

<b>PURPOSE</b>	The purpose of this Chapter is to provide the school district and the Design Professional with the guidelines and relationships for the Elementary School spaces identified in Chapter 2: Bracketing.
<b>INTRODUCTION</b>	<p>This Chapter begins with an overall building diagram showing how the various areas of a school could be arranged. The diagram is meant only to demonstrate the relationships between various parts of the building.</p> <p>Along with the overall building diagram, there are various program area diagrams throughout this chapter which demonstrate how specific spaces may relate to each other within a particular program area.</p>
<b>NO SMOKING SIGNS</b>	<b><i>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)</i></b>
<b>DIAGRAM</b>	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.
<b>PROGRAM ACTIVITIES</b>	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.
<b>SPATIAL RELATIONSHIPS</b>	Relationships of a particular room to other spaces and activities have been identified to assist the Design Professional in the design of the facility.
<b>ENVIRONMENTAL CONSIDERATIONS</b>	Environmental considerations are items that may affect the educational program. They are the basis of some 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.
<b>FINISHES</b>	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**

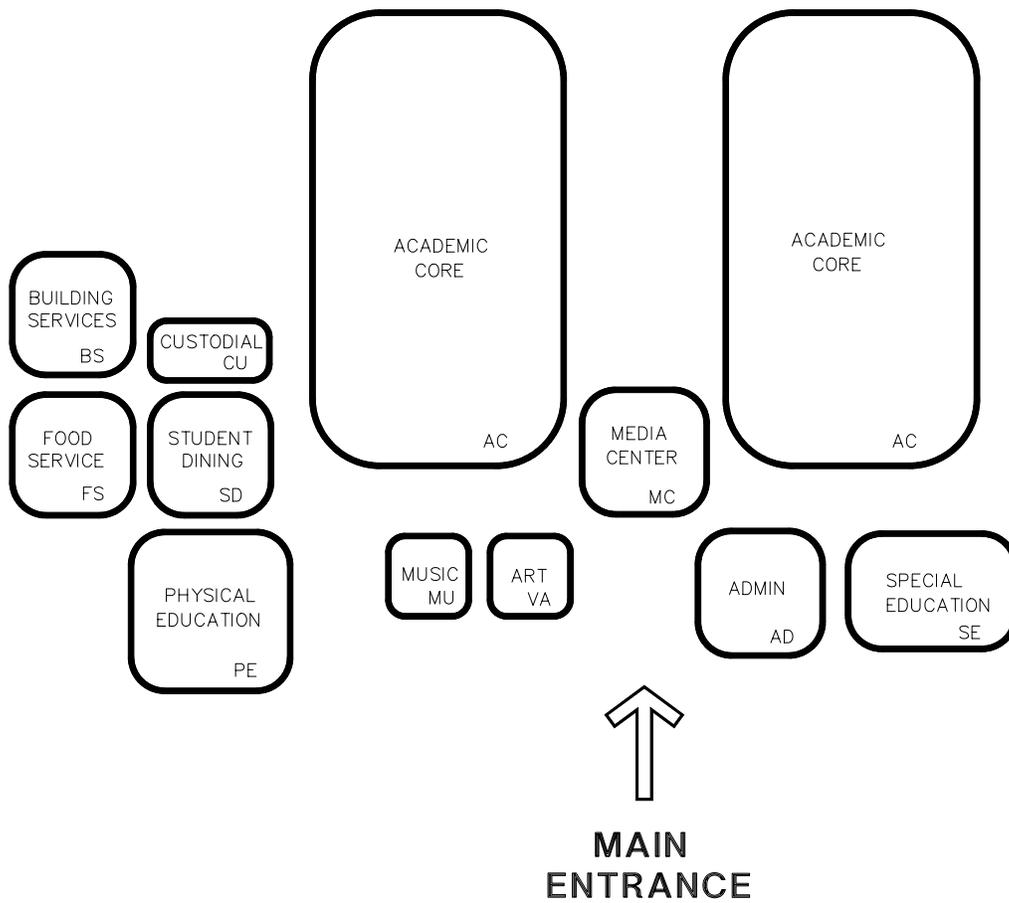
Square foot area given for the room is the necessary area. This area is given in net square feet – defined as the area within the walls of the room.

**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**

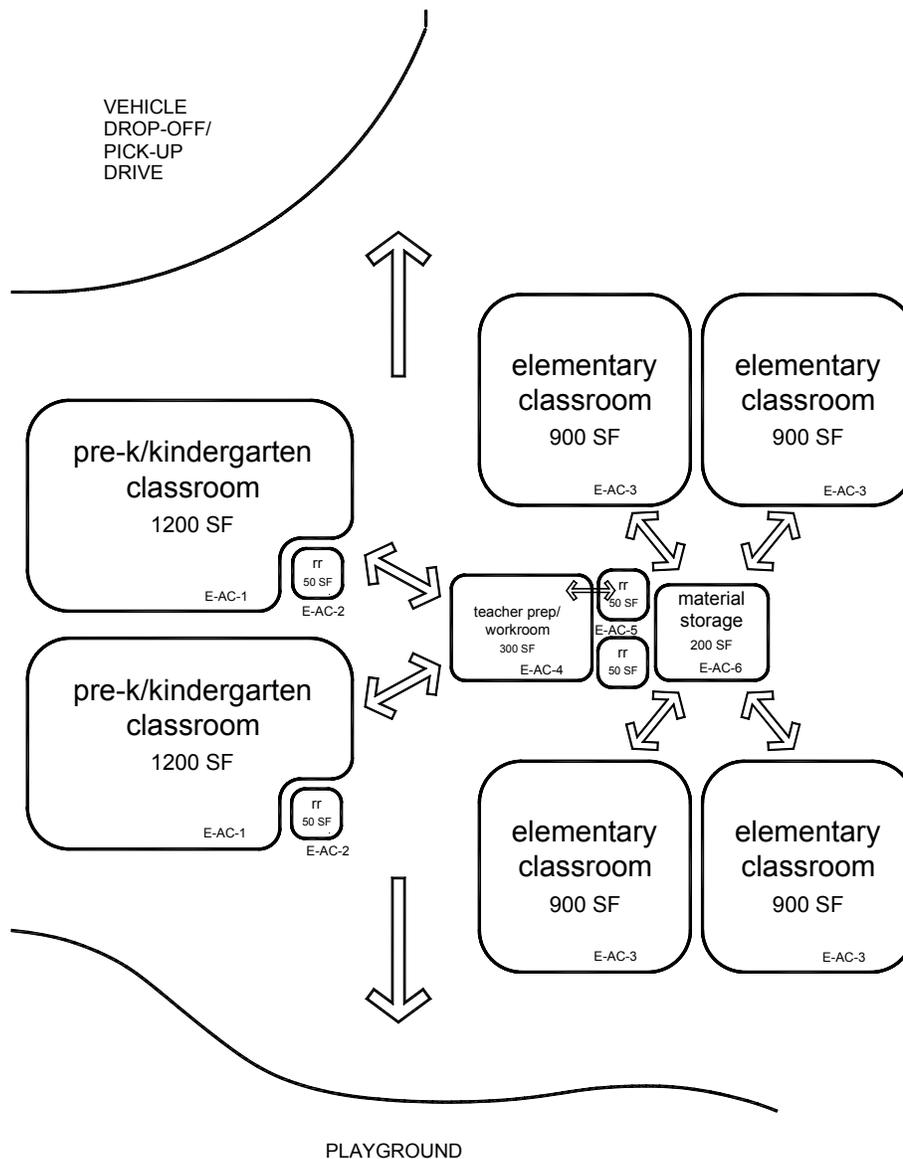
Interior lighting shall be controlled by occupancy sensors, automatic timed lighting controlled system or a combination of both to comply with ASHRAE 90.1. Exterior lighting shall be controlled by photosensor or astronomical time clock to comply with ASHRAE 90.1 to automatically turn lighting off when sufficient daylight is available.



NOTES:

This is an example of how the spaces in an elementary school could be arranged. This is meant only to demonstrate the relationships between various areas of this building.

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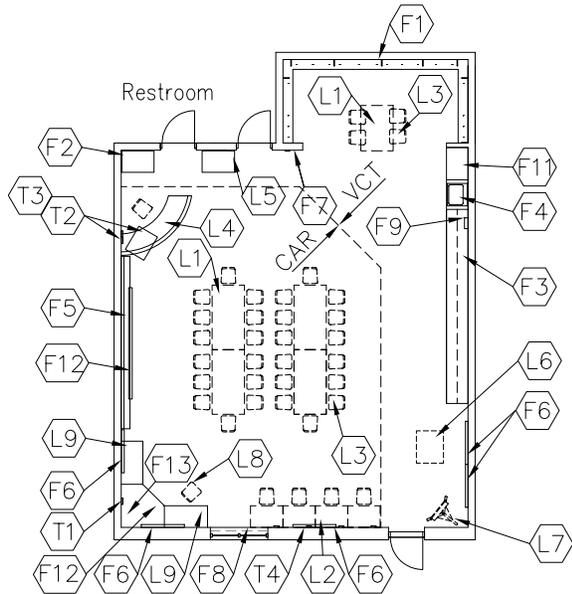
NOTES:

This is an example of how the academic core spaces in an elementary 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:

- E-AC-1 Pre-K/Kindergarten Classroom
- E-AC-2 Pre-K/Kindergarten Restroom
- E-AC-3 Elementary Classroom
- E-AC-4 Teacher Prep Area/Workroom
- E-AC-5 Individual Restroom
- E-AC-6 Instructional Material Storage

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**PROGRAM ACTIVITIES:**

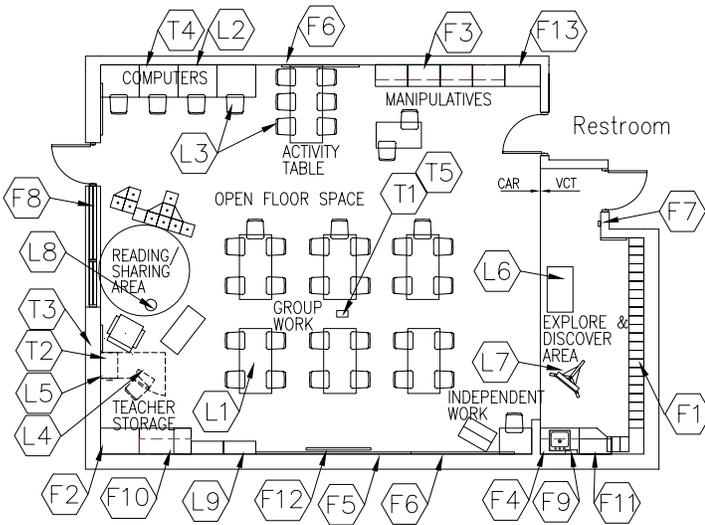
- Kindergarten instruction through active exploration
- Children practice with tangible articles and are encouraged to develop learning skills, creativity, and imagination.
- Activities include, but are not limited to: group discussions, demonstrations, music activities, listening skills, gross motor skills, art and science projects, and small group activities.

