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

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.

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.

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

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. 5% of floor area for natural light opening is a minimum and is considered to be the masonry or rough opening.

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. For example, it may be necessary to change a gypsum wallboard partition to a concrete masonry wall as a result of the structural system.

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.

AREA

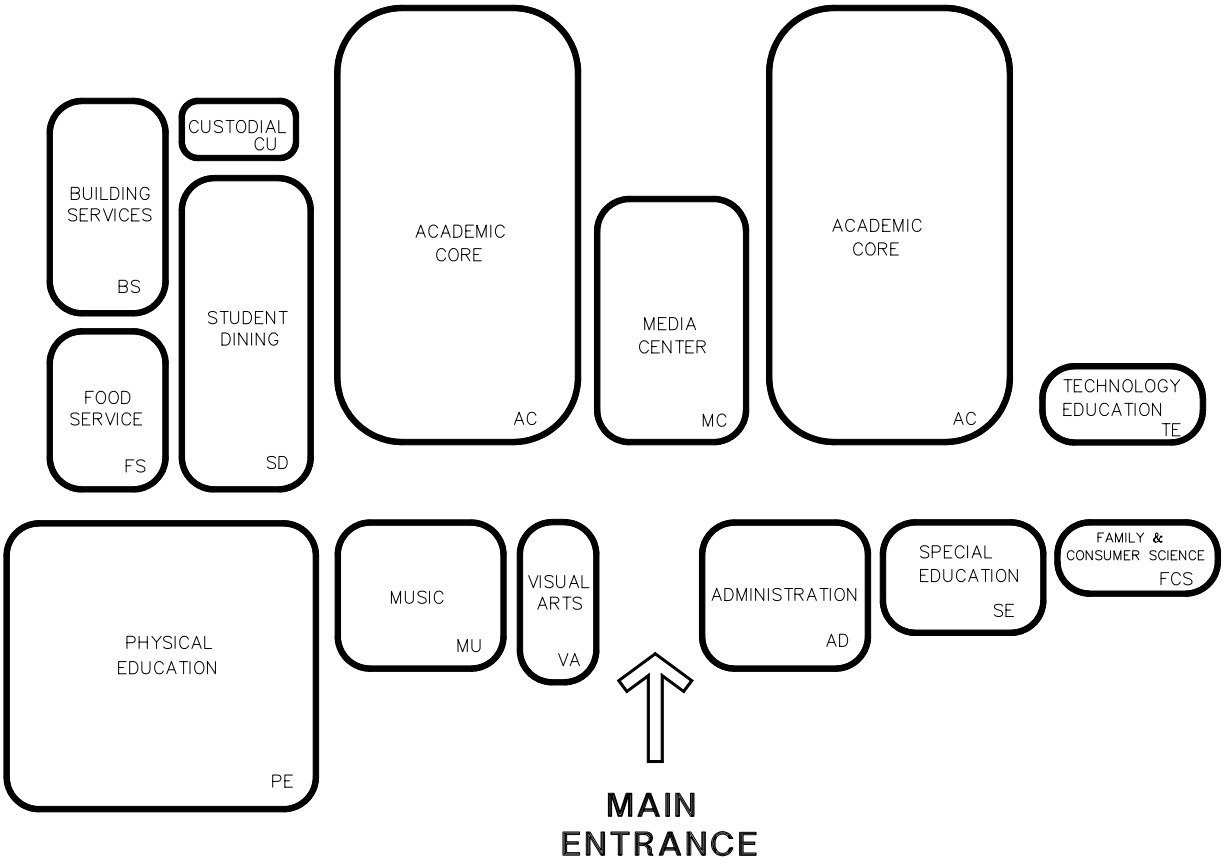
Square foot area given for the room is the necessary area. This area is given in net square feet – defined as the area within the walls of the room.

TECHNOLOGY

The location of overhead projectors in ceilings of spaces where required shall be carefully determined in relation to the projection surface. ***Provide a data drop next to the overhead projector for network connection. See spec 274119. Provide additional A/V connections at teacher workstation to allow connection of computer outputs, etc., that interfaces with the projector. See spec 271543.***

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.



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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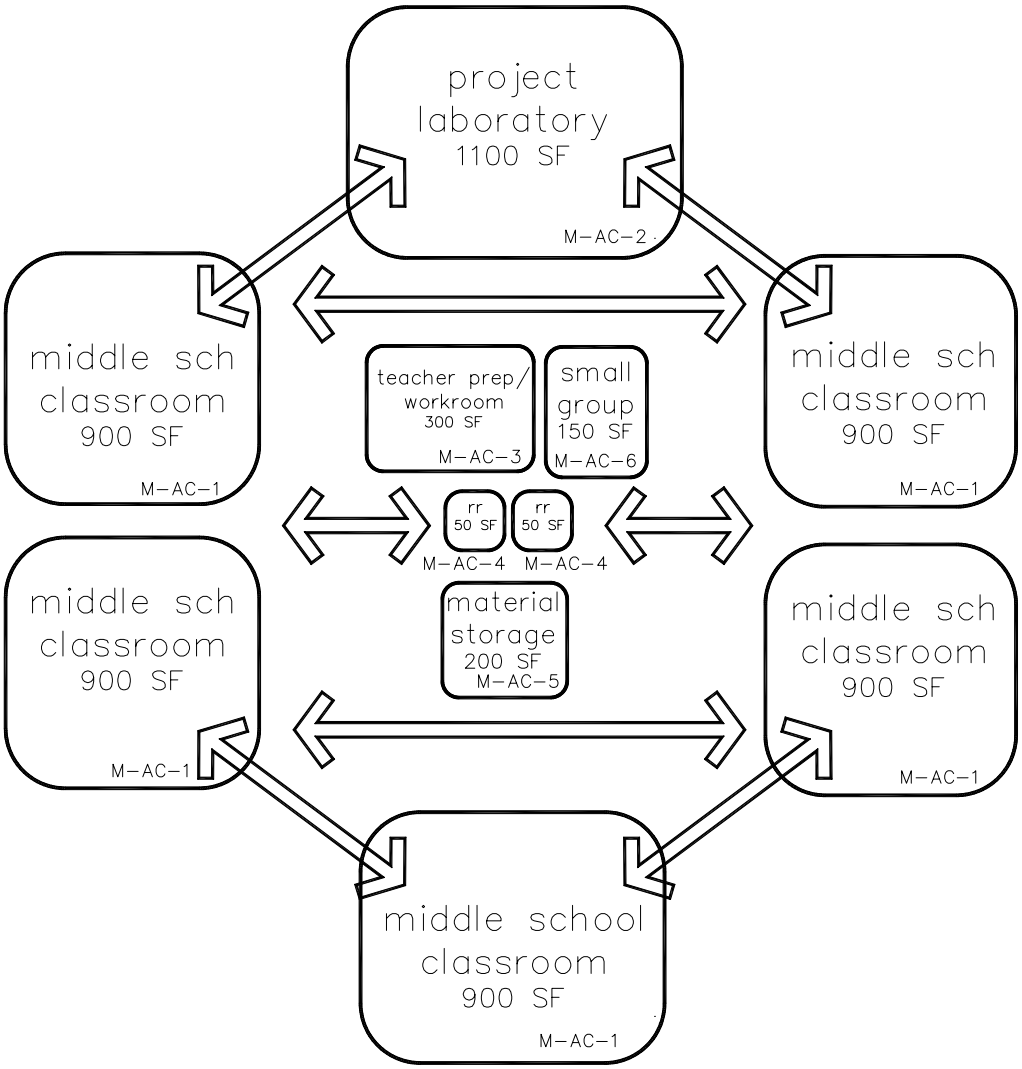

NOTES:

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	Teacher Prep Area/Workroom
M-AC-4	Individual Restroom
M-AC-5	Instructional Material Storage
M-AC-6	Small Group Room

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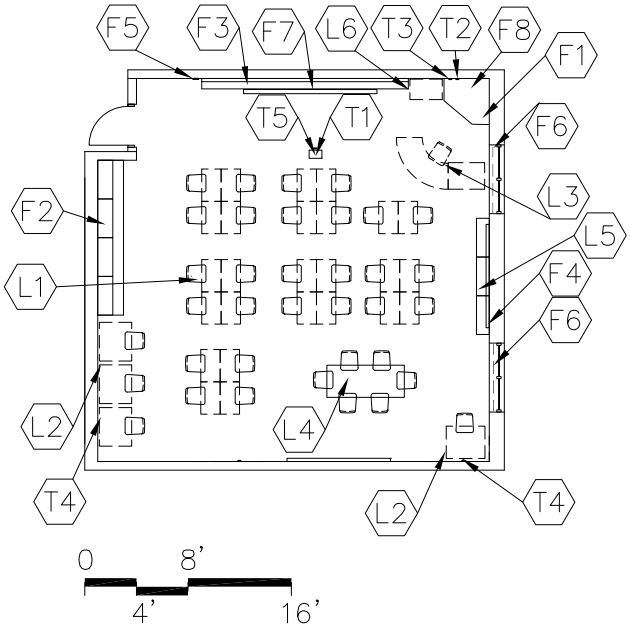
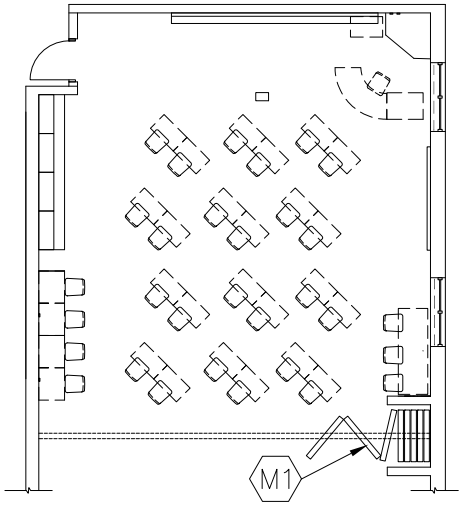




CLASSROOM WITH OPTIONAL OPERABLE WALL

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:

- Uniform lighting
- Natural light opening equal to minimum 5% of floor area, with an operable vent
- Environmental sound control -
  wall minimum STC 50
  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

FINISHES[1]:	Spec. Ref.#
Flooring:	
Carpet	096816
Optional: Vinyl composition tile, linoleum, ***ET***, sheet vinyl, or rubber	096500 096516
Base:	
Resilient base	096500
Ceiling:	
Suspended, acoustical	095113
Walls:	
Painted concrete masonry units	042000/099100

LOOSE FURNISHINGS:

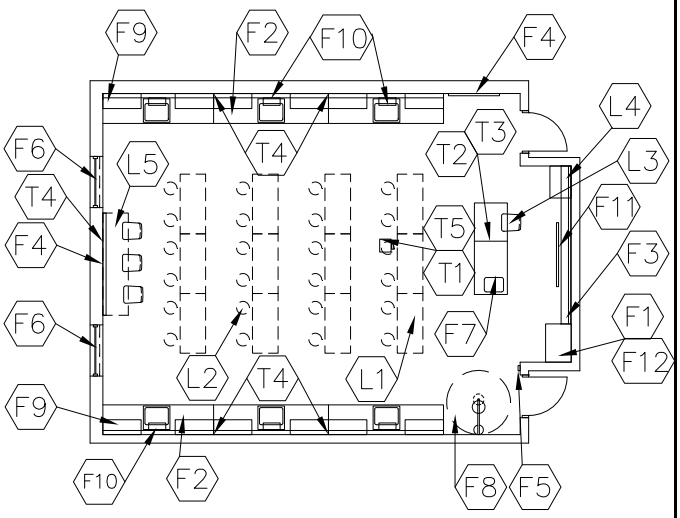
L1 Student desks or tables and chairs
L2 Computer workstation furniture
L3 Teacher desk or workstation/computer support and chair
L4 Activity table
L5 9' of low bookcases (fixed or mobile)
L6 File cabinet
Wastebasket
Pencil sharpener

L2 and L3 can be loose or fixed.

FEATURES[1]:		Spec. Ref.#
Fixed Items:		
F1	2'-3' of tall wardrobe with file drawers	123550
F2	9'-12' of base & 12' of wall cabinets	123550
F3	12'-16' of chalk/marker board	101100
F4	10'-16' of tack board or tackable wall surface	101100
F5	Pencil sharpener support	062000
F6	Windows with integral blinds	085113
F7	Projection screen (optional)	115213
F8	Technology support casework	123550
Fire Suppression:		
	Fire suppression system	211000
Plumbing:		
	N/A	
HVAC:		
Supply/return air system		Div. 23
	Independent temperature control	230923
Electrical:		
	Fluorescent lighting Illumination level: See Table 8600-4	265100
	Multilevel switching	262726
	4 duplex receptacles	262726
	Double duplex receptacle adjacent to each data and video port	262726
Communications:		
T1	1 video port	271533/271543
T2	1 voice port and phone	271513/273113
T3	1 data port near teacher work station	271513
T4	4 data ports (minimum) for student use	271513
	Clock	275313
	Central sound system	275123
	Sound reinforcement system	275127
T5	Overhead projector	274119
Electronic Safety and Security		
	Life safety devices per code	283111
Miscellaneous:		
M1	Operable partitions are optional between classrooms	102226

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.



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:

- Uniform lighting
- Natural light opening equal to minimum 5% of floor area, with an operable vent
- Environmental sound control -
  wall minimum STC 50
  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

FINISHES[1]:	Spec. Ref.#
Flooring:	
Vinyl sheet flooring, linoleum,	096516
rubber, ***ET***, vinyl composition	096500
tile, ***polished concrete***	***033510***
finishing, or colored concrete	***033519***
finishing	
Base:	
Resilient base	096500
Ceiling:	
Suspended, acoustical	095113
Walls:	
Painted concrete masonry units	042000/099100

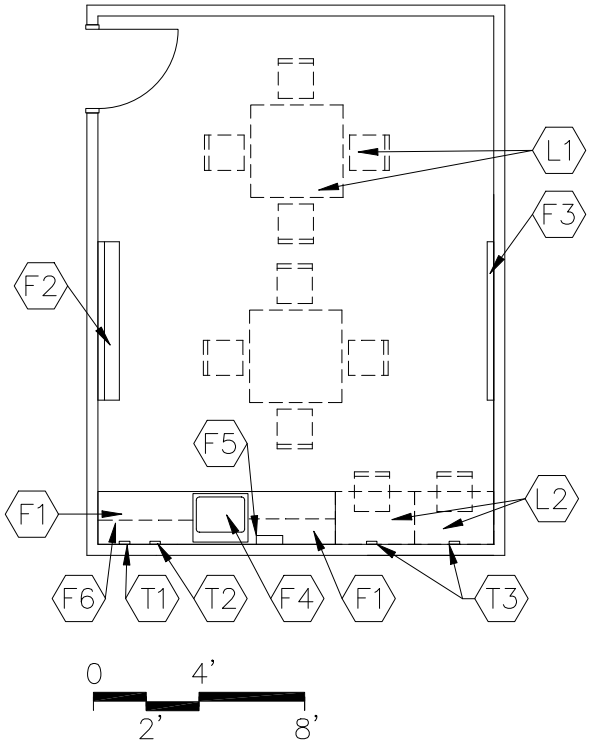
LOOSE FURNISHINGS:

L1 Student work tables
L2 Student stools/chairs
L3 Teacher desk or workstation/ computer support and chair
L4 File cabinet
L5 Computer workstation furniture
Wastebaskets
Pencil sharpener

FEATURES[1]:	Spec. Ref.#
Fixed Items:	
F1 3' of tall wardrobe with file drawers	123550
F2 40'-58' lab station casework or loose cabinets with 6 sinks	123550
F3 12'-16' of chalk/marker board	101100
F4 10'-16' of tack board	101100
F5 Pencil sharpener support	062000
F6 Windows with integral blinds	085113
F7 Demonstration table	123550
F8 Emergency shower/eyewash(option)	123550
F9 About 24' of wall cabinets	123550
F10 Towel dispensers (optional)	102813
F11 Projection screen (optional)	115213
F12 Technology support casework	123550
Fire Suppression:	
Fire suppression system	211000
Plumbing:	
Sinks	224000
Plumbing connections	224000/221116/221119
Emergency shower/eyewash Connection (optional)	224000
Gas connections (optional)	226313
Master shutoff for gas (optional)	226313
Compressed air connections(option)	221500
HVAC:	
Supply/return air system	Div. 23
Manually controlled exhaust air system	Div. 23
Independent temperature control	230923
Electrical:	
Fluorescent lighting	265100
Illumination level: See Table 8600-4	
Multilevel switching	262726
4 duplex receptacles (optional)	262726
Double duplex receptacle adjacent to each data and video port	262726
Means of egress lighting per code	265100
Emergency lighting	265100
Communications:	
T1 1 video port	271533/271543
T2 1 voice port and phone	271513/273113
T3 1 data port near teacher work station	271513
T4 4 data ports (minimum) for student use	271513
Clock	275313
Central sound system	275123
Sound reinforcement system	275127
T5 Overhead projector	274119
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. Technology components may be placed in a separate small cabinet, or integrated in the other casework in the room.



CAPACITY: 6 - 8 teachers
SIZE: 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.

SPATIAL RELATIONSHIPS:

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

ENVIRONMENTAL CONSIDERATIONS:

- Uniform lighting
- Environmental sound control -
  wall 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 teacher prep area/workroom or could be placed in a classroom.

TEACHER PREP AREA/WORKROOM

M-AC-3

FINISHES[1]:	Spec. Ref.#
Flooring:	
Carpet, VCT, ***ET***, linoleum,	096816
sheet vinyl, or rubber	096500
	096516
Base:	
Resilient base	096500
Ceiling:	
Suspended, acoustical	095113
Walls:	
Painted concrete masonry units	042000/099100

LOOSE FURNISHINGS:

L1 Tables and chairs

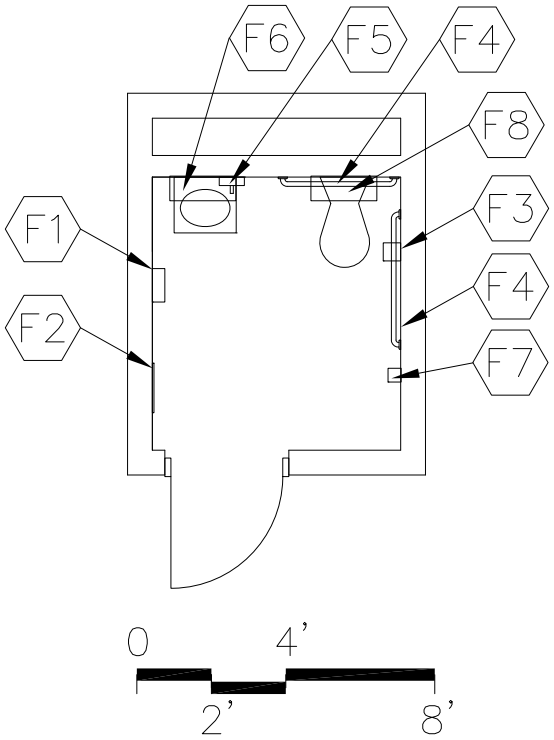
L2 Computer workstation furniture

Wastebasket

FEATURES[1]:		Spec. Ref.#
Fixed Items:		
F1	About 6' of base cabinets	123550
F2	6'-8' of chalk/marker board (option)	101100
F3	4'-8' of tack board	101100
F4	3' sink base cabinet	123550
F5	Towel dispenser (optional)	102813
F6	About 9' of wall cabinets	123550
Fire Suppression:		
	Fire suppression systems	211000
Plumbing:		
	Sink	224000
	Plumbing connections	224000/221116/221119
HVAC:		
	Supply/return air system	Div. 23
	Independent temperature control	230923
Electrical:		
	Fluorescent lighting	265100
	Illumination level: See Table 8600-4	
	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
Communications:		
T1	1 video port	271533/271543
T2	1 voice port and phone	271513/273113
T3	2 data ports near workstations	271513
	Clock	275313
	Central sound system	275123
Electronic Safety and Security:		
	Life safety devices per code	283111
Miscellaneous:		
	Copier by school district	

NOTES:

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



CAPACITY: 1 person
SIZE: 50 SF

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:

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

NOTES:

INDIVIDUAL RESTROOM
M-AC-4

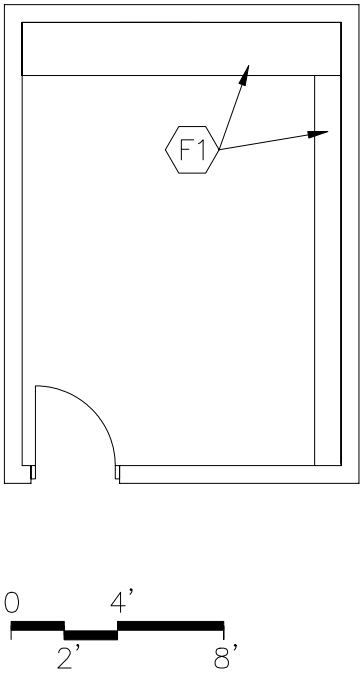
FINISHES[1]:	Spec. Ref.#
Flooring:	
Linoleum, rubber, ***ET***, or	096516
sheet vinyl	096500
Optional: Ceramic mosaic tile,	093000
porcelain tile, or	
resinous flooring	096723
Base:	
Resilient base	096500
Optional: Ceramic mosaic tile,	093000
porcelain tile, resinous flooring	096723
or integral vinyl cove base	
Ceiling:	
Suspended, acoustical	095113
Walls:	
Painted concrete masonry units	042000/099100

LOOSE FURNISHINGS:
- Wastebasket

FEATURES[1]:		Spec. Ref.#
Fixed Items:		
F1	Towel dispenser	102813
F2	24" x 60" mirror	102813
F3	Toilet tissue holder	102813
F4	36" and 42" grab bar	102813
F5	Soap dispenser	102813
F6	Shelf above sink (optional)	102813
F7	Coat hook	102813
F8	Wall cabinet above toilet (optional)	102813
Fire Suppression:		
	Fire suppression system	211000
Plumbing:		
	Wall-mounted water closet	224000
	Wall-mounted lavatory	224000
	Plumbing connections	224000/221116/221119
HVAC:		
	Exhaust air system	Div. 23
	Supplemental heat as required	Div. 23
Electrical:		
	Single level switching	262726
	Fluorescent lighting	265100
	Illumination level: See Table 8600-4	
	1 duplex receptacle	262726
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.



PROGRAM ACTIVITIES:

- Storage of supplies, textbooks, and equipment

SPATIAL RELATIONSHIPS:

- Near teacher prep area/workroom

ENVIRONMENTAL CONSIDERATIONS:
N/A

CAPACITY: N/A
SIZE: 200 SF

NOTES:

INSTRUCTIONAL MATERIAL STORAGE

M-AC-5

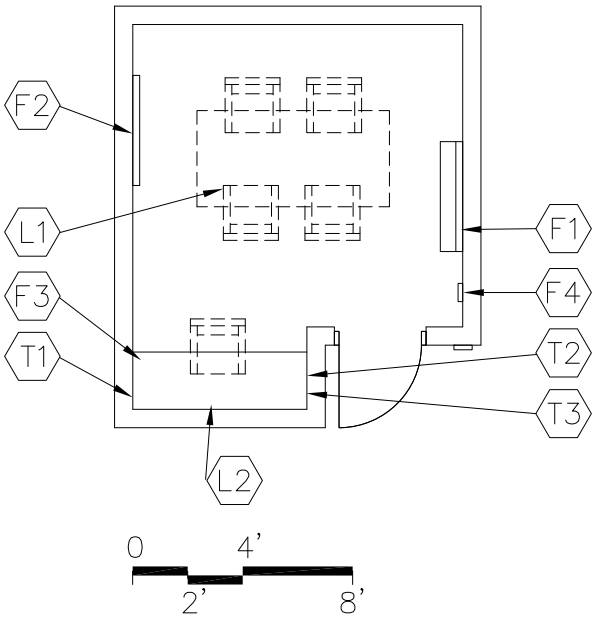
FINISHES[1]:	Spec. Ref.#
Flooring:	
Vinyl composition tile	096500
Base:	
Resilient base	096500
Ceiling:	
Suspended, acoustical	095113
Walls:	
Painted concrete masonry	***042000***/099100

LOOSE FURNISHINGS:
N/A

FEATURES[1]:	Spec. Ref.#
Fixed Items:	
F1 20'-30' of open shelving, depths may vary (fixed or loose)	123550
Option: mobile storage shelving	105626
Fire Suppression:	
Fire suppression system	211000
Plumbing:	
N/A	
HVAC:	
To be determined by Design Professional	
Supplemental heat as required	Div. 23
Electrical:	
Single level switching	262726
Fluorescent lighting	265100
Illumination level: See Table 8600-4	
1 duplex receptacle	262726
Communications:	
N/A	
Electronic Safety and Security:	
N/A	
Miscellaneous:	
N/A	

NOTES:

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



CAPACITY: 4 - 5 students
SIZE: 150 SF

PROGRAM ACTIVITIES:
- Student small group work
- Independent student work
- Small group meetings

SPATIAL RELATIONSHIPS:
- Near academic core classrooms

ENVIRONMENTAL CONSIDERATIONS:
- Uniform lighting
- Environmental sound control -
  wall minimum STC 50
  ceiling minimum CAC 35, NRC ***0.70***

NOTES:

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

SMALL GROUP ROOM
M-AC-6

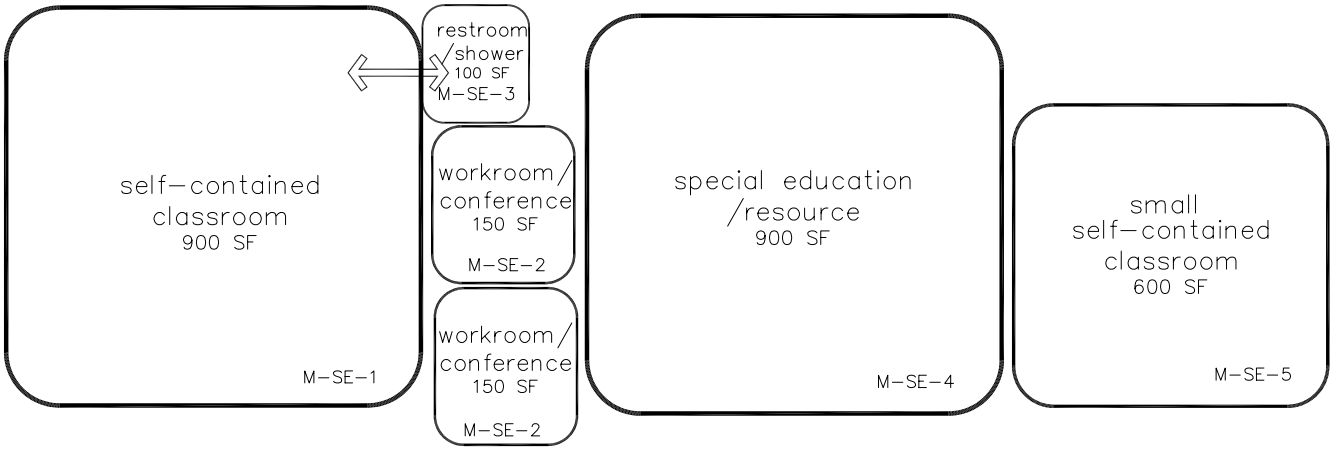
FINISHES[1]:	Spec. Ref.#
Flooring:	
Carpet	096816
Optional: vinyl composition tile,	096500
ET, sheet vinyl, linoleum,	096516
or rubber	
Base:	
Resilient base	096500
Ceiling:	
Suspended, acoustical	095113
Walls:	
Painted concrete masonry units	042000/099100

LOOSE FURNISHINGS:
L1 Work tables and chairs
L2 Computer furniture
Wastebasket
Pencil sharpener

FEATURES[1]:		Spec. Ref.#
Fixed Items:		
F1	4'-6' of chalk/marker board	101100
F2	4' of tack board	101100
F3	4'-6' of work surface (optional)	123550
F4	Pencil sharpener support	062000
Fire Suppression:		
	Fire suppression system	211000
Plumbing:		
	N/A	
HVAC:		
	Supply/return air system	Div. 23
	Independent temperature control (coupled with similarly loaded adjacent spaces)	230923
Electrical:		
	Fluorescent lighting: Illumination level: See Table 8600-4	265100
	4 duplex receptacles	262726
	Double duplex receptacle adjacent to each data and video port	262726
Communications:		
T1	1 video port	271533/271543
T2	1 voice port	271513/273113
T3	1 data port	271513
	Clock	275313
	Central sound system	275123
Electronic Safety and Security:		
	Life safety devices per code	283111
Miscellaneous:		
	Interior windows (optional)	081113/088000

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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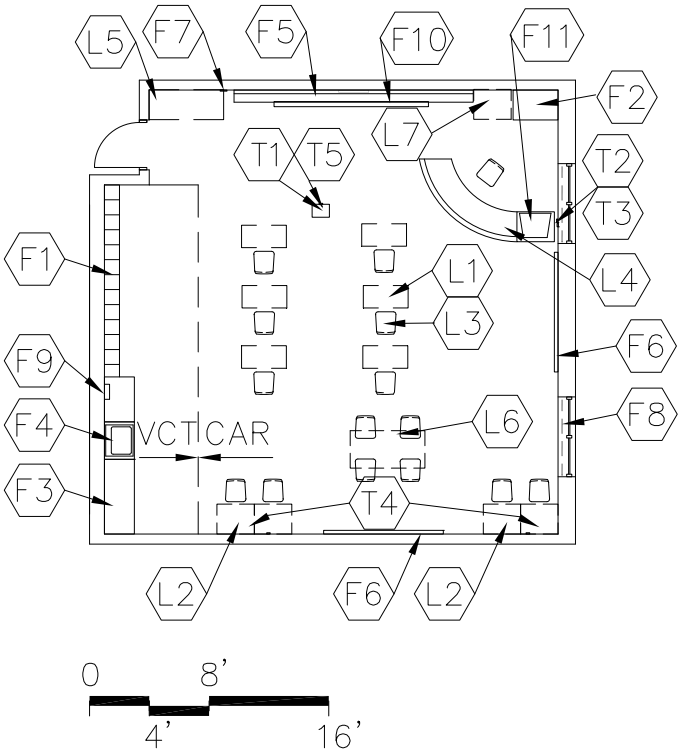


CAPACITY: Based on disability. See Chapter 1, Section 1110.

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:

- Uniform lighting
- Natural light opening equal to 5% minimum of floor area, with an operable vent
- Environmental sound control -
  wall minimum STC 50
  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

FINISHES[1]:	Spec. Ref.#
Flooring:	
Combination carpet	096816
with resilient options	096500
Optional: All vinyl composition tile, ***ET***, sheet vinyl, linoleum, or rubber	096516
Base:	
Resilient base	096500
Ceiling:	
Suspended, acoustical	095113
Walls:	
Painted concrete masonry units	042000/099100

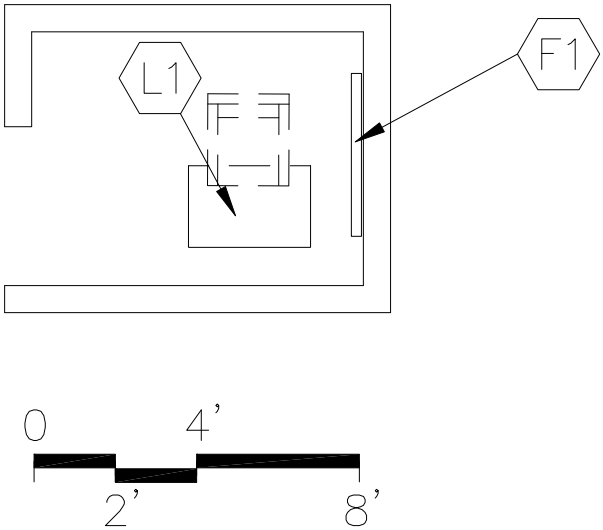
LOOSE FURNISHINGS:

L1 Student desks/tables
L2 Computer workstation furniture
L3 Student chairs
L4 Teacher workstations/computer support and chair
L5 8'-10' of low bookcases (fixed or mobile)
L6 Reading table
L7 File cabinet
Wastebasket
Pencil sharpener

FEATURES[1]:	Spec. Ref.#
Fixed Items:	
F1 Open casework – coats and personal items with wall cabinets above	123550
F2 3' of tall wardrobe w/file drawers	123550
F3 8'-10' of base & wall cabinets	123550
F4 3' sink base cabinet	123550
F5 12'-16' of chalk/marker board	101100
F6 12'-16' of tack board or tackable wall surface or combination	101100
F7 Pencil sharpener support	062000
F8 Windows with integral blinds	085113
F9 Towel dispenser (optional)	102813
F10 Projection screen (optional)	115213
F11 Technology support casework	123550
Fire Suppression:	
Fire suppression system	211000
Plumbing:	
Sink with drinking fountain	224000
Plumbing connections	224000/221116/221119
HVAC:	
Supply/return air system	Div. 23
Independent temperature control	230923
Electrical:	
Fluorescent lighting	265100
Illumination level: See Table 8600-4	
Multilevel switching	262726
4 duplex receptacles	262726
Double duplex receptacle adjacent to each data and video port	262726
Communications:	
T1 1 video port	271533/271543
T2 1 voice port and phone	271513/273113
T3 1 data port near teacher workstation	271513
T4 4 data ports (minimum) for student use	271513
Clock	275313
Sound reinforcement system	275127
Central sound system	275123
T5 Overhead projector	274119
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. Technology components may be placed in a separate small cabinet, or integrated in the other casework in the room.



