete masonry units	042000	<u>HVAC:</u>	
<u>LOOSE FURNISHINGS:</u>		Exhaust air system	Div. 23
N/A		Supplemental heat as required	Div. 23
		<u>Electrical:</u>	
		Single level switching	262726
		Fluorescent lighting	265100
		Illumination level: See Table 8600-6	
		Duplex receptacles	262726
		<u>Communications:</u>	
		N/A	
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
		<u>Miscellaneous:</u>	
		N/A	

NOTES:

1. Finishes/Features: Refer to Chapter 9 for specification references.
2. Ranges shown indicate quantities for the smallest and largest possible room size.



CAPACITY:
SIZE:

N/A
120 SF

PROGRAM ACTIVITIES:

- Delivery of materials and goods to be used throughout the building

SPATIAL RELATIONSHIPS:

- Near food service spaces
- Near central storage area
- Near mechanical room
- Adjacent to loading dock

ENVIRONMENTAL CONSIDERATIONS:

N/A

MISCELLANEOUS:

- Refer to Chapter 3, Section 3201, for site vehicular circulation requirements

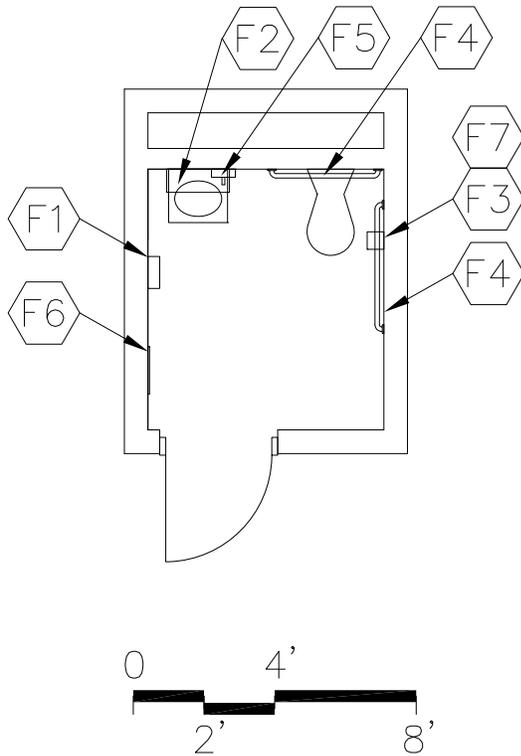
NOTES:

LOADING/RECEIVING AREA
M-BS-9

<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
Flooring:		<u>Fixed Items:</u>	
Sealed concrete	033000	F1 Loading dock leveler and dock bumpers	111300
Base:		<u>Fire Suppression:</u>	
No base		Fire suppression system	211000
Ceiling:		<u>Plumbing:</u>	
Exposed structure		N/A	
Walls:		<u>HVAC:</u>	
Epoxy-painted concrete masonry units	042000 / 099100	Exhaust air system	Div. 23
		Supplemental heat as required	Div. 23
<u>LOOSE FURNISHINGS</u>		<u>Electrical:</u>	
N/A		Single level switching	262726
		Fluorescent lighting	265100
		Illumination level: See Table 8600-6	
		Duplex receptacles	262726
		<u>Communications:</u>	
		Central sound system	275123
		<u>Electronic Safety and Security:</u>	
		N/A	
		<u>Miscellaneous:</u>	
		N/A	

NOTES:

1. Finishes/Features: Refer to Chapter 9 for specification references.



PROGRAM ACTIVITIES:

- Personal and health needs for the building occupants

SPATIAL RELATIONSHIPS:

- Near academic area

ENVIRONMENTAL CONSIDERATIONS:

- Environmental sound control -
 wall minimum STC 48
 ceiling minimum CAC 35, NRC 0.70
- Moisture- and stain-resistant finishes

CAPACITY: 1 person
 SIZE: 60 SF
 ANCILLARY SPACES:

NOTES:

1. Separate restrooms must be provided for male and female students

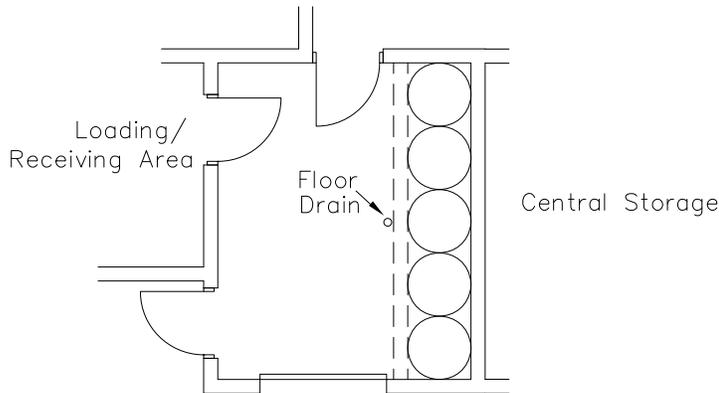
**RESTROOM
M-BS-10**

<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
<u>Flooring:</u>		<u>Fixed Items:</u>	
Sheet vinyl, or rubber	096500	F1 Towel dispenser	102813
Optional: quarry tile, or resinous flooring	093000 096723	F2 Mirror with shelf above sink(optional)	102813
		F3 Toilet tissue holder	102813
		F4 36" and 42" grab bar	102813
<u>Base:</u>		F5 Soap dispenser	102813
Resilient base	096500	F6 Sanitary product dispenser	102813
Optional: quarry tile, resinous flooring, or integral vinyl cove base	093000 096723	F7 Sanitary product receptacle	102813
<u>Ceiling:</u>		<u>Fire Suppression:</u>	
Suspended, acoustical	095113	Fire suppression system	211000
<u>Walls:</u>		<u>Plumbing:</u>	
Painted concrete masonry units	042000/099100	Wall-mounted water closet	224000
		Wall-mounted lavatory	224000
		Plumbing connections	224000/221116/221119
<u>LOOSE FURNISHINGS:</u>		<u>HVAC:</u>	
Wastebasket		Exhaust air system	Div. 23
		Supplemental heat as required	Div. 23
		<u>Electrical:</u>	
		Single level switching	262726
		Fluorescent lighting	265100
		Illumination level: See Table 8600-5	
		1 duplex receptacle	262726
		<u>Communications:</u>	
		Central sound system	275123
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
		<u>Miscellaneous:</u>	
		N/A	

NOTES:

1. Finishes/Features: Refer to Chapter 9 for specification references.
2. F6 and F7 required for female restroom only.

Recycling space to be determined by Design Professional.



PROGRAM ACTIVITIES:

- Provide recyclable collection for paper, cardboard, glass, plastics and metals

SPATIAL RELATIONSHIPS:

- Near food service spaces
- Near central storage area
- Near mechanical room
- Adjacent to loading dock

ENVIRONMENTAL CONSIDERATIONS:
N/A

MISCELLANEOUS:

- Refer to Chapter 3, Section 3201, for site vehicular circulation requirements

CAPACITY: N/A
SIZE: 80 – 100 SF

NOTES:

1. Contact local collection agency to see if co-mingling of materials is permitted. Design team should meet the LEED intent when designing the recycling area.

**RECYCLING ROOM
M-BS-11**

CHAPTER 5: MIDDLE SCHOOL

<u>FINISHES</u> ¹ :	Spec. Ref.#	<u>FEATURES</u> ¹ :	Spec. Ref.#
Flooring:		<u>Fixed Items:</u>	
Sealed concrete	033000	N/A	
Base:		<u>Fire Suppression:</u>	
No base		Fire suppression system	211000
Ceiling:		<u>Plumbing:</u>	
Exposed structure		N/A	
Walls:		<u>HVAC:</u>	
Epoxy-painted concrete masonry units		Exhaust air system	Div. 23
	042000 / 099100	Supplemental heat as required	Div. 23
<u>LOOSE FURNISHINGS</u>		<u>Electrical:</u>	
N/A		Single level switching	262726
		Fluorescent lighting	265100
		Illumination level: See Table 8600-6	
		Duplex receptacles	262726
		<u>Communications:</u>	
		N/A	
		<u>Electronic Safety and Security:</u>	
		N/A	
		<u>Miscellaneous:</u>	
		N/A	

NOTES:

1. Finishes/Features: Refer to Chapter 9 for specification references.