**SPATIAL RELATIONSHIPS:**

- Near other pre-k/kindergarten classrooms
- Near teacher prep area/workroom
- Direct access to outdoor playground  
**or access through adjacent corridor**
- Near vehicle drop-off/pick-up drive
- Adjacent to pre-k/kindergarten restroom

**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
- Ergonomically appropriate furniture and equipment heights



**CAPACITY:** 25 students  
**SIZE:** 1,200 SF  
**ANCILLARY SPACES:** Pre-K/Kindergarten Restroom  
 E-AC-2

**NOTES:**

1. Loose furnishings shown represent one of many possible configurations based on educational program.
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.
3. Second exit from space to meet code need not open to exterior.

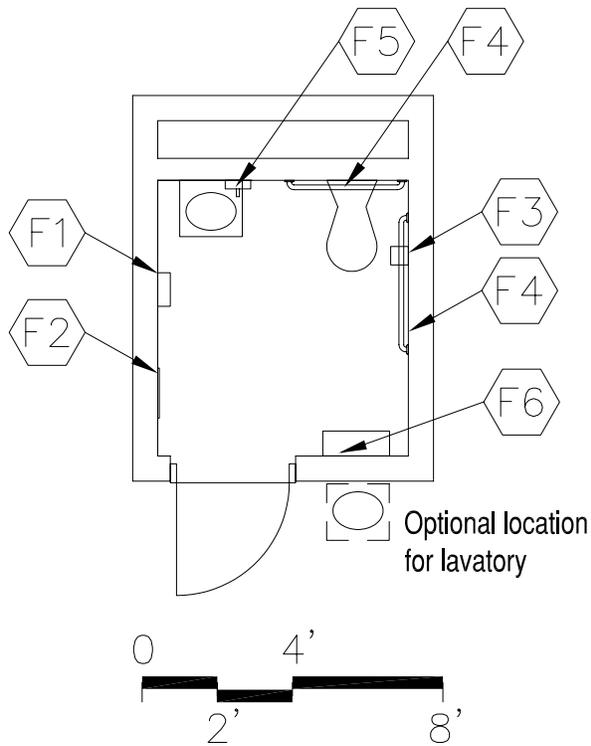
**PRE-K/KINDERGARTEN CLASSROOM  
E-AC-1**

CHAPTER 4: ELEMENTARY SCHOOL

<u>FINISHES</u> <sup>1:</sup>	Spec. Ref.#	<u>FEATURES</u> <sup>1:</sup>	Spec. Ref.#
<u>Flooring:</u>		<u>Fixed Items:</u>	
Combination carpet	096816	F1 Open casework - student coats and personal items, with wall cabinets above	123550
with vinyl composition tile	096500	F2 3' of tall wardrobe w/file drawers, optional	123550
Optional: All vinyl composition tile, linoleum, VET, VCTT, sheet vinyl, or rubber	096516	F3 15'-18' of base & wall cabinets	123550
		F4 3' sink base cabinet	123550
<u>Base:</u>		F5 12'-16' of chalk/marker board	101100
Resilient base	096500	F6 16'-20' of tack board or tackable wall surface or combination	101100
		F7 Pencil sharpener support	062000
<u>Ceiling:</u>		F8 Window with integral blinds	<b>085113</b>
Suspended, acoustical	095113	F9 Towel dispenser (optional)	102813
		F10 36"- 42" high storage cabinet	123550
<u>Walls:</u>		F11 3' of tall cabinets (could have tote trays, optional)	123550
Painted concrete masonry units	<b>042000/099100</b>	F12 Projection screen (optional)	115213
		F13 Technology support casework (could be mobile)	123550
<u>LOOSE FURNISHINGS:</u>		<u>Fire Suppression:</u>	
L1 Student desks/tables		Fire suppression system	211000
L2 Computer workstation furniture (fixed or mobile)		<u>Plumbing:</u>	
L3 Student chairs		Sink with drinking fountain	224000
L4 Teacher workstation/computer support and chair (fixed or mobile)		Plumbing connections	224000/221116/221119
L5 File cabinet		<u>HVAC:</u>	
L6 Sand/water table		Supply/return air system	Div. 23
L7 Children's painting easel		Independent temperature control	230923
L8 Teacher reading chair or stool		<u>Electrical:</u>	
L9 8'-10' of low bookcases (fixed or mobile)		Fluorescent lighting	265100
Wastebasket		Illumination level: See Table 8600-4	
Pencil sharpener		Multilevel switching	262726
		4 duplex receptacles	262726
		Double duplex receptacle adjacent to each data and video port	262726
		Emergency lighting	265100
		Means of egress lighting per code	265100
<u>Miscellaneous:</u>		<u>Communications:</u>	
N/A		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
		Central sound system	275123
		Clock	275313
		Sound reinforcement system	275127
		T5 Overhead projector	274119
		<u>Electronic Safety and Security:</u>	
		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:

- Personal and health needs for kindergarten students

SPATIAL RELATIONSHIPS:

- Adjacent to and only accessible from Pre-K/ Kindergarten Classroom

ENVIRONMENTAL CONSIDERATIONS:

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

CAPACITY: 1 person  
 SIZE: 40 SF  
 ANCILLARY SPACES: Pre-K/Kindergarten Classroom  
 E-AC-1

NOTES:

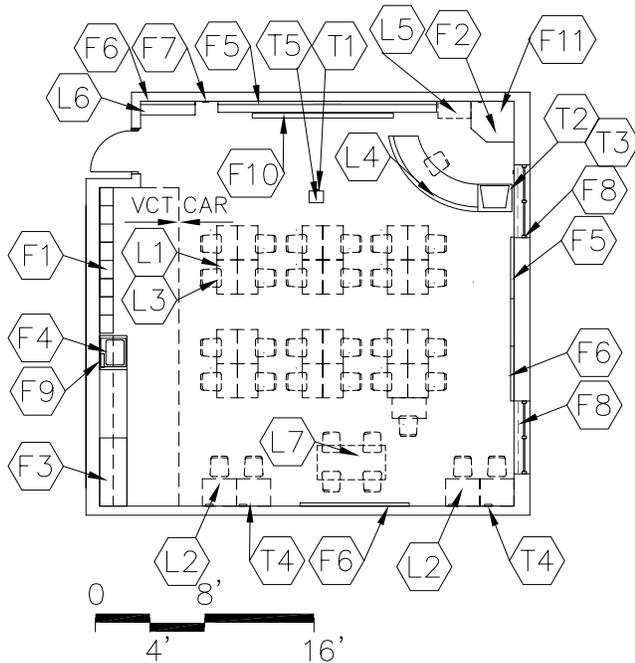
**PRE-K/KINDERGARTEN RESTROOM  
E-AC-2**

CHAPTER 4: ELEMENTARY SCHOOL

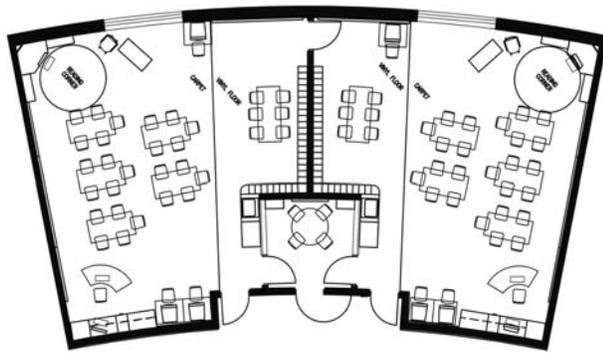
<u>FINISHES<sup>1</sup>:</u>	Spec. Ref.#	<u>FEATURES<sup>1</sup>:</u>	Spec. Ref.#
<u>Flooring:</u>		<u>Fixed Items:</u>	
Linoleum, rubber, VET, or sheet vinyl	096516	F1 Towel dispenser	102813
Optional: ceramic mosaic tile, porcelain tile, or resinous flooring	096500 093000 096723	F2 24" x 60" mirror	102813
		F3 Toilet tissue holder	102813
		F4 36" and 42" grab bar	102813
		F5 Soap dispenser	102813
		F6 Changing station (optional)	102813
<u>Base:</u>		<u>Fire Suppression:</u>	
Resilient base	096500	Fire suppression system	211000
Optional: ceramic mosaic tile, porcelain tile, resinous flooring, or integral vinyl cove base	093000 096723		
<u>Ceiling:</u>		<u>Plumbing:</u>	
Suspended, acoustical	095113	Wall-mounted water closet	224000
		Wall-mounted lavatory	224000
		Plumbing connections	224000/221116/221119
<u>Walls:</u>		<u>HVAC:</u>	
Painted concrete masonry units	<b>042000</b> /099100	Exhaust air system	Div. 23
		Supplemental heat as required	Div. 23
<u>LOOSE FURNISHINGS:</u>		<u>Electrical:</u>	
Wastebasket		Single level switching	262726
		Fluorescent lighting	265100
		Illumination level: See Table 8600-4	
		<u>Communications:</u>	
		Central sound system	275123
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
		<u>Miscellaneous:</u>	
		N/A	

NOTES:

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



small group room  
or tutor room -  
part of classroom tolerance



classroom

classroom

CAPACITY:  
SIZE:

25 students  
900 SF

**PROGRAM ACTIVITIES:**

- Developmental experiences, technical skill building, and hands-on activities
- 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:**

- Near other elementary classrooms
- Near large group restrooms
- Near teacher prep area/workroom
- Access to outdoor playground

**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

**NOTES:**

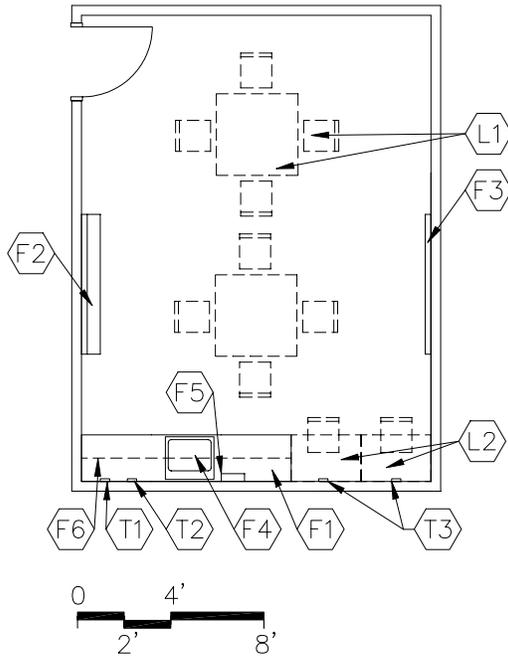
1. Loose furnishings shown represent one of many possible arrangements.
2. Depending upon the educational program of the district, a tall wardrobe may be located in this classroom or could be placed in a teacher prep area/workroom.