CAPACITY: 1 - 2 persons
SIZE: 150 SF

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:

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

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)

FINISHES[1]:	Spec. Ref.#
Flooring:	
Carpet, VCT, ***ET***, linoleum, or sheet vinyl	096816 096500 096516
Base:	
Resilient base	096500
Ceiling:	
Suspended, acoustical	095113
Walls:	
Painted concrete masonry units	042000/099100

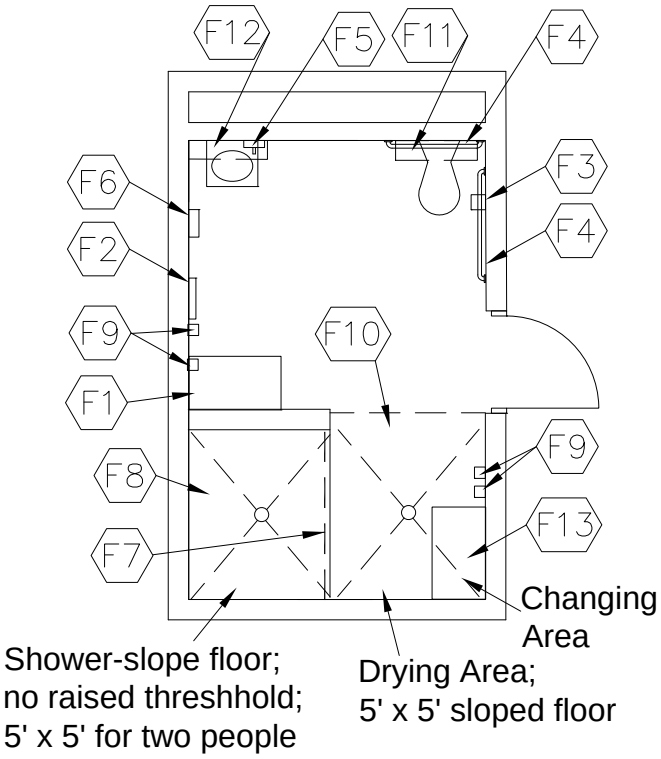
LOOSE FURNISHINGS:

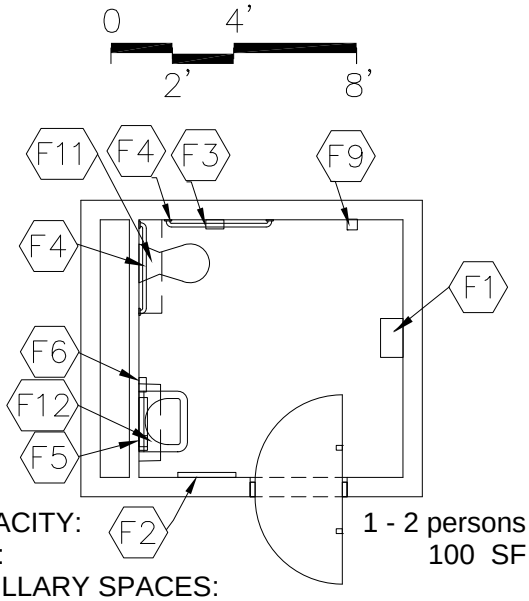
L1 Student desk and chair
Wastebasket

FEATURES[1]:	Spec. Ref.#
Fixed Items:	
F1 4' of tack board (optional)	101100
Fire Suppression:	
Fire suppression system	211000
Plumbing:	
N/A	
HVAC:	
Supply/return air system	Div. 23
Independent temperature control	230923
Electrical:	
Dimmable lighting	262726
Fluorescent lighting	265100
Illumination level: See Table 8600-4	
1 duplex receptacle	262726
Communications:	
Clock (optional)	275313
Electronic Safety and Security:	
Life safety devices per code	283111
Miscellaneous:	
Interior window with blinds (optional)	081113/088000

NOTES:

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





CAPACITY: 1 - 2 persons
SIZE: 100 SF
ANCILLARY SPACES:

PROGRAM ACTIVITIES:
- Changing area
- Toilet / shower needs

SPATIAL RELATIONSHIPS:
- Next to self-contained classroom

ENVIRONMENTAL CONSIDERATIONS:
- Uniform lighting
- 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

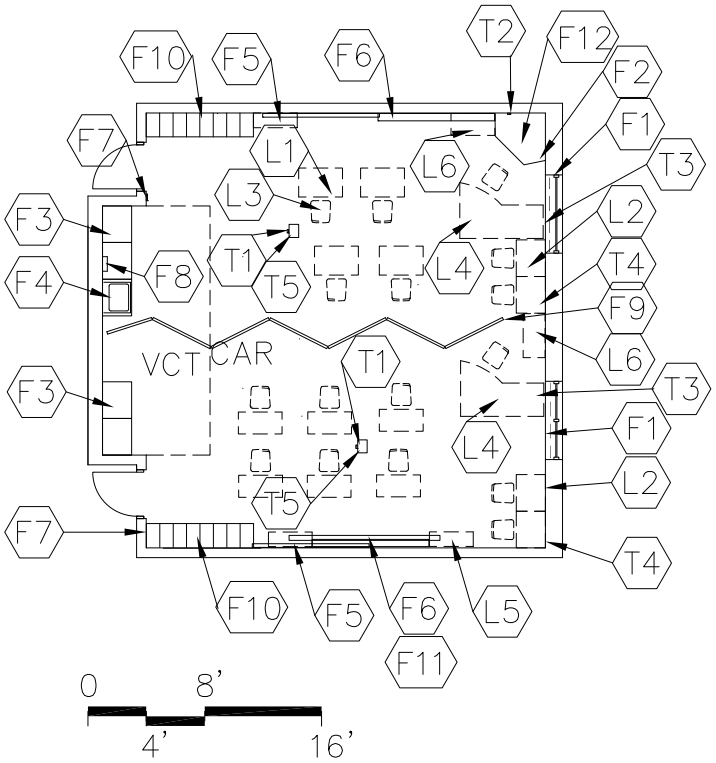
M-SE-3

FINISHES[1]:	Spec. Ref.#
Flooring:	
Restroom: Linoleum, ***ET***, vinyl	096516
Sheet, rubber sheet flooring	096500
Shower: Ceramic mosaic tile,	093000
or porcelain tile,	
Base:	
Restroom: Resilient base, or	096500
integral vinyl cove base	
Shower: Ceramic mosaic tile base,	093000
porcelain tile, or integral vinyl cove base	
Ceiling:	
Restroom: Suspended, acoustical	095113
Shower: Painted portland	
cement plaster or	092400/099100
interior finish system	092513
Walls:	
Epoxy painted concrete	
masonry units	042000/099100
or ceramic wall tile in shower	093000
and latex paint in restroom	099100
LOOSE FURNISHINGS:	
Wastebasket	

FEATURES[1]:	Spec. Ref.#
Fixed Items:	
F1 Base cabinets	123550
F2 24" x 60" mirror	102813
F3 Toilet tissue holder	102813
F4 36" and 42" grab bar	102813
F5 Soap dispenser	102813
F6 Towel dispenser	102813
F7 Shower curtain and rod	102813
F8 ADA shower accessories	102813
F9 (2) towel hooks	102813
F10 Cubicle curtain	102813
F11 8" deep wall cabinet above toilet	102813
F12 Shelf (optional)	102813
F13 Changing station	***123550***
Fire Suppression:	
Fire suppression system	283111
Plumbing:	
Wall-mounted water closet	224000
Wall-mounted lavatory	224000
ADA shower controls and head	224000
Plumbing connections	224000/221116/221119
HVAC:	
Exhaust air system	Div. 23
Supplemental heat as required	Div. 23
Electrical:	
Single level switching	262726
Fluorescent lighting	265100
Illumination level: See Table 8600-4	
1 duplex receptacle	262726
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. ***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:

- Uniform lighting
- Natural light opening equal to minimum 5% of floor area, with an operable vent
- Environmental sound control –
  wall minimum STC 50
  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

FINISHES[1]:	Spec. Ref.#
Flooring:	
Combination carpet	096816
with resilient options	096500
Option: All vinyl composition tile, ***ET***, sheet vinyl, linoleum, or rubber	096516
Base:	
Resilient base	096500
Ceiling:	
Suspended, acoustical	095113
Walls:	
Painted concrete masonry units	042000/099100

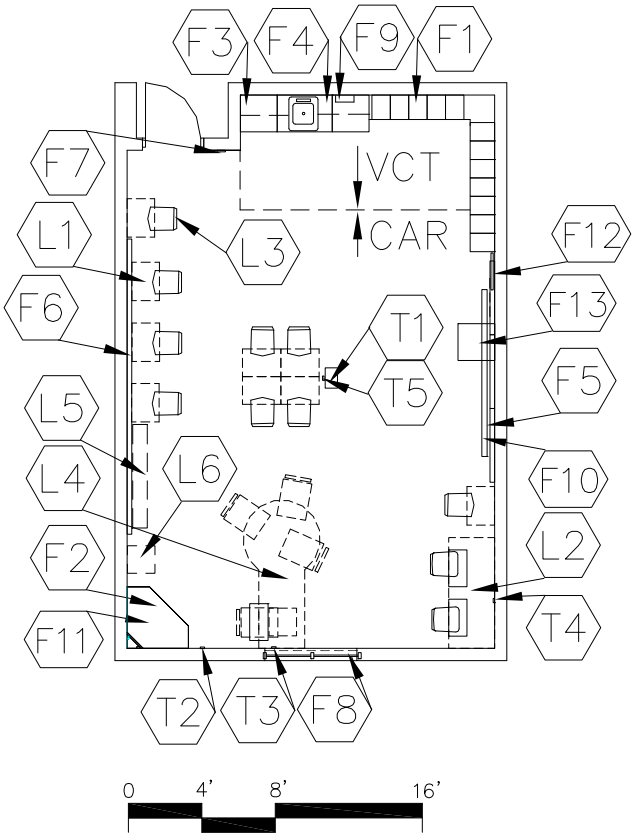
LOOSE FURNISHINGS:

L1 Student desks/tables
L2 Computer workstation furniture
L3 Student chairs
L4 Teacher desk / computer support and chair
L5 Mobile bookcases or storage unit
L6 File cabinet
Wastebasket
Pencil sharpener

FEATURES[1]:	Spec. Ref.#
Fixed Items:	
F1 Windows with integral blinds	085113
F2 3' of tall wardrobe with file drawers	123550
F3 8'-12' of base cabinets	123550
F4 3' sink base cabinet	123550
F5 10'-16' of chalk/marker board	101100
F6 10'-16' of tack board or tackable wall surface or combination	101100
F7 Pencil sharpener support	062000
F8 Towel dispenser (optional)	102813
F9 Operable partition (optional)	102226
F10 Open casework coats and personal storage w/wall cabinets above	123550
F11 Projection screen (optional)	115213
F12 Technology support casework	123550
F13 Mirror (optional)	102813
F14 Mobile storage cabinet (optional)	123550
Fire Suppression:	
Fire suppression system	211000
Plumbing:	
Sink	224000
Plumbing connections	224000/221116/221119
HVAC:	
Supply/return air system	Div. 23
Independent temp control	230923
Electrical:	
Fluorescent lighting	265100
Illumination level: See Table 8600-4	
Multilevel switching	262726
4 duplex receptacles	262726
Double duplex receptacle adjacent to each data and video port	262726
Communications:	
T1 1 video port	271533/271543
T2 1 voice port and phone	271513/273113
T3 1 data port near each teacher workstation	271513
T4 4 data ports (minimum) for student use	271513
Clock	275313
Sound reinforcement system	275127
Central sound system	275123
T5 Overhead projector	274119
Electronic Safety and Security:	
Life safety devices per code	283111

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.



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:

- Uniform lighting
- Natural light opening equal to minimum 5% of floor area, with an operable vent
- Environmental sound control -
  wall minimum STC 50
  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) CHAPTER 5: MIDDLE SCHOOL

FINISHES[1]:	Spec. Ref.#
Flooring:	
Combination carpet	096816
with resilient options	096516
Option: All vinyl composition tile	096500
ET, sheet vinyl, linoleum or rubber	
Base:	
Resilient base	096500
Ceiling:	
Suspended, acoustical	095113
Walls:	
Painted concrete masonry units	042000/099100

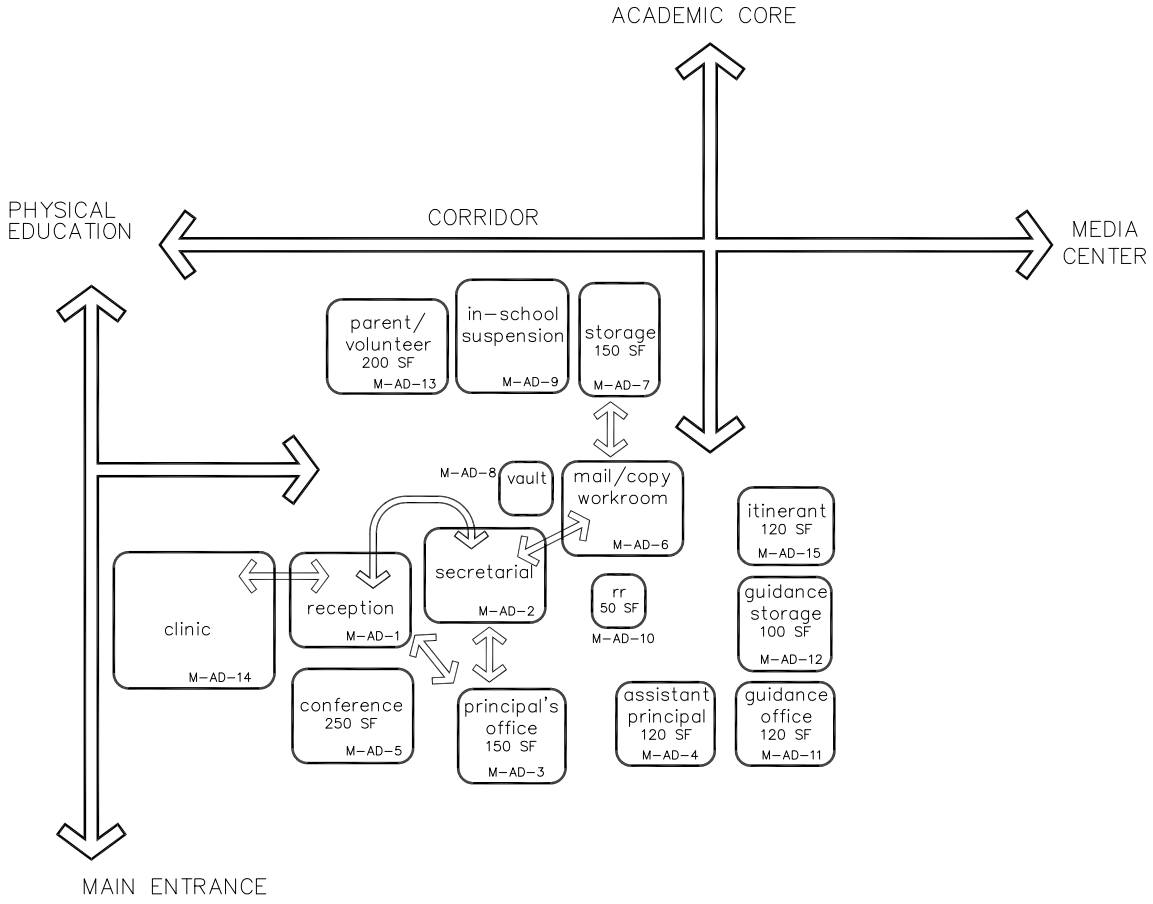
LOOSE FURNISHINGS:

L1 Student desks/tables
L2 Computer workstation furniture
L3 Student chairs
L4 Teacher workstations/computer support and chair
L5 6' of low bookcases (fixed or mobile)
Wastebasket
Pencil sharpener

FEATURES[1]:		Spec. Ref.#
Fixed Items:		
F1	Open casework – coats and personal items with wall cabinets above	123550
F2	3' of tall wardrobe w/file drawers	123550
F3	About 6' of base & wall cabinets	123550
F4	3' sink base cabinet	123550
F5	10'-12' of chalk/marker board	101100
F6	10'-16' of tack board or tackable wall surface or combination	101100
F7	Pencil sharpener support	062000
F8	Windows with integral blinds	085113
F9	Towel dispenser (optional)	102813
F10	Projection screen (optional)	115213
F11	Technology support casework	123550
F12	Mirror (optional)	102813
F13	Mobile storage cabinet (optional)	123550
Fire Suppression:		
	Fire suppression system	211000
Plumbing:		
	Sink with drinking fountain	224000
	Plumbing connections	224000/221116/221119
HVAC:		
	Supply/return air system	Div. 23
	Independent temperature control	230923
Electrical:		
	Fluorescent lighting	265100
	Illumination level: See Table 8600-4	
	Multilevel switching	262726
	4 duplex receptacles	262726
	Double duplex receptacle adjacent to each data and video port	262726
Communications:		
T1	1 video port	271533/271543
T2	1 voice port and phone	271513/273113
T3	1 data port near teacher workstation	271513
T4	2 data ports (minimum) for student use	271513
	Clock	275313
	Central sound system	275123
	Sound reinforcement system	275127
T5	Overhead projector	274119
Electronic Safety and Security:		
	Life safety device pre code	283111
Miscellaneous:		
	N/A	

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.



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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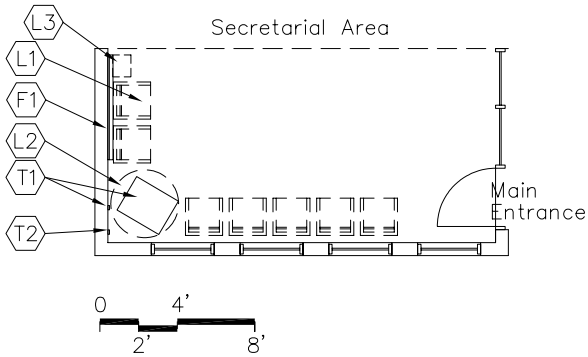
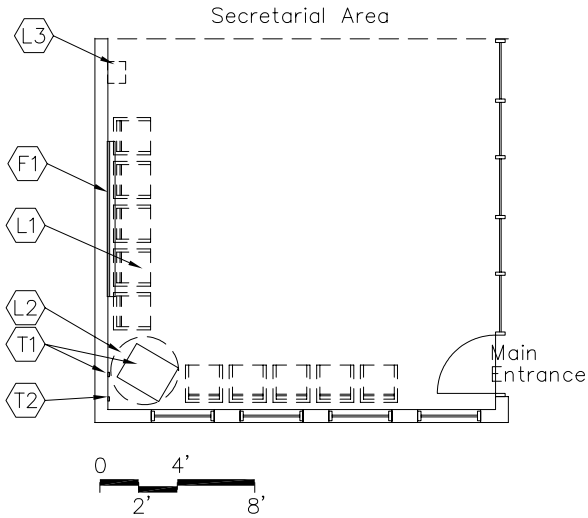
200 SF



400 SF



CAPACITY: 6 - 8 or 8 - 10 visitors
SIZE: 200 - 400 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:
- Uniform lighting
- 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

FINISHES[1]:	Spec. Ref.#
Flooring:	
Carpet ***or Carpet Tile***	096816 ***096813***
Base:	
Resilient base	096500
Ceiling:	
Suspended, acoustical	095113
Walls:	
Painted gypsum wallboard over metal studs	***092116***/099100

LOOSE FURNISHINGS:

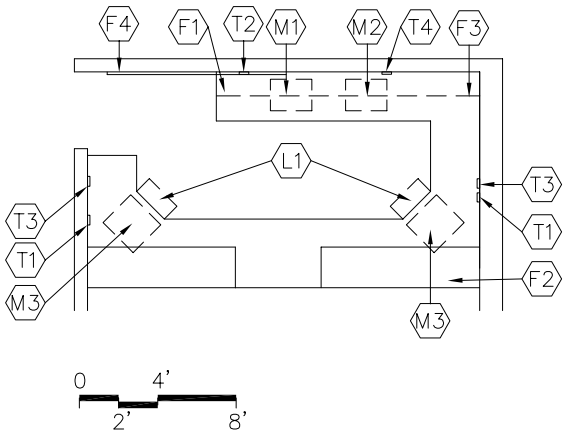
L1 Visitor chairs
L2 End table
L3 Racks for forms (optional)
Wastebasket

FEATURES[1]:	Spec. Ref.#
Fixed Items:	
F1 Tack board or tackable wall surface (optional)	101100
Fire Suppression:	
Fire suppression system	211000
Plumbing:	
N/A	
HVAC:	
Supply/return air system	Div. 23
Independent temperature control	230923
Electrical:	
Single level switching	262726
Fluorescent lighting	265100
Illumination level: See Table 8600-4	
2 duplex receptacles	262726
Double duplex receptacle adjacent to video port	262726
Means of egress lighting per code	265100
Communications:	
T1 1 video port, monitor, and brackets	271533/271543/274119
T2 1 voice port and phone	271513/273113
Clock	275313
Central sound system	275123
Electronic Safety and Security:	
Life safety devices per code	283111
Miscellaneous:	
Interior windows	081113/088000

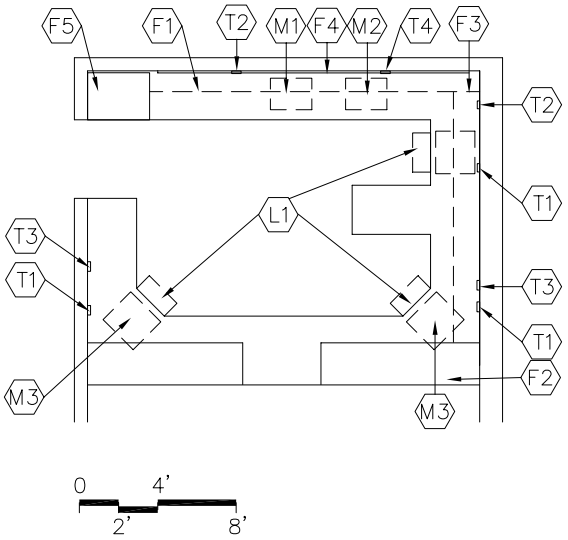
NOTES:

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 - 400 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:

- Uniform lighting
- 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

FINISHES[1]:	Spec. Ref.#
Flooring:	
Carpet ***or Carpet Tile***	096816
	096813
Base:	
Resilient base	096500
Ceiling:	
Suspended, acoustical	095113
Walls:	
Painted gypsum wallboard over metal studs	***092116***/099100

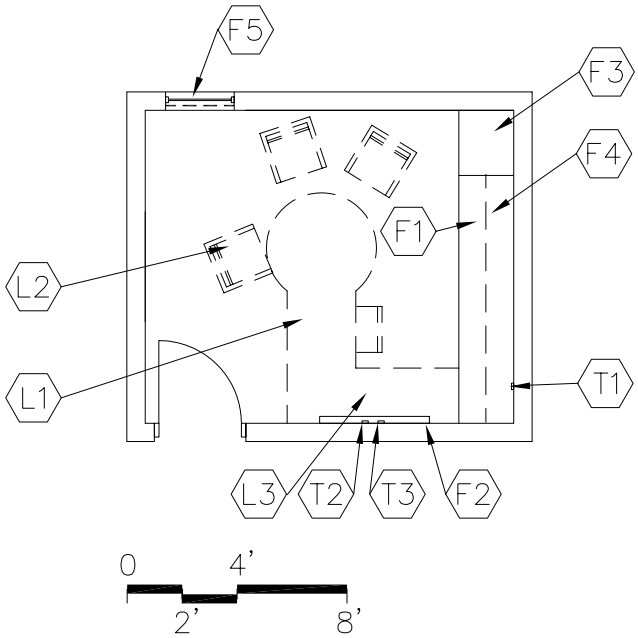
LOOSE FURNISHINGS:
L1 Secretarial chairs
Wastebasket

Miscellaneous:
The following items are to be funded by the school district:
M1 Fax machine
M2 Printer
M3 Computer/typewriter

FEATURES[1]:	Spec. Ref.#
Fixed Items[2]:	
F1 24' - 60' of work surface with file drawers	123550
F2 42" high counter top with portion of counter 34" high or lower	123550
F3 16'-24' of wall cabinets for forms, supplies, books, and manuals	123550
F4 Tackable wall surface (optional)	101100
F5 Tall cabinet for coats (optional)	123550
Fire Suppression:	
Fire suppression system	211000
Plumbing:	
N/A	
HVAC:	
Supply/return air system	Div. 23
Temperature control with reception area (coupled with similarly loaded adjacent spaces)	230923
Electrical:	
Single level switching	262726
Fluorescent lighting	265100
Illumination level: See Table 8600-4	
3 duplex receptacles	262726
Double duplex receptacle adjacent to each data port	262726
Emergency lighting	265100
Communications:	
T1 1 voice port and phone at each secretarial workstation	271513/273113
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
Electronic Safety and Security:	
Life safety devices per code	283111

NOTES:

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



CAPACITY: 1 - 4 persons
SIZE: 150 SF

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:

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

NOTES:

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

PRINCIPAL'S OFFICE

M-AD-3

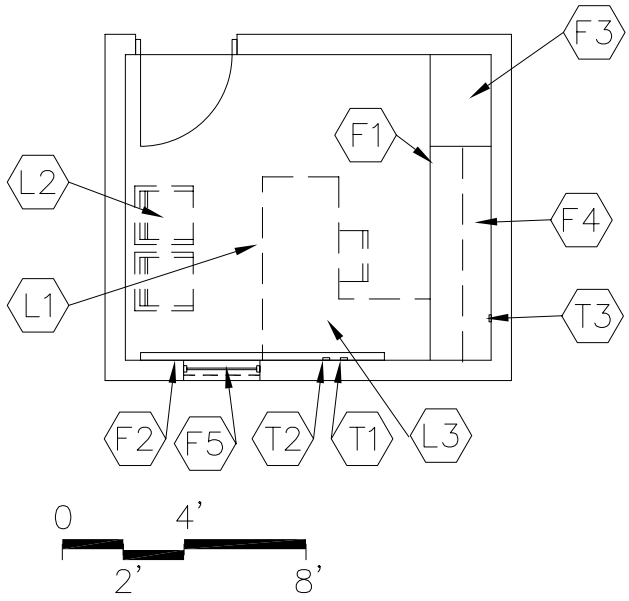
FINISHES[1]:	Spec. Ref.#
Flooring:	
Carpet ***or Carpet Tile***	096816
	096813
Base:	
Resilient base	096500
Ceiling:	
Suspended, acoustical	095113
Walls:	
Painted gypsum wallboard over metal studs	***092116***/099100

LOOSE FURNISHINGS:

L1 Desk and chair
L2 Visitor chairs
L3 Computer desk return
Wastebasket

FEATURES[1]:	Spec. Ref.#
Fixed Items:	
F1 Work surface with file drawers	123550
F2 4' of tack board or tackable wall surface	101100
F3 2' of tall wardrobe (optional)	123550
F4 Wall cabinets above work surface	123550
F5 Window with integral blinds	***085113***
Fire Suppression:	
Fire suppression system	211000
Plumbing:	
N/A	
HVAC:	
Supply/return air system	Div. 23
Independent temperature control (coupled with similarly loaded adjacent spaces)	230923
Electrical:	
Single level switching	262726
Fluorescent lighting	265100
Illumination level: See Table 8600-4	
4 duplex receptacles	262726
Double duplex receptacle adjacent to each data and video port	262726
Communications:	
T1 1 video port	271533/271543
T2 1 voice port and phone	271513/273113
T3 1 data port near workstation	271513
Central sound system	275123
Clock	275313
Electronic Safety and Security:	
Life safety devices per code	283111
Miscellaneous:	
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.



CAPACITY: 1 - 3 persons
SIZE: 120 SF

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:
- Uniform lighting
- Environmental sound control -
  wall minimum STC ***45***
  ceiling minimum CAC 35, NRC ***0.70***

NOTES:

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

ASSISTANT PRINCIPAL'S OFFICE

M-AD-4

FINISHES[1]:	Spec. Ref.#
Flooring:	
Carpet ***or Carpet Tile***	096816
	096813
Base:	
Resilient base	096500
Ceiling:	
Suspended, acoustical	095113
Walls:	
Painted gypsum wallboard over metal studs	***092116***/099100

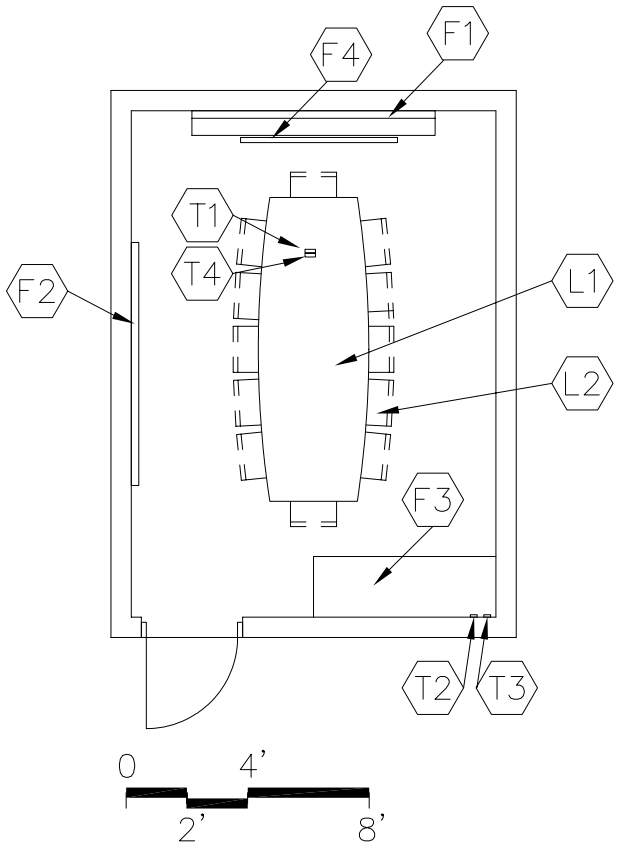
LOOSE FURNISHINGS:

L1 Desk and chair
L2 Visitor chairs
L3 Computer desk return
Wastebasket

FEATURES[1]:	Spec. Ref.#
Fixed Items:	
F1 Work surface with file drawers	123550
F2 4' of tack board or tackable wall surface	101100
F3 2' of tall wardrobe	123550
F4 Wall cabinets above work surface	123550
F5 Window with integral blinds	***085113***
Fire Suppression:	
Fire suppression system	211000
Plumbing:	
N/A	
HVAC:	
Supply/return air system	Div. 23
Independent temperature control (coupled with similarly loaded adjacent spaces)	230923
Electrical:	
Single level switching	262726
Fluorescent lighting	265100
Illumination level: See Table 8600-4	
4 duplex receptacles	262726
Double duplex receptacle adjacent to data and video port	262726
Communications:	
T1 1 voice port and phone	271513/273113
T2 1 data port near workstation	271513
T3 1 video port	271533/271543
Central sound system	275123
Clock	275313
Electronic Safety and Security:	
Life safety devices per code	283111
Miscellaneous:	
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.



CAPACITY: 12 – 15 persons
SIZE: 250 SF

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:
- Uniform lighting
- 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.

CONFERENCE ROOM
M-AD-5

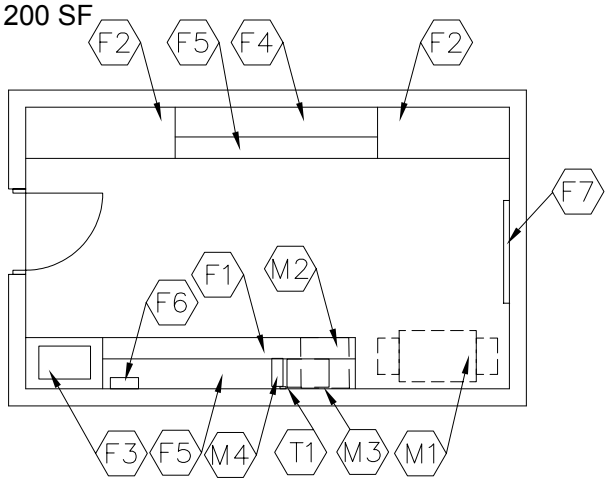
FINISHES[1]:	Spec. Ref.#
Flooring:	
Carpet ***or Carpet Tile***	096816
	096813
Base:	
Resilient base	096500
Ceiling:	
Suspended, acoustical	095113
Walls:	
Painted gypsum wallboard over metal studs	***092116***/099100

LOOSE FURNISHINGS:
L1 Conference table
L2 Chairs
Wastebasket

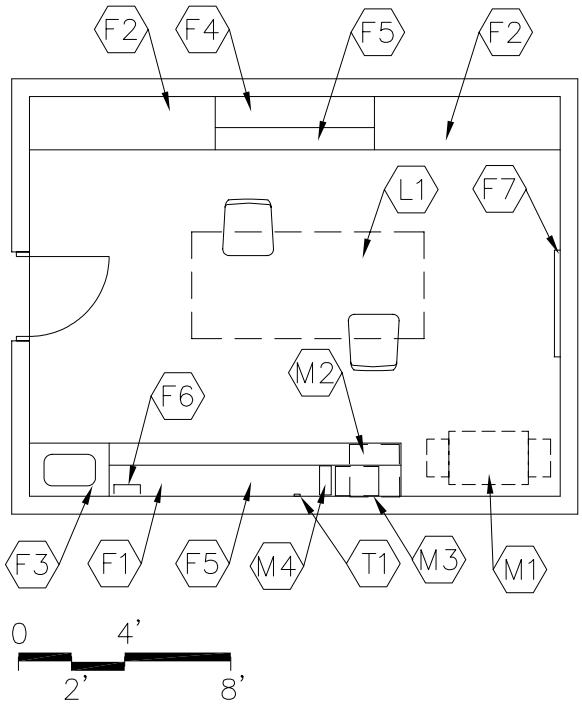
FEATURES[1]:	Spec. Ref.#
Fixed Items:	
F1 About 8' of chalk/marker board	101100
F2 About 8' of tack board or tackable wall surface	101100
F3 4'-6' of base cabinets (optional)	123550
F4 Projection screen (optional)	115213
Fire Suppression:	
Fire suppression system	211000
Plumbing:	
N/A	
HVAC:	
Supply/return air system	Div. 23
Independent temperature control	230923
Electrical:	
Multilevel switching	262726
Fluorescent lighting	265100
Illumination level: See Table 8600-4	
3 duplex receptacles	262726
Double duplex receptacle adjacent to each data and video port	262726
Communications:	
T1 1 video port	271533/271543
T2 1 voice port and phone	271513/273113
T3 1 data port	271513
Clock	275313
Central sound system	275123
T4 Overhead projector	274119
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. Fixed casework and loose furnishings can also be all fixed casework or all loose furnishings.

200 SF



300 SF



CAPACITY: N/A
SIZE: 200 - 300 SF

PROGRAM ACTIVITIES:

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

SPATIAL RELATIONSHIPS:

- Near secretarial area

ENVIRONMENTAL CONSIDERATIONS:

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

NOTES:

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

MAIL/WORK/COPY ROOM

M-AD-6

FINISHES[1]:	Spec. Ref.#
Flooring:	
Vinyl composition tile	096500
Base:	
Resilient base	096500
Ceiling:	
Suspended, acoustical	095113
Walls:	
Painted gypsum wallboard over metal studs	***092116***/099100

LOOSE FURNISHINGS:

L1 Work table and chairs (applicable in 300 SF space only)
Wastebasket

FEATURES[1]:	Spec. Ref.#
Fixed Items:	
F1 About 10' of base & wall cabinets	123550
F2 8'-12' of tall storage cabinets or about 32' maximum of a combination storage cabinets	123550
F3 3' sink base cabinet	123550
F4 Mail cubicles for all staff	123200
F5 10'-12' of wall cabinets	123550
F6 Towel dispenser (optional)	102813
F7 4' tack board (optional)	101100
Fire Suppression:	
Fire suppression system	211000
Plumbing:	
Sink	224000
Plumbing connections	224000/221116/221119
HVAC:	
Supply/return air system	Div. 23
Independent temperature control	230923
Electrical:	
Single level switching	262726
Fluorescent lighting	265100
Illumination level: See Table 8600-4	
3 - 5 duplex receptacles	262726
Receptacle for copier	262726
Communications:	
T1 1 voice port and phone	271513/273113
Clock	275313
Central sound system	275123
Electronic Safety and Security:	
Life safety devices per code	283111

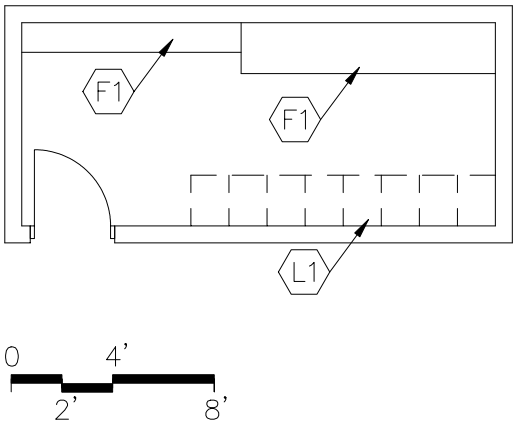
Miscellaneous:

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 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

FINISHES[1]:	Spec. Ref.#
Flooring:	
Vinyl composition tile	096500
Base:	
Resilient base	096500
Ceiling:	
Suspended, acoustical	095113
Walls:	
Painted gypsum wallboard over metal studs	***092116***/099100

LOOSE FURNISHINGS:

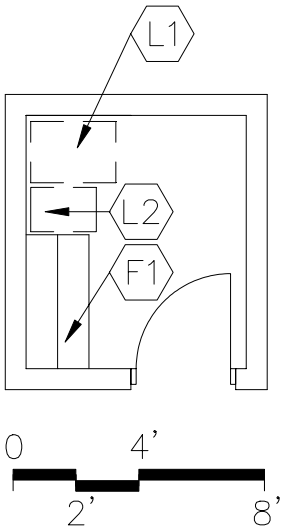
L1 File cabinets

FEATURES[1]:	Spec. Ref.#
Fixed Items:	
F1 10'-20' of open shelving, depth may vary	123550
Option: mobile storage shelving	105626
Fire Suppression:	
Fire suppression system	211000
Plumbing:	
N/A	
HVAC:	
To be determined by Design Professional	
Supplemental heat as required	Div. 23
Electrical:	
Single level switching	262726
Fluorescent lighting	265100
Illumination level: See Table 8600-4	
1 duplex receptacle	262726
Communications:	
N/A	
Electronic Safety and Security:	
N/A	
Miscellaneous:	
N/A	

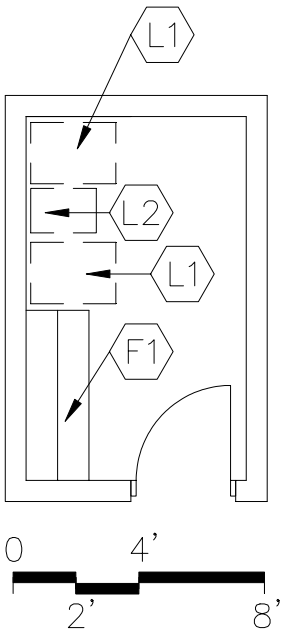
NOTES:

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

50 SF



80 SF



CAPACITY: N/A
SIZE: 50 - 80 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

FINISHES[1]:	Spec. Ref.#
Flooring:	
Vinyl composition tile	096500
Base:	
Resilient base	096500
Ceiling:	
Rated 2-hour construction	---
Walls:	
Rated 2-hour construction	
Painted concrete masonry units or	***042000***/099100
Painted gypsum wallboard over metal studs	***092116***/099100

LOOSE FURNISHINGS:

L1 File cabinet

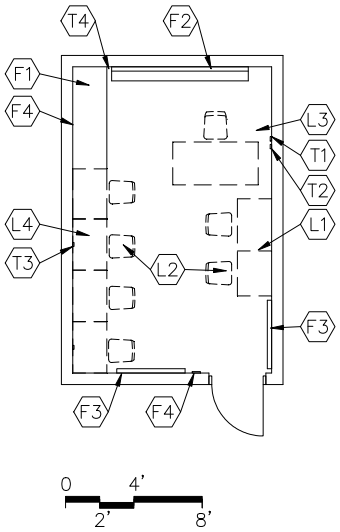
L2 Safe (loose or fixed)

FEATURES[1]:	Spec. Ref.#
Fixed Items:	
F1 3'-6' of open shelving, (depth may vary)(fixed or loose)	123550
Option: mobile storage shelving	105626
Fire Suppression:	
Fire suppression system	211000
Plumbing:	
N/A	
HVAC:	
To be determined by Design Professional	
Electrical:	
Single level switching	262726
Fluorescent lighting	265100
Illumination level: See Table 8600-4	
1 duplex receptacle	262726
Communications:	
N/A	
Electronic Safety and Security:	
N/A	
Miscellaneous:	
Wall, ceiling, and door construction to have a 2-hour fire rating	

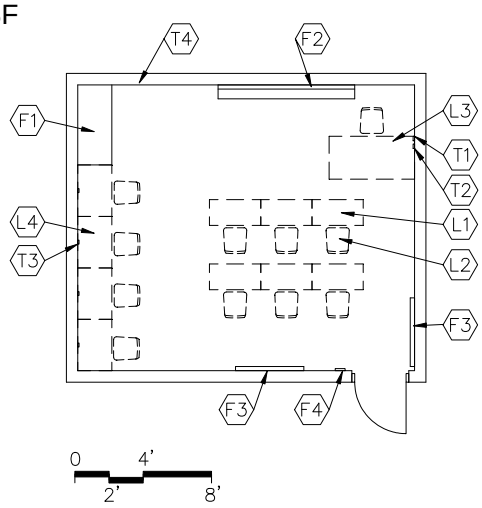
NOTES:

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

200 SF



325 SF



CAPACITY: 5 - 8 students
SIZE: 200 - 325 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:

- Uniform lighting
- 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.

IN-SCHOOL SUSPENSION
M-AD-9

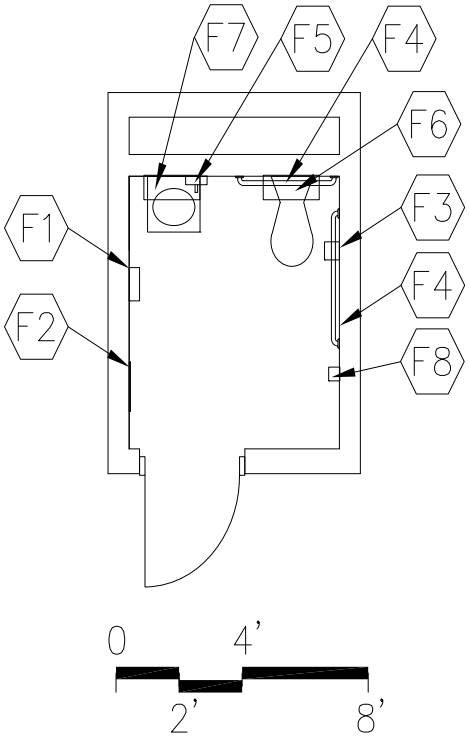
FINISHES[1]:	Spec. Ref.#
Flooring:	
Carpet, VCT, ***ET***, linoleum, rubber, or sheet vinyl	096816 096500 096516
Base:	
Resilient base	096500
Ceiling:	
Suspended, acoustical	095113
Walls:	
Painted concrete masonry units	042000/092113

LOOSE FURNISHINGS:
L1 Student carrels and/or desks
L2 Student chairs
L3 Teacher workstation and chair
L4 Computer workstation furniture
Wastebasket
Pencil sharpener

FEATURES[1]:	Spec. Ref.#
Fixed Items:	
F1 3'-4' of base cabinets (optional)	123550
F2 6'-8' of chalk/marker board	101100
F3 4'-8' of tack board	101100
F4 Pencil sharpener support	062000
Fire Suppression:	
Fire suppression system	211000
Plumbing:	
N/A	
HVAC:	
Supply/return air system	Div. 23
Independent temperature control	230923
Electrical:	
Single level switching	262726
Fluorescent lighting	265100
Illumination level: See Table 8600-4	
4 duplex receptacles	262726
Double duplex receptacle adjacent to each data and video port	262726
Communications:	
T1 1 voice port and phone	271513/273113
T2 1 data port near teacher workstation	271513
T3 2 data ports (minimum) for student use	271513
T4 1 video port	271533/271543
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.



CAPACITY: 1 person
SIZE: 50 SF

PROGRAM ACTIVITIES:
- Personal and health needs for teachers and staff
- Restroom facilities for clinic

SPATIAL RELATIONSHIPS:
- Located in the administrative area

ENVIRONMENTAL CONSIDERATIONS:
- Uniform lighting
- Environmental sound control -
  wall minimum STC ***48***
  ceiling minimum CAC 35**,** NRC ***0.70***
- Moisture- and stain-resistant finishes

NOTES:

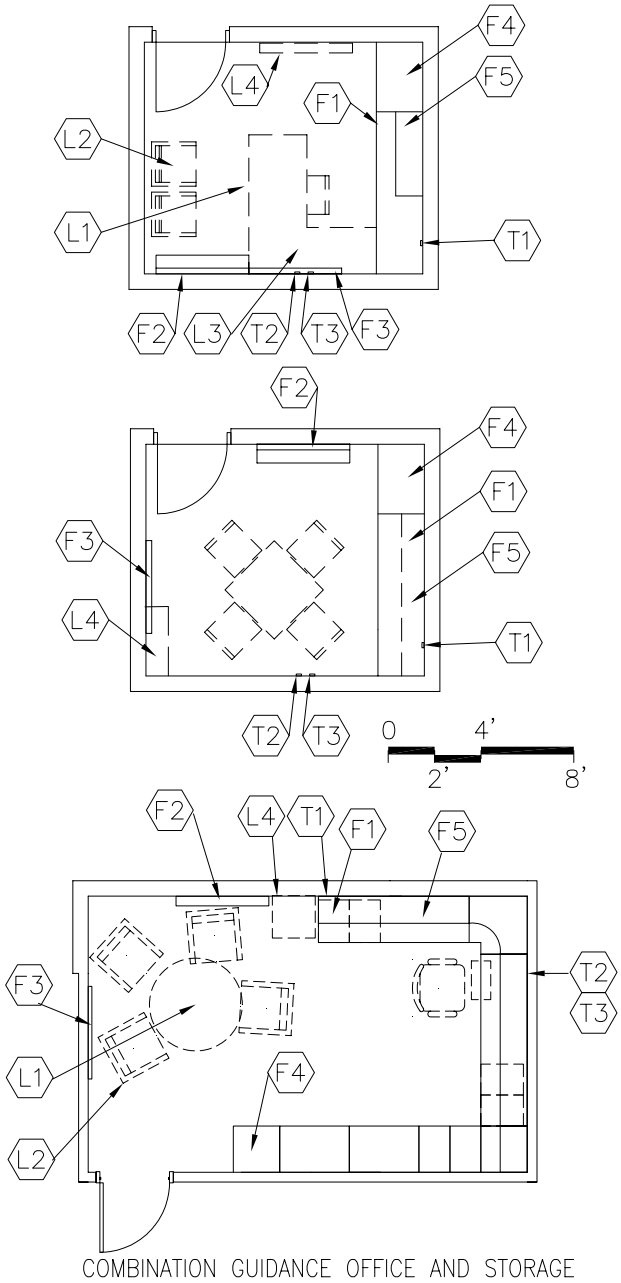
RESTROOM
M-AD-10

FINISHES[1]:	Spec. Ref.#
Flooring:	
ET, linoleum, rubber, or sheet vinyl	096516
	096500
Optional: ceramic mosaic tile,	093000
porcelain tile, or	096723
resinous flooring	
Base:	
Resilient base	096500
Optional: ceramic mosaic tile,	093000
porcelain tile, resinous flooring,	096723
or integral vinyl cove base	
Ceiling:	
Suspended, acoustical	095113
Walls:	
Painted concrete masonry units	042000/099100
Optional: moisture & abuse-resistant gypsum wall board	092116/099100
LOOSE FURNISHINGS:	
Wastebasket	

FEATURES[1]:	Spec. Ref.#
Fixed Items:	
F1 Towel dispenser	102813
F2 24" x 60" mirror	102813
F3 Toilet tissue holder	102813
F4 36" and 42" grab bar	102813
F5 Soap dispenser	102813
F6 8” deep wall cabinet above toilet for supplies (optional)	102813
F7 Stainless steel shelf (optional)	102813
F8 Coat hook	102813
Fire Suppression:	
Fire suppression system	211000
Plumbing:	
Wall-mounted water closet	224000
Wall-mounted lavatory	224000
Plumbing connections	224000/221116/221119
HVAC:	
Exhaust air system	Div. 23
Supplemental heat as required	Div. 23
Electrical:	
Single level switching	262726
Fluorescent lighting	265100
Illumination level: See Table 8600-4	
1 duplex receptacle	262726
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.



COMBINATION GUIDANCE OFFICE AND STORAGE

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:

- Uniform lighting
- 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

FINISHES[1]:	Spec. Ref.#
Flooring:	
Carpet ***or Carpet Tile***	096816
	096813
Base:	
Resilient base	096500
Ceiling:	
Suspended, acoustical	095113
Walls:	
Painted gypsum wallboard over metal studs	***092116***/099100

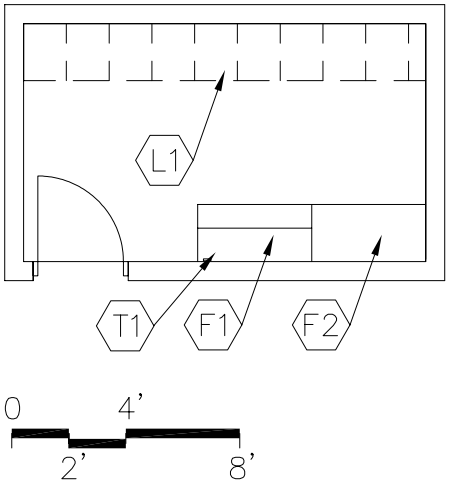
LOOSE FURNISHINGS:

L1 Desk or table, with chair
L2 Visitor chairs
L3 Computer desk return
L4 Bookcase (fixed or loose)
Wastebasket

FEATURES[1]:	Spec. Ref.#
Fixed Items:	
F1 Work surface with file drawers	123550
F2 4' of chalk/marker board (optional)	101100
F3 4' of tack board or tackable wall surface	101100
F4 Tall wardrobe	123550
F5 Wall cabinets	123550
Fire Suppression:	
Fire suppression system	211000
Plumbing:	
N/A	
HVAC:	
Supply/return air system	Div. 23
Independent temperature control (coupled with similarly loaded adjacent spaces)	230923
Electrical:	
Single level switching	262726
Fluorescent lighting	265100
Illumination level: See Table 8600-4	
4 duplex receptacles	262726
Double duplex receptacle adjacent to each data and video port	262726
Communications:	
T1 1 video port	271533/271543
T2 1 voice port and phone	271513/273113
T3 1 data port near workstation	271513
Central sound system	275123
Clock	275313
Electronic Safety and Security:	
Life safety devices per code	283111
Miscellaneous:	
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.



CAPACITY: N/A
SIZE: 100 SF

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

NOTES:

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

GUIDANCE RECORDS/STORAGE

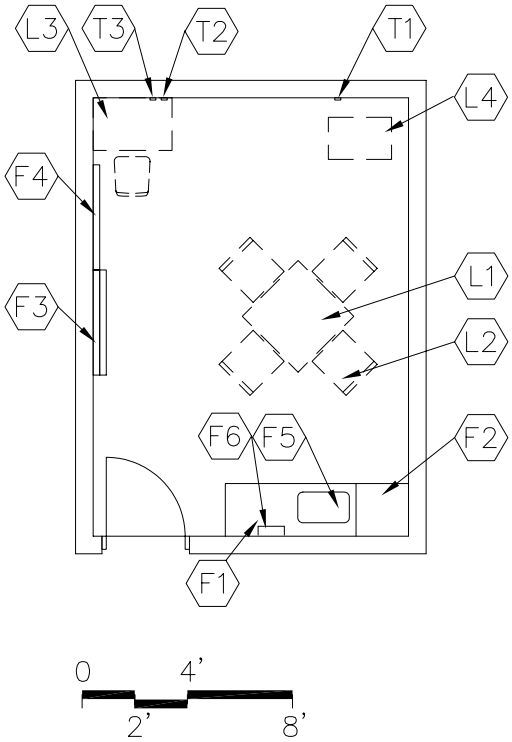
M-AD-12

FINISHES[1]:	Spec. Ref.#
Flooring:	
Vinyl composition tile	096500
Base:	
Resilient base	096500
Ceiling:	
Rated 2-hour construction	---
Walls:	
Rated 2-hour construction	
Painted gypsum wallboard over metal studs or	***092116***/099100
Painted concrete masonry units	***042000***/099100

LOOSE FURNISHINGS:
L1 File cabinets

FEATURES[1]:	Spec. Ref.#
Fixed Items:	
F1 3'-6' of base and wall cabinets	123550
F2 3'-4' of tall storage cabinets	123550
Option: mobile storage shelving	105626
Fire Suppression:	
Fire suppression system	211000
Plumbing:	
N/A	
HVAC:	
To be determined by Design Professional	
Electrical:	
Single level switching	262726
Fluorescent lighting	265100
Illumination level: See Table 8600-4	
1 duplex receptacle	262726
Communications:	
T1 1 data port (optional)	271513
Electronic Safety and Security:	
Life safety devices per code	283111
Miscellaneous:	
Wall, ceiling, and door construction to have a 2-hour fire rating	

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



CAPACITY: 2 - 8 persons
SIZE: 200 SF

PROGRAM ACTIVITIES:
- After school meetings, community, and small group meetings

SPATIAL RELATIONSHIPS:
- Near administrative area

ENVIRONMENTAL CONSIDERATIONS:
- Uniform lighting
- 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.

PARENT/VOLUNTEER ROOM
M-AD-13

FINISHES[1]:	Spec. Ref.#
Flooring:	
Carpet ***or Carpet Tile***	096816
	096813
Base:	
Resilient base	096500
Ceiling:	
Suspended, acoustical	095113
Walls:	
Painted gypsum wallboard over metal studs	***092116***/099100

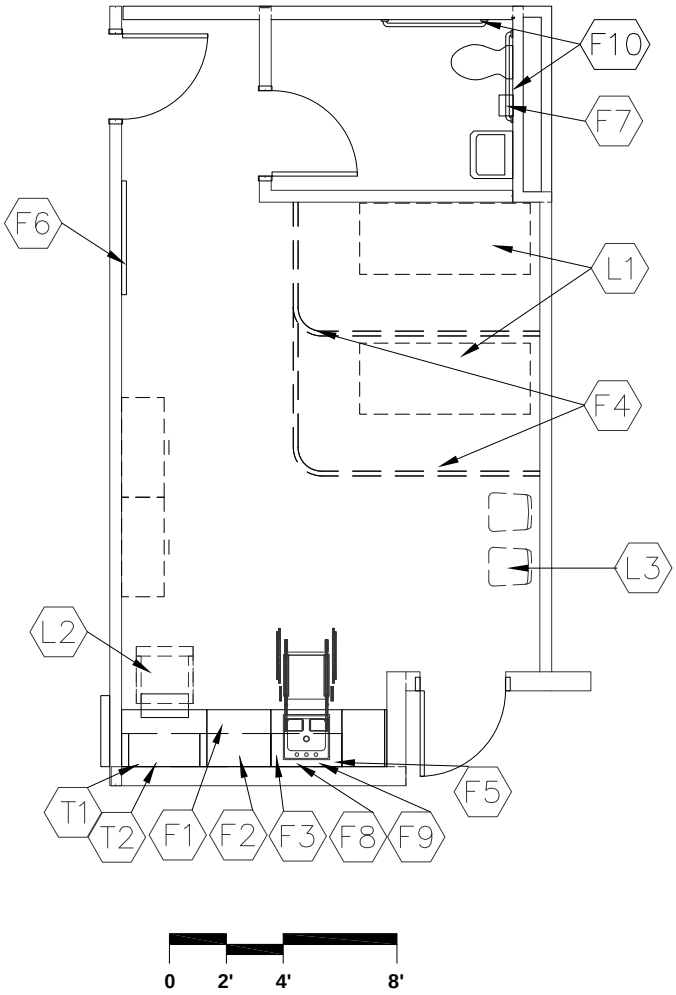
LOOSE FURNISHINGS:
L1 Table
L2 Chairs
L3 Computer workstation furniture
L4 Monitor cart
Wastebasket

FEATURES[1]:	Spec. Ref.#
Fixed Items:	
F1 About 3' of base cabinets	123550
F2 2' of tall wardrobe	123550
F3 4' of chalk/marker board (optional)	101100
F4 4' of tack board or tackable wall surface	101100
F5 3' Sink base cabinet	123550
F6 Towel dispenser	102813
Fire Suppression:	
Fire suppression system	211000
Plumbing:	
Sink	224000
Plumbing connections	224000/221116/221119
HVAC:	
Supply/return air system	Div. 23
Independent temperature control ***(coupled with similarly loaded adjacent spaces)***	230923
Electrical:	
Single level switching	262726
Fluorescent lighting	265100
Illumination level: See Table 8600-4	
4 duplex receptacles	262726
Double duplex receptacle adjacent to each data and video port	262726
Communications:	
T1 1 video port and video display device	271533/271543/274119
T2 1 voice port and phone	271513/273113
T3 1 data port near workstation	271513
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.

450 SF



CAPACITY: ***2 - 3*** patients
SIZE: ***Clinic…….240 - 390 SF***
Restroom……60 SF
ANCILLARY SPACES: ***Secretarial Area M-AD-2***

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:

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

NOTES:

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

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

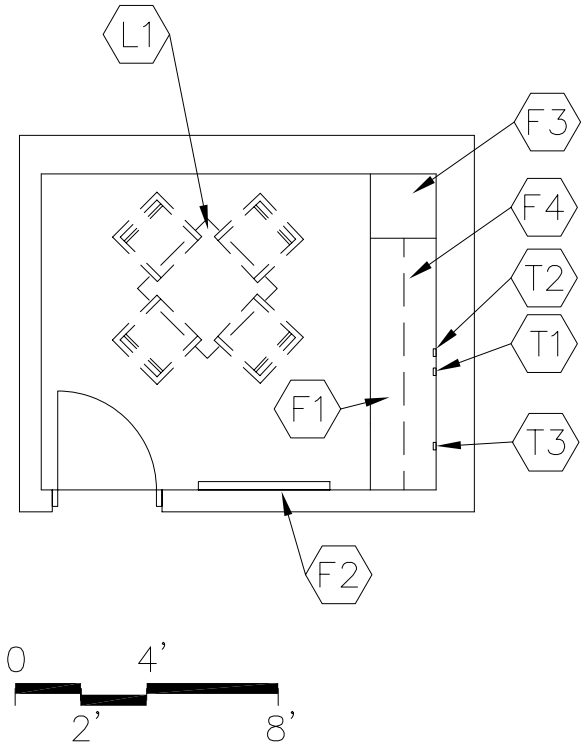
FINISHES[1]:	Spec. Ref.#
Flooring:	
Vinyl composition tile, linoleum,	096516
rubber, ***ET***, sheet vinyl, or	096500
resinous flooring	096723
Base:	
Resilient base, resinous flooring,	096500
or integral vinyl cover base	096730
Ceiling:	
Suspended, acoustical	095113
Walls:	
Painted gypsum wallboard over metal studs	092116/099100

LOOSE FURNISHINGS:
L1 Cots
L2 Desk and chair
L3 Chairs
Wastebasket

EQUIPMENT
E1 Refrigerator with ice making capabilities

FEATURES[1]:	Spec. Ref.#
Fixed Items:	
F1 4'-9' of base cabinets	123550
F2 3' sink base cabinet	123550
F3 4'-9' of wall cabinets, lockable	123550
F4 Cubicle curtain and track	102123
F5 Towel dispenser	102813
F6 4' of tack board	101100
F7 Sanitary napkin dispenser/disposal	***102813***
F8 Soap dispenser	***102813***
F9 24" x 60" mirror	***102813***
F10 36" and 42" grab bars	***102813***
Fire Suppression:	
Fire suppression system	211000
Plumbing:	
Sink ***- with goose neck***	224000
Plumbing connections	224000/221116/221119
HVAC:	
Supply/return air system	Div. 23
Independent temperature control	230923
Exhaust directly to exterior	
Electrical:	
Single level switching ***with dimmer***	262726
Fluorescent lighting	265100
Illumination level: See Table 8600-4	
2 duplex receptacles	262726
Double duplex receptacle adjacent to each data port	262726
Receptacle for refrigerator	262726
Emergency lighting	265100
Communications:	
T1 1 voice port and phone	271513/273113
T2 1 data port near workstation	271523
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.



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:

- Uniform lighting
- 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

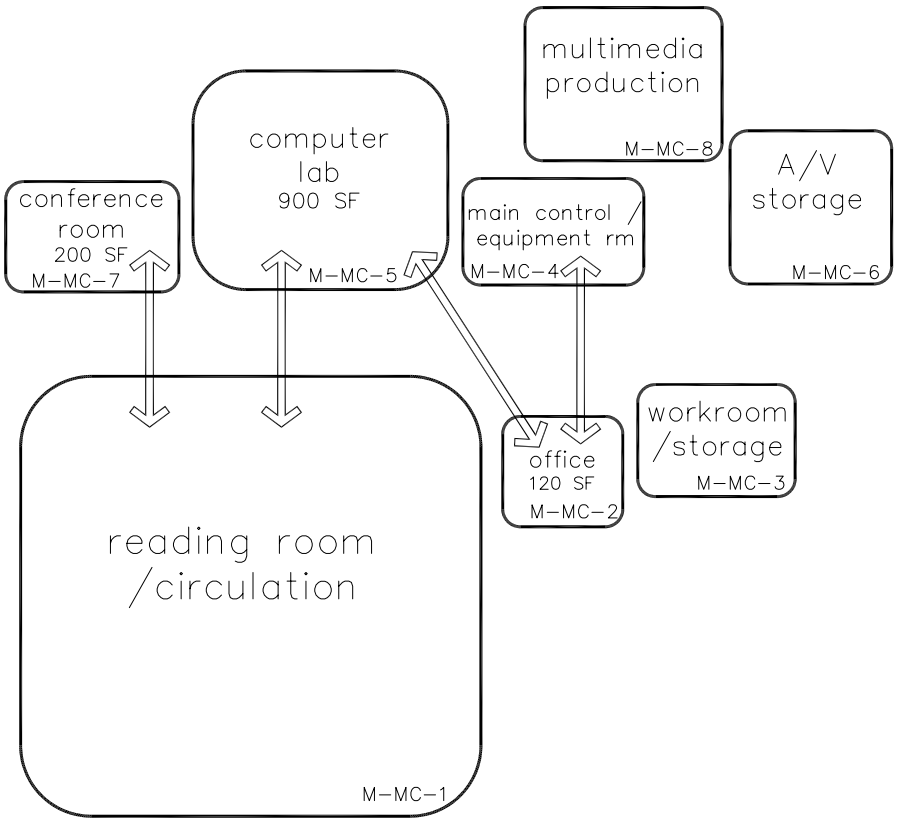
FINISHES[1]:	Spec. Ref.#
Flooring:	
Carpet ***or Carpet Tile***	096816
	096813
Base:	
Resilient base	096500
Ceiling:	
Suspended, acoustical	095113
Walls:	
Painted gypsum wallboard over metal studs	***092116***/099100

LOOSE FURNISHINGS:

L1 Table and chairs
Wastebasket

FEATURES[1]:	Spec. Ref.#
Fixed Items:	
F1 Work surface with file drawers(optional)	123550
F2 4' of tack board or tackable wall surface	101100
F3 2' of tall wardrobe (optional)	123550
F4 Wall cabinets	123550
Fire Suppression:	
Fire suppression system	211000
Plumbing:	
N/A	
HVAC:	
Supply/return air system	Div. 23
Independent temperature control (coupled with similarly loaded adjacent spaces)	230923
Electrical:	
Single level switching	262726
Fluorescent lighting	265100
Illumination level: See Table 8600-4	
4 duplex receptacles	262726
Double duplex receptacle adjacent to data and video port	262726
Communications:	
T1 1 voice port and phone	271513/273113
T2 1 data port	271513
T3 1 video port	271533/271543
Central sound system	275123
Clock	275313
Electronic Safety and Security:	
Life safety devices per code	283111
Miscellaneous:	
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 Computer Lab
- M-MC-6 A/V Storage
- M-MC-7 Conference Room
- M-MC-8 Multimedia Production Room

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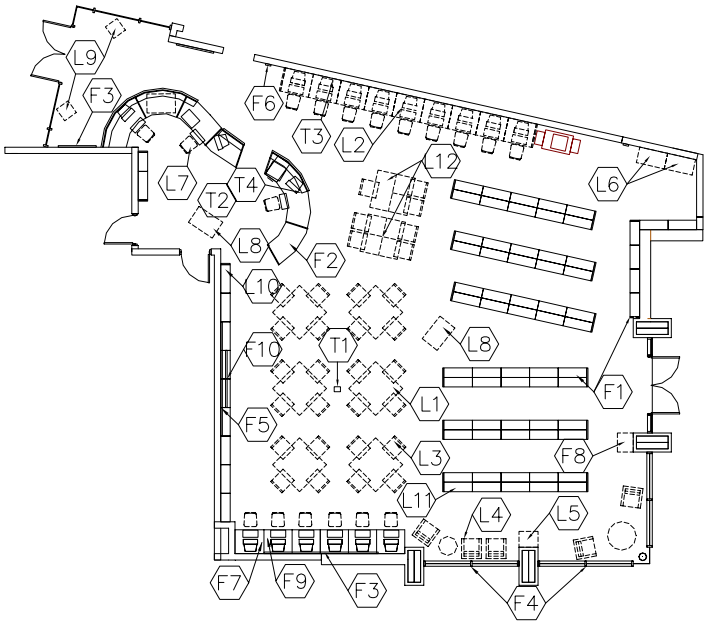


CAPACITY: 10% of student capacity
SIZE: 10% of student capacity multiplied by 35 SF per student

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:

- Uniform lighting
- Natural light opening with an operable vent
- Environmental sound control -
  wall minimum STC 50
  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

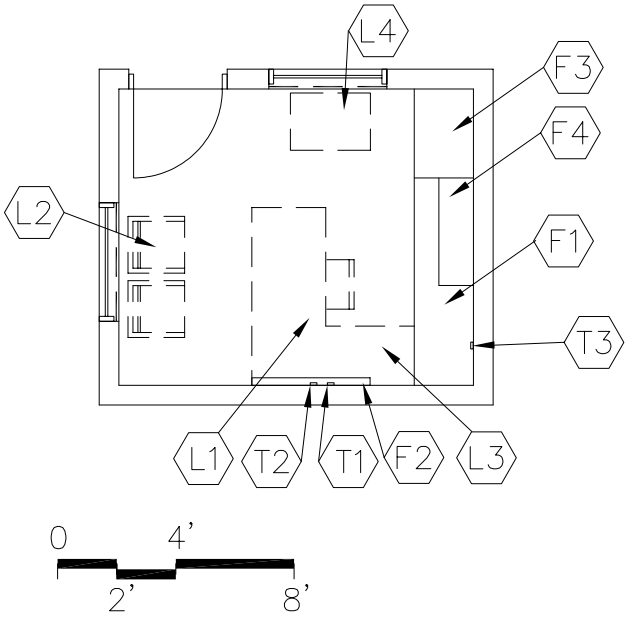
FINISHES[1]:	Spec. Ref.#
Flooring:	
Carpet or Carpet Tile	096816 096813
Base:	
Resilient base	096500
Ceiling:	
Suspended, acoustical	095113
Walls:	
Painted concrete masonry units	042000/099100
Acoustical wall treatment	098000

LOOSE FURNISHINGS:
- L1 Student tables
- L2 Computer workstation furniture
- L3 Student chairs
- L4 Casual seating/tables
- L5 Atlas stand/dictionary stand (optional)
- L6 Lateral file
- L7 Circulation desk task chair
- L8 Mobile book carts
- L9 Paperback book racks
- L10 Magazine display
- L11 Newspaper rack
- L12 Study carrels
- Wastebaskets
- Pencil sharpener (optional)

FEATURES[1]:	Spec. Ref.#
Fixed Items:	
F1 Library book shelving ***(see notes)***	115123
F2 Circulation desk casework	123550
F3 12'-16' of tack board or tackable wall surface	101100
F4 Windows with integral blinds	085113
F5 8'-16' of marker board (optional)	101100
F6 Pencil sharpener support	062000
F7 Computer workstations (could be loose)	123550
F8 Search terminal stations	123550
F9 Technology support casework	123550
F10 Projection screen (optional)	115213
Fire Suppression:	
Fire suppression system	211000
Plumbing:	
N/A	
HVAC:	
Supply/return air system	Div. 23
Independent temp control	230923
Electrical:	
Single level switching	262726
Fluorescent lighting	265100
Illumination level: See Table 8600-4	
8 duplex receptacles (minimum)	262726
Double duplex receptacle adjacent to each data and video port	262726
Emergency lighting per code	265100
Means of egress lighting per code	265100
Communications:	
T1 1 video port and video display device	271533/271543/274119
T2 1 voice port and phone	271513/273113
T3 4 data ports (minimum)	271513
T4 1 data port for media center automation system	271513
Clock	275313
Central sound system	275123
Electronic Safety and Security:	
Life safety devices per code	283111
Miscellaneous:	
Interior windows	081113/088000