**ELEMENTARY CLASSROOM  
E-AC-3**

<u>FINISHES<sup>1</sup>:</u>	Spec. Ref.#	<u>FEATURES<sup>1</sup>:</u>	Spec. Ref.#
<u>Flooring:</u>		<u>Fixed Items:</u>	
Combination carpet with vinyl composition tile	096816 096500	F1 Open casework – coats and personal storage with wall cabinets above	123550
Optional: All vinyl composition tile, linoleum, VET, VCTT, sheet vinyl, or rubber	096516	F2 3' of tall wardrobe w/file drawers	123550
		F3 8'-9' of base & wall cabinets	123550
		F4 3' sink base cabinet	123550
		F5 12'-16' of chalk/marker board	101100
		F6 20' of tack board or tackable wall surface or combination	101100
<u>Base:</u>		F7 Pencil sharpener support	062000
Resilient base	096500	F8 Windows with integral blinds	<b>085113</b>
		F9 Towel dispenser (optional)	102813
<u>Ceiling:</u>		F10 Projection screen (optional)	115213
Suspended, acoustical	095113	F11 Technology support casework	123550
<u>Walls:</u>			
Painted concrete masonry units	<b>042000/099100</b>	<u>Fire Suppression:</u>	
		Fire suppression system	211000
<u>LOOSE FURNISHINGS:</u>		<u>Plumbing:</u>	
L1 Student desks/tables		Sink with drinking fountain	224000
L2 Computer workstation furniture		Plumbing connections	224000/221116/221119
L3 Student chairs		<u>HVAC:</u>	
L4 Teacher desk or workstation/computer support and chair		Supply/return air system	Div. 23
L5 File cabinet		Independent temperature control	230923
L6 8'-10' of low bookcases (fixed or mobile)		<u>Electrical:</u>	
L7 Reading table		Fluorescent lighting	265100
Wastebasket		Illumination level: See Table 8600-4	
Pencil sharpener		Multilevel switching	262726
		4 duplex receptacles	262726
<u>SCIENCE</u>		Double duplex receptacle adjacent to each data and video port	262726
Optional items for science teaching center (in one of elementary classrooms):		<u>Communications:</u>	
• Mobile demonstration unit with portable water supply and sink		T1 1 video port	271533/271543
• (2)-(3) mobile storage cabinets for science equipment and materials		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
		Central sound system	275123
		Clock	275313
		Sound reinforcement system	275127
		T5 Overhead projector	274119
<u>Miscellaneous:</u>		<u>Electronic Safety and Security:</u>	
M1 Operable partitions are optional between classrooms with tackboard/ markerboard surface	102226	Life safety devices per code	283111

NOTES:

1. Finishes/Features: Refer to Chapter 9 for specification references.
2. Option for Features (F1): lockers in classroom or corridor for grades 4 and 5 only.
3. Technology components may be placed in a separate small cabinet, or integrated in the other casework in the room.



**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**

CAPACITY: 6 - 8 teachers  
SIZE: 300 SF

**NOTES:**

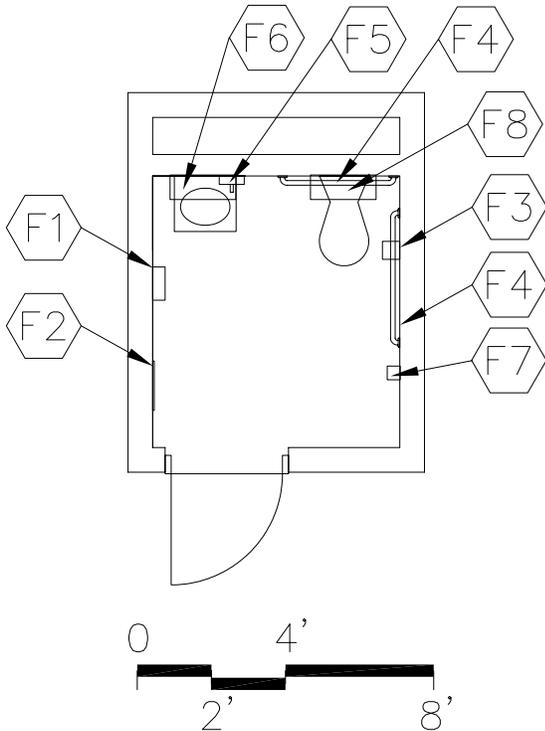
1. Loose furnishings shown represent one of many possible arrangements.
2. Depending upon the educational program of the district, a tall wardrobe may be located in this teacher prep area/workroom or could be placed in a classroom.

**TEACHER PREP AREA/WORKROOM  
E-AC-4**

<u>FINISHES</u> <sup>1</sup> :	Spec. Ref.#	<u>FEATURES</u> <sup>1</sup> :	Spec. Ref.#
Flooring:		<u>Fixed Items:</u>	
Carpet, VCT, VET, linoleum, sheet vinyl, or rubber	096816 096500 096516	F1 About 6' of base cabinets	123550
		F2 6'-8' of chalk/marker board (optional)	101100
Base:		F3 4'-8' of tack board	101100
Resilient base	096500	F4 3' sink base cabinet	123550
		F5 Towel dispenser (optional)	102813
Ceiling:		F6 About 9' of wall cabinets	123550
Suspended, acoustical	095113		
Walls:		<u>Fire Suppression:</u>	
Painted concrete masonry units	<b>042000/099100</b>	Fire suppression system	211000
		<u>Plumbing:</u>	
<u>LOOSE FURNISHINGS:</u>		Sink	224000
L1 Tables and chairs		Plumbing connections	224000/221116/221119
L2 Computer workstation furniture			
Wastebasket		<u>HVAC:</u>	
		Supply/return air system	Div. 23
		Independent temperature control	230923
		<u>Electrical:</u>	
		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
		<u>Communications:</u>	
		T1 1 video port	271533/271543
		T2 1 voice port and phone	271513/273113
		T3 2 data ports near workstations	271513
		Central sound system	275123
		Clock	275313
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
		<u>Miscellaneous:</u>	
		Copier by school district	

NOTES:

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



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

CAPACITY: 1 person  
SIZE: 50 SF

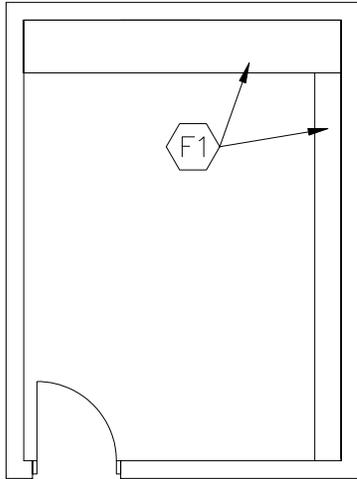
NOTES:

**INDIVIDUAL RESTROOM  
E-AC-5**

<u>FINISHES<sup>1</sup>:</u>	Spec. Ref.#	<u>FEATURES<sup>1</sup>:</u>	Spec. Ref.#
<u>Flooring:</u>		<u>Fixed Items:</u>	
Linoleum, rubber, VET, or sheet vinyl	096516	F1 Towel dispenser	102813
Optional: Ceramic mosaic tile, porcelain tile, or resinous flooring	096500 093000 096723	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
<u>Base:</u>		<u>Fire Suppression:</u>	
Resilient base	096500	Fire suppression system	211000
Optional: Ceramic mosaic tile, porcelain tile, resinous flooring, or integral vinyl cove base	093000 096723		
<u>Ceiling:</u>		<u>Plumbing:</u>	
Suspended, acoustical	095113	Wall-mounted water closet	224000
		Wall-mounted lavatory	224000
		Plumbing connections	224000/221116/221119
<u>Walls:</u>		<u>HVAC:</u>	
Painted concrete masonry units	<b>042000/099100</b>	Exhaust air system	Div. 23
		Supplemental heat as required	Div. 23
<u>LOOSE FURNISHINGS:</u>		<u>Electrical:</u>	
Wastebasket		Single level switching	262726
		Fluorescent lighting	265100
		Illumination level: See Table 8600-4	
		1 duplex receptacle	262726
		<u>Communications:</u>	
		Central sound system	275123
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
		<u>Miscellaneous:</u>	
		N/A	

**NOTES:**

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



PROGRAM ACTIVITIES:

- Storage of supplies, textbooks, and equipment

SPATIAL RELATIONSHIPS:

- Near teacher prep area/workroom

ENVIRONMENTAL CONSIDERATIONS:

N/A

CAPACITY:

N/A

SIZE:

200 SF

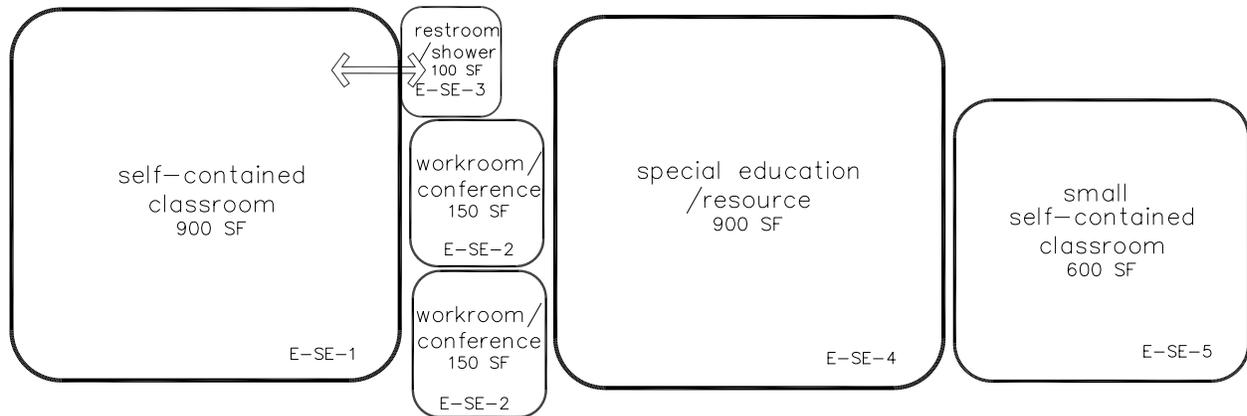
NOTES:

**INSTRUCTIONAL MATERIAL STORAGE  
E-AC-6**

<u>FINISHES<sup>1</sup>:</u>	Spec. Ref.#	<u>FEATURES<sup>1</sup>:</u>	Spec. Ref.#
Flooring:		<u>Fixed Items:</u>	
Vinyl composition tile	096500	F1 10'-20' of open shelving, depths may vary (fixed or loose)	123550
Base:		Option: mobile storage shelving	105626
Resilient base	096500	<u>Fire Suppression:</u>	
Ceiling:		Fire suppression system	211000
Suspended, acoustical	095113	<u>Plumbing:</u>	
Walls:		N/A	
Painted concrete masonry	<b>042000/099100</b>	<u>HVAC:</u>	
<u>LOOSE FURNISHINGS:</u>		To be determined by Design Professional	
N/A		Supplemental heat as required	Div. 23
		<u>Electrical:</u>	
		Single level switching	262726
		Fluorescent lighting	265100
		Illumination level: See Table 8600-4	
		1 duplex receptacle	262726
		<u>Communications:</u>	
		N/A	
		<u>Electronic Safety and Security:</u>	
		N/A	
		<u>Miscellaneous:</u>	
		N/A	