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.***

MEDIA SPECIALIST OFFICE
M-MC-2



CAPACITY: 1 - 3 persons
SIZE: 120 SF

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:
- Uniform lighting
- Environmental sound control -
  wall minimum STC ***45***
  ceiling minimum CAC 35, NRC ***0.70***

NOTES:

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

MEDIA SPECIALIST OFFICE

M-MC-2

FINISHES[1]:	Spec. Ref.#
Flooring:	
Carpet ***or Carpet Tile***	096816
	096813
Base:	
Resilient base	096500
Ceiling:	
Suspended, acoustical	095113
Walls:	
Painted concrete masonry units	***042000***/099100

LOOSE FURNISHINGS:

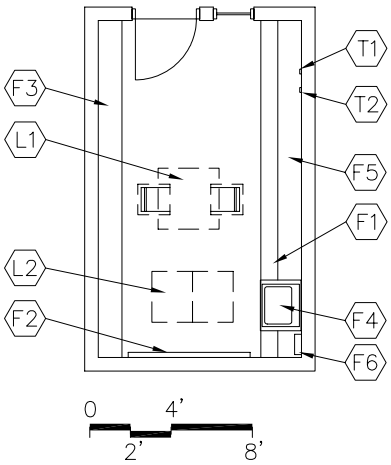
L1 Desk and chair
L2 Visitor chairs
L3 Computer desk return
L4 File cabinet
Wastebasket

FEATURES[1]:	Spec. Ref.#
Fixed Items:	
F1 Work surface with file drawers	123550
F2 4' of tack board or tackable wall surface	101100
F3 2' of tall wardrobe	123550
F4 Wall cabinets	123550
F5 Bookcases (optional)	123550
Fire Suppression:	
Fire suppression system	211000
Plumbing:	
N/A	
HVAC:	
Supply/return air system	Div. 23
Independent temperature control (coupled with similarly loaded adjacent spaces)	230923
Electrical:	
Single level switching	262726
Fluorescent lighting	265100
Illumination level: See Table 8600-4	
4 duplex receptacles	262726
Double duplex receptacle adjacent to data and video port	262726
Communications:	
T1 1 voice port and phone	271513/273113
T2 1 data port near workstation	271513
T3 1 video port	271533/271543
Central sound system	275123
Clock	275313
Electronic Safety and Security:	
Life safety devices per code	283111
Miscellaneous:	
Interior window	081113/088000

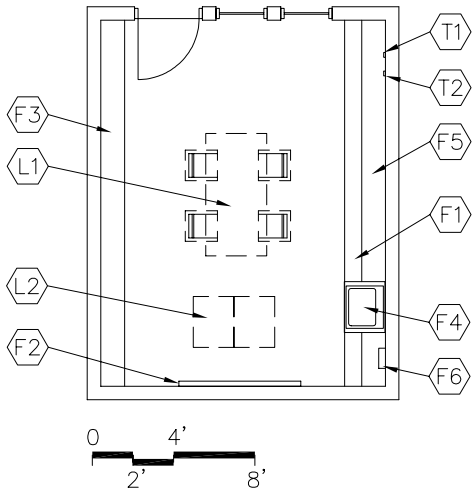
NOTES:

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 - 250 SF

PROGRAM ACTIVITIES:
- Receiving, processing, and repairing media material

SPATIAL RELATIONSHIPS:
- Near reading room/circulation
- Near media specialist office

ENVIRONMENTAL CONSIDERATIONS:
- Uniform lighting
- 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

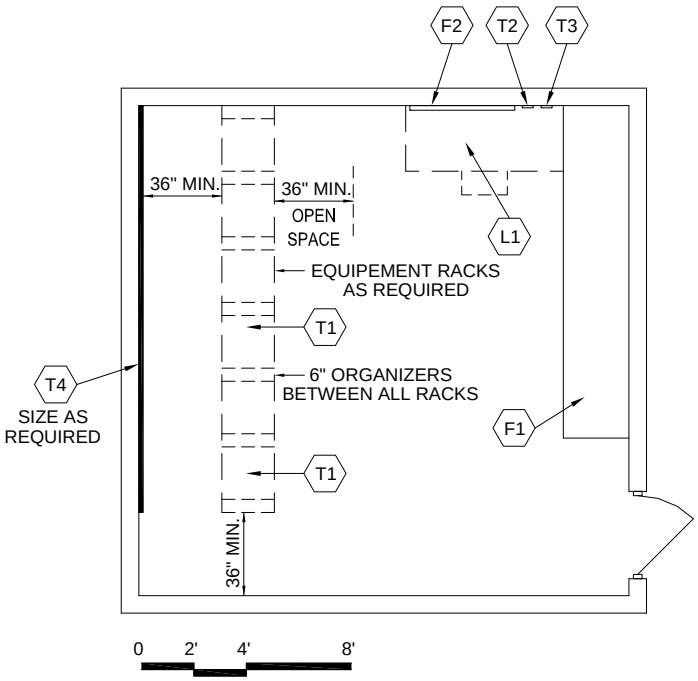
FINISHES[1]:	Spec. Ref.#
Flooring:	
Vinyl composition tile	096500
Base:	
Resilient base	096500
Ceiling:	
Suspended, acoustical	095113
Walls:	
Painted concrete masonry units	***042000***/099100

LOOSE FURNISHINGS:
L1 Table and chairs
L2 Book trucks
Wastebasket

FEATURES[1]:	Spec. Ref.#
Fixed Items[2]:	
F1 12' - 15' of base cabinets	123550
F2 4'-8' of tack board	101100
F3 10' - 18' of bookcases (optional)	123550
F4 3' sink base cabinet	123550
F5 8' - 19' of wall cabinets	123550
F6 Towel dispenser	102813
Fire Suppression:	
Fire suppression system	211000
Plumbing:	
Sink	224000
Plumbing connections	224000/221116/221119
HVAC:	
Supply/return air system	Div. 23
Independent temperature control	230923
Electrical:	
Single level switching	262726
Fluorescent lighting	265100
Illumination level: See Table 8600-4	
3 duplex receptacles (minimum)	262726
Double duplex receptacle adjacent to each data port	262726
Communications:	
T1 1 voice port and phone	271513/273113
T2 1 data port	271513
Clock	275313
Central sound system	275123
Electronic Safety and Security:	
Life safety devices per code	283111
Miscellaneous:	
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.



CAPACITY: N/A
SIZE: 300 SF

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

NOTES:

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

MAIN CONTROL / EQUIPMENT ROOM

M-MC-4

FINISHES[1]:	Spec. Ref.#
Flooring:	
Vinyl composition tile, ***ET***, or sheet vinyl	096500
Base:	
Resilient base	096500
Ceiling:	
Suspended, acoustical	095113
Walls:	
Painted concrete masonry units	042000/099100

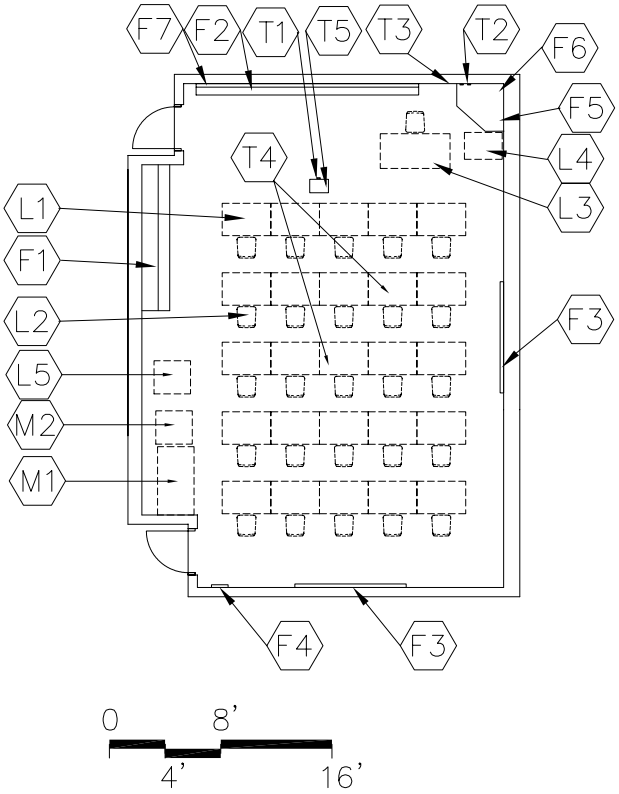
LOOSE FURNISHINGS:

L1 Desk and chair
Wastebasket

FEATURES[1]:	Spec. Ref.#
Fixed Items:	
F1 8'-16' of open shelving, depths may vary (fixed or loose)	123550
F2 4' of tack board (optional)	101100
Fire Suppression:	
Fire suppression system	211000
Plumbing:	
N/A	
HVAC:	
Independent, packaged system	Div. 23
Electrical:	
Single level switching	262726
Fluorescent lighting	265100
Illumination level: See Table 8600-4	
3 duplex receptacles	262726
Duplex receptacle for electronic systems	262726
Telecommunications Grounding	270526/260526
Communications:	
T1 Technology Equipment	
Central sound system	275123
Telephone wiring	271313/271513
Integrated telephone system	273113
Video wiring	271333/271533/271543
Digital on demand delivery system	274125
Local area network wiring	271513/271323
Local area network electronics	272100
Grounding & Infrastructure Equipment	270526/271100
T2 1 voice port and phone	271513/273113
T3 1 data port near workstation	271513
T4 1/4" plywood back board	271313
Electrical Safety and Security:	
Life safety devices per code	283111
Security system	281300/281600/282300
Miscellaneous:	
Provide distribution equipment with an equipment electrical ground.	

NOTES:

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



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:

- Uniform lighting with an 80% visual comfort probability level
- Environmental sound control -
  wall minimum STC 50
  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.

COMPUTER LAB

M-MC-5

FINISHES[1]:	Spec. Ref.#
Flooring:	
Carpet	096816
Base:	
Resilient base	096500
Ceiling:	
Suspended, acoustical	095113
Walls:	
Painted concrete masonry units	***042000***/099100

LOOSE FURNISHINGS:

L1 Computer workstation furniture (could be fixed)
L2 Student chairs
L3 Teacher desk/computer support and chair
L4 File cabinet
L5 Printer / scanner stand
Wastebasket
Pencil sharpener

FEATURES[1]:	Spec. Ref.#
Fixed Items:	
F1 4'-16' of base & wall cabinets	123550
F2 10'-16' of chalk/marker board	101100
F3 8'-12' of tack board or tackable wall surface	101100
F4 Pencil sharpener support	062000
F5 3' of tall wardrobe with file drawers	123550
F6 Technology support casework	123550
F7 Projection screen (optional)	115213
Fire Suppression:	
Fire suppression system	211000
Plumbing:	
N/A	
HVAC:	
Supply/return air system	Div. 23
Independent temperature control	230923
Electrical:	
Fluorescent lighting with parabolic lenses	265100
Illumination level: See Table 8600-4	
Multilevel switching	262726
4 duplex receptacles	262726
Double duplex receptacle adjacent to each data and video port	262726
Communications:	
T1 1 video port	271533/271543
T2 1 voice port and phone	271513/273113
T3 1 data port near teacher workstation	271513
T4 Classroom area network (26 ports minimum)	271513
Clock	275313
Central sound system	275123
Sound reinforcement system	275127
T5 Overhead projector	274119
Electronic Safety and Security:	
Life safety devices per code	283111

Miscellaneous:

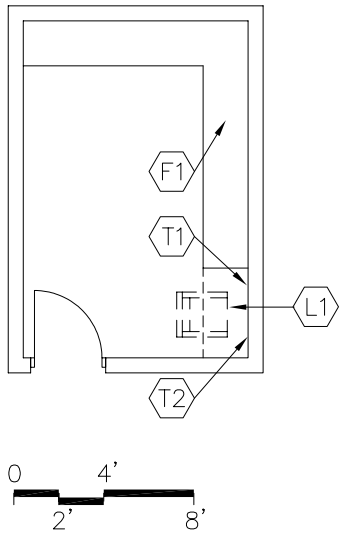
The following items are to be funded by the school district:

M1 Classroom area network file server
M2 Printer

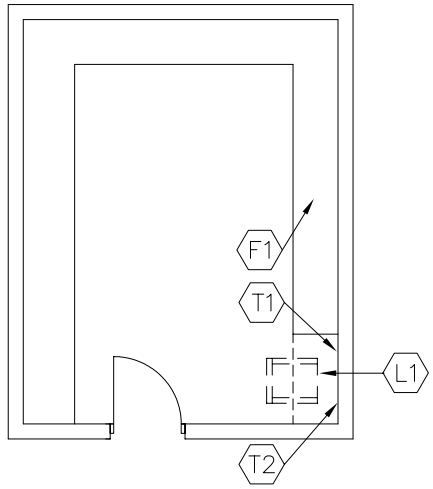
NOTES:

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.

150 SF



250 SF



CAPACITY: N/A
SIZE: 150-250 SF

PROGRAM ACTIVITIES:
- Storage of audio/video (A/V) equipment

SPATIAL RELATIONSHIPS:
- Near media specialist office
- Near workroom/storage

ENVIRONMENTAL CONSIDERATIONS:
N/A

NOTES:

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

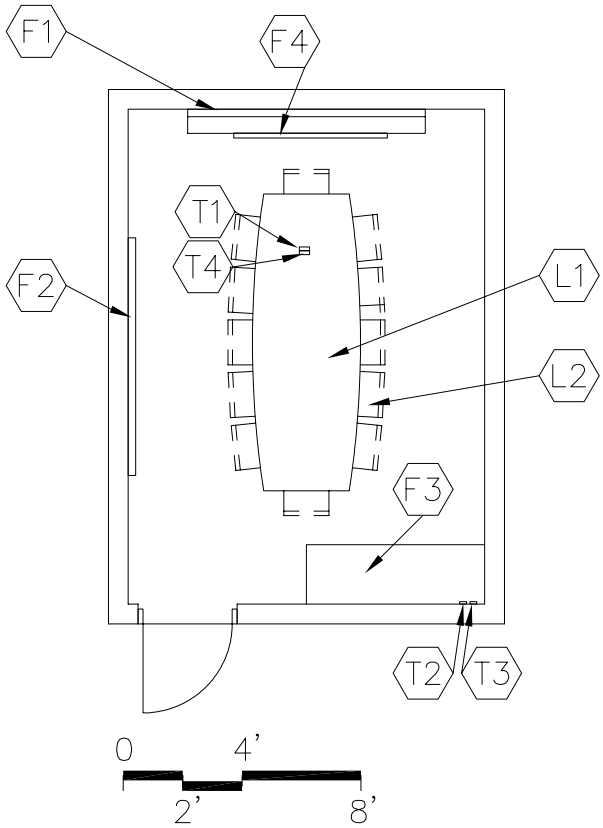
A/V STORAGE
M-MC-6

FINISHES[1]:	Spec. Ref.#
Flooring:	
Vinyl composition tile	096500
Base:	
Resilient base	096500
Ceiling:	
Suspended, acoustical	095113
Walls:	
Painted concrete masonry units	***042000***/099100

LOOSE FURNISHINGS:
L1 Desk and chair
Wastebasket

FEATURES[1]:	Spec. Ref.#
Fixed Items[2]:	
F1 14'-28' open shelving depths may vary (fixed or loose)	123550
Option: mobile storage shelving	***105626***
Fire Suppression:	
Fire suppression system	211000
Plumbing:	
N/A	
HVAC:	
To be determined by Design Professional	
Electrical:	
Single level switching	262726
Fluorescent lighting	265100
Illumination level: See Table 8600-4	
4 duplex receptacles (minimum)	262726
Communications:	
T1 1 voice port and phone	271513/273113
T2 1 data port near workstation	271513
Central sound system	275123
Electronic Safety and Security:	
N/A	
Miscellaneous:	
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: 8 - 12 persons
SIZE: 200 SF

PROGRAM ACTIVITIES:
- Used primarily by students for group projects

SPATIAL RELATIONSHIPS:
- Near reading room/circulation

ENVIRONMENTAL CONSIDERATIONS:
- Uniform lighting
- 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.

CONFERENCE ROOM
M-MC-7

FINISHES[1]:	Spec. Ref.#
Flooring:	
Carpet ***or Carpet Tile***	096816
	096813
Base:	
Resilient base	096500
Ceiling:	
Suspended, acoustical	095113
Walls:	
Painted concrete masonry units	***042000***/099100

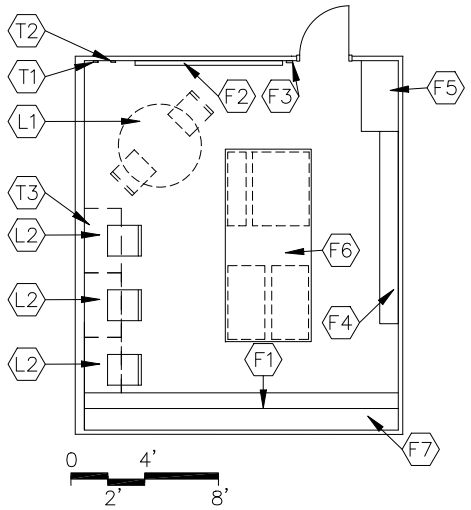
LOOSE FURNISHINGS:
L1 Conference table
L2 Chairs
Wastebasket

FEATURES[1]:	Spec. Ref.#
Fixed Items:	
F1 8'-10' of chalk/marker board	101100
F2 6'-8' of tack board or tackable wall surface	101100
F3 4'-6' of base cabinets (optional) (fixed or mobile)	123550
F4 Projection screen (optional)	115213
Fire Suppression:	
Fire suppression system	211000
Plumbing:	
N/A	
HVAC:	
Supply/return air system	Div. 23
Independent temperature control	230923
Electrical:	
Multilevel switching	262726
Fluorescent lighting	265100
Illumination level: See Table 8600-4	
3 duplex receptacles	262726
Double duplex receptacle adjacent to each data and video port	262726
Communications:	
T1 1 video port	271533/271543
T2 1 voice port and phone	271513/273113
T3 1 data port	271513
T4 Overhead projector	274119
Central sound system	275123
Clock	275313
Electronic Safety and Security:	
Life safety devices per code	283111
Miscellaneous:	
N/A	

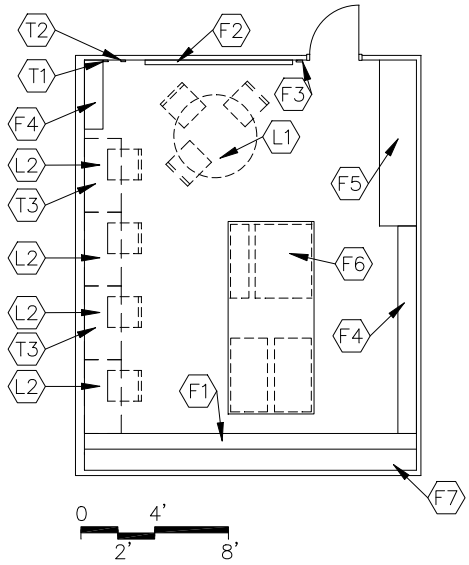
NOTES:

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

300 SF



400 SF



CAPACITY: 2 - 7 persons
SIZE: 300 - 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:

- Uniform lighting
- Environmental sound control –
  wall minimum STC 50
  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-8

FINISHES[1]:	Spec. Ref.#
Flooring:	
Vinyl composition tile, linoleum,	096516
ET, sheet vinyl, or rubber	096500
Base:	
Resilient base	096500
Ceiling:	
Suspended, acoustical	095113
Walls:	
Painted concrete masonry units	042000/099100

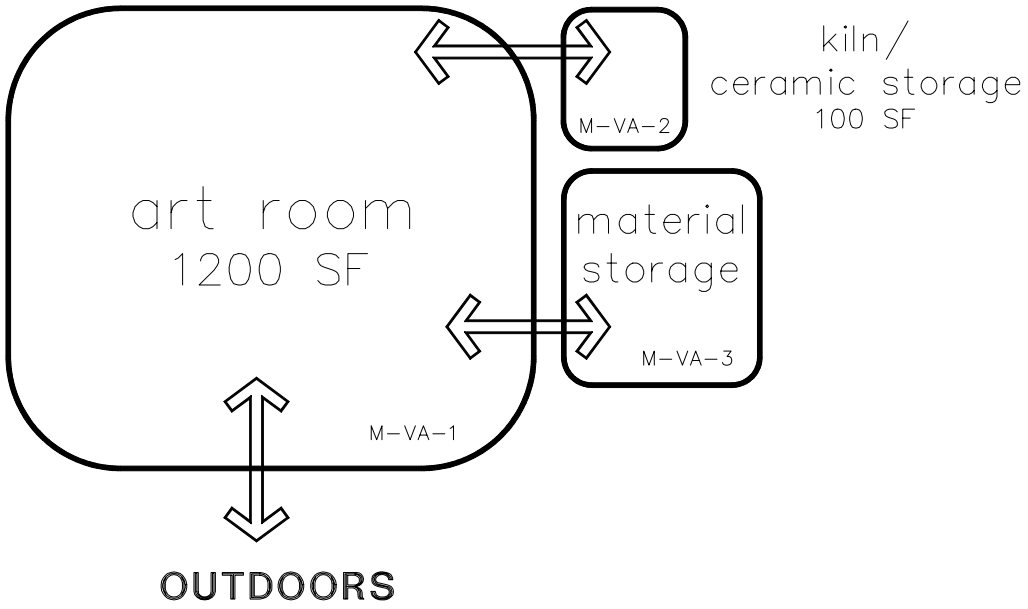
LOOSE FURNISHINGS:
L1 Tables and chairs/stools
L2 Computer workstation furniture
Wastebasket
Pencil sharpener (optional)

FEATURES[1]:	Spec. Ref.#
Fixed Items[3]:	
F1 6'-18' of base cabinets with different types of storage	123550
F2 4'-8' of tack board	101100
F3 Pencil sharpener support (optional)	062000
F4 4' - 16' of tall bookcases	123550
F5 3' - 9' of tall cabinets	123550
F6 Work surface	123550
F7 6'-18' of wall cabinets	123550
F8 Technology support casework (if applicable)	123550
Fire Suppression:	
Fire suppression system	211000
Plumbing:	
N/A	
HVAC:	
Supply/return air system	Div. 23
Independent temperature control	230923
Electrical:	
Multilevel switching	262726
Fluorescent lighting	265100
Illumination level: See Table 8600-4	
4 duplex receptacles	262726
Double duplex receptacle adjacent to each data and video port	262726
Communications:	
T1 1 video port and video display device	271533/271543/274119
T2 1 voice port and phone	271513/273113
T3 4 data ports	271513
Clock	275313
Central sound system	275123
Electronic Safety and Security:	
Life safety devices per code	283111
Miscellaneous:	
Interior windows for supervision (optional)	081113/088000

The following items to be provided by the school district: copier, scanner, printers, binders, and laminators.

NOTES:

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



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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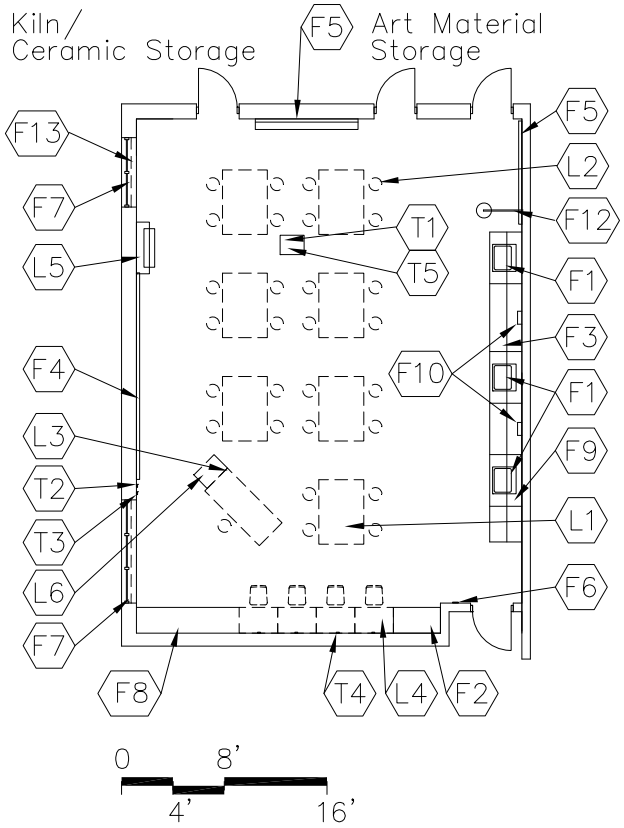


CAPACITY: 28 students
SIZE: 1,200 SF
ANCILLARY SPACES: Kiln/Ceramic Storage M-VA-2
Art Material Storage M-VA-3

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:

- Uniform lighting
- Natural lighting opening equal to minimum 5% of floor area, with an operable vent
- Environmental sound control -
  wall minimum STC 50
  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

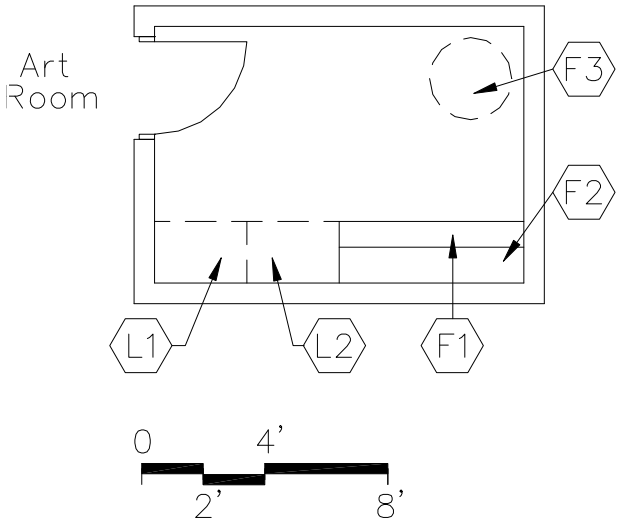
FINISHES[1]:	Spec. Ref.#
Flooring:	
Vinyl composition tile, ***ET***, sheet	096500
vinyl, rubber, ***polished concrete finishing, or colored concrete finishing***	***033510 033519***
Base:	
Resilient base	096500
Ceiling:	
Suspended, acoustical	095113
Walls:	
Painted concrete masonry units	042000/099100

LOOSE FURNISHINGS:
L1 Student work tables
L2 Student chairs or stools
L3 Teacher desk and chair/stool and teacher computer support
L4 Computer workstation furniture
L5 Desk height file cabinet
Wastebasket
Pencil sharpener

EQUIPMENT:
E1 Drying rack

FEATURES[1]:	Spec. Ref.#
Fixed Items:	
F1 3'-4' sink base cabinet, or several wash fountains	123550
F2 3' of tall wardrobe with file drawers	123550
F3 10'-12' of base cabinets	123550
F4 12'-16' of tack board or tackable wall surface	101100
F5 12'-16' of chalk/marker board	101100
F6 Pencil sharpener support	062000
F7 6'-10' of tall storage cabinets	123550
F8 10'-12' of wall cabinets	123550
F9 Towel dispenser (optional)	102813
F10 Projection screen (optional)	115213
F11 Technology support casework	123550
F12 Emergency eyewash (recommended)	224000
F13 Windows with integral blinds	085113
Fire Suppression:	
Fire suppression system	211000
Plumbing:	
Sinks with solids interceptor	224000
Emergency eyewash connections	224500
Plumbing connections	224000/221116/221119
HVAC:	
Supply/return air system	Div. 23
Independent temperature control	230923
Manually controlled general exhaust	Div. 23
Electrical:	
Fluorescent lighting	265100
Illumination level: See Table 8600-4	
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 video port	271533/271543
T2 1 voice port and phone	271513/273113
T3 1 data port near teacher workstation	271513
T4 4 data ports (minimum) for student use	271513
Clock	275313
Central sound system	275123
Sound reinforcement system	275127
T5 Overhead projector	274119
Electronic Safety and Security:	
Life safety devices per code	283111

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



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:

- Uniform lighting
- 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

FINISHES[1]:	Spec. Ref.#
Flooring:	
Polished concrete finishing or	***033510***
colored concrete finishing	***033519***
Base:	
Resilient base	096500
Ceiling:	
Suspended, acoustical	095113
Walls:	
Painted concrete masonry units	042000/099100

LOOSE FURNISHINGS:

L1 3' of tall dry storage units (total)
L2 3' of tall damp storage units (total)

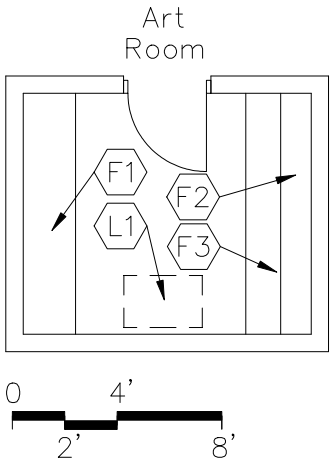
L1 and L2 could be fixed casework.

FEATURES[1]:	Spec. Ref.#
Fixed Items:	
F1 3'-6' of base cabinets	123550
F2 3'-6' of wall cabinets	123550
F3 Kiln	119200
Fire Suppression:	
Fire suppression system	211000
Plumbing:	
N/A	
HVAC:	
Temperature controlled exhaust	Div. 23
Ventilation for kiln	Div. 23
Electrical:	
Single level switching	262726
Fluorescent lighting	265100
Illumination level: See Table 8600-4	
1 duplex receptacle	262726
Electrical connection for kiln	262726
Communications:	
Central sound system	275123
Electronic Safety and Security:	
Life safety devices per code	283111
Miscellaneous:	
N/A	

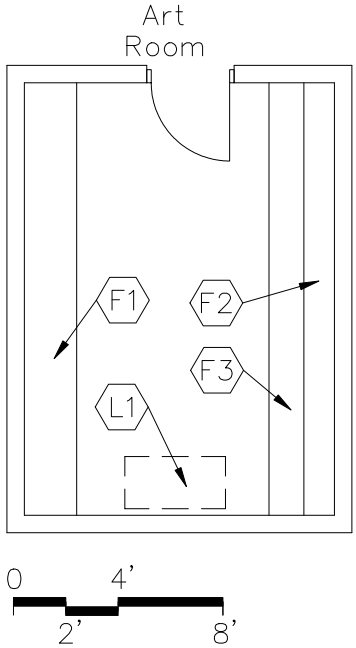
NOTES:

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

100 SF



200 SF



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

PROGRAM ACTIVITIES:
- Storage of art supplies and materials

SPATIAL RELATIONSHIPS:
- Adjacent to art room

ENVIRONMENTAL CONSIDERATIONS:
- Stain-resistant floor covering

NOTES:

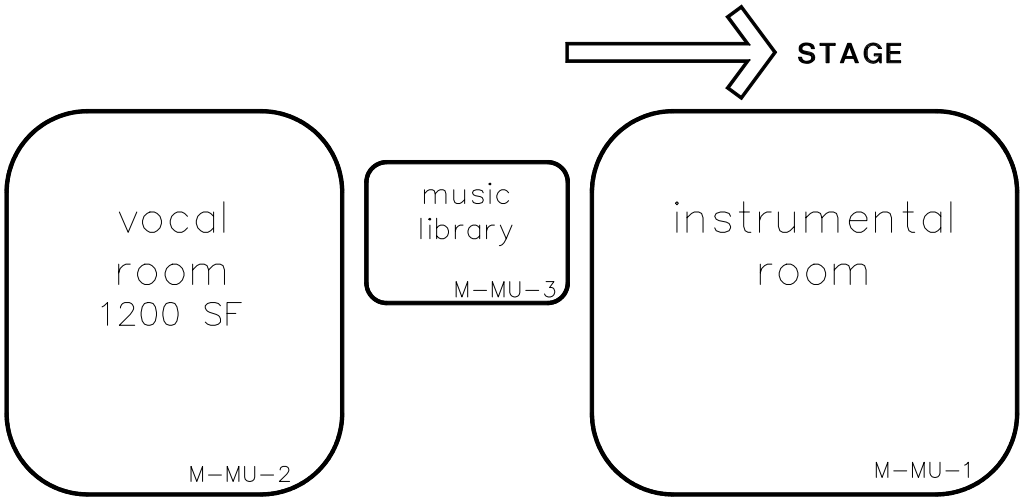
ART MATERIAL STORAGE
M-VA-3

FINISHES[1]:	Spec. Ref.#
Flooring:	
Vinyl composition tile, ***ET***, sheet	096500
vinyl, ***polished concrete***	***033510***
finishing, or colored	***033519***
concrete finishing	
Base:	
Resilient base	096500
Ceiling:	
Suspended, acoustical	095113
Walls:	
Painted concrete masonry units	042000/099100

LOOSE FURNISHINGS:
L1 Mobile materials cart

FEATURES[1]:	Spec. Ref.#
Fixed Items[2]:	
F1 8' - 14' tall storage cabinets	123550
F2 8' - 14' base cabinets, (depth for school's need)	123550
F3 8' - 14' wall cabinets	123550
Fire Suppression:	
Fire suppression system	211000
Plumbing:	
N/A	
HVAC:	
Exhaust air system	Div. 23
Supplemental heat as required	Div. 23
Electrical:	
Single level switching	262726
Fluorescent lighting	265100
Illumination level: See Table 8600-4	
Duplex receptacle above base cabinet	262726
Communications:	
N/A	
Electronic Safety and Security:	
N/A	
Miscellaneous:	
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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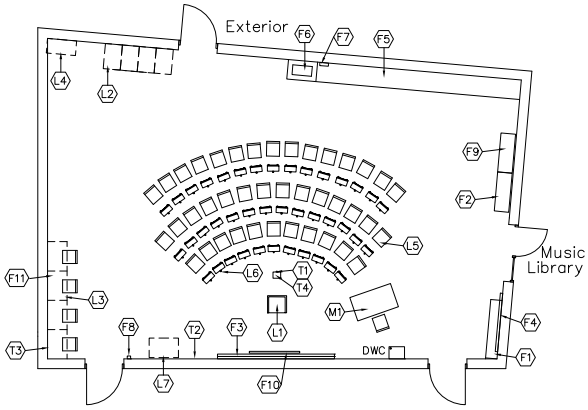
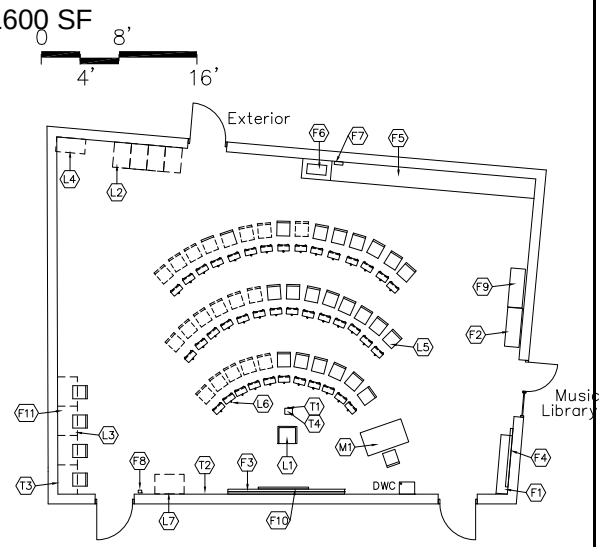
1400 SF



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:

- Uniform lighting
- 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

FINISHES[1]:	Spec. Ref.#
Flooring:	
Carpet	096816
Optional: vinyl composition tile, linoleum, rubber, ***ET***, or sheet vinyl	096516 096500
Base:	
Resilient base	096500
Ceiling:	
Suspended, acoustical	095113
Walls:	
Painted concrete masonry units	042000/099100
Acoustical wall treatment (varies with geometry of room)	098000
Absorptive 25%, reflective 25%, diffusive 50%	

LOOSE FURNISHINGS:

L1 Conducting podium
L2 Mobile percussion instrument storage cabinet
L3 Computer workstation furniture
L4 Mobile sheet music cabinet
L5 Music chairs
L6 Music stands
L7 Teacher workstation
Wastebasket
Pencil sharpener

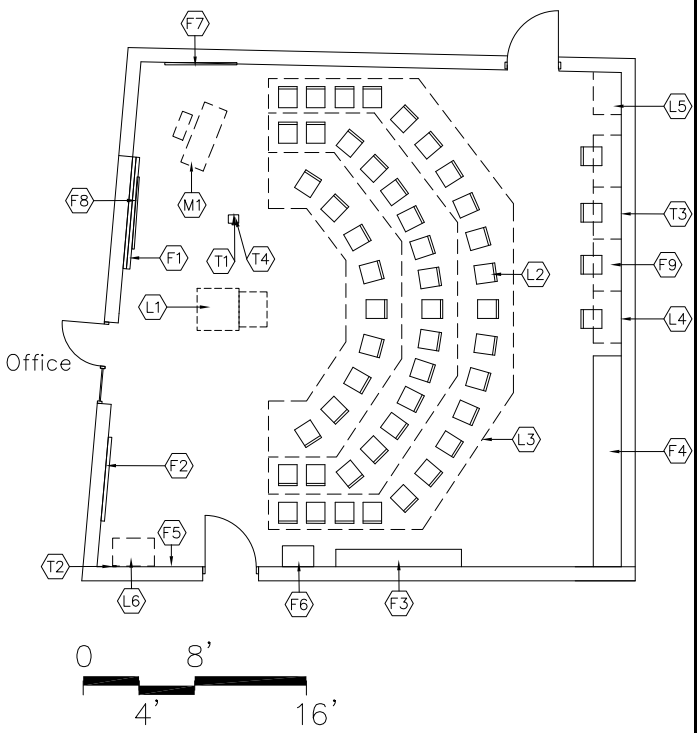
Miscellaneous:

Doors are to have acoustic trim accessories.
The following item is to be funded by the school district:
M1 Piano

FEATURES[1]:	Spec. Ref.#
Fixed Items:	
F1 4'-8' of bookshelves	123550
F2 About 4' of tall cabinets	123550
F3 8'-12' of chalk/marker board (staff lines optional)	101100
F4 4'-16' of tack board	101100
F5 Miscellaneous instrument storage cabinets	123550
F6 3' sink base cabinet	123550
F7 Towel dispenser	102813
F8 Pencil sharpener support	062000
F9 Stereo cabinet (optional)	123550
F10 Projection screen (optional)	115213
F11 Technology support casework	123550
Fire Suppression:	
Fire suppression system	211000
Plumbing:	
Drinking water cooler	224000
Sink	224000
Plumbing connections	224000/221116/221119
HVAC:	
Supply/return air system	Div. 23
Independent temp control	230923
Electrical:	
Fluorescent lighting	265100
Illumination level: See Table 8600-4	
Multilevel switching	262726
4 duplex receptacles	262726
Double duplex receptacle adjacent to each data and video port	262726
Emergency lighting	265100
Telecommunications Grounding	270526/260526
Communications:	
T1 1 video port	271533/271543
T2 1 voice port and phone	271513/273113
T3 4 data ports (minimum) for student use	271513
Clock	275313
Middle School music sound system	275125
Central sound system	275123
T4 Overhead projector	274119
Electronic Safety and Security:	
Life safety devices per code	283111

NOTES:

1. Finishes/Features: Refer to Chapter 9 for specification references.
2. Sink and cabinet could be in instrument storage room.