**NOTES:**

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



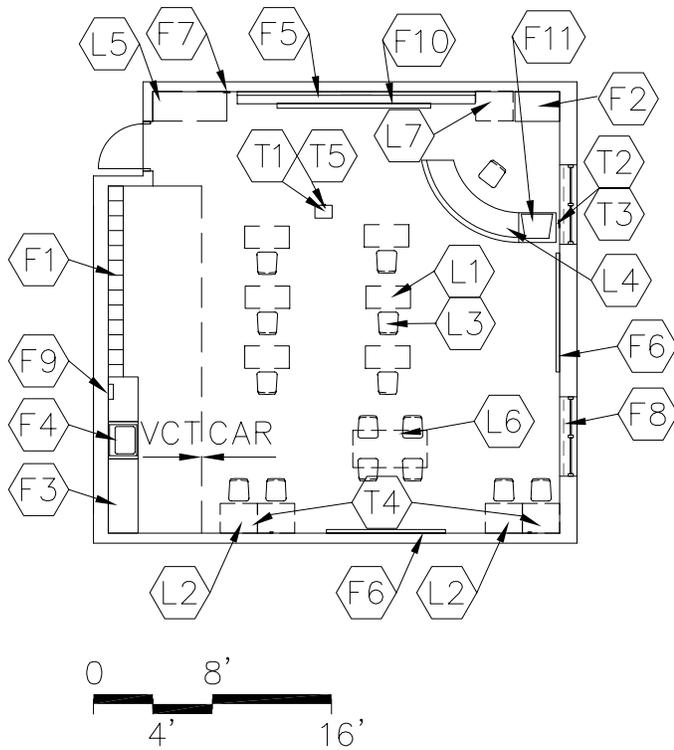
## NOTES:

This is an example of how the special education spaces in an elementary 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:

- E-SE-1 Self-contained Classroom
- E-SE-2 Workroom/Conference
- E-SE-3 Restroom/Shower
- E-SE-4 Special Education/Resource
- E-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.

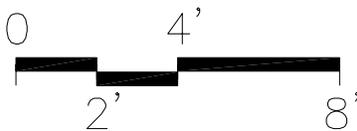
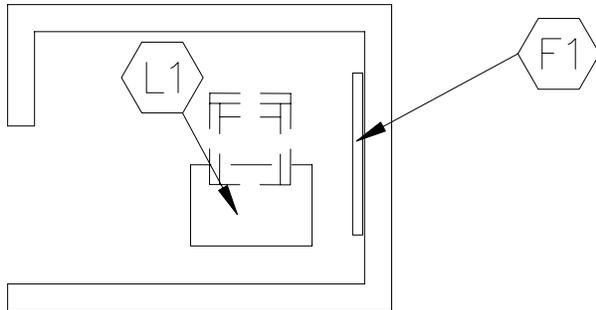
**SELF-CONTAINED CLASSROOM  
E-SE-1**

CHAPTER 4: ELEMENTARY SCHOOL

<u>FINISHES<sup>1</sup>:</u>	Spec. Ref.#	<u>FEATURES<sup>1</sup>:</u>	Spec. Ref.#
<u>Flooring:</u>		<u>Fixed Items:</u>	
Combination carpet	096816	F1 Open casework – coats and personal items	
with resilient options	096500	with wall cabinets above	123550
Optional: All vinyl composition tile,	096516	F2 3' of tall wardrobe w/file drawers	123550
VCTT, VET, sheet vinyl, linoleum,		F3 8'-10' of base & wall cabinets	123550
or rubber		F4 3' sink base cabinet	123550
		F5 12'-16' of chalk/marker board	101100
		F6 12'-16' of tack board	101100
		or tackable wall surface or combination	
<u>Base:</u>		F7 Pencil sharpener support	062000
Resilient base	096500	F8 Windows with integral blinds	<b>085113</b>
		F9 Towel dispenser (optional)	102813
<u>Ceiling:</u>		F10 Projection screen (optional)	115213
Suspended, acoustical	095113	F11 Technology support casework	123550
		<u>Fire Suppression:</u>	
<u>Walls:</u>		Fire suppression system	211000
Painted concrete masonry units	<b>042000/099100</b>	<u>Plumbing:</u>	
		Sink with drinking fountain	224000
		Plumbing connections	224000/221116/221119
<u>LOOSE FURNISHINGS:</u>		<u>HVAC:</u>	
L1 Student desks/tables		Supply/return air system	Div. 23
L2 Computer workstation furniture		Independent temperature control	230923
L3 Student chairs		<u>Electrical:</u>	
L4 Teacher workstations/computer support		Fluorescent lighting	265100
and chair		Illumination level: See Table 8600-4	
L5 8'-10' of low bookcases (fixed or mobile)		Multilevel switching	262726
L6 Reading table		4 duplex receptacles	262726
L7 File cabinet		Double duplex receptacle adjacent to	
Wastebasket		each data and video port	262726
Pencil sharpener		<u>Communications:</u>	
		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
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
		<u>Miscellaneous:</u>	
		N/A	

NOTES:

1. Finishes/Features: Refer to Chapter 9 for specification references.
2. 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.

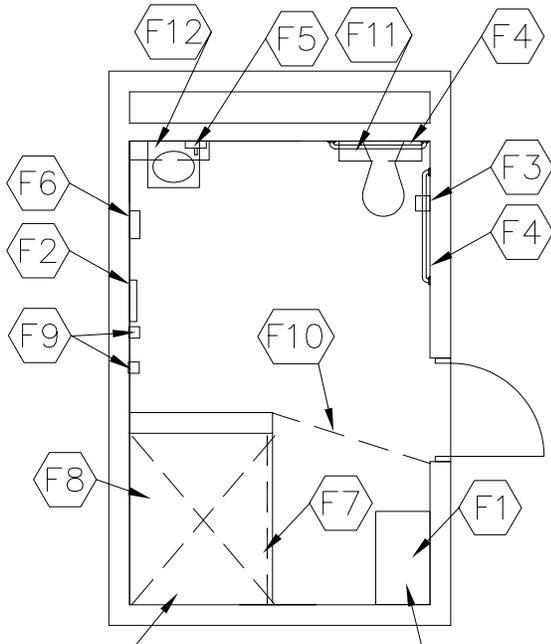
**WORKROOM/CONFERENCE**  
**E-SE-2 (Quiet Area)**

CHAPTER 4: ELEMENTARY SCHOOL

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

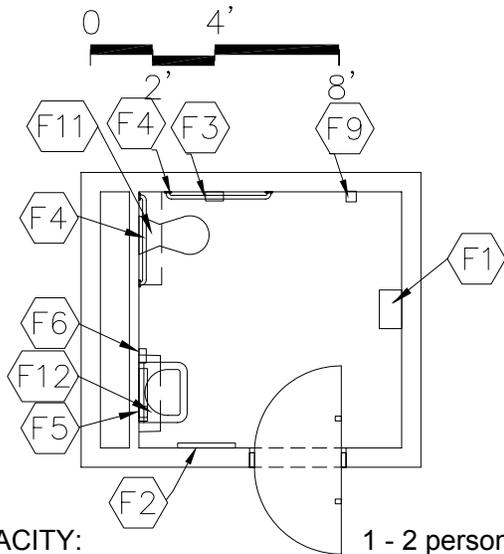
NOTES:

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



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

Changing Area.  
Storage of supplies  
for health needs.



CAPACITY:  
SIZE:

1 - 2 persons  
100 SF

**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:**

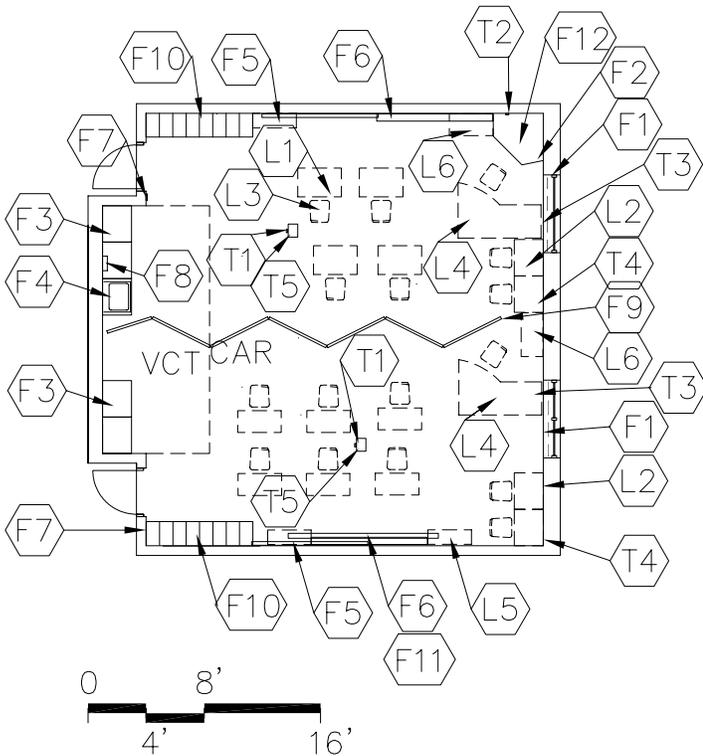
1. See Chapter 1, page 1110-16 for specific areas needed for each disability.

**RESTROOM/SHOWER  
E-SE-3**

<u>FINISHES<sup>1</sup>:</u>	Spec. Ref.#	<u>FEATURES<sup>1</sup>:</u>	Spec. Ref.#
<u>Flooring:</u>		<u>Fixed Items:</u>	
Restroom: Linoleum, VET, vinyl sheet, rubber sheet flooring, or resinous flooring	096516 096500 096723	F1 Base cabinets or changing station	123550
Shower: Ceramic mosaic tile, porcelain tile, or resinous flooring	093000	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) hooks	102813
		F10 Cubicle curtain (optional)	102813
		F11 8" deep wall cabinet above toilet	102813
		F12 Shelf (optional)	102813
		<u>Fire Suppression:</u>	
		Fire suppression system	211000
		<u>Plumbing:</u>	
		Wall-mounted water closet	224000
		Wall-mounted lavatory	224000
		ADA shower controls and head	224000
		Plumbing connections	224000/221116/221119
		<u>HVAC:</u>	
		Exhaust air system	Div. 23
		Supplemental heat as required	Div. 23
		<u>Electrical:</u>	
		Single level switching	262726
		Fluorescent lighting	265100
		Illumination level: See Table 8600-4	
		1 duplex receptacle	262726
		<u>Communications:</u>	
		Central sound system	275123
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
		<u>Miscellaneous:</u>	
		N/A	
<u>LOOSE FURNISHINGS:</u>			
Wastebasket			

**NOTES:**

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



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.