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:

- Uniform lighting
- 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

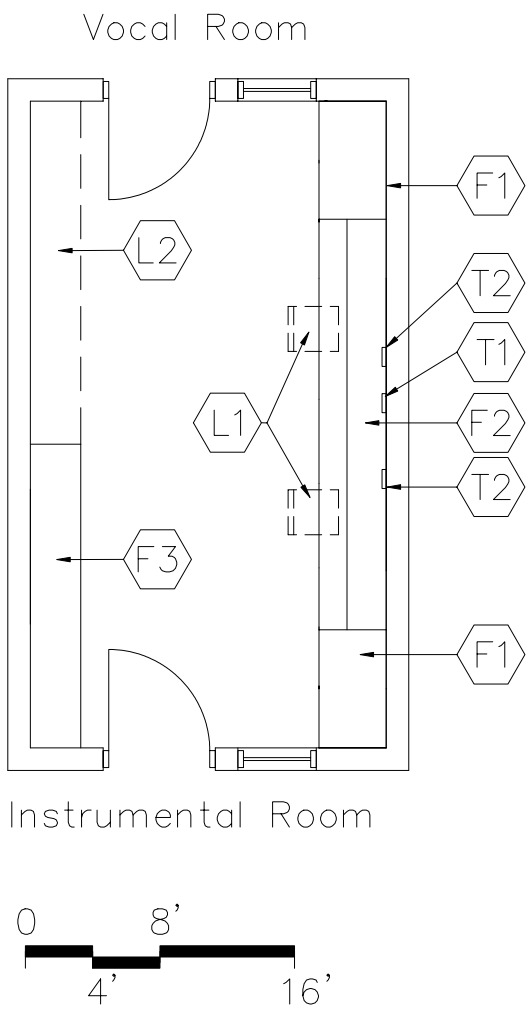
FINISHES[1]:	Spec. Ref.#
Flooring:	
Carpet	096816
Vinyl composition tile, linoleum,	096516
ET, sheet vinyl, or rubber	096500
(Determined by district program needs)	
Base:	
Resilient base	096500
Ceiling:	
Suspended, acoustical	095113
Walls:	
Painted concrete masonry units	042000/099100
Acoustical wall treatment (varies with geometry of room)	098000

LOOSE FURNISHINGS:
L1 Conducting podium
L2 Music chairs and caddies
L3 Portable risers
L4 Computer workstation furniture
L5 Mobile music storage cabinet
L6 Teacher computer workstation
Wastebasket
Pencil sharpener

Miscellaneous:
Doors are to have acoustic trim accessories.
The following item is to be funded by the school district:
M1 Piano

FEATURES[1]:	Spec. Ref.#
Fixed Items:	
F1 8'-12' of chalk/marker board (staff lines optional)	101100
F2 4'-16' of tack board	101100
F3 4'-9' of bookcases	123550
F4 3'-10' of tall cabinets	123550
F5 Pencil sharpener support	062000
F6 Stereo cabinet (optional)	123550
F7 Mirrors on wall (optional)	102813
F8 Projection screen (optional)	115213
F9 Technology support casework	123550
Fire Suppression:	
Fire suppression system	211000
Plumbing:	
N/A	
HVAC:	
Supply/return air system	Div. 23
Independent temperature control	230923
Electrical:	
Fluorescent lighting	265100
Illumination level: See Table 8600-4	
Multilevel switching	262726
4 duplex receptacles	262726
Double duplex receptacle adjacent to each data and video port	262726
Means of egress lighting per code	265100
Emergency lighting per code	265100
Telecommunications Grounding	270526/260526
Communications:	
T1 1 video port	271533/271543
T2 1 voice port and phone	271513/273113
T3 4 data ports	271513
Clock	275313
Middle School music sound system	275125
Central sound system	275123
T4 Overhead projector	274119
Electronic Safety and Security:	
Life safety devices per code	283111

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.



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

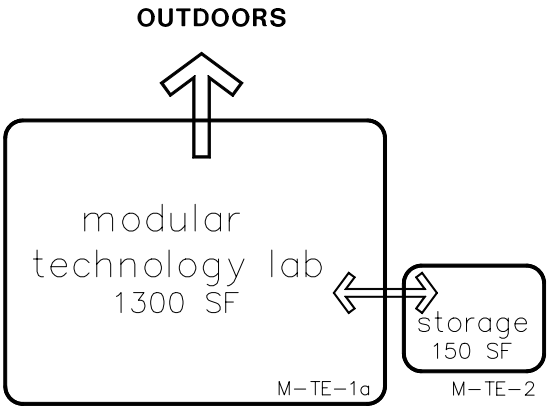
FINISHES[1]:	Spec. Ref.#
Flooring:	
Carpet	096816
Base:	
Resilient base	096500
Ceiling:	
Suspended, acoustical	095113
Walls:	
Painted concrete masonry units	***042000***/099100

LOOSE FURNISHINGS:
L1 Chairs
L2 Files
Wastebasket

FEATURES[1]:	Spec. Ref.#
Fixed Items:	
F1 (2), 2'-3' of tall wardrobes	123550
F2 24' of work surface with file drawers and wall cabinets	123550
F3 8'-16' of tall storage cabinets or shelving	123550
Option: mobile storage shelving	105626
Fire Suppression:	
Fire suppression system	211000
Plumbing:	
N/A	
HVAC:	
Independent temperature control	230923
Supply/return air system	Div. 23
Electrical:	
Fluorescent lighting	265100
Illumination level: See Table 8600-4	
3 duplex receptacles	262726
Double duplex receptacle adjacent to data port	262726
Communications:	
T1 1 voice port and phone	271513/273113
T2 1 data port near each workstation	271513
Central sound system	275123
Electronic Safety and Security:	
Life safety device per code	283111
Miscellaneous:	
Interior windows (optional)	081113/088000

NOTES:

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



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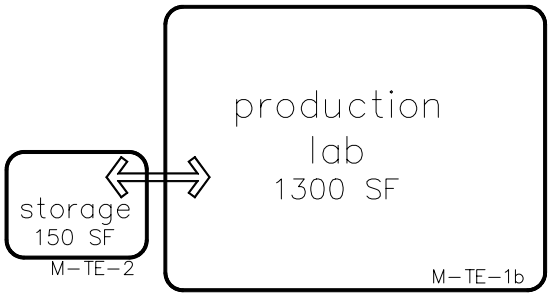

NOTE:

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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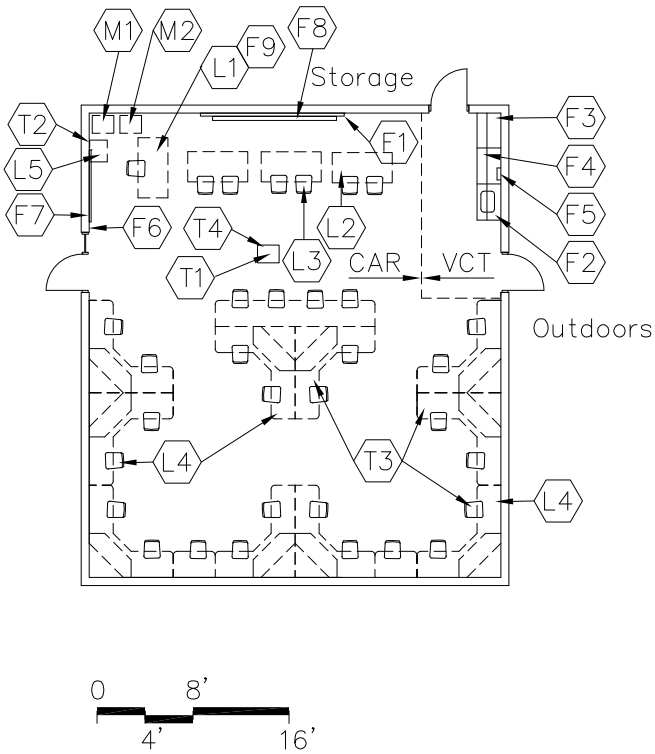


CAPACITY:	25 students
SIZE:	1,300 SF
ANCILLARY SPACES:	M-TE-2 Storage

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:

- Uniform lighting with 80% visual comfort probability level
- Environmental sound control -
  wall minimum STC 50
  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

FINISHES[1]:	Spec. Ref.#
Flooring:	
Vinyl composition tile, linoleum,	096500
ET, rubber, or sheet vinyl	096516
Carpet	096816
Base:	
Resilient base	096500
Ceiling:	
Suspended, acoustical	095113
Walls:	
Painted concrete masonry units	042000/099100

LOOSE FURNISHINGS:

L1 Teacher desk/computer support and chair
L2 Tables with heavy duty tops
L3 Student stools/chairs
L4 Computer technology workstation with chairs
L5 File cabinet
Wastebaskets
Pencil sharpener

Miscellaneous:

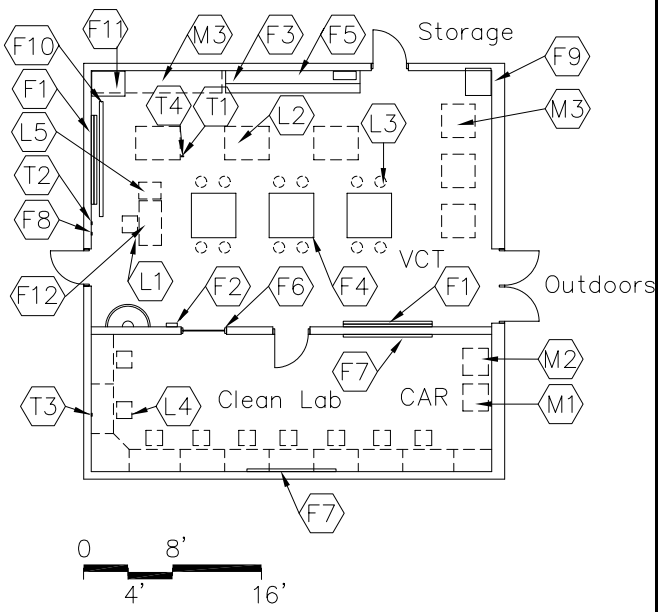
The following items are to be provided by the school district:

M1 Classroom area network file server
M2 Printer

FEATURES[1]:	Spec. Ref.#
Fixed Items:	
F1 10'-16' of chalk/marker board	101100
F2 3' sink base cabinet	123550
F3 About 9' of wall cabinets	123550
F4 About 9' of base cabinet with heavy duty counter top	123550
F5 Towel dispenser	102813
F6 Pencil sharpener support	062000
F7 8'-10' of tack board	101100
F8 Projection screen (optional)	115213
F9 Technology support casework	123550
Fire Suppression:	
Fire suppression system	211000
Plumbing:	
Sink	224000
Plumbing connections	224000/221116/221119
HVAC:	
Supply/return air system	Div. 23
Independent temp control	230923
Electrical:	
Fluorescent lighting with parabolic lenses	265100
Illumination level: See Table 8600-4	
Multilevel switching	262726
8 duplex receptacles	262726
Double duplex receptacle adjacent to data and video port	262726
Means of egress lighting per code	265100
Emergency lighting per code	265100
Communications:	
T1 1 video port	271533/271543
T2 1 voice port and phone	271513/273113
T3 Classroom area network (25 data ports minimum)	271513
Clock	275313
Central sound system	275123
Sound reinforcement system	275127
T4 Overhead projector	274119
Electronic Safety and Security:	
Life safety devices per code	283111

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.



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:

- Uniform lighting
- Environmental sound control -
  wall minimum STC 50
  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

FINISHES[1]:	Spec. Ref.#
Flooring:	
Vinyl composition tile, linoleum,	***096516***
or rubber	096500
Carpet	096816
Base:	
Resilient base	096500
Ceiling:	
Painted, exposed structure	095113
Walls:	
Painted concrete masonry units	***042000***/099100

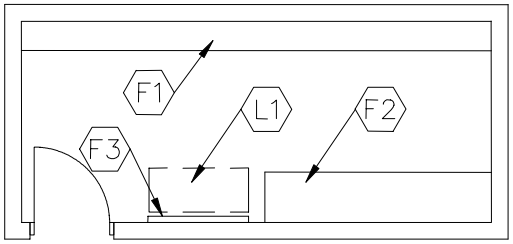
LOOSE FURNISHINGS:

L1 Teacher desk and chair
L2 Tables with heavy duty tops
L3 Student stools
L4 Computer technology workstation with chairs
L5 File cabinet
Wastebasket
Waste receptacle
Pencil sharpener

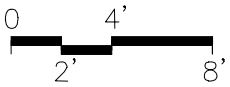
Miscellaneous:
The following items are to be funded by the school district:
M1 Classroom area network file server
M2 Printer
M3 Shop equipment with localized dust collection as necessary

FEATURES[1]:	Spec. Ref.#
Fixed Items:	
F1 8'-16' of chalk/marker board	101100
F2 Towel dispenser	102813
F3 8'-12' of wall cabinets	123550
F4 Workbench and locker base	123550
F5 About 12' of heavy duty counter top at 36" high with knee space	123550
F6 Interior window	081113/088000
F7 4'-12' of tack board	101100
F8 Pencil sharpener support	062000
F9 Tool cabinet (optional)	
F10 Projection screen (optional)	115213
F11 Tall wardrobe	123550
F12 Technology support casework	123550
Fire Suppression:	
Fire suppression system	211000
Plumbing:	
Wash fountain	224000
Plumbing connections	224000/221116/221119
HVAC:	
Supply/return air system	Div. 23
Independent temperature control	230923
Localized dust collection system as necessary	233513
Electrical:	
Fluorescent lighting	265100
Illumination level: See Table 8600-4	
Multilevel switching in computer area	262726
8 duplex receptacles	262726
Double duplex receptacle adjacent to data and video port	262726
Means of egress lighting per code	265100
Emergency lighting per code	265100
Electrical power for shop equipment	262726
Master shut-off for power equipment	262726
Communications:	
T1 1 video port	271533/271543
T2 1 voice port and phone	271513/273113
T3 Classroom area network (10 data ports minimum)	271513
Clock	275313
Central sound system	275123
Sound reinforcement system	275127
T4 Overhead projector	274119
Electronic Safety and Security:	
Life safety devices per code	283111

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.



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

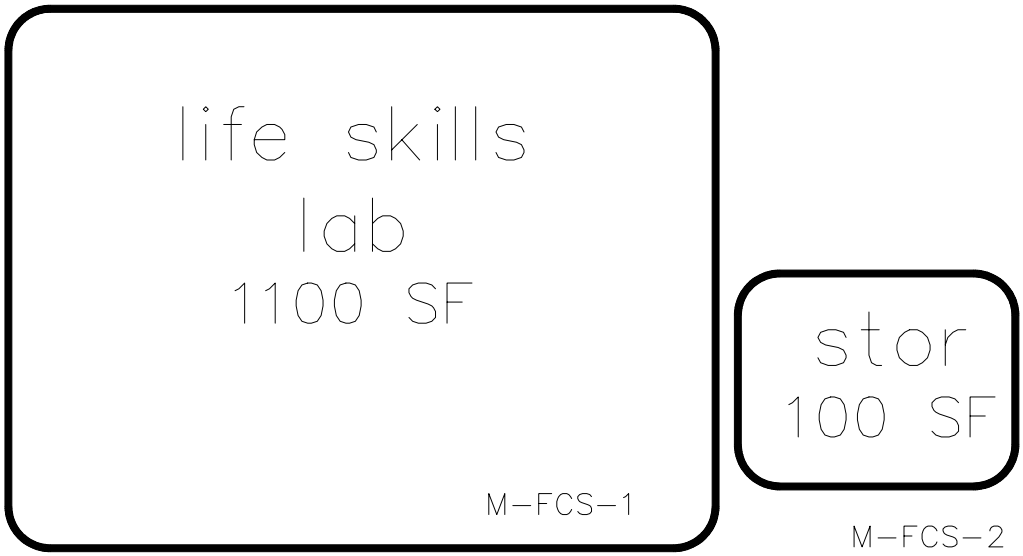
FINISHES[1]:	Spec. Ref.#
Flooring:	
Sealed concrete	033000
Base:	
Resilient base	096500
Ceiling:	
Suspended, acoustical	095113
Walls:	
Painted concrete masonry units	***042000***/099100

LOOSE FURNISHINGS:
L1 Mobile tool cart

FEATURES[1]:	Spec. Ref.#
Fixed Items:	
F1 10'-20' of open shelving, depths may vary (fixed or loose)	123550
F2 About 9' of tall cabinets (total)	123550
F3 4' of pegboard (total) (optional)	102813
Fire Suppression:	
Fire suppression system	211000
Plumbing:	
N/A	
HVAC:	
To be determined by Design Professional	
Supplemental heat as required	Div. 23
Electrical:	
Fluorescent lighting	265100
Illumination level: See Table 8600-4	
1 duplex receptacle	262726
Communications:	
N/A	
Electronic Safety and Security:	
N/A	
Miscellaneous:	
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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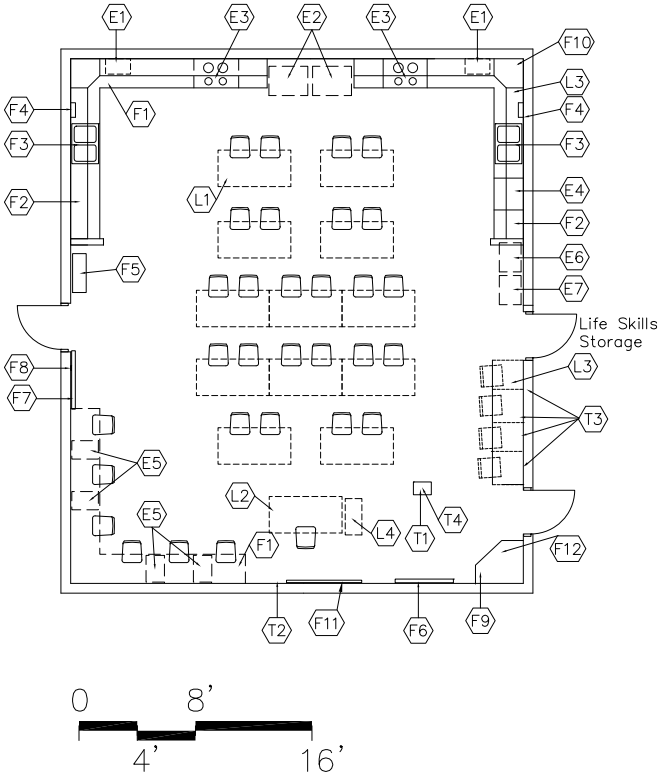


PROGRAM ACTIVITIES:

- 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:

- Uniform lighting
- Environmental sound control -
  wall minimum STC 50
  ceiling minimum CAC 35, NRC ***0.70***
- Resilient floor covering

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

NOTES:

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

LIFE SKILLS LAB

M-FCS-1

FINISHES[1]:	Spec. Ref.#
Flooring:	
Vinyl composition tile, linoleum,	096500
ET, sheet vinyl, or rubber	096516
Base:	
Resilient base	096500
Ceiling:	
Suspended, acoustical	095113
Walls:	
Painted concrete masonry units	042000/099100

LOOSE FURNISHINGS:

L1 Tables and chairs
L2 Teacher desk/computer support and chair
L3 Computer workstation furniture
L4 File cabinet
Wastebaskets
Pencil sharpener

EQUIPMENT:

E1 Microwaves
E2 Refrigerators
E3 Ranges and ovens
E4 Dishwasher
E5 Sewing machines
E6 Washer
E7 Dryer

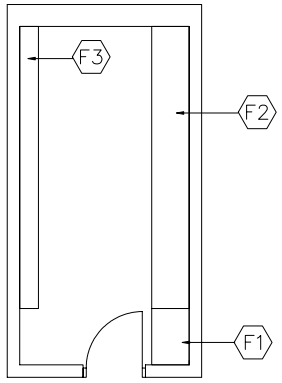
Electronic Safety and Security:	
Life safety devices per code	283111

FEATURES[1]:	Spec. Ref.#
Fixed Items:	
F1 Base cabinets	123550
F2 Wall cabinets	123550
F3 Double bowl sink base cabinet	123550
F4 Towel dispensers (optional)	102813
F5 3'-8' of bookcases	123550
F6 8'-12' of chalk/marker board	101100
F7 4'-8' of tack board	101100
F8 Pencil sharpener support	062000
F9 3' of tall wardrobe with file drawers	123550
F10 3' tall cabinet (optional)	123550
F11 Projection screen (optional)	115213
F12 Technology support casework	123550
Fire Suppression:	
Fire suppression system	211000
Plumbing:	
Double sinks	224000
Plumbing connections	224000/221116/221119
Garbage disposal (optional)	224000
Washer connections	224000
HVAC:	
Supply/return air system	Div. 23
Manually operated exhaust system	Div. 23
Independent temp control	230923
Dryer vent system	Div. 23
Electrical:	
Fluorescent lighting	265100
Illumination level: See Table 8600-4	
Multilevel switching	262726
4 duplex receptacles	262726
Double duplex receptacle adjacent to each data and video port	262726
Receptacles for refrigerators, microwaves, ranges, dishwashers, and sewing machines	262726
Means of egress lighting per code	265100
Emergency lighting per code	265100
Washer and dryer connections	262726
Communications:	
T1 1 video port	271533/271543
T2 1 voice port and phone	271513/273113
T3 4 data ports for student use	271513
Clock	275313
Central sound system	275123
Sound reinforcement system	275127
T4 Overhead projector	274119

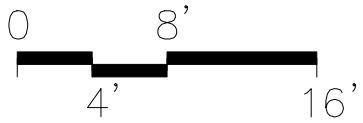
NOTES:

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.

LIFE SKILLS STORAGE
M-FCS-2



Life Skills Lab



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

- Resilient floor covering

NOTES:

LIFE SKILLS STORAGE

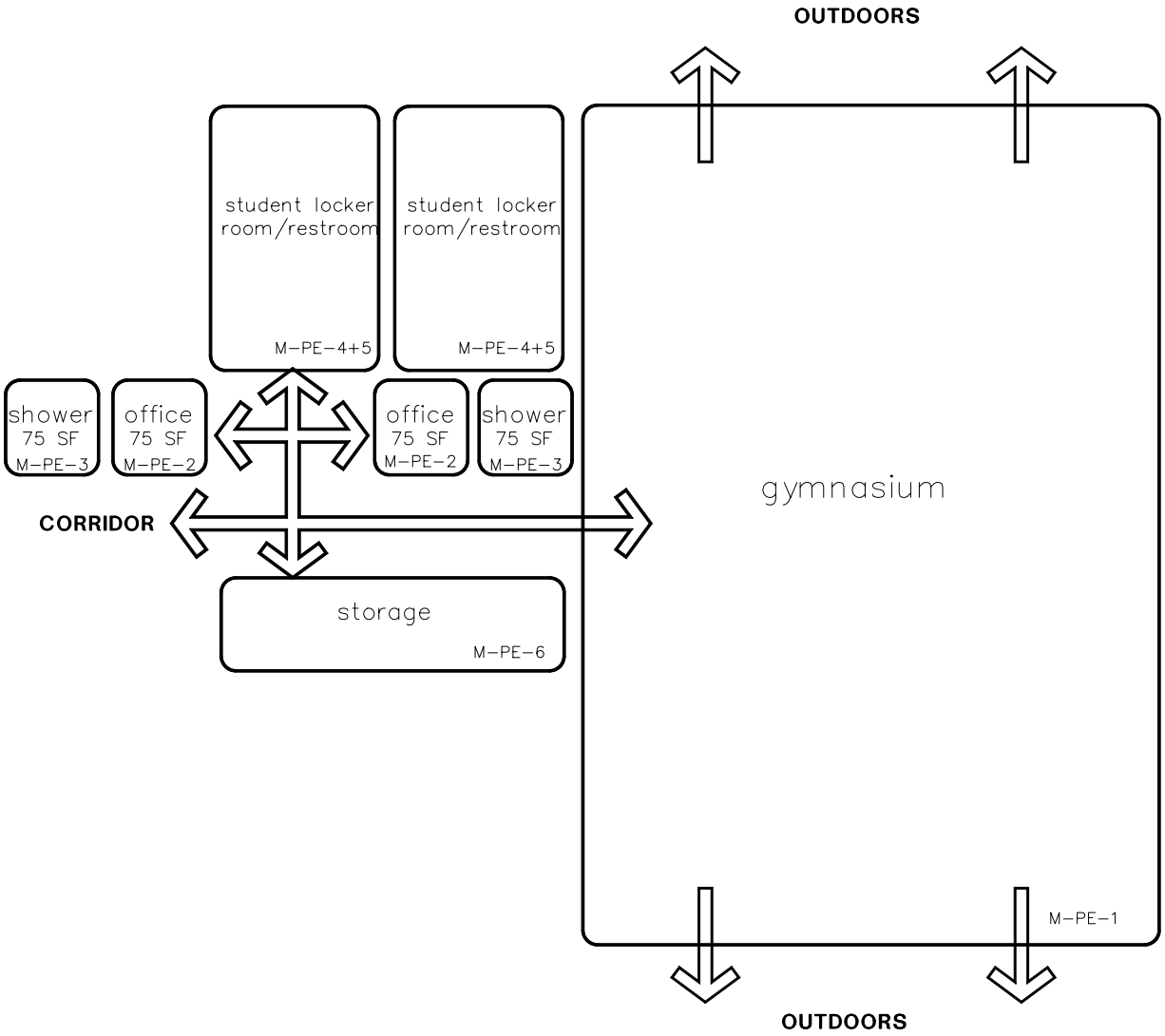
M-FCS-2

FINISHES[1]:	Spec. Ref.#
Flooring:	
Vinyl composition tile	096500
Base:	
Resilient base	096500
Ceiling:	
Suspended, acoustical	095113
Walls:	
Painted concrete masonry units	***042000***/099100

LOOSE FURNISHINGS:
N/A

FEATURES[1]:	Spec. Ref.#
Fixed Items:	
F1 3' of tall wardrobe (optional)	123550
F2 10'-15' of tall cabinets, or base and wall cabinets	123550
F3 10'-15' of open tall cabinets	123550
Fire Suppression:	
Fire suppression system	211000
Plumbing:	
N/A	
HVAC:	
To be determined by DesignProfessional	
Supplemental heat as required	Div. 23
Electrical:	
Fluorescent lighting	265100
Illumination level: See Table 8600-4	
1 duplex receptacle	262726
Communications:	
N/A	
Electronic Safety and Security:	
N/A	
Miscellaneous:	
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 P.E./Athletic Office
- M-PE-3 Staff Shower
- M-PE-4 Student Locker Room
- M-PE-5 Student Restroom/Shower
- M-PE-6 Physical Education Storage

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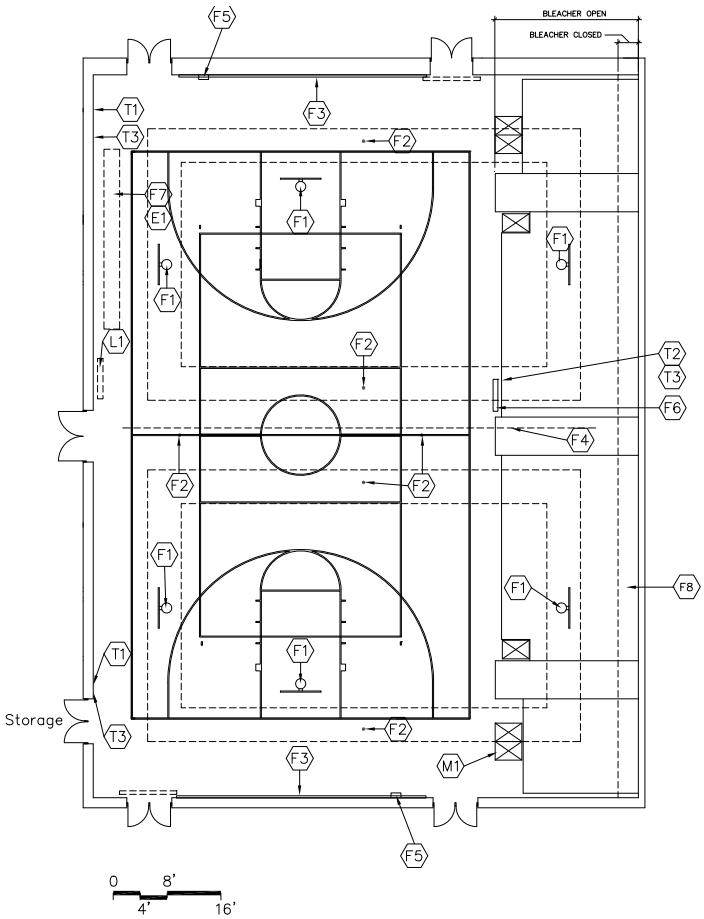


Please see page 5109-5 for an enlargement of this diagram.

CAPACITY: 25 - 60 students
SIZE: 7,000 - 8,500 SF
ANCILLARY SPACES:
Physical Education Storage
M-PE-6

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:
- Uniform lighting
- Adequate sound control/acoustics
- Clear 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

FINISHES[1]:	Spec. Ref.#
Flooring:	
Wood flooring or	096466
Fluid-applied athletic flooring	096766
Base:	
Ventilated resilient base	096466
Ceiling:	
Painted exposed structure	099100
Walls:	
Painted	099100
Sound absorbing concrete masonry units or abuse-resistant	042000
acoustical wall treatment	098000

LOOSE FURNISHINGS:

L1 Portable chalkboard

Miscellaneous:

M1 Handicapped seating

Court markings (minimum)

74' x 50' main basketball court,

2 cross courts to fit

Regulation volleyball courts

Provide wire guards on light fixtures and wall-mounted electrical devices.

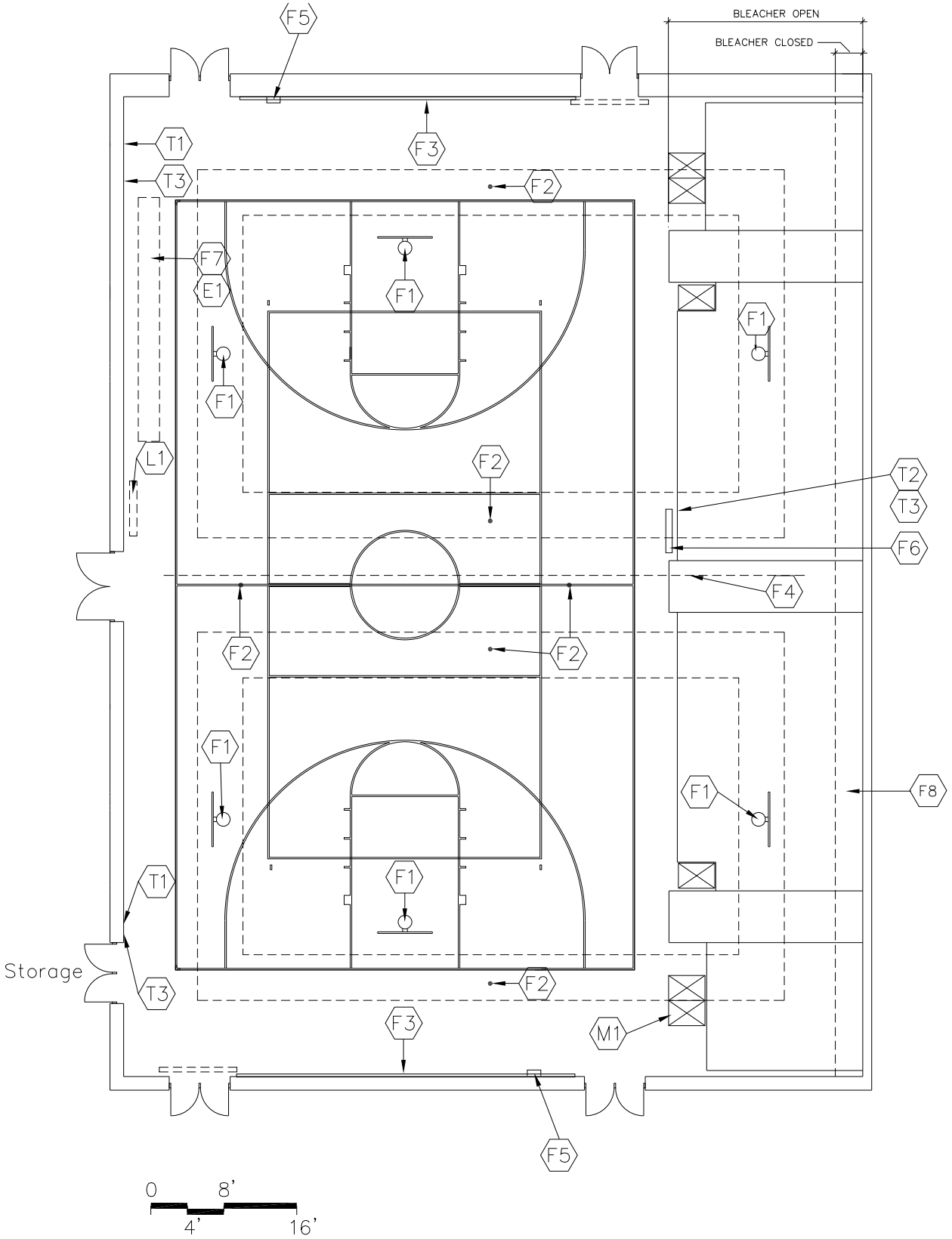
EQUIPMENT:

E1 Wrestling mat

FEATURES[1]:	Spec. Ref.#
Fixed Items:	
F1 Basketball backstops, glass, adjustable height	116623
F2 Volleyball sleeves and standards on a cart	116623
F3 Safety wall wainscot ***(see note 2)***	116623
F4 Divider gym curtain	116623
F5 Chin-up bar (optional)	116623
F6 Scorer table	126600
F7 Wrestling mat hoist (optional)	116623
F8 Telescoping bleachers	126600
Fire Suppression:	
Fire suppression system	211000
Plumbing:	
Plumbing connections	224000/221116/221119
HVAC:	
Supply/return air system	Div. 23
Independent temp control	230923
Electrical:	
Multi-level switching	262726
High intensity discharge lighting or fluorescent lighting	265100
Illumination level: See Table 8600-4	
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
Communications::	
T1 2 video ports, 1 monitor with cart	271533/271543/274119
T2 1 voice port	271513/273113
T3 3 data port	271513
Clocks with wire guards	275313
Central sound system	275123
Gymnasium sound system	275124
Electronic Safety and Security:	
Life safety devices per code	283111

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.***


BLEACHER OPEN
BLEACHER CLOSED
F5
F3
F2
T1
T3
F7
E1
F1
L1
T2
F6
F4
F8
M1
Storage
0
8'
4'
16'

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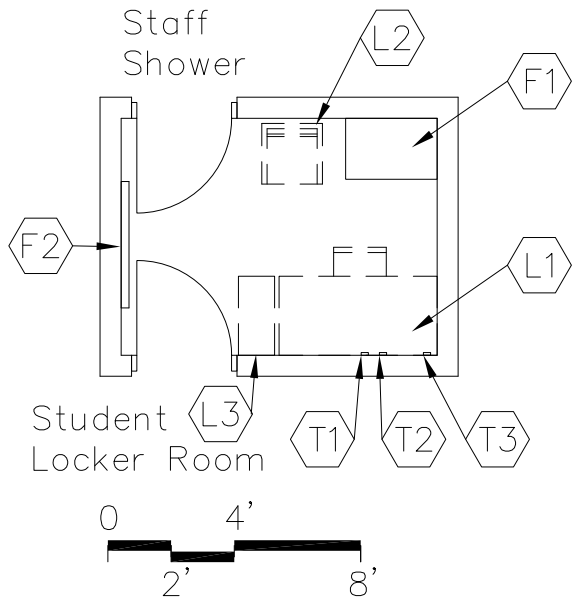


PROGRAM ACTIVITIES:
- Teacher office for planning, grading, conferences, and scheduling

SPATIAL RELATIONSHIPS:
- Near gymnasium
- Adjacent to student locker rooms
- Adjacent to staff shower

ENVIRONMENTAL CONSIDERATIONS:
- Uniform lighting
- 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-4
	Staff Shower M-PE-3

NOTES:

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

P.E./ATHLETIC OFFICE

M-PE-2

FINISHES[1]:	Spec. Ref.#
Flooring:	
Vinyl composition tile, linoleum,	096516
ET, sheet vinyl, or rubber	096500
Base:	
Resilient base	096500
Ceiling:	
Acoustical, suspended	095113
Walls:	
Painted concrete masonry units	042000/099100

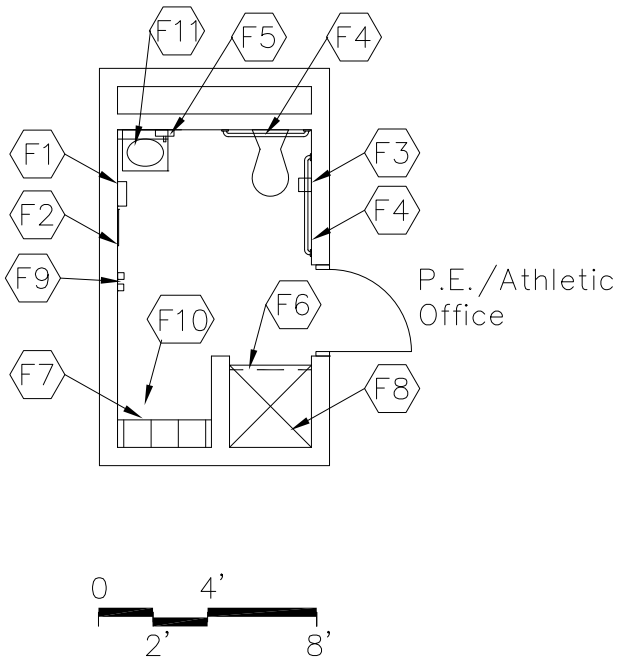
LOOSE FURNISHINGS:

L1 Teacher desk and chair
L2 Visitor chair
L3 File cabinet
Wastebasket

FEATURES[1]:	Spec. Ref.#
Fixed Items:	
F1 2' of tall wardrobe	123550
F2 4' of tack board	101100
Fire Suppression:	
Fire suppression system	211000
Plumbing:	
N/A	
HVAC:	
Supply/return air system	Div. 23
Independent temp control (coupled with similarly loaded adjacent spaces)	230923
Electrical:	
Single level switching	262726
Fluorescent lighting	265100
Illumination level: See Table 8600-4	
4 duplex receptacles	262726
Double duplex receptacle adjacent to each data and video port	262726
Communications:	
T1 1 voice port and phone	271513/273113
T2 1 data port near teacher workstation	271513
T3 1 video port	271533/271543
Central sound system	275123
Clock	275313
Electronic Safety and Security:	
Life safety devices per code	283111
Miscellaneous:	
Interior window (optional)	081113/088000

NOTES:

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



CAPACITY: 1 person
SIZE: 75 SF
ANCILLARY SPACES: P.E./Athletic Office
M-PE-2

PROGRAM ACTIVITIES:
- Personal and health care needs for physical education teacher

SPATIAL RELATIONSHIPS:
- Adjacent to P.E./athletic office

ENVIRONMENTAL CONSIDERATIONS:
- Uniform lighting
- Environmental sound control -
  walls minimum STC ***48***
  ceiling minimum CAC 35, NRC ***0.70***
- Moisture- and stain-resistant finishes

NOTES:

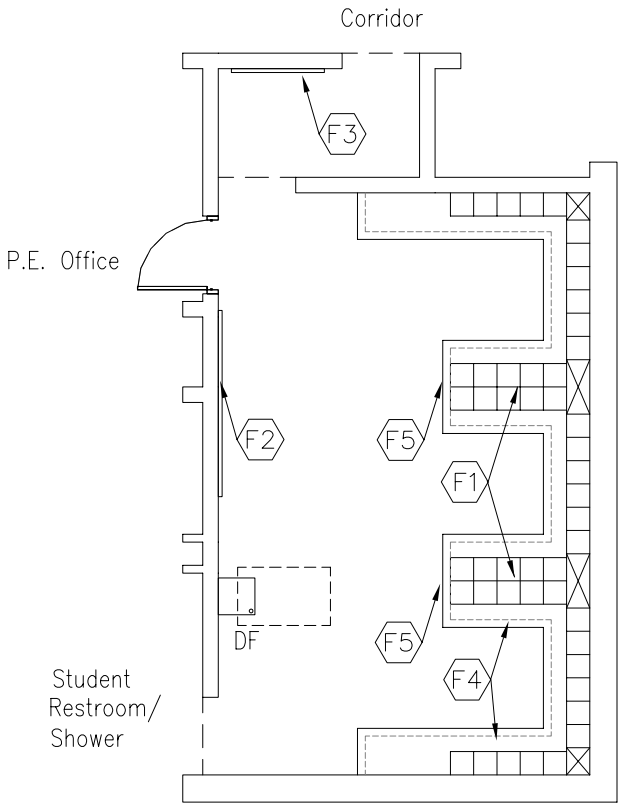
STAFF SHOWER
M-PE-3

FINISHES[1]:	Spec. Ref.#
Flooring:	
Restroom: linoleum, ***ET***,	096516
sheet vinyl, rubber, or	096500
resinous flooring	096723
Shower: Ceramic mosaic tile,	093000
porcelain tile, or	
resinous flooring	
Base:	
Restroom: Resilient base,	096500
resinous flooring, or	096723
integral vinyl cove base	093000
Shower: Ceramic mosaic tile base, porcelain tile base, resinous flooring, or integral vinyl cove base	
Ceiling:	
Restroom: Suspended, acoustical	095113
Shower: Painted portland cement plaster	092400/099100
or interior finish system	092513
Walls:	
Epoxy painted concrete masonry units	042000/099100
or ceramic wall tile in shower and	093000
latex paint in restroom	099100
LOOSE FURNISHINGS:	
Wastebasket	

FEATURES[1]:		Spec. Ref.#
Fixed Items:		
F1	Towel dispenser	102813
F2	24" x 60" mirror	102813
F3	Toilet tissue holder	102813
F4	36" and 42" grab bar	102813
F5	Soap dispenser	102813
F6	Shower curtain and rod	102813
F7	3 athletic lockers	105113
F8	ADA Shower accessories	102813
F9	Towel hooks	102813
F10	Built-in bench (optional)	102813
F11	Mirror over sink with shelf (optional)	102813
Fire Suppression:		
	Fire suppression system	211000
Plumbing:		
	Wall-mounted water closet	224000
	Wall-mounted lavatory	224000
	ADA shower controls and head	224000
	Plumbing connections	224000/221116/221119
HVAC:		
	Exhaust air system	Div. 23
	Supplemental heat as required	Div. 23
Electrical:		
	Single level switching	262726
	Fluorescent lighting	265100
	Illumination level: See Table 8600-4	
	1 duplex receptacle	262726
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.



CAPACITY: 25 - 30 students
SIZE: 600 - 650 SF
ANCILLARY SPACES:
Student Restroom/Shower
M-PE-5
P.E./Athletic Office
M-PE-2

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:
- Uniform lighting
- Environmental sound control -
  wall minimum STC ***48***
  ceiling minimum CAC 35, NRC ***0.70***

NOTES:

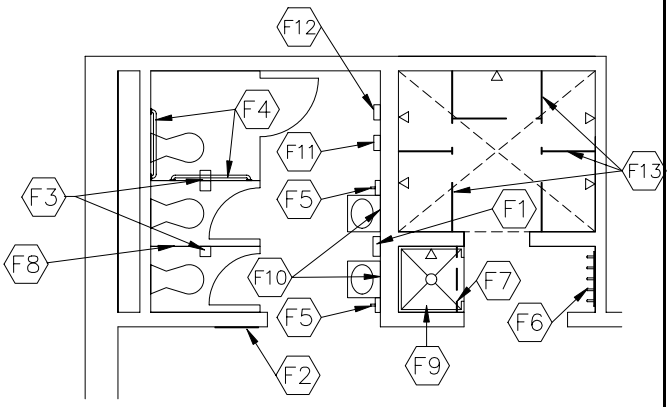
STUDENT LOCKER ROOM
M-PE-4

FINISHES[1]:	Spec. Ref.#
Flooring:	
Sheet vinyl, rubber, rubber tile,	096500
or resinous flooring	096723
Base:	
Resilient base or	096500
resinous flooring	096723
Ceiling:	
Suspended, acoustical with high-impact hold-down clips	095113
Option: Exposed painted pre-cast units	099100
Walls:	
Painted concrete masonry units	***042000***/099100
LOOSE FURNISHINGS:	
Wastebaskets	

FEATURES[1]:	Spec. Ref.#
Fixed Items:	
F1 Athletic lockers	105113
F2 4'-8' of chalk/marker board	101100
F3 4'-8' of tack board	101100
F4 Locker benches (fixed or loose)	062000
F5 Mirrors (optional)	102813
Fire Suppression:	
Fire suppression system	211000
Plumbing:	
Drinking ***fountain***	224000
HVAC:	
Supply air system	Div. 23
Exhaust air system	Div. 23
Independent temperature control	230923
Electrical:	
Fluorescent lighting	265100
Illumination level: See Table 8600-4	
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	

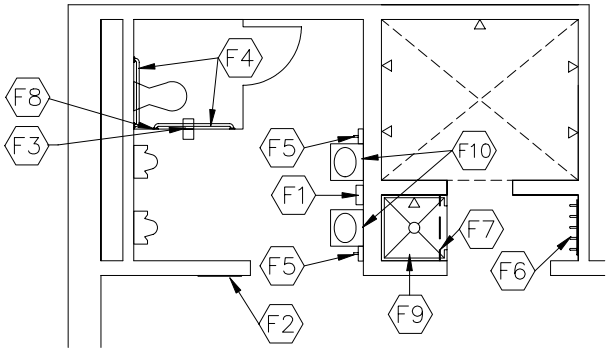
NOTES:

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



Female Student Locker Room

0 4'
2' 8'



Male Student Locker Room

0 4'
2' 8'

CAPACITY: 5 students
SIZE: 250 SF
ANCILLARY SPACES: Student Locker Room M-PE-4

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:

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

NOTES:

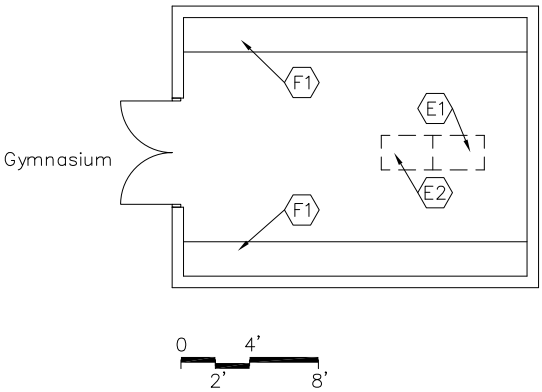
STUDENT RESTROOM/SHOWER
M-PE-5

FINISHES[1]:	Spec. Ref.#
Flooring:	
Restroom: Sheet vinyl, rubber flooring or resinous flooring	096500
Shower: Ceramic mosaic tile,	096723
porcelain tile, or	093000
resinous flooring	
Base:	
Restroom: Resilient base,	096500
resinous flooring, or	096723
integral vinyl cove base	093000
Shower: Ceramic mosaic tile base, porcelain tile base, resinous flooring, or integral vinyl cove base	
Ceiling:	
Restroom: Suspended, acoustical with high-impact, hold-down clips	095113
Shower: Painted portland cement plaster	092400/099100
or interior finish system	092513
Walls:	
Epoxy-painted concrete masonry units or	***042000***/099100
or ceramic wall tile in showers	093000
and latex paint in restroom	099100
LOOSE FURNISHINGS:	
Wastebaskets	

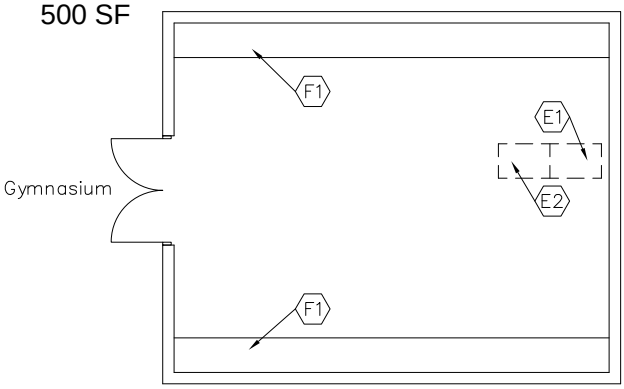
FEATURES[1]:	Spec. Ref.#
Fixed Items:	
F1 Towel dispensers	102813
F2 24" by 60" mirror	102813
F3 Toilet tissue holders	102813
F4 36” and 42” grab bars	102813
F5 Soap dispensers	102813
F6 Towel hooks	102813
F7 Shower curtain and rod	102813
F8 Toilet partitions	102813
F9 ADA shower accessories	102813
F10 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
Fire Suppression:	
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
HVAC:	
Supply/return air system	Div. 23
Exhaust air system	Div. 23
Electrical:	
Fluorescent lighting	265100
Illumination level: See Table 8600-4	
Single level switching	262726
1 duplex receptacle	262726
Emergency lighting	265100
Means of egress lighting per code	265100
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



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

PROGRAM ACTIVITIES:
- Storage for physical education equipment

SPATIAL RELATIONSHIPS:
- Adjacent to gymnasium
- Near P.E./athletic office

ENVIRONMENTAL CONSIDERATIONS:
N/A

NOTES:

PHYSICAL EDUCATION STORAGE

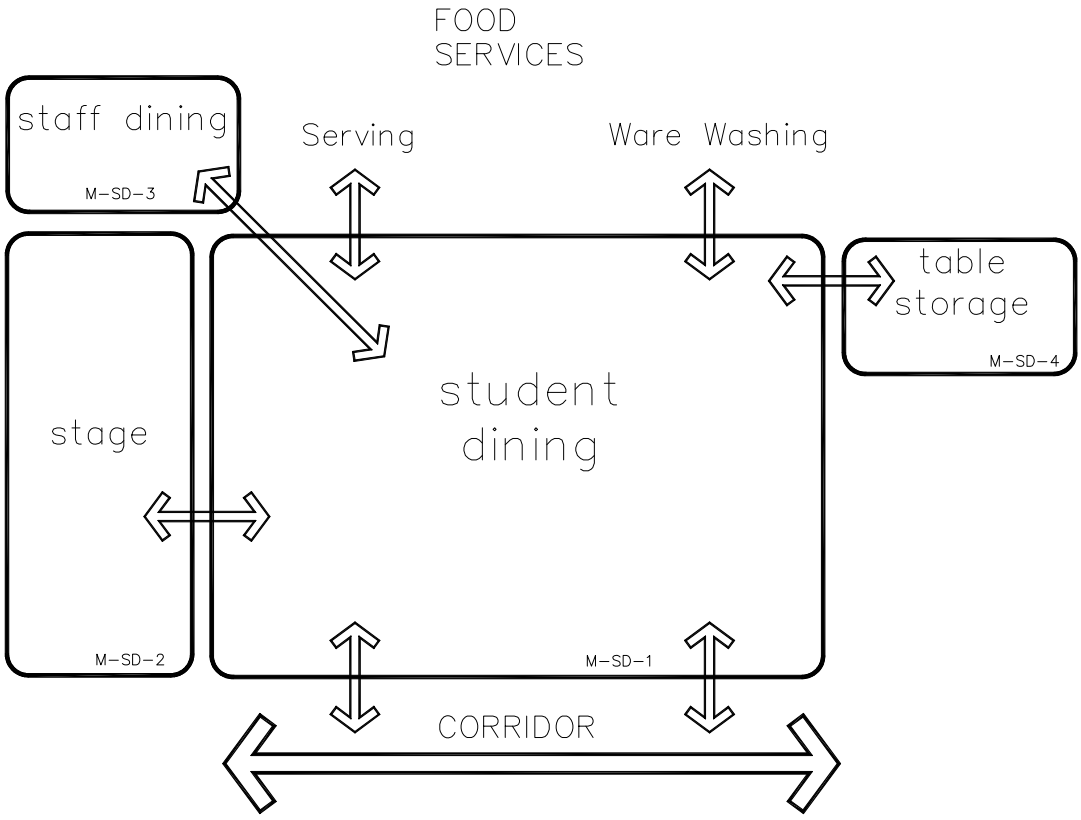
M-PE-6

FINISHES[1]:	Spec. Ref.#
Flooring:	
Cure and seal concrete	033000
Base:	
No base	
Ceiling:	
Exposed structure	
Option: Rated gypsum wallboard	092116
Walls:	
Unpainted concrete masonry units	042000
LOOSE FURNISHINGS:	
N/A	
EQUIPMENT:	
E1 Tumbling mats on carts	
E2 Ball carts	

FEATURES[1]:	Spec. Ref.#
Fixed Items[2]:	
F1 20' – 48' of open shelving, depths may vary (fixed or loose)	123550
Fire Suppression:	
Fire suppression system	211000
Plumbing:	
N/A	
HVAC:	
Exhaust air system	Div. 23
Supplemental heat as required	Div. 23
Electrical:	
Single level switching	262726
Fluorescent lighting	265100
Illumination level: See Table 8600-4	
1 duplex receptacle	262726
Communications:	
N/A	
Electronic Safety and Security:	
N/A	
Miscellaneous:	
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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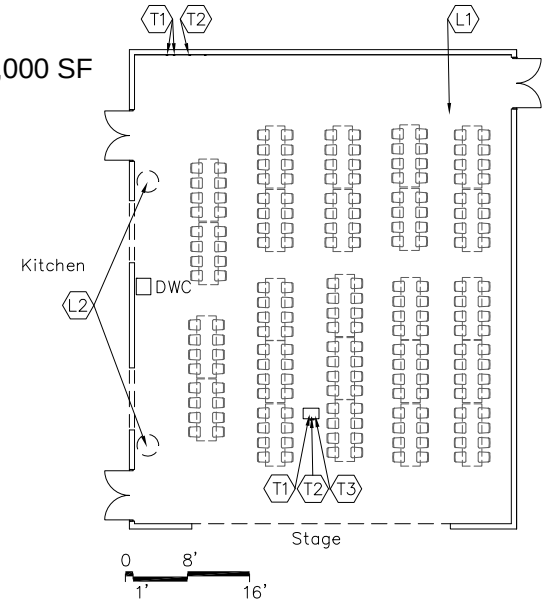
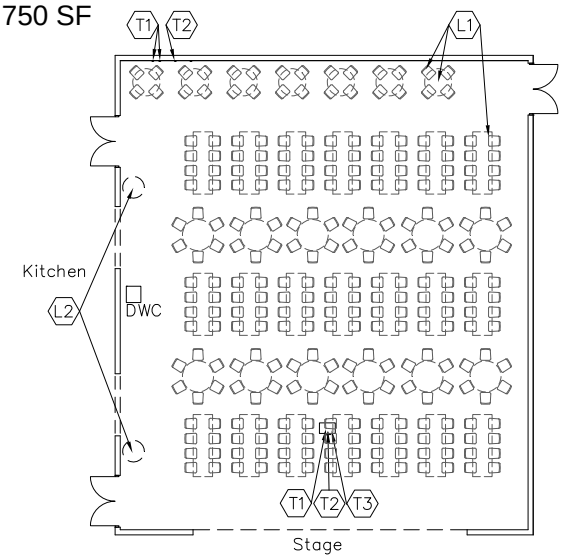
3,000 SF



3,750 SF



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:
- Uniform lighting
- 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

FINISHES[1]:	Spec. Ref.#
Flooring:	
Linoleum, rubber, ***ET***, sheet	096500
vinyl, porcelain tile, terrazzo	096516
tile, ***polished concrete***	093000
finishing, or colored	096616
finishing	***033510***
	033519
Base:	
Resilient base	096500
Optional: porcelain tile base	093000
Ceiling:	
Suspended, acoustical	095113
Walls:	
Painted concrete masonry units	042000/099100
Acoustical wall treatment and diffusers	098000

LOOSE FURNISHINGS:

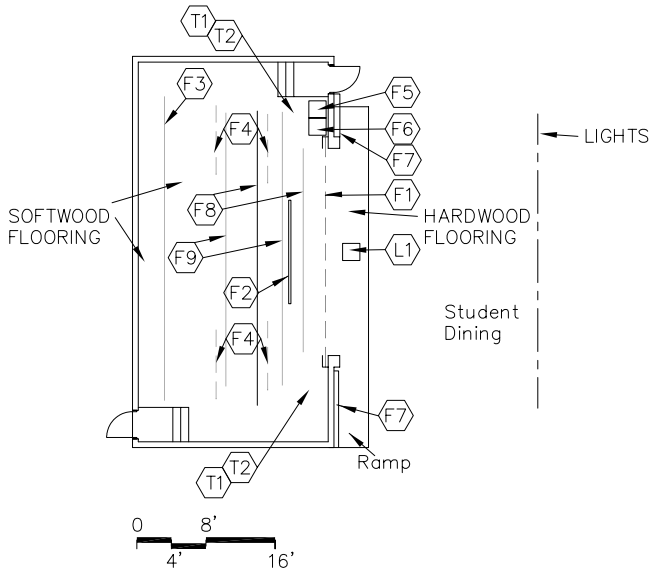
L1 Tables and chairs or long tables with attached stools
L2 Large waste receptacles
Folding or high density stack chairs for large assembly use
Carts for chairs
Recycling bins

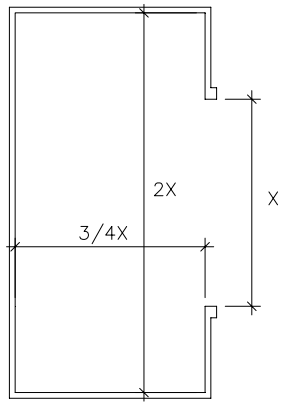
Note: Cafeteria tables with attached stools shall be securely anchored to walls when not in use or be kept in secure storage area when not in use.

FEATURES[1]:	Spec. Ref.#
Fixed Items:	
N/A	
Fire Suppression:	
Fire suppression system	211000
Plumbing:	
Drinking water cooler	224000
HVAC:	
Supply/return air system	Div. 23
Independent temp ctrl	230923
Electrical:	
Fluorescent lighting	265100
Illumination level: See Table 8600-4	
Multilevel switching	262726
8 duplex receptacles	262726
Double duplex receptacle adjacent to each data and video port	262726
Means of egress lighting per code	265100
Emergency lighting	265100
Telecommunications Grounding	270526/260526
Communications:	
T1 2 video ports	271533/271543
T2 2 data ports	271513
Clock	275313
Student dining/cafeteria sound system[2]	275122
Central sound system	275123
T3 Overhead projector	274119
Electronic Safety and Security:	
Life safety devices per code	283111
Miscellaneous:	
Windows with integral blinds or windows with shading devices (optional)	081113 /088000

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.





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

NOTES:

STAGE
M-SD-2

FINISHES[1]:	Spec. Ref.#
Flooring:	
Wood flooring, dark finish	096400
Stairs: carpet, rubber, or wood	
Base:	
Ventilated resilient base	096400
Ceiling:	
Painted, exposed structure	099100
Walls:	
Painted concrete masonry units	***042000***/099100

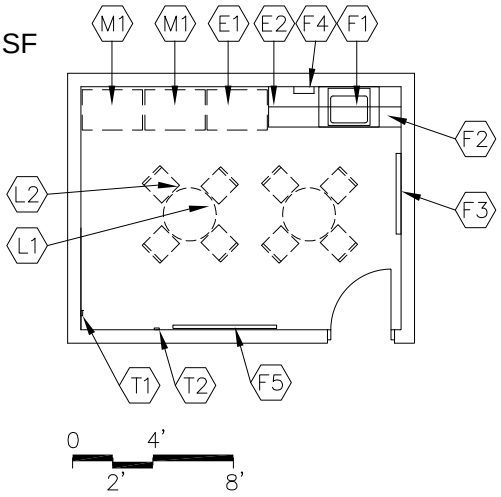
LOOSE FURNISHINGS:
L1 Podium

FEATURES[1]:	Spec. Ref.#
Fixed Items:	
F1 Front curtain, track, and valance or grand border	116143
F2 Projection screen	116143
F3 Rear curtain	116143
F4 Leg curtains, tracks, and/or pivots	116143
F5 Sound control console receptacle	275122
F6 Lighting control console receptacle	265100
F7 Pipe handrail	055000
F8 Light pipe	116143
F9 Border curtains	116143
Fire Suppression:	
Fire suppression system	211000
Plumbing:	
N/A	
HVAC:	
Supply/return air system	Div. 23
Temperature control with student dining space	230923
Electrical:	
Fluorescent lighting	265100
Illumination level: See Table 8600-4	
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
Communications:	
T1 2 video ports (1 on each side of the proscenium opening)	271533/271543/274119
T2 2 data ports (1 on each side of the proscenium opening)	271513
Student dining/cafeteria sound system[2]	275122
Electronic Safety and Security:	
Life safety devices per code	283111

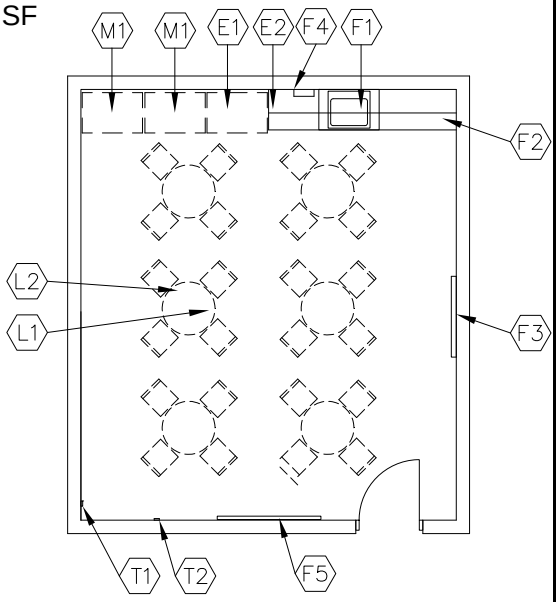
NOTES:

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.

200 SF



300 SF



CAPACITY:	8 – 24 staff
SIZE:	200 – 300 SF
ANCILLARY SPACES:	Student Dining M-SD-1

PROGRAM ACTIVITIES:
- Space for staff dining

SPATIAL RELATIONSHIPS:
- Near student dining
- Near food services

ENVIRONMENTAL CONSIDERATIONS:
- Uniform lighting
- Environmental sound control -
  walls minimum STC 50
  ceiling minimum CAC 35, NRC ***0.70***

NOTES:

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

STAFF DINING

M-SD-3

FINISHES[1]:	Spec. Ref.#
Flooring:	
Linoleum, ***ET***, sheet vinyl,	096500
rubber, porcelain tile,	096516
or terrazzo tile	093000
	096616
Base:	
Resilient base	096500
Optional: porcelain tile	093000
Ceiling:	
Suspended, acoustical	095113
Walls:	
Painted, concrete masonry units	042000/099100

LOOSE FURNISHINGS:
L1 Tables
L2 Chairs
Waste receptacle

EQUIPMENT:
E1 Refrigerator (could be fixed equipment)
E2 Microwave
Waste receptacle

FEATURES[1]:	Spec. Ref.#
Fixed Items:	
F1 3' sink base cabinet with wall cabinet above	123550
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
Fire Suppression:	
Fire suppression system	211000
Plumbing:	
Sink	224000
Plumbing connections	224000/221116/221119
HVAC:	
Supply/return air system	Div. 23
Independent temperature control	230923
Electrical:	
Single level switching	262726
Fluorescent lighting	265100
Illumination level: See Table 8600-4	
4 duplex receptacles	262726
Double duplex receptacle adjacent to each video port	262726
Receptacles for vending machines, refrigerator, and microwave	262726
Communications:	
T1 1 video port	271533/271543
T2 1 voice port and phone	271513/273113
Clock	275313
Central sound system	275123
Electronic Safety and Security:	
Life safety devices per code	283111

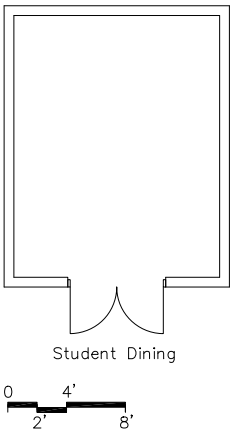
Miscellaneous:
The following items are to be funded by the school district:
M1 Vending machines

NOTES:

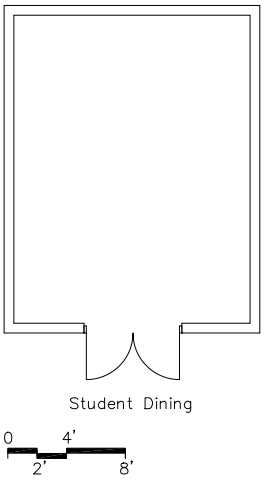
1. Finishes/Features: Refer to Chapter 9 for specification references.