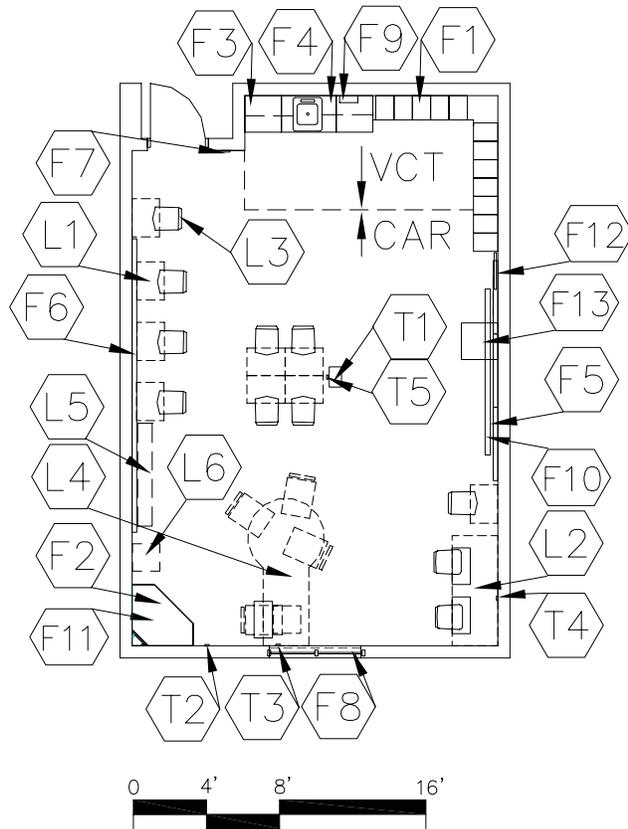
**SPECIAL EDUCATION/RESOURCE  
E-SE-4**

CHAPTER 4: ELEMENTARY SCHOOL

<u>FINISHES<sup>1</sup>:</u>	Spec. Ref.#	<u>FEATURES<sup>1</sup>:</u>	Spec. Ref.#
<u>Flooring:</u>		<u>Fixed Items:</u>	
Combination carpet	096816	F1 Windows with integral blinds	<b>085113</b>
with resilient options	096500	F2 3' of tall wardrobe with file drawers	123550
Option: All vinyl composition tile,	096516	F3 8'-12' of base cabinets	123550
VCTT, VET, sheet vinyl, linoleum,		F4 3' sink base cabinet	123550
or rubber		F5 12'-16' of chalk/marker board	101100
		F6 12'-16' of tack board	101100
		or tackable wall surface or combination	
<u>Base:</u>		F7 Pencil sharpener support	062000
Resilient base	096500	F8 Towel dispenser (optional)	102813
		F9 Operable partition (optional)	102226
<u>Ceiling:</u>		F10 Open casework coats and personal	
Suspended, acoustical	095113	storage w/wall cabinets above	123550
		F11 Projection screen (optional)	115213
<u>Walls:</u>		F12 Technology support casework	123550
Painted concrete masonry units		F13 Mirror (optional)	102813
	<b>042000/099100</b>	F14 Mobile storage cabinet (optional)	123550
		<u>Fire Suppression:</u>	
<u>LOOSE FURNISHINGS:</u>		Fire suppression system	211000
L1 Student desks/tables		<u>Plumbing:</u>	
L2 Computer workstation furniture		Sink	224000
L3 Student chairs		Plumbing connections	
L4 Teacher desk / computer support and chair			224000/221116/221119
L5 Mobile bookcases or storage unit		<u>HVAC:</u>	
L6 File cabinet		Supply/return air system	Div. 23
Wastebasket		Independent temperature control	230923
Pencil sharpener		<u>Electrical:</u>	
		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
		<u>Communications:</u>	
		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(min.)for student use	271513
		Clock	275313
		Sound reinforcement system	275127
		Central sound system	275123
		T5 Overhead projector	274119
		<u>Electronic Safety and Security:</u>	
		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**

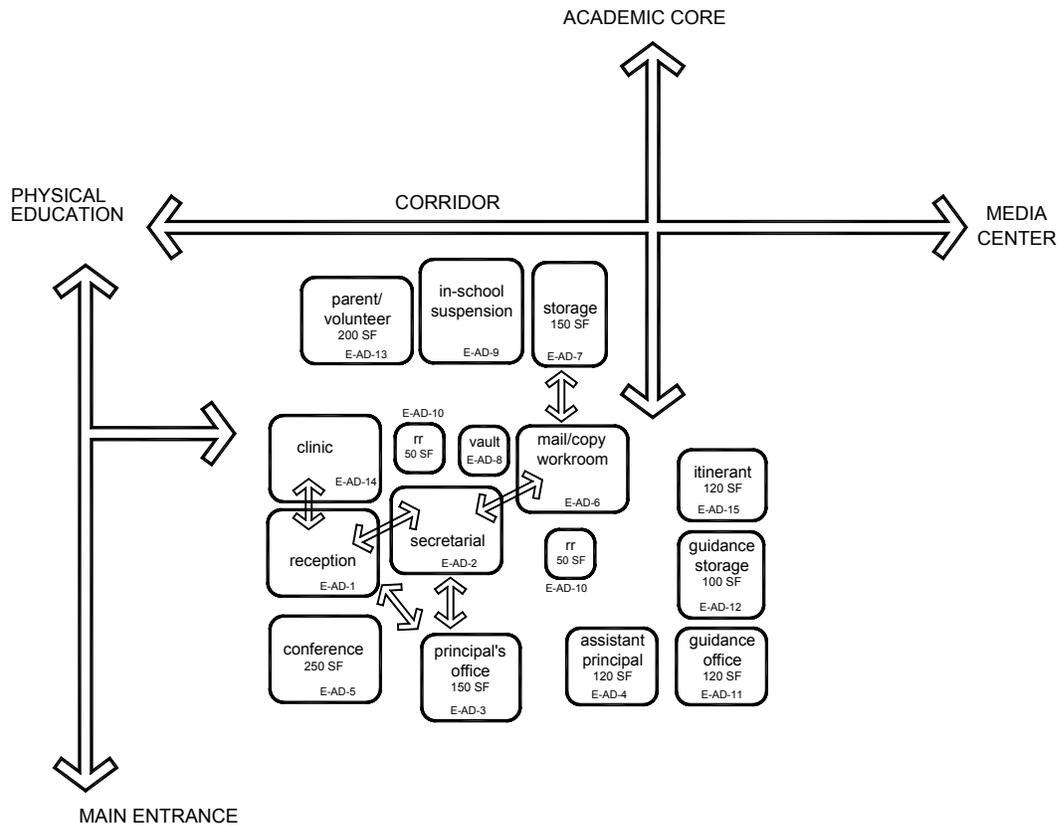
**E-SE-5** (Special Education)

CHAPTER 4: ELEMENTARY SCHOOL

<u>FINISHES</u> <sup>1</sup> :	Spec. Ref.#	<u>FEATURES</u> <sup>1</sup> :	Spec. Ref.#
<u>Flooring:</u>		<u>Fixed Items:</u>	
Combination carpet	096816	F1 Open casework – coats and personal items	123550
with resilient options	096516	with wall cabinets above	123550
Option: All vinyl composition tile	096500	F2 3' of tall wardrobe w/file drawers	123550
VCTT, VET, sheet vinyl, linoleum,		F3 About 6' of base & wall cabinets	123550
or rubber		F4 3' sink base cabinet	123550
		F5 10'-12' of chalk/marker board	101100
		F6 10'-16' of tack board	101100
		or tackable wall surface or combination	
<u>Base:</u>		F7 Pencil sharpener support	062000
Resilient base	096500	F8 Windows with integral blinds	<b>085113</b>
		F9 Towel dispenser (optional)	102813
<u>Ceiling:</u>		F10 Projection screen (optional)	115213
Suspended, acoustical	095113	F11 Technology support casework	123550
		F12 Mirror (optional)	102813
		F13 Mobile storage cabinet (optional)	123550
<u>Walls:</u>		<u>Fire Suppression:</u>	
Painted concrete masonry units		Fire suppression system	211000
	<b>042000/099100</b>		
<u>LOOSE FURNISHINGS:</u>		<u>Plumbing:</u>	
L1 Student desks/tables		Sink with drinking fountain	224000
L2 Computer workstation furniture		Plumbing connections	224000/221116/221119
L3 Student chairs			
L4 Teacher workstations/computer support		<u>HVAC:</u>	
and chair		Supply/return air system	Div. 23
L5 6' of low bookcases (fixed or mobile)		Independent temperature control	230923
Wastebasket			
Pencil sharpener		<u>Electrical:</u>	
		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
		<u>Communications:</u>	
		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
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
		<u>Miscellaneous:</u>	
		N/A	

**NOTES:**

1. Finishes/Features: Refer to Chapter 9 for specification references.
2. Technology components may be placed in a separate small cabinet, or integrated in the other casework in the room.



NOTES:

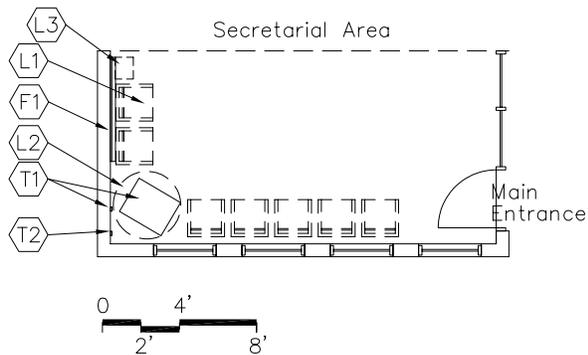
This is an example of how the administrative spaces in an elementary school could be arranged. This is meant only to demonstrate the relationships between various spaces of this area.

Following are the Administrative space plates:

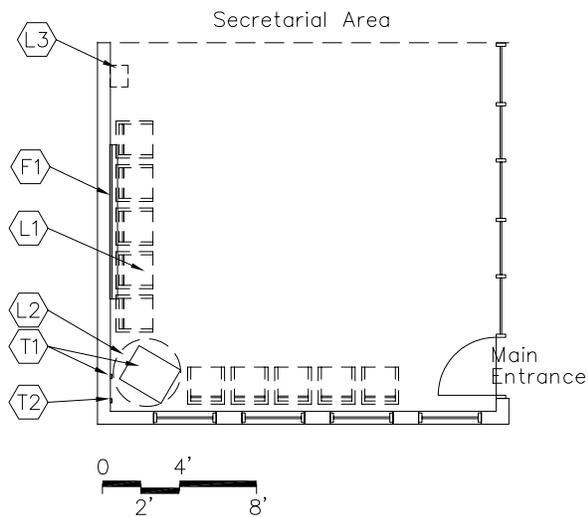
- E-AD-1 Reception Area
- E-AD-2 Secretarial Area
- E-AD-3 Principal's Office
- E-AD-4 Assistant Principal's Office
- E-AD-5 Conference Room
- E-AD-6 Mail/Work/Copy Room
- E-AD-7 Administrative Storage
- E-AD-8 Vault/Records Storage
- E-AD-9 In-school Suspension
- E-AD-10 Restroom
- E-AD-11 Guidance Counselor's Office
- E-AD-12 Guidance Records/Storage
- E-AD-13 Parent/Volunteer Room
- E-AD-14 Health Clinic
- E-AD-15 Itinerant Personnel Office
- E-AD-16 Family Restroom

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200 SF



400 SF



CAPACITY: 6 - 8 or 8 - 10 visitors  
 SIZE: 200 - 400 SF  
 ANCILLARY SPACES: Secretarial Area  
 E-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.

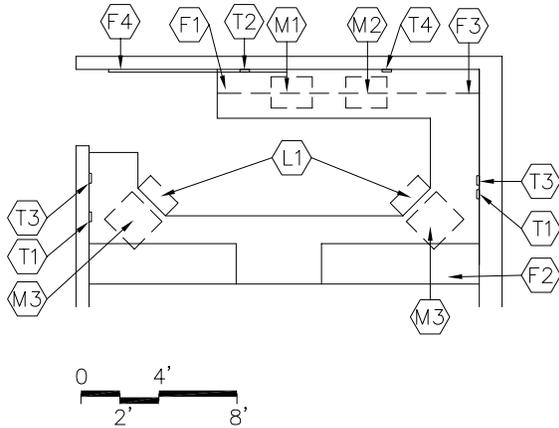
**RECEPTION AREA  
E-AD-1**

<u>FINISHES<sup>1</sup>:</u>	Spec. Ref.#	<u>FEATURES<sup>1</sup>:</u>	Spec. Ref.#
Flooring:		<u>Fixed Items:</u>	
Carpet <i>or</i> Carpet Tile	096816 <b>096813</b>	F1 Tack board or tackable wall surface (optional)	101100
Base:		<u>Fire Suppression:</u>	
Resilient base	096500	Fire suppression system	211000
Ceiling:		<u>Plumbing:</u>	
Suspended, acoustical	095113	N/A	
Walls:		<u>HVAC:</u>	
Painted gypsum wallboard over metal studs	<b>092116</b> /099100	Supply/return air system	Div. 23
<u>LOOSE FURNISHINGS:</u>		Independent temperature control	230993
L1 Visitor chairs		<u>Electrical:</u>	
L2 End table		Single level switching	262726
L3 Racks for forms (optional)		Fluorescent lighting	265100
Wastebasket		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
		<u>Communications:</u>	
		T1 1 video port, monitor, and brackets	271533/271543/274119
		T2 1 voice port and phone	271513/273113
		Clock	275313
		Central sound system	275123
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
		<u>Miscellaneous:</u>	
		Interior windows	081113/088000

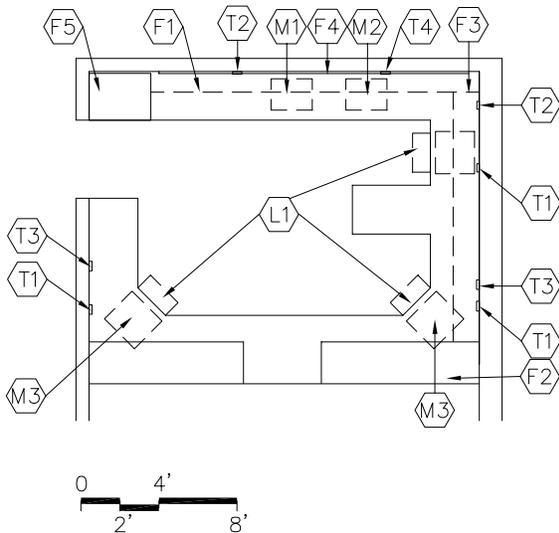
NOTES:

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  
 E-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.

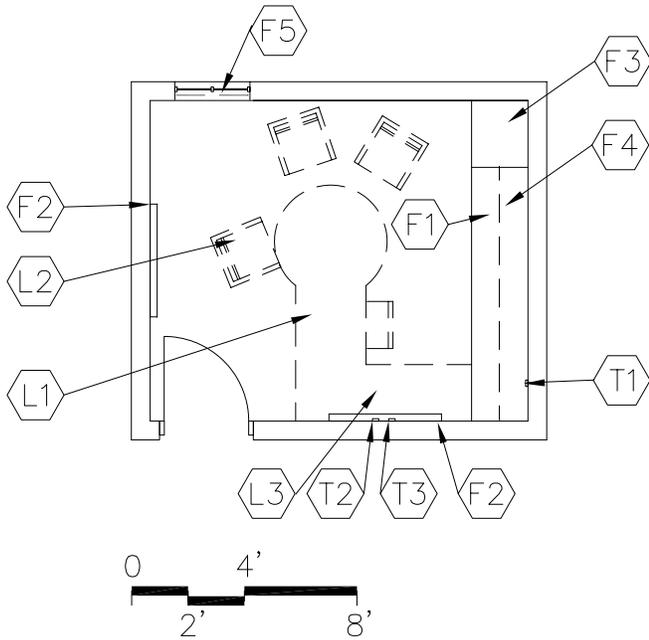
**SECRETARIAL AREA  
E-AD-2**

CHAPTER 4: ELEMENTARY SCHOOL

<u>FINISHES</u> <sup>1</sup> :	Spec. Ref.#	<u>FEATURES</u> <sup>1</sup> :	Spec. Ref.#
Flooring:		<u>Fixed Items</u> <sup>2</sup> :	
Carpet <i>or</i> Carpet Tile	096816 <b>096813</b>	F1 24' - 60' of work surface with file drawers	123550
Base:		F2 42" high counter top	123550
Resilient base	096500	with portion of counter 34" high or lower	
Ceiling:		F3 16'-24' of wall cabinets for forms, supplies, books, and manuals	123550
Suspended, acoustical	095113	F4 Tackable wall surface (optional)	101100
Walls:		F5 Tall cabinet for coats (optional)	123550
Painted gypsum wallboard over metal studs	<b>092116/ 099100</b>	<u>Fire Suppression:</u>	
		Fire suppression system	211000
<u>LOOSE FURNISHINGS:</u>		<u>Plumbing:</u>	
L1 Secretarial chairs		N/A	
Wastebasket		<u>HVAC:</u>	
		Supply/return air system	Div. 23
		Temperature control with reception area	230923
		(coupled with similarly loaded adjacent spaces)	
		<u>Electrical:</u>	
		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
		<u>Communications:</u>	
		T1 1 voice port and phone	271513/273113
		at each secretarial workstation	
		T2 1 fax port	271513/273113
		T3 1 data port	271513
		at each secretarial workstation	
		T4 1 data port for printer	271513
		Central sound system	275123
		Clock	275313
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
		<u>Miscellaneous:</u>	
		The following items are to be funded by the school district:	
		M1 Fax machine	
		M2 Printer	
		M3 Computer/typewriter	

NOTES:

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



**PROGRAM ACTIVITIES:**

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

**SPATIAL RELATIONSHIPS:**

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

**ENVIRONMENTAL CONSIDERATIONS:**

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

CAPACITY: 1 - 4 persons  
SIZE: 150 SF

**NOTES:**

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

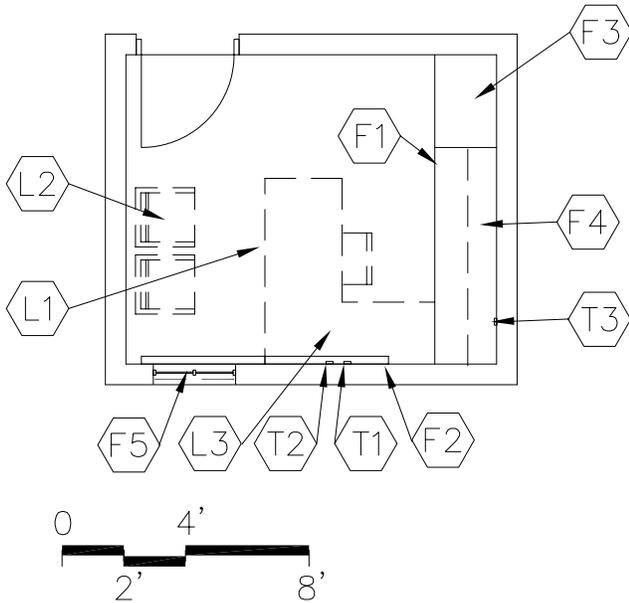
**PRINCIPAL'S OFFICE  
E-AD-3**

CHAPTER 4: ELEMENTARY SCHOOL

<u>FINISHES<sup>1</sup>:</u>	Spec. Ref.#	<u>FEATURES<sup>1</sup>:</u>	Spec. Ref.#
Flooring:		<u>Fixed Items:</u>	
Carpet <i>or Carpet Tile</i>	096816 <b>096813</b>	F1 Work surface with file drawers	123550
		F2 4' of tack board	101100
Base:		or tackable wall surface	
Resilient base	096500	F3 2' of tall wardrobe	123550
		F4 Wall cabinets above work surface	123550
Ceiling:		<b>F5 Window with integral blinds</b>	<b>085113</b>
Suspended, acoustical	095113		
Walls:		<u>Fire Suppression:</u>	
Painted gypsum wallboard over metal studs	<b>092116/099100</b>	Fire suppression system	211000
		<u>Plumbing:</u>	
		N/A	
<u>LOOSE FURNISHINGS:</u>		<u>HVAC:</u>	
L1 Desk and chair		Supply/return air system	Div. 23
L2 Visitor chairs		Independent temperature control (coupled with similarly loaded adjacent spaces)	230923
L3 Computer desk return Wastebasket			
		<u>Electrical:</u>	
		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
		<u>Communications:</u>	
		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
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
		<u>Miscellaneous:</u>	
		N/A	

NOTES:

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



PROGRAM ACTIVITIES:

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

SPATIAL RELATIONSHIPS:

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

ENVIRONMENTAL CONSIDERATIONS:

- Uniform lighting
- Environmental sound control -  
wall minimum **STC 45**  
ceiling minimum **CAC 35, NRC 0.70**
- Acoustical performance ANSI S12.60-2002

CAPACITY: 1 - 3 persons  
SIZE: 120 SF

NOTES:

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

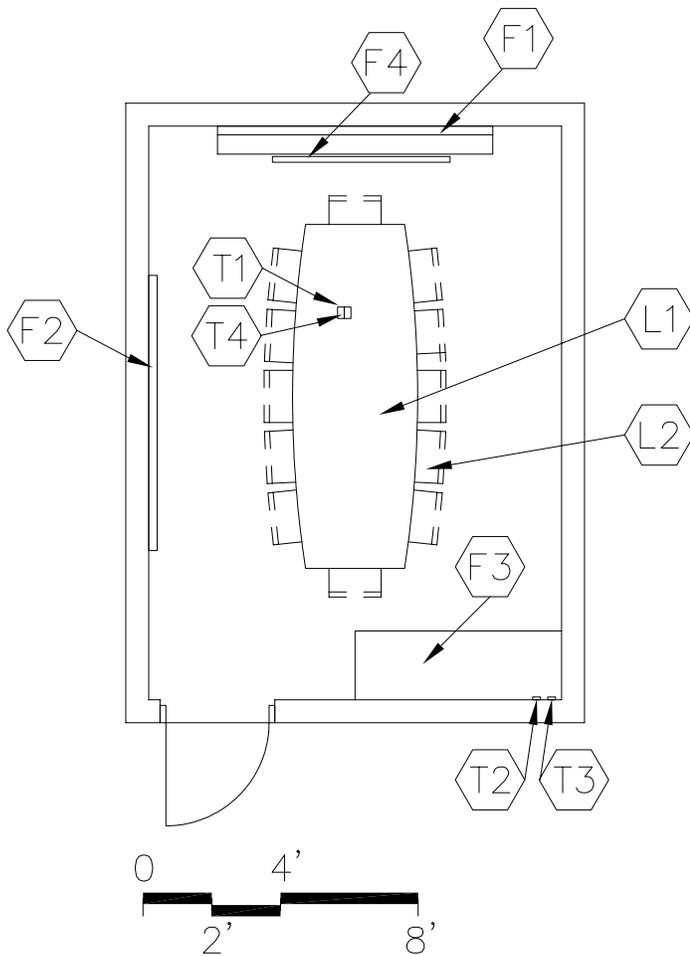
**ASSISTANT PRINCIPAL'S OFFICE  
E-AD-4**

CHAPTER 4: ELEMENTARY SCHOOL

<u>FINISHES<sup>1</sup>:</u>	Spec. Ref.#	<u>FEATURES<sup>1</sup>:</u>	Spec. Ref.#
<u>Flooring:</u>			
Carpet <i>or Carpet Tile</i>	096816 <b>096813</b>	<u>Fixed Items:</u>	
		F1 Work surface with file drawers	123550
		F2 4' of tack board or tackable wall surface	101100
<u>Base:</u>			
Resilient base	096500	F3 2' of tall wardrobe	123550
		F4 Wall cabinets above work surface	123550
<u>Ceiling:</u>			
Suspended, acoustical	095113	<b>F5 Window with integral blind</b>	<b>085113</b>
<u>Walls:</u>			
Painted gypsum wallboard over metal studs	<b>092116/099100</b>	<u>Fire Suppression:</u>	
		Fire suppression system	211000
<u>Plumbing:</u>			
		N/A	
<u>LOOSE FURNISHINGS:</u>			
L1 Desk and chair		<u>HVAC:</u>	
L2 Visitor chairs		Supply/return air system	Div. 23
L3 Computer desk return Wastebasket		Independent temperature control (coupled with similarly loaded adjacent spaces)	230923
<u>Electrical:</u>			
		Single level switching	262726
		Fluorescent lighting	265100
		Illumination level: See Table 8600-4	
		4 duplex receptacles	262726
		Double duplex receptacle adjacent to data and video port	262726
<u>Communications:</u>			
		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
<u>Electronic Safety and Security:</u>			
		Life safety devices per code	283111
<u>Miscellaneous:</u>			
		N/A	

NOTES:

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



PROGRAM ACTIVITIES:

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

SPATIAL RELATIONSHIPS:

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

ENVIRONMENTAL CONSIDERATIONS:

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

CAPACITY: 12 – 15 persons  
SIZE: 250 SF

NOTES:

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

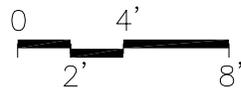
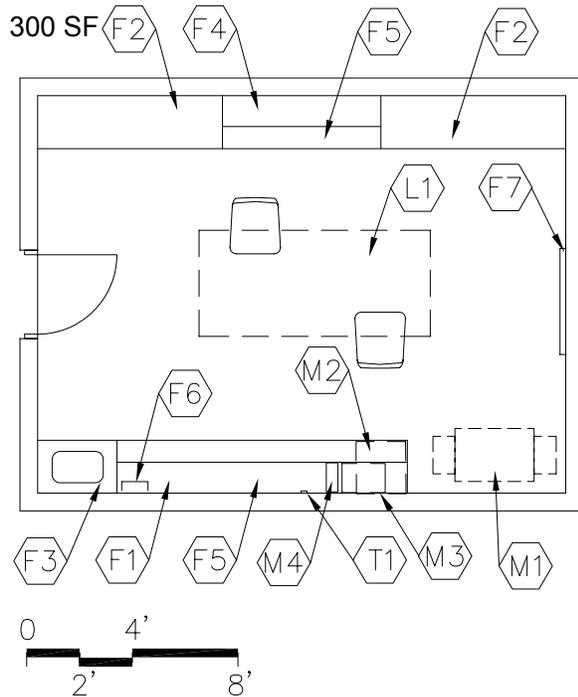
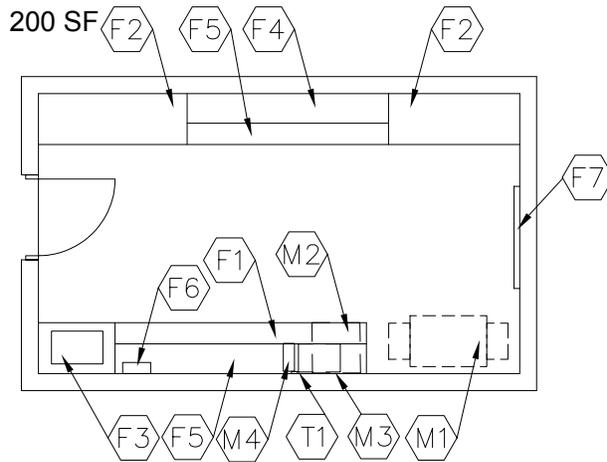
**CONFERENCE ROOM  
E-AD-5**

CHAPTER 4: ELEMENTARY SCHOOL

<u>FINISHES<sup>1</sup>:</u>	Spec. Ref.#	<u>FEATURES<sup>1</sup>:</u>	Spec. Ref.#
<u>Flooring:</u>			
Carpet <i>or Carpet Tile</i>	096816 <b>096813</b>	<u>Fixed Items:</u>	
		F1 About 8' of chalk/marker board	101100
		F2 About 8' of tack board or tackable wall surface	101100
<u>Base:</u>			
Resilient base	096500	F3 4'-6' of base cabinets (optional)	123550
		F4 Projection screen (optional)	115213
<u>Ceiling:</u>			
Suspended, acoustical	095113	<u>Fire Suppression:</u>	
		Fire suppression system	211000
<u>Walls:</u>			
Painted gypsum wallboard over metal studs	<b>092116/099100</b>	<u>Plumbing:</u>	
		N/A	
<u>LOOSE FURNISHINGS:</u>			
L1 Conference table		<u>HVAC:</u>	
L2 Chairs		Supply/return air system	Div. 23
Wastebasket		Independent temperature control	230923
		<u>Electrical:</u>	
		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
		<u>Communications:</u>	
		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
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
		<u>Miscellaneous:</u>	
		N/A	

NOTES:

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



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.

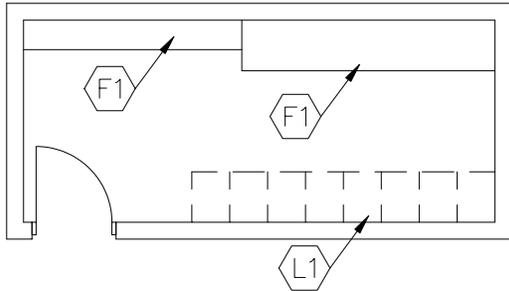
**MAIL/WORK/COPY ROOM  
E-AD-6**

CHAPTER 4: ELEMENTARY SCHOOL

<u>FINISHES<sup>1</sup>:</u>	Spec. Ref.#	<u>FEATURES<sup>1</sup>:</u>	Spec. Ref.#
Flooring:		<u>Fixed Items:</u>	
Vinyl composition tile	096500	F1 About 10' of base & wall cabinets	123550
Base:		F2 8'-12' of tall storage cabinets	123550
Resilient base	096500	or about 32' maximum of a combination storage cabinets	
Ceiling:		F3 3' sink base cabinet	123550
Suspended, acoustical	095113	F4 Mail cubicles for all staff	123200
Walls:		F5 10'-12' of wall cabinets	123550
Painted gypsum wallboard over metal studs	<b>092116/099100</b>	F6 Towel dispenser (optional)	102813
		F7 4' tack board (optional)	101100
<u>LOOSE FURNISHINGS:</u>		<u>Fire Suppression:</u>	
L1 Work table and chairs (applicable in 300 SF space only)		Fire suppression system	211000
Wastebasket		<u>Plumbing:</u>	
		Sink	224000
		Plumbing connections	224000/221116/221119
		<u>HVAC:</u>	
		Supply/return air system	Div. 23
		Independent temperature control	230923
		<u>Electrical:</u>	
		Single level switching	262726
		Fluorescent lighting	265100
		Illumination level: See Table 8600-4	
		3 - 5 duplex receptacles	262726
		Receptacle for copier	262726
		<u>Communications:</u>	
		T1 1 voice port and phone	271513/273113
		Clock	275313
		Central sound system	275123
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
		<u>Miscellaneous:</u>	
		The following 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.



**PROGRAM ACTIVITIES:**

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

**SPATIAL RELATIONSHIPS:**

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

**ENVIRONMENTAL CONSIDERATIONS:**

N/A

CAPACITY: N/A  
 SIZE: 150 SF

**NOTES:**

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

**ADMINISTRATIVE STORAGE  
E-AD-7**

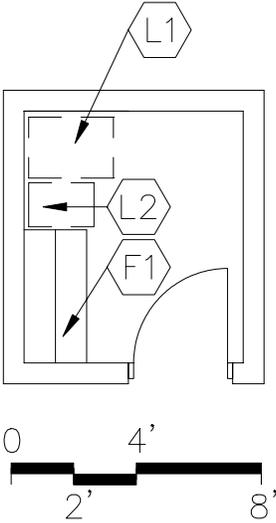
CHAPER 4: ELEMENTARY SCHOOL

<u>FINISHES<sup>1</sup>:</u>	Spec. Ref.#	<u>FEATURES<sup>1</sup>:</u>	Spec. Ref.#
Flooring:		<u>Fixed Items:</u>	
Vinyl composition tile	096500	F1 10'-20' of open shelving, depth may vary (fixed or loose)	123550
Base:		Option: mobile storage shelving	105626
Resilient base	096500	<u>Fire Suppression:</u>	
Ceiling:		Fire suppression system	211000
Suspended, acoustical	095113	<u>Plumbing:</u>	
Walls:		N/A	
Painted gypsum wallboard over metal studs	<b>092116/099100</b>	<u>HVAC:</u>	
<u>LOOSE FURNISHINGS:</u>		To be determined by Design Professional	
L1 File cabinets		Supplemental heat as required	Div. 23
		<u>Electrical:</u>	
		Single level switching	262726
		Fluorescent lighting	265100
		Illumination level: See Table 8600-4	
		1 duplex receptacle	262726
		<u>Communications:</u>	
		N/A	
		<u>Electronic Safety and Security:</u>	
		N/A	
		<u>Miscellaneous:</u>	
		N/A	

NOTES:

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

50 SF



**PROGRAM ACTIVITIES:**

- Storage of records and security files in a secure area

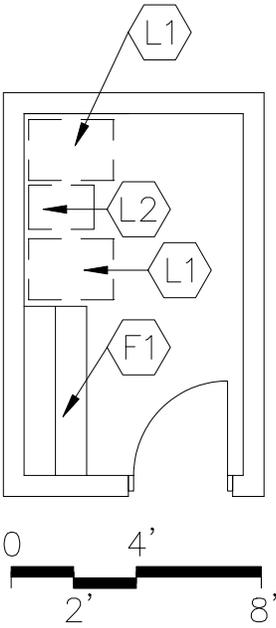
**SPATIAL RELATIONSHIPS:**

- Access to guidance area
- Access to secretarial personnel

**ENVIRONMENTAL CONSIDERATIONS:**

N/A

80 SF



CAPACITY:  
SIZE:

N/A  
50 - 80 SF

**NOTES:**

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

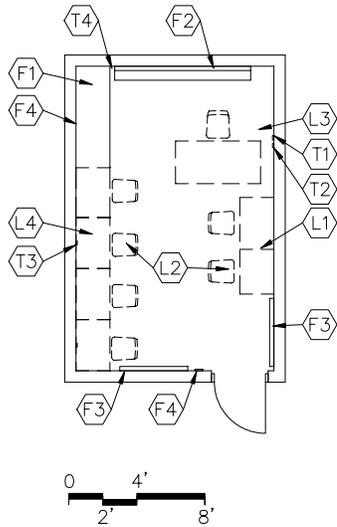
**VAULT/RECORDS STORAGE**  
**E-AD-8**

<u>FINISHES<sup>1</sup>:</u>	Spec. Ref.#	<u>FEATURES<sup>1</sup>:</u>	Spec. Ref.#
Flooring:		<u>Fixed Items:</u>	
Vinyl composition tile	096500	F1 4' of open shelving, (depth may vary)(fixed or loose)	123550
Base:		Option: mobile storage shelving	105626
Resilient base	096500	<u>Fire Suppression:</u>	
Ceiling:		Fire suppression system	211000
Rated 2-hour construction	---	<u>Plumbing:</u>	
Walls:		N/A	
Rated 2-hour construction		<u>HVAC:</u>	
Painted concrete masonry units or	<b>042000/099100</b>	To be determined by Design Professional	
Painted gypsum wallboard on metal studs	<b>092116/099100</b>	<u>Electrical:</u>	
<u>LOOSE FURNISHINGS:</u>		Single level switching	262726
L1 File cabinet (2 in 80 SF room)		Fluorescent lighting	265100
L2 Safe (loose or fixed)		Illumination level: See Table 8600-4	
		1 duplex receptacle	262726
		<u>Communications:</u>	
		N/A	
		<u>Electronic Safety and Security:</u>	
		N/A	
		<u>Miscellaneous:</u>	
		Wall, ceiling, and door construction to have a 2-hour fire rating	

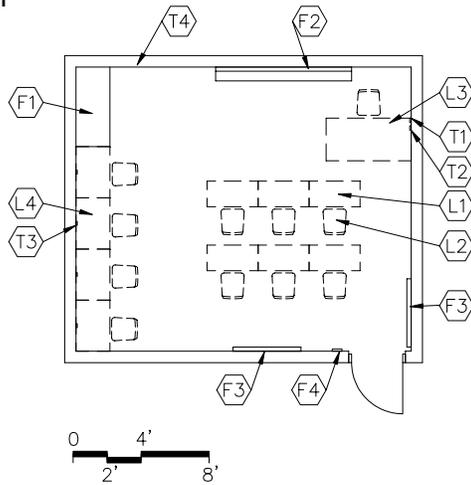
NOTES:

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

200 SF



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:

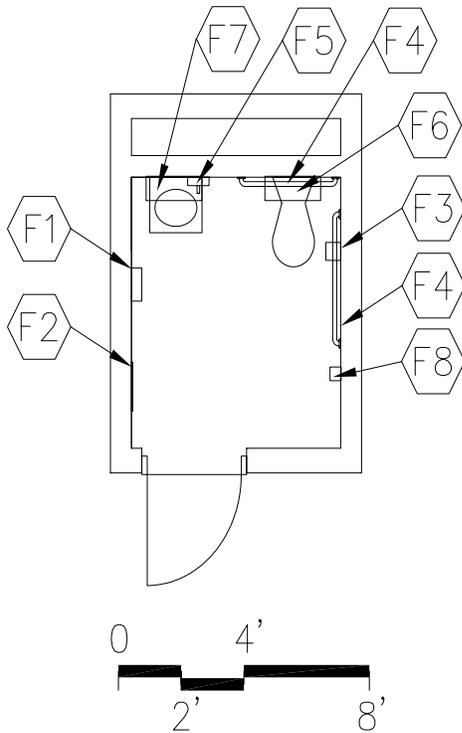
1. Loose furnishings shown represent one of many possible arrangements.

**IN-SCHOOL SUSPENSION  
E-AD-9**

<u>FINISHES</u> <sup>1</sup> :	Spec. Ref.#	<u>FEATURES</u> <sup>1</sup> :	Spec. Ref.#
<u>Flooring:</u>		<u>Fixed Items:</u>	
Carpet, VCT, VET, linoleum, rubber, or sheet vinyl	096816	F1 3'-4' of base cabinets (optional)	123550
	096500	F2 6'-8' of chalk/marker board	101100
	096516	F3 4'-8' of tack board	101100
		F4 Pencil sharpener support	062000
<u>Base:</u>		<u>Fire Suppression:</u>	
Resilient base	096500	Fire suppression system	211000
<u>Ceiling:</u>		<u>Plumbing:</u>	
Suspended, acoustical	095113	N/A	
<u>Walls:</u>		<u>HVAC:</u>	
Painted concrete masonry units	<b>042000</b> /099100	Supply/return air system	Div. 23
		Independent temperature control	230923
<u>LOOSE FURNISHINGS:</u>		<u>Electrical:</u>	
L1 Student carrels and/or desks		Single level switching	262726
L2 Student chairs		Fluorescent lighting	265100
L3 Teacher workstation and chair		Illumination level: See Table 8600-4	
L4 Computer workstation furniture		4 duplex receptacles	262726
Wastebasket		Double duplex receptacle adjacent to each data and video port	262726
Pencil sharpener		<u>Communications:</u>	
		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
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
		<u>Miscellaneous:</u>	
		N/A	

**NOTES:**

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



**PROGRAM ACTIVITIES:**

- 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

CAPACITY: 1 person  
 SIZE: 50 SF

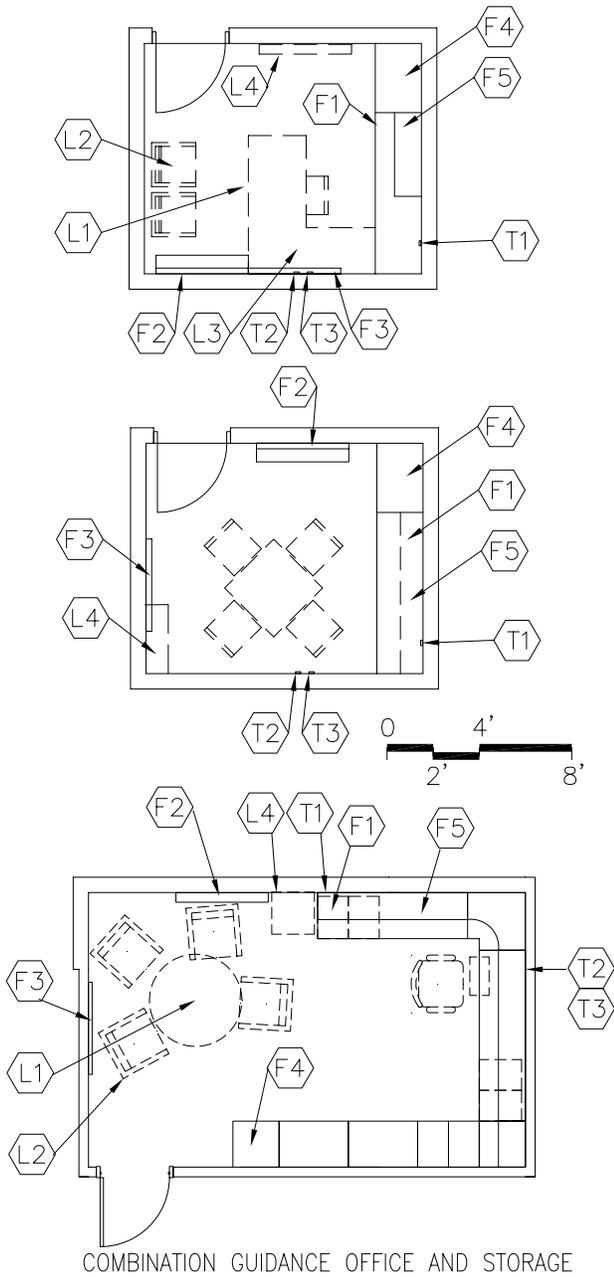
NOTES:

**RESTROOM  
E-AD-10**

<u>FINISHES<sup>1</sup>:</u>	Spec. Ref.#	<u>FEATURES<sup>1</sup>:</u>	Spec. Ref.#
<u>Flooring:</u>		<u>Fixed Items:</u>	
VET, linoleum, rubber, or sheet vinyl	096516	F1 Towel dispenser	102813
Optional: ceramic mosaic tile,	096500	F2 24" x 60" mirror	102813
porcelain tile, or	093000	F3 Toilet tissue holder	102813
resinous flooring	<b>096723</b>	F4 36" and 42" grab bar	102813
		F5 Soap dispenser	102813
<u>Base:</u>		F6 8" deep wall cabinet above toilet for supplies (optional)	102813
Resilient base	096500	F7 Stainless steel shelf (optional)	102813
Optional: ceramic mosaic tile,	093000	F8 Coat hook	102813
porcelain tile, resinous flooring