TABLE STORAGE
M-SD-4

250 SF



300 SF



CAPACITY:	N/A
SIZE:	250 - 300 SF
ANCILLARY SPACES:	Student Dining M-SD-1

PROGRAM ACTIVITIES:
- Storage for tables and chairs

SPATIAL RELATIONSHIPS:
- Adjacent to student dining
- Near food services

ENVIRONMENTAL CONSIDERATIONS:
- Uniform lighting

NOTES:

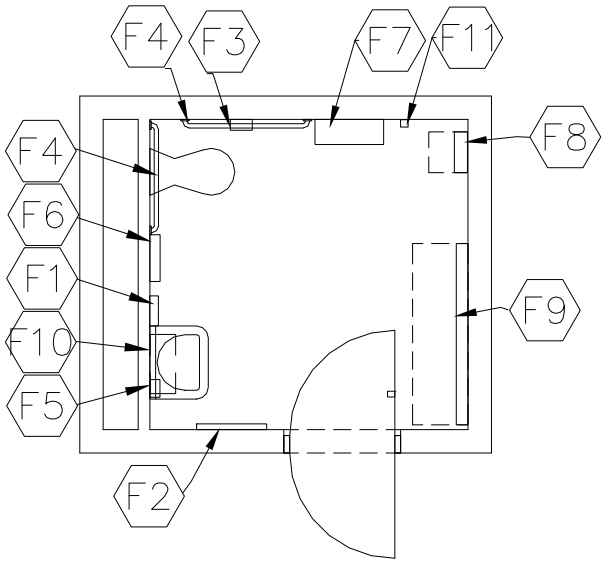
TABLE STORAGE
M-SD-4

FINISHES[1]:	Spec. Ref.#
Flooring:	
Cure and seal concrete	033000
Base:	
No base	
Ceiling:	
Exposed structure	
Option: Rated gypsum wallboard	092116
Walls:	
Unpainted concrete masonry units	042000
LOOSE FURNISHINGS:	
N/A	

FEATURES[1]:	Spec. Ref.#
Fixed Items:	
N/A	
Fire Suppression:	
Fire suppression system	211000
Plumbing:	
N/A	
HVAC:	
Exhaust air system	Div. 23
Supplemental heat as required	Div. 23
Electrical:	
Single level switching	262726
Fluorescent lighting	265100
Illumination level: See Table 8600-4	
1 duplex receptacle	262726
Communications::	
N/A	
Electronic Safety and Security:	
N/A	
Miscellaneous:	
N/A	

NOTES:

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



CAPACITY: 2 people
SIZE: 80 SF

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

NOTES:

FAMILY RESTROOM
M-SD-5

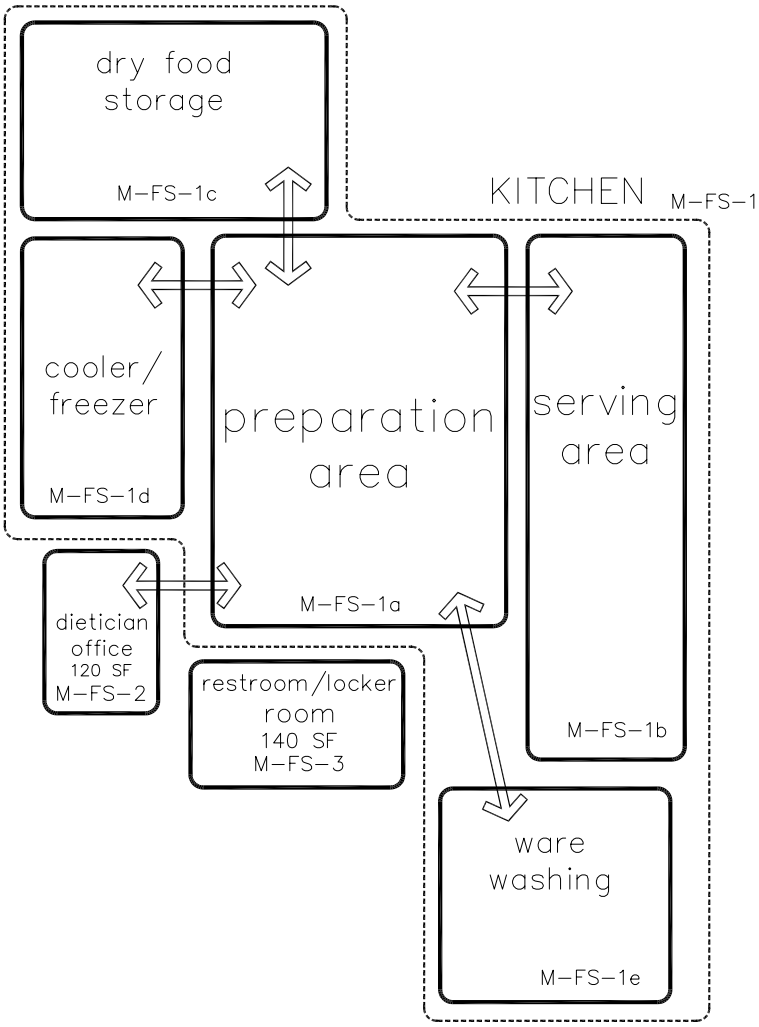
FINISHES[1]:	Spec. Ref.#
Flooring:	
Linoleum, rubber, ***ET***,	096516
or sheet vinyl	096500
Optional: Ceramic mosaic tile,	093000
porcelain tile, or	096723
resinous flooring	
Base:	
Resilient base	096500
Optional: Ceramic mosaic tile,	093000
porcelain tile, resinous flooring	096723
flooring, or integral vinyl cove base	
Ceiling:	
Suspended, acoustical	095113
Walls:	
Painted concrete masonry units	042000/099100

LOOSE FURNISHINGS:
Wastebasket

FEATURES[1]:	Spec. Ref.#
Fixed Items:	
F1 Towel dispenser	102813
F2 24" x 60" mirror	102813
F3 Toilet tissue holder	102813
F4 36" and 42" grab bar	102813
F5 Soap dispenser	102813
F6 Sanitary napkin dispenser/disposal	102813
F7 Folding utility shelf	102813
F8 Mounted child seat	102813
F9 Adult/child changing station	102813
F10 16” x 24” mirror with shelf	102813
F11 Coat hooks	102813
Fire Suppression:	
Fire suppression system	211000
Plumbing:	
Wall-mounted water closet	224000
Wall-mounted lavatory	224000
Plumbing connections	224000/221116/221119
HVAC:	
Exhaust air system	Div. 23
Supplemental heat as required	Div. 23
Electrical:	
Single level switching	262726
Fluorescent lighting	265100
Illumination level: See Table 8600-4	
1 duplex receptacle	262726
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.



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.

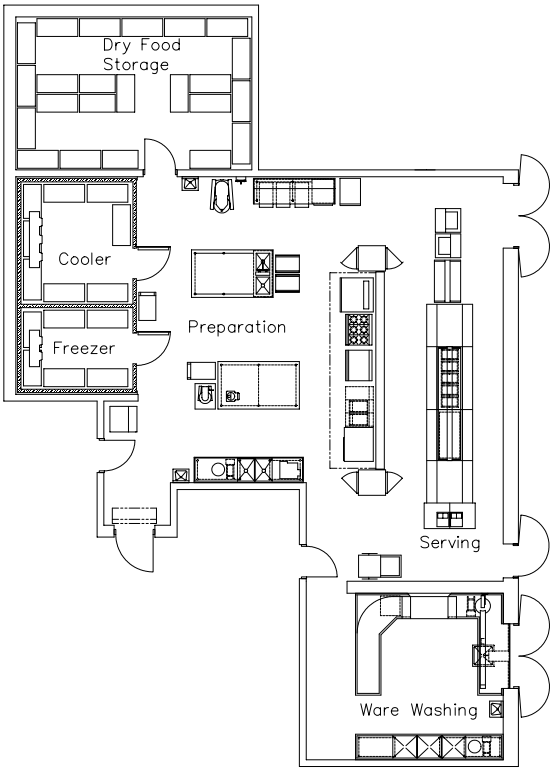
Following are the Food Service space plates:

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:

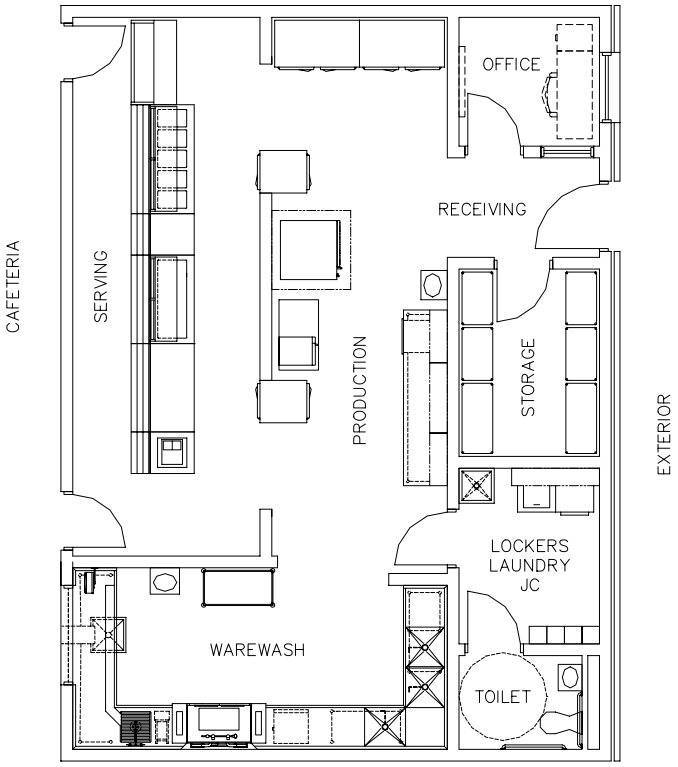
This kitchen layout is to be used only for a central kitchen operation.

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



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

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.

NOTES:

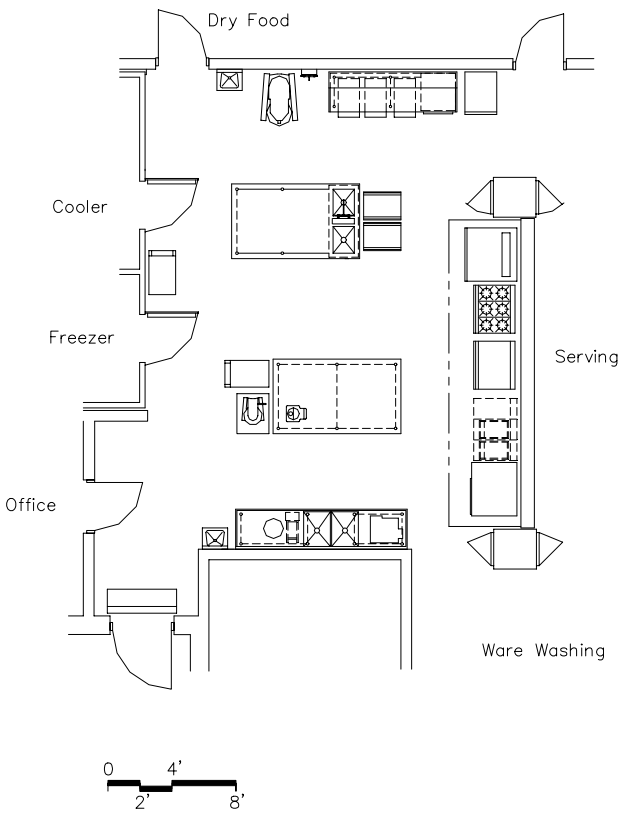
WARMING KITCHEN
M-FS-0

FINISHES[1]:	Spec. Ref.#
Flooring:	
Quarry tile	093000
Base:	
Quarry tile base	093000
Ceiling:	
Cleanable, suspended, acoustical	095113
Walls:	
Epoxy-painted concrete masonry units	***042000***/0991000
Option: Ceramic wall tile	093000
or latex paint	099100

LOOSE FURNISHINGS:
N/A

FEATURES[1]:	Spec. Ref.#
Fixed Items:	
Food service equipment	114000
Fire Suppression:	
Fire suppression system	211000
Plumbing:	
Connections to food service eqpt.	224000
Plumbing connections	224000/221116/221119
Hand washing lavatory	224000
Gas connection	226313
HVAC:	
Supply/return air system	Div. 23
Independent temp control	230923
Kitchen canopy exhaust system	233800
Electrical:	
Dual level switching	262726
Fluorescent lighting	265100
Illumination level: See Table 8600-4	
10 duplex receptacles	262726
Emergency lighting	265100
Connections to food service eqpt.	262726
Means of egress lighting per code	265100
Communications:	
1 voice port and phone	271513/273113
1 data port at cash register(s)	271513
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 and refer to Chapter 10 for a list of possible food service equipment.



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

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

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

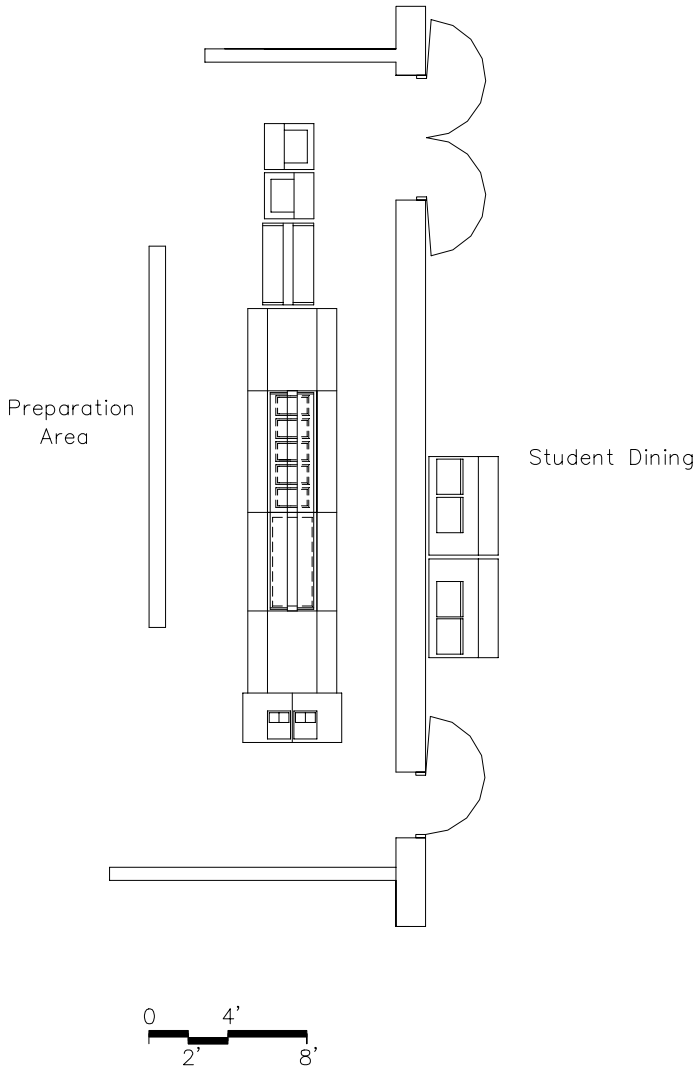
FINISHES[1]:	Spec. Ref.#
Flooring:	
Quarry tile	093000
Base:	
Quarry tile base	093000
Ceiling:	
Cleanable, suspended, acoustical	095113
Walls:	
Epoxy-painted concrete masonry units	***042000***/099100
Option: Ceramic wall tile	093000
or latex paint	099100

LOOSE FURNISHINGS:
N/A

FEATURES[1]:	Spec. Ref.#
Fixed Items:	
Food service equipment	114000
Fire Suppression:	
Fire suppression system	211000
Plumbing:	
Connections to food service equipment	224000
Plumbing connections	224000/221116/221119
Hand washing lavatory	224000
Gas connections	226313
HVAC:	
Supply/return air system	Div. 23
Independent temperature control	230923
Kitchen canopy exhaust system	233800
Electrical:	
Dual level switching	262726
Fluorescent lighting	265100
Illumination level: See Table 8600-4	
4 duplex receptacles	262726
Emergency lighting	265100
Connections to food service equipment	262726
Means of egress lighting per code	265100
Communications:	
1 voice port and phone	271513/273113
Clock	275313
Central sound system	275123
Electronic Safety and Security:	
Life safety devices per code	238111
Miscellaneous:	
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.



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

PROGRAM ACTIVITIES:
- Space for serving of food

SPATIAL RELATIONSHIPS:
- Adjacent to student dining
- Adjacent to preparation area

ENVIRONMENTAL CONSIDERATIONS:
- Uniform lighting
- Cleanable building services

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

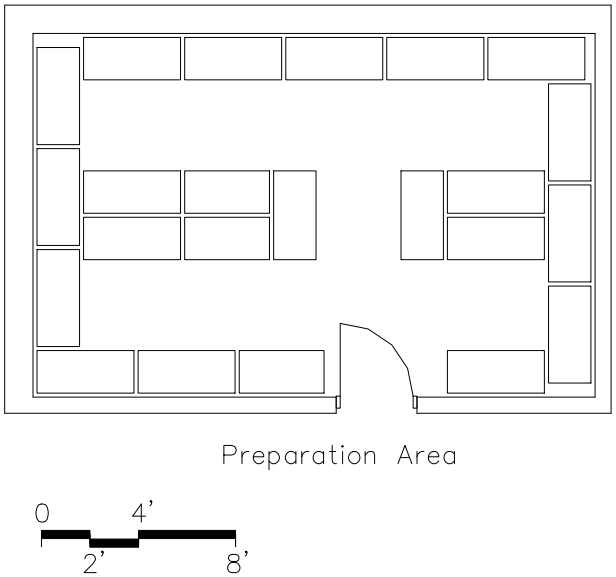
FINISHES[1]:	Spec. Ref.#
Flooring:	
Quarry tile	093000
Optional: porcelain tile	093000
Base:	
Quarry tile base	093000
Optional: porcelain tile base	093000
Ceiling:	
Cleanable, suspended, acoustical	095113
Walls:	
Epoxy-painted concrete masonry units	***042000***/099100
Option: Ceramic wall tile	093000
or latex paint	099100

LOOSE FURNISHINGS:
N/A

FEATURES[1]:	Spec. Ref.#
Fixed Items:	
Food service equipment	114000
Fire Suppression:	
Fire suppression system	211000
Plumbing:	
Connections to food service equipment	224000
HVAC:	
Supply/return air system	Div. 23
Electrical:	
Dual level switching	262726
Fluorescent lighting	265100
Illumination level: See Table 8600-4	
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
Communications:	
Data port(s) at cash register(s)	271513
Clock	275313
Central sound system	275123
1 Voice port and phone	271513/273113
Electronic Safety and Security:	
Life safety devices per code	283111
Miscellaneous:	
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.



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

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:

- Uniform lighting
- Continuous conditioning of air
- Cleanable building surfaces

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

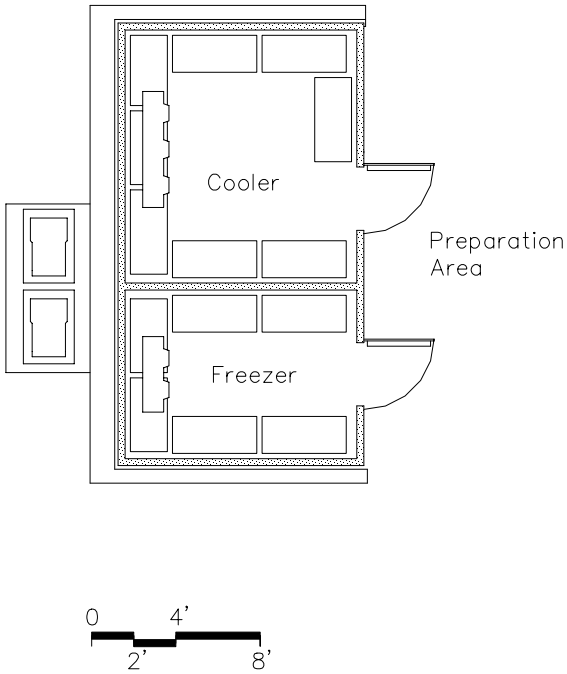
FINISHES[1]:	Spec. Ref.#
Flooring:	
Linoleum, ***ET***, or sheet vinyl	096500
Option: Quarry tile	093000 096516
Base:	
Resilient base	096500
Option: Quarry tile	093000
Ceiling:	
Cleanable, suspended, acoustical	095113
Walls:	
Epoxy-painted concrete masonry units	042000/099100
Option: Ceramic wall tile	093000
or latex paint	099100

LOOSE FURNISHINGS:
N/A

FEATURES[1]:	Spec. Ref.#
Fixed Items:	
Food service equipment	114000
Fire Suppression:	
Fire suppression system	211000
Plumbing:	
N/A	
HVAC:	
Exhaust air system	Div. 23
Supply/return air system	Div. 23
Electrical:	
Single level switching	262726
Fluorescent lighting	265100
Illumination level: See Table 8600-4	
1 duplex receptacle	262726
Communications:	
N/A	
Electronic Safety and Security:	
Life safety devices per code	283111
Miscellaneous:	
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.



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

PROGRAM ACTIVITIES:
- Space for refrigerated storage of perishable products

SPATIAL RELATIONSHIPS:
- Adjacent to food preparation area
- Access to the loading/receiving area

ENVIRONMENTAL CONSIDERATIONS:
- Uniform lighting
- Ventilation for refrigeration machinery
- Cleanable building surfaces
- Floor to be flush with adjacent kitchen floor

NOTES:

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

KITCHEN - Cooler/Freezer

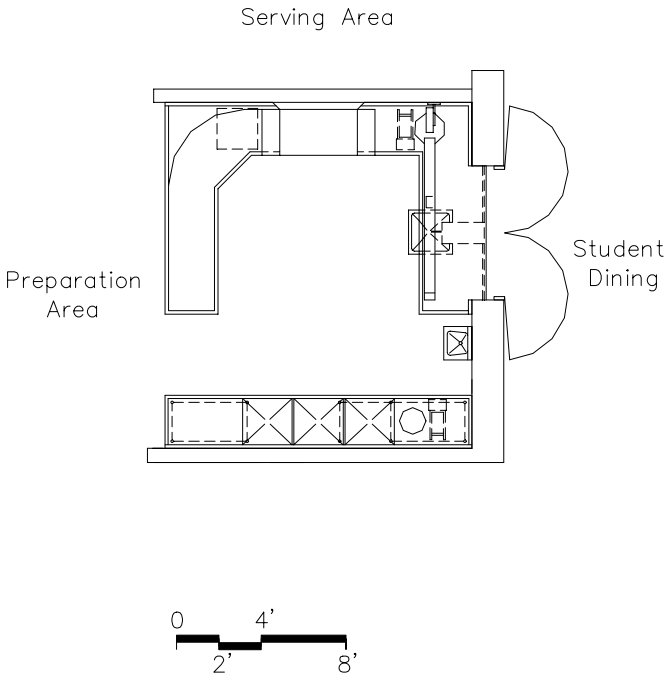
M-FS-1d

FINISHES[1]:	Spec. Ref.#
Flooring:	
Quarry tile	***093000***
Base:	
Quarry tile base	***093000***
Ceiling:	
Manufactured insulated panel	***114000***
Walls:	
Manufactured insulated panel	***114000***
LOOSE FURNISHINGS:	
N/A	

FEATURES[1]:	Spec. Ref.#
Fixed Items:	
Food service equipment	***114000***
Fire Suppression:	
Fire ***suppression*** system	***211000***
Plumbing:	
N/A	
HVAC:	
Exhaust air system for compressors	Div. ***23***
Electrical:	
Single level switching	***262726***
Incandescent lighting	***265100***
Illumination level: See Table ***8600-4***	
Electrical connections to freezer/cooler refrigeration equipment	***262726***
Communications:	
N/A	
Electronic Safety and Security:	
N/A	
Miscellaneous:	
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.



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

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

SPATIAL RELATIONSHIPS:
- Adjacent to student dining

ENVIRONMENTAL CONSIDERATIONS:
- Uniform lighting
- Proper ventilation of space to remove steam and condensation
- Cleanable building surfaces

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

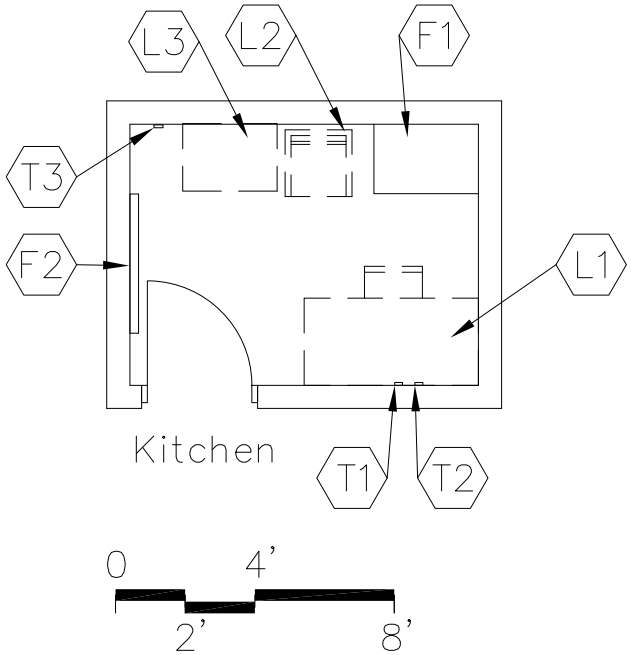
M-FS-1e

FINISHES[1]:	Spec. Ref.#
Flooring:	
Quarry tile	093000
Base:	
Quarry tile base	093000
Ceiling:	
Cleanable, suspended, acoustical	095113
Walls:	
Epoxy-painted concrete masonry units	***042000***/099100
Option: Ceramic wall tile	093000
or latex paint	099100
LOOSE FURNISHINGS:	
N/A	

FEATURES[1]:	Spec. Ref.#
Fixed Items:	
Food service equipment	114000
Fire Suppression:	
Fire suppression system	211000
Plumbing:	
Lavatory	224000
Connections to food service equipment	224000
HVAC:	
Supply/return air system	Div. 23
Independent temperature control	230923
Exhaust hood system	Div. 23
Electrical:	
Dual level switching	262726
Fluorescent lighting	265100
Illumination level: See Table 8600-4	
1 duplex receptacle	262726
Connections to food service equipment	262726
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 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:

- Uniform lighting
- 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

FINISHES[1]:	Spec. Ref.#
Flooring:	
Linoleum, ***ET***, or sheet vinyl	096500
	096516
Option: Quarry tile	093000
Base:	
Resilient base	096500
Option: Quarry tile	093000
Ceiling:	
Suspended, acoustical	095113
Walls:	
Painted concrete masonry units	042000/199100

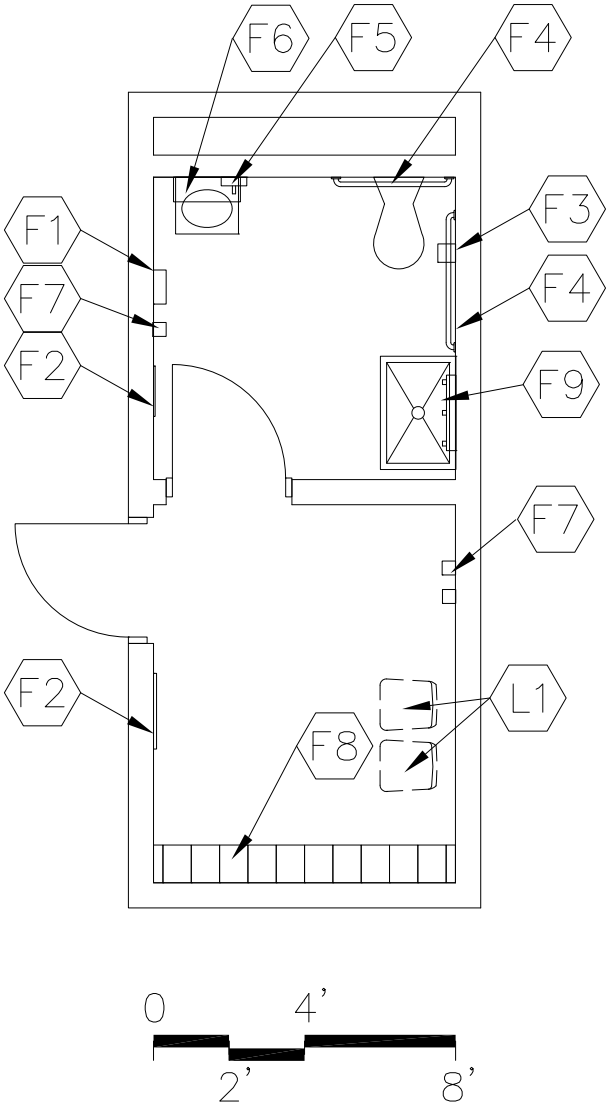
LOOSE FURNISHINGS:

L1 Desk and chair
L2 Visitor chair
L3 File cabinet
Wastebasket

FEATURES[1]:	Spec. Ref.#
Fixed Items:	
F1 2' of tall wardrobe (optional)	123550
F2 4' of tack board	101100
Fire Suppression:	
Fire suppression system	211000
Plumbing:	
N/A	
HVAC:	
Supply/return air system	Div. 23
Independent temp control (coupled with similarly loaded adjacent spaces)	230923
Electrical:	
Single level switching	262726
Fluorescent lighting	265100
Illumination level: See Table 8600-4	
4 duplex receptacles	262726
Double duplex receptacle adjacent to data and video port	262726
Communications:	
T1 1 voice port and phone	271513/273113
T2 1 data port near workstation	271513
T3 1 video port	271533/271543
Central sound system	275123
Clock	275313
Electronic Safety and Security:	
Life safety devices per code	283111
Miscellaneous:	
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:
- Uniform lighting
- 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

FINISHES[1]:	Spec. Ref.#
Flooring:	
Linoleum, ***ET***, sheet vinyl,	096516
rubber, rubber tile, or	096500
Optional: quarry tile	093000
Base:	
Resilient base	096500
Optional: quarry tile, or	093000
integral vinyl cove base	
Ceiling:	
Suspended, acoustical	095113
Walls:	
Painted concrete masonry units	042000/099100

LOOSE FURNISHINGS:

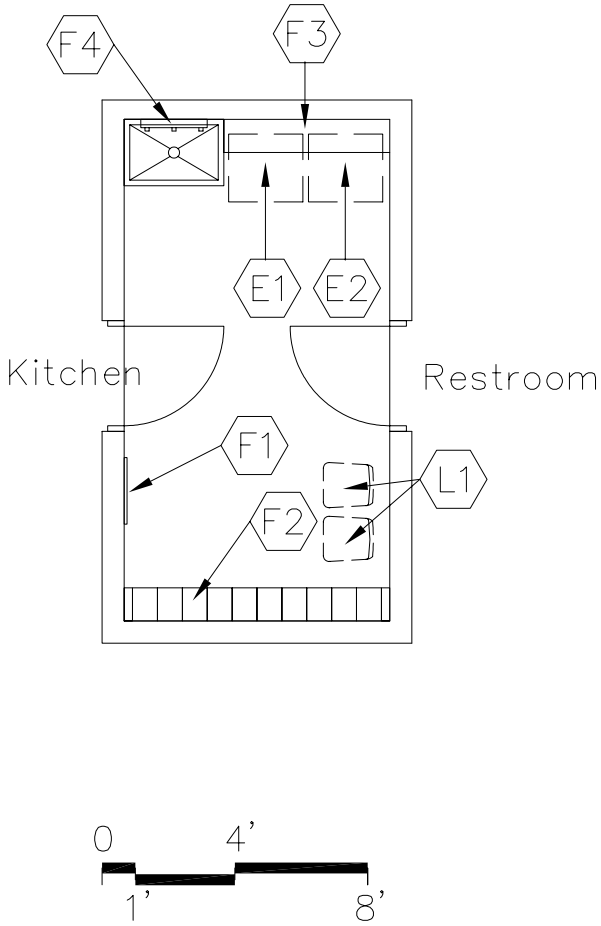
L1 Chairs

Wastebasket

FEATURES[1]:	Spec. Ref.#
Fixed Items:	
F1 Towel dispenser	102813
F2 ***2,*** 24" x 60" mirrors	102813
F3 Toilet tissue holder	102813
F4 36" and 42" grab bar	102813
F5 Soap dispenser	102813
F6 Mirror with shelf above sink(optional)	102813
F7 Coat hook***s***	102813
F8 Lockers 12" x 12" x 60"	***105113***
F9 Mop holder	***102813***
Fire Suppression:	
Fire suppression system	211000
Plumbing:	
Wall-mounted water closet	224000
Wall-mounted lavatory	224000
Floor service sink	***224000***
Plumbing connections	224000/221116/221119
HVAC:	
Exhaust air system	Div. 23
Supplemental heat as required	Div. 23
Electrical:	
Single level switching	262726
Fluorescent lighting	265100
Illumination level: See Table 8600-4	
2 duplex receptacles	262726
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.



CAPACITY: 2 persons
SIZE: 125 SF
ANCILLARY SPACES: Kitchen, M-FS-1
Restroom, M-FS-3

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.

SPATIAL RELATIONSHIPS:

- Adjacent to kitchen
- Adjacent to restroom

ENVIRONMENTAL CONSIDERATIONS:

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

NOTES:

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

LOCKER ROOM
M-FS-4

FINISHES[1]:	Spec. Ref.#
Flooring:	
Sheet vinyl, rubber, rubber tile, or resinous flooring	096500 096723
Base:	
Resilient base, resinous flooring, or integral vinyl cove base	096500 096723
Ceiling:	
Suspended, acoustical with high-impact, hold-down clips	095113
Option: exposed, painted pre-cast units	099100
Walls:	
Painted concrete masonry units	***042000***/099100

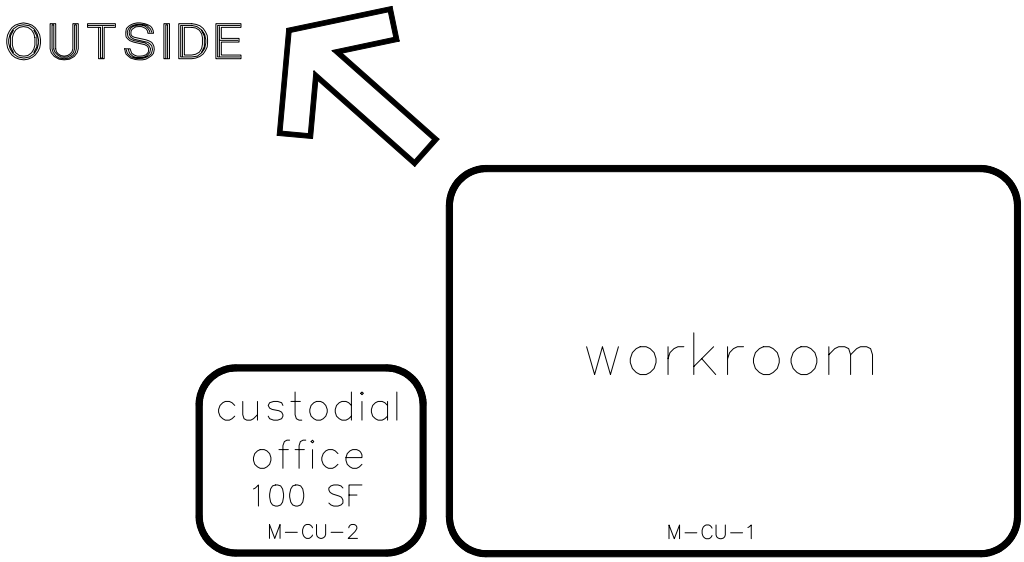
LOOSE FURNISHINGS:
L1 Chairs
Wastebasket

EQUIPMENT:
E1 Washer
E2 Dryer

FEATURES[1]:	Spec. Ref.#
Fixed Items:	
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
Fire Suppression:	
Fire suppression system	211000
Plumbing:	
Plumbing connections	224000/221116/221119
Floor service sink	224000
Washer connection	224000
HVAC:	
Exhaust air system	Div. 23
Supplemental heat as required	Div. 23
Dryer vent system	Div. 23
Electrical:	
Single level switching	262726
Fluorescent lighting	265100
Illumination level: See Table 8600-4	
1 duplex receptacle	262726
Connections for washer and dryer	262726
Communications:	
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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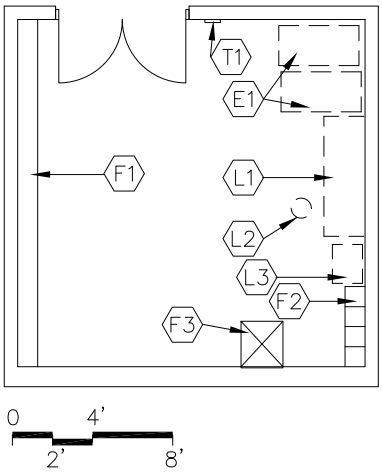
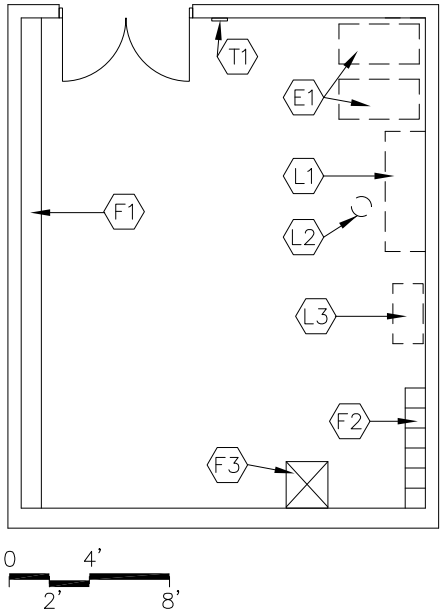
200 SF



400 SF



CAPACITY: N/A
SIZE: 200 - 400 SF

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:
- Uniform lighting

NOTES:

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

WORKROOM
M-CU-1

FINISHES[1]:	Spec. Ref.#
Flooring:	
Polished concrete finishing, or	***033510***
colored concrete finishing	***033519***
Base:	
Resilient base	096500
Ceiling:	
Suspended, acoustical	095113
Walls:	
Painted concrete masonry units	042000/099100

LOOSE FURNISHINGS:
L1 Workbench
L2 Stool
L3 Tool cabinet
Waste receptacles

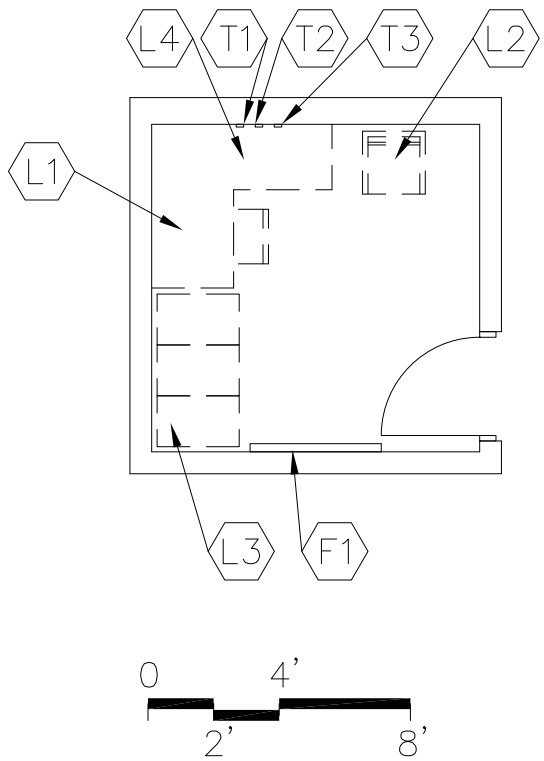
EQUIPMENT:
E1 Recycling bins

FEATURES[1]:	Spec. Ref.#
Fixed Items[2]:	
F1 10' - 24' of open shelving, depths may vary (fixed or loose)	123550
F2 4 - 6 lockers	105113
F3 Mop holder	102813
Fire Suppression:	
Fire suppression system	211000
Plumbing:	
Floor service sink	224000
HVAC:	
Supply/return air system	Div. 23
Independent temperature control	230923
Electrical:	
Fluorescent lighting	265100
Illumination level: See Table 8600-4	
Single level switching	262726
4 duplex receptacles (minimum)	262726
Electrical receptacles for custodial equipment	262726
Communications:	
T1 1 voice port and phone	271513/273113
Central sound system	275123
Clock	275313
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. Ranges shown indicate quantities for the smallest and largest possible room size.

CUSTODIAL OFFICE
M-CU-2



CAPACITY: N/A
SIZE: 100 SF

PROGRAM ACTIVITIES:
- Office for the custodian for scheduling, ordering, and inventory

SPATIAL RELATIONSHIPS:
- Near custodial workroom

ENVIRONMENTAL CONSIDERATIONS:
- Uniform lighting
- 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.

CUSTODIAL OFFICE
M-CU-2

FINISHES[1]:	Spec. Ref.#
Flooring:	
Vinyl composition tile, linoleum,	096500
ET, sheet vinyl,	096516
polished concrete finishing,or	***033510***
colored concrete finishing	***033519***
Base:	
Resilient base	096500
Ceiling:	
Suspended, acoustical	095113
Walls:	
Painted concrete masonry units	042000/099100

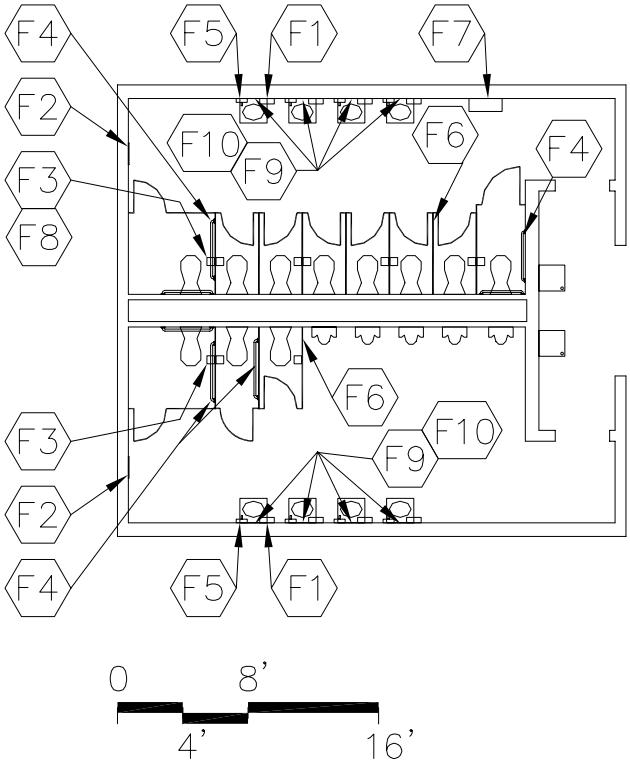
LOOSE FURNISHINGS:
L1 Desk and chair
L2 Visitor chair
L3 File cabinets
L4 Computer desk return
Wastebasket

FEATURES[1]:	Spec. Ref.#
Fixed Items:	
F1 4' of tack board (optional)	101100
Fire Suppression:	
Fire suppression system	211000
Plumbing:	
N/A	
HVAC:	
Supply/return air system	Div. 23
Independent temperature control (coupled with similarly loaded adjacent spaces)	230923
Electrical:	
Single level switching	262726
Fluorescent lighting	265100
Illumination level: See Table 8600-4	
4 duplex receptacles	262726
Double duplex receptacle adjacent to data and modem port	262726
Communications:	
T1 Modem port for temperature controls computer	271523
T2 1 voice port and phone	271513/273113
T3 1 data port near workstation	271513
Central sound system	275123
Clock	275313
Electronic Safety and Security:	
Life safety devices per code	283111
Miscellaneous:	
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:
- Uniform lighting
- 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

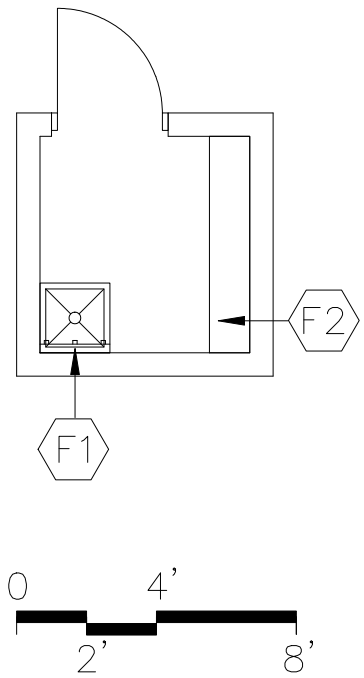
M-BS-1

FINISHES[1]:	Spec. Ref.#
Flooring:	
Ceramic mosaic tile	093000
Optional: porcelain tile,	096616
terrazzo tile, rubber, or	096723
resinous flooring	
Base:	
Ceramic mosaic tile base	093000
Optional: structural glazed tile,	042000
porcelain tile base, or	096723
resinous flooring	
Ceiling:	
Suspended, acoustical	095113
Optional: Abuse resistant gypsum wallboard	092116
Walls:	
Painted concrete masonry units	***042000***/099100
LOOSE FURNISHINGS:	
Waste Receptacles	

FEATURES[1]:	Spec. Ref.#
Fixed Items:	
F1 Towel dispensers	102813
F2 24" x 60" mirror	102813
F3 Toilet tissue holders	102813
F4 36" and 42" grab bar	102813
F5 Soap dispensers	102813
F6 Toilet partitions	102113
F7 Sanitary product dispenser	102813
F8 Sanitary product receptacles	102813
F9 16" x 24" mirrors with shelf (optional)	102813
F10 Shelves (optional)	123550
Fire Suppression:	
Fire suppression system	211000
Plumbing:	
Wall-mounted water closets	224000
Wall-mounted urinals	224000
Wall-mounted lavatories or wash fountains	224000
Wall hydrants	224000
Plumbing connections	224000/221116/221119
Drinking water coolers	224000
HVAC:	
Exhaust air system	Div. 23
Supplemental heat as required	Div. 23
Electrical:	
Single level switching	262726
Fluorescent lighting	265100
Illumination level: See Table 8600-4	
1 duplex receptacle	262726
Emergency lighting	265100
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. Optional: electric hand dryers

CUSTODIAL CLOSET
M-BS-2



CAPACITY: N/A
SIZE: 50 SF

PROGRAM ACTIVITIES:
- Space for storage of custodial supplies throughout the building

SPATIAL RELATIONSHIPS:
- Near large group restrooms

ENVIRONMENTAL CONSIDERATIONS:
- Uniform lighting

NOTES:

CUSTODIAL CLOSET
M-BS-2

FINISHES[1]:	Spec. Ref.#
Flooring:	
Cure and seal concrete or	033000
Vinyl composition tile (optional)	096500
Base:	
Resilient base	096500
Ceiling:	
Cleanable, suspended, acoustical	095113
Walls:	
Painted concrete masonry units	042000/099100

LOOSE FURNISHINGS:
N/A

FEATURES[1]:	Spec. Ref.#
Fixed Items:	
F1 Mop holder	102813
F2 Fixed or loose shelving (optional)	123550
Fire Suppression:	
Fire suppression system	211000
Plumbing:	
Service sink or floor drain sink	224000
Plumbing connections	224000/221116/221119
HVAC:	
Exhaust air system	Div. 23
Electrical:	
Single level switching	262726
Fluorescent lighting	265100
Illumination level: See Table 8600-4	
1 duplex receptacle	262726

Communications:
N/A

Electronic Safety and Security:
N/A

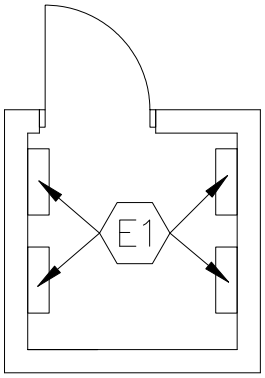
Miscellaneous:
N/A

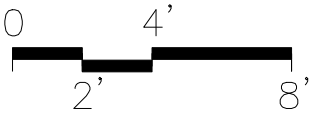
NOTES:

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

ELECTRICAL CLOSET
M-BS-3

Space to be determined by Design Professional.





CAPACITY: N/A
SIZE: 50 SF

PROGRAM ACTIVITIES:
- Space for electrical wiring and panels

SPATIAL RELATIONSHIPS:
N/A

ENVIRONMENTAL CONSIDERATIONS:
- Uniform lighting

NOTES:

ELECTRICAL CLOSET
M-BS-3

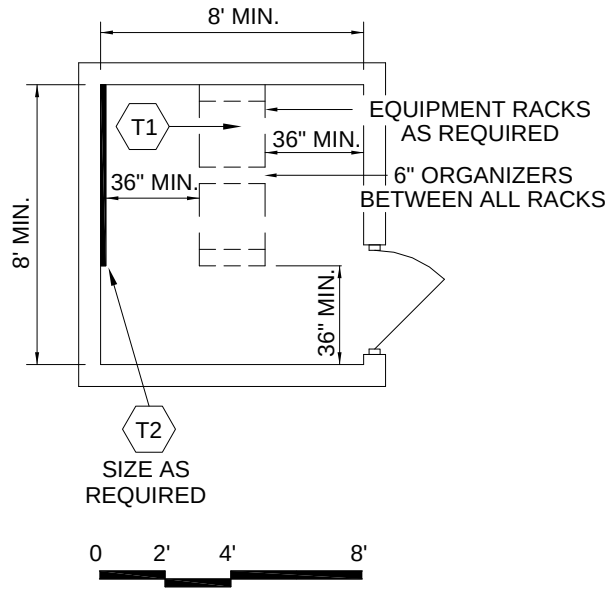
FINISHES[1]:	Spec. Ref.#
Flooring:	
Cure and seal concrete	033000
Base:	
No base	
Ceiling:	
Exposed structure	---
Walls:	
Unpainted concrete masonry units	042000

LOOSE FURNISHINGS:
N/A

FEATURES[1]:	Spec. Ref.#
Fixed Items:	
N/A	
Fire Suppression:	
Fire suppression system	211000
Plumbing:	
N/A	
HVAC:	
To be determined by Design Professional	
Electrical:	
Single level switching	262726
Fluorescent lighting	265100
Illumination level: See Table 8600-4	
1 duplex receptacle	262726
E1 Electrical switchboard	262413/262416
Communications:	
N/A	
Electronic Safety and Security:	
N/A	
Miscellaneous:	
N/A	

NOTES:

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



CAPACITY: N/A

SIZE:

0-75,000 SF =	***(?) 8 ft. x 8 ft. min.***
75,00-150,000 SF =	***(1) 8 ft. x 10 ft., and (?) 8 ft. x 8 ft.***
150,000 SF plus =	***(2) 8 ft. x 10 ft., and (?) 8 ft. x 8 ft.***

PROGRAM ACTIVITIES:

- Space for technology needs

SPATIAL RELATIONSHIPS:

N/A

ENVIRONMENTAL CONSIDERATIONS:

- Uniform lighting

NOTES:

1. This is an example of a telecommunications room. The equipment and layout will vary from school district to school district.

TELECOMMUNICATIONS ROOM
M-BS-4

FINISHES[1]:	Spec. Ref.#
Flooring:	
Polished concrete finishing, or	***033510***
colored concrete finishing	***033519***
Base:	
No base	
Ceiling:	
Exposed structure	---
Walls:	
Unpainted concrete masonry units	042000
LOOSE FURNISHINGS:	
N/A	

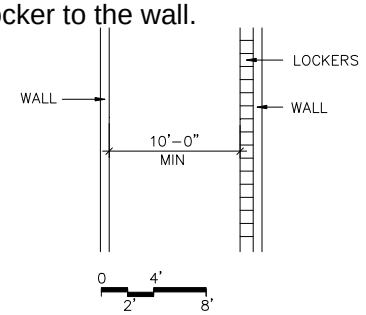
FEATURES[1]:	Spec. Ref.#
Fixed Items:	
N/A	
Fire Suppression:	
Fire suppression system	211000
Plumbing:	
N/A	
HVAC:	
Exhaust air system	Div. 23
Electrical:	
Single level switching	262726
Fluorescent lighting	265100
Illumination level: See Table 8600-4	
1 duplex receptacle	262726
Receptacles for data equipment	262726
Telecommunications Grounding	270526/260526
Communications:	
T1 Technology equipment	
Central sound system	275123
Telephone Wiring	271313/271513
Integrated Telephone System	273113
Video Wiring	271333/271533/271543
Digital on Demand Delivery System	274125
Local Area Network Wiring	271513/271323
Local Area Network Electronics	272100
Grounding & Infrastructure Equipment	270526/271100
T2 1/4” plywood back board	271313
Electronic Safety and Security:	
Security System	281300/281600/282300
Miscellaneous:	
N/A	

NOTES:

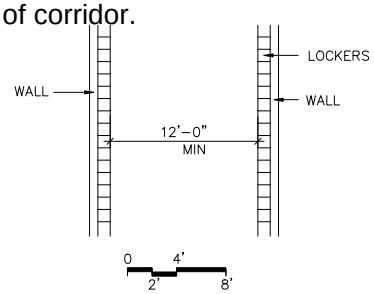
1. Finishes/Features: Refer to Chapter 9 for specification references.

- 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.

NOTES:

CORRIDORS
M-BS-5

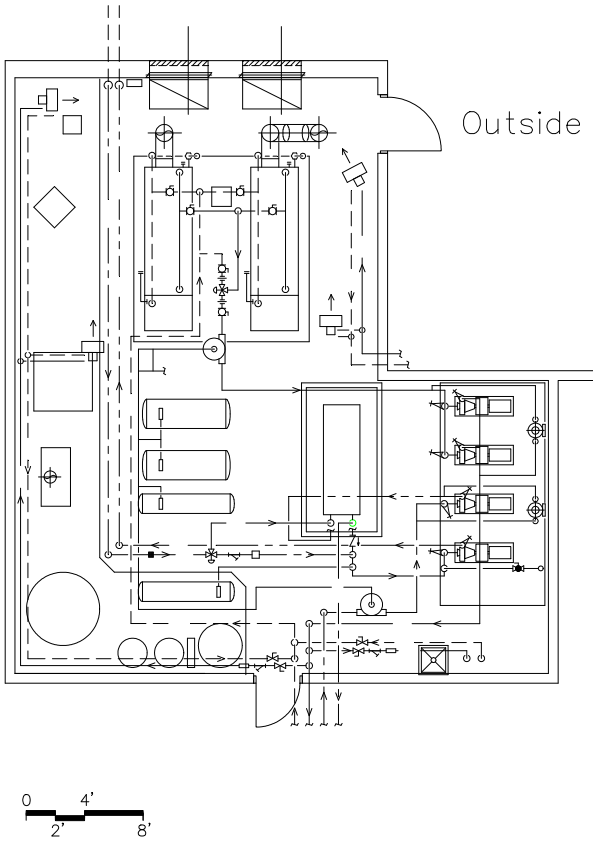
FINISHES[1]:	Spec. Ref.#
Flooring[2]:	
Vinyl composition tile, linoleum,	096516
ET, sheet vinyl,	096500
rubber, or carpet	096816
Base:	
Resilient base	096500
Optional: structural glazed tile	042000
Ceiling:	
Suspended, acoustical	095113
Option in vestibules: Abuse resistant gypsum wallboard	092116
Walls:	
Painted concrete masonry units	042000/099100
LOOSE FURNISHINGS	
Recycling bins and waste receptacles	
Fixed or loose benches	

NOTE: At entries adjacent to dining/ commons area, match dining/commons flooring.

FEATURES[1]:	Spec. Ref.#
Fixed Items:	
Corridor lockers	105113
Fire extinguishers and cabinets	104400
Recessed vinyl floor mats or surface mats	124813
Tack board or tackable wall surface	101100
Fire Suppression:	
N/A	
Plumbing:	
Drinking water coolers	224000
HVAC:	
Supply/return air system	Div. 23
Temp ctrl from adjacent instructional spaces	230923
Electrical:	
Dual level switching	262726
Fluorescent lighting	265100
Illumination level: See Table 8600-4	
Duplex receptacles	262726
Double duplex receptacle adjacent to each video port	262726
Means of egress lighting per code	265100
Emergency lighting	265100
Communications:	
Video ports	271533/271543
Data ports	271513
Pay phone terminals	271513/273113
Central sound system	275123
Clocks	275313
Wireless access points	271513/272100/272133
Electronic Safety and Security:	
Life safety devices per code	283111
Security System	281300/281600/282300
Miscellaneous:	
Display cases and Directory	101200

NOTES:
1. Finishes/Features: Refer to Chapter 9 for specification references.
2. Vinyl composition tile, linoleum, VET, or sheet vinyl is to be used in vestibules, stairwells, and elsewhere as appropriate. Porcelain tile or terrazzo 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:
- Uniform lighting
- 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

FINISHES[1]:	Spec. Ref.#
Flooring:	
Cure and seal concrete	033000
Base:	
No base	
Ceiling:	
Exposed structure	---
Walls: (note 2)	
Unpainted concrete masonry units	042000

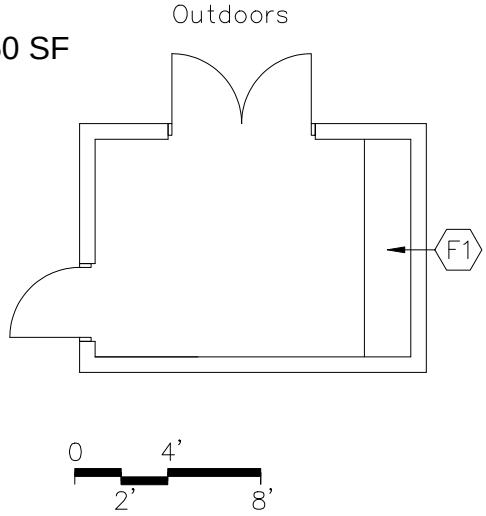
LOOSE FURNISHINGS:
N/A

FEATURES[1]:	Spec. Ref.#
Fixed Items:	
To be determined by Design Professional	
Fire Suppression:	
N/A	
Plumbing:	
To be determined by Design Professional	
HVAC:	
To be determined by Design Professional	
Electrical:	
Single level switching	262726
Fluorescent lighting	265100
Illumination level: See Table 8600-4	
Others as determined by Design Professional	
Communications:	
Central sound system	275123
Voice port and phone	271413/273113
Electronic Safety and Security:	
N/A	
Miscellaneous:	
N/A	

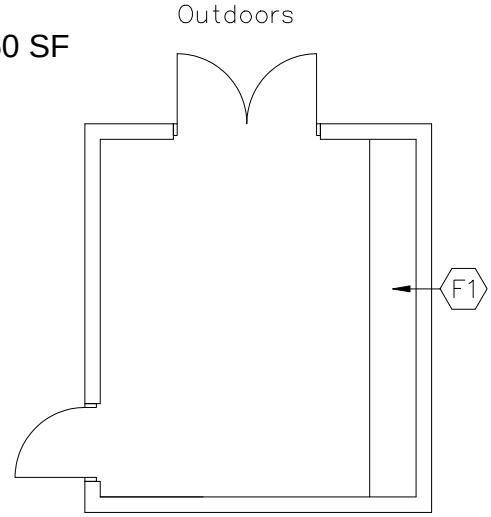
NOTES:

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.

150 SF



250 SF



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

FINISHES[1]:	Spec. Ref.#
Flooring:	
Cure and seal concrete	033000
Base:	
No base	
Ceiling:	
Exposed structure	---
Walls:	
Unpainted concrete masonry units	042000
LOOSE FURNISHINGS:	
N/A	

FEATURES[1]:	Spec. Ref.#
Fixed Items[2]:	
F1 10‘ - 16’ of open tall shelving, depths may vary (fixed or loose)	123550
Fire Suppression:	
Fire suppression system	211000
Plumbing:	
N/A	
HVAC:	
Exhaust air system	Div. 23
Supplemental heat as required	Div. 23
Electrical:	
Single level switching	262726
Fluorescent lighting	265100
Illumination level: See Table 8600-4	
Duplex receptacles	262726
Communications:	
N/A	
Electronic Safety and Security:	
Life safety devices per code	283111
Miscellaneous:	
N/A	

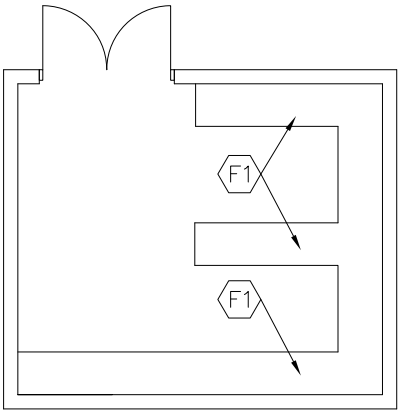
NOTES:

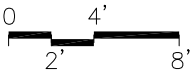
1. Finishes/Features: Refer to Chapter 9 for specification references.
2. Ranges shown indicate quantities for the smallest and largest possible room size.

CENTRAL STORAGE AREA
M-BS-8

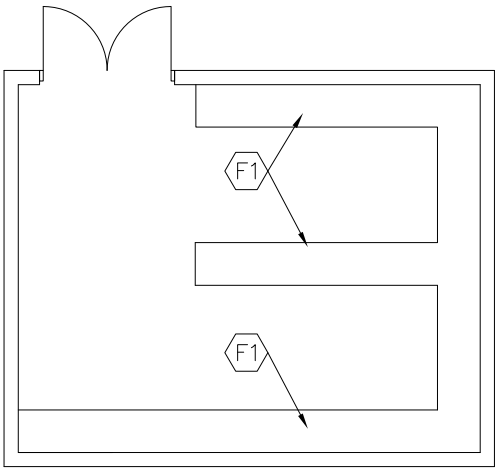
Space to be determined by Design Professional.

300 SF





400 SF



CAPACITY: N/A
SIZE: 300 - 400 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:
- Uniform lighting

NOTES:

CENTRAL STORAGE AREA
M-BS-8

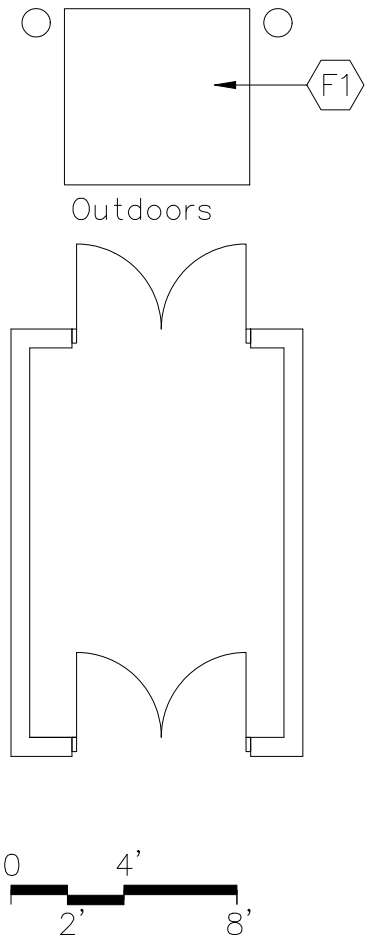
FINISHES[1]:	Spec. Ref.#
Flooring:	
Cure and seal concrete	033000
Base:	
No base	
Ceiling:	
Exposed structure	---
Walls:	
Unpainted concrete masonry units	04200***0***
LOOSE FURNISHINGS:	
N/A	

FEATURES[1]:	Spec. Ref.#
Fixed Items[2]:	
F1 26' - 32' of open tall shelving, depths may vary (fixed or loose)	123550
Option: mobile storage shelving	105626
Fire Suppression:	
Fire suppression system	211000
Plumbing:	
N/A	
HVAC:	
Exhaust air system	Div. 23
Supplemental heat as required	Div. 23
Electrical:	
Single level switching	262726
Fluorescent lighting	265100
Illumination level: See Table 8600-4	
Duplex receptacles	262726
Communications:	
N/A	
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. Ranges shown indicate quantities for the smallest and largest possible room size.

Space to be determined by Design Professional.



CAPACITY: N/A
SIZE: 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

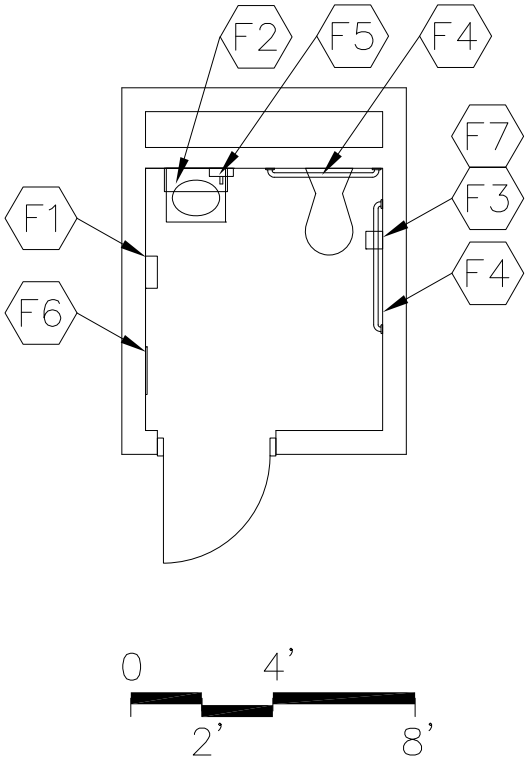
M-BS-9

FINISHES[1]:	Spec. Ref.#
Flooring:	
Cure and seal concrete	033000
Base:	
No base	
Ceiling:	
Exposed structure	
Walls:	
Unpainted concrete masonry units	042000
LOOSE FURNISHINGS	
N/A	

FEATURES[1]:	Spec. Ref.#
Fixed Items:	
F1 Loading dock leveler and dock bumpers	111300
Fire Suppression:	
Fire suppression system	211000
Plumbing:	
N/A	
HVAC:	
Exhaust air system	Div. 23
Supplemental heat as required	Div. 23
Electrical:	
Single level switching	262726
Fluorescent lighting	265100
Illumination level: See Table 8600-4	
Duplex receptacles	262726
Communications:	
Central sound system	275123
Electronic Safety and Security:	
N/A	
Miscellaneous:	
N/A	

NOTES:

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



CAPACITY: 1 person
SIZE: 50 SF
ANCILLARY SPACES:

PROGRAM ACTIVITIES:
- Personal and health needs for the building occupants

SPATIAL RELATIONSHIPS:
- Near academic area

ENVIRONMENTAL CONSIDERATIONS:
- Uniform lighting
- Environmental sound control -
  wall minimum STC ***48***
  ceiling minimum CAC 35, NRC ***0.70***
- Moisture- and stain-resistant finishes

NOTES:

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

RESTROOM
M-BS-10

FINISHES[1]:	Spec. Ref.#
Flooring:	
Linoleum, ***ET***, sheet vinyl, or	096516
rubber	096500
Optional: quarry tile, or	093000
resinous flooring	096723
Base:	
Resilient base	096500
Optional: quarry tile, resinous	093000
flooring, or integral vinyl cove base	096723
Ceiling:	
Suspended, acoustical	095113
Walls:	
Painted concrete masonry units	042000/099100

LOOSE FURNISHINGS:
Wastebasket

FEATURES[1]:	Spec. Ref.#
Fixed Items:	
F1 Towel dispenser	102813
F2 Mirror with shelf above sink(optional)	102813
F3 Toilet tissue holder	102813
F4 36" and 42" grab bar	102813
F5 Soap dispenser	102813
F6 Sanitary product dispenser	102813
F7 Sanitary product receptacle	102813
Fire Suppression:	
Fire suppression system	211000
Plumbing:	
Wall-mounted water closet	224000
Wall-mounted lavatory	224000
Plumbing connections	224000/221116/221119
HVAC:	
Exhaust air system	Div. 23
Supplemental heat as required	Div. 23
Electrical:	
Single level switching	262726
Fluorescent lighting	265100
Illumination level: See Table 8600-10	
1 duplex receptacle	262726
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. F6 and F7 required for female restroom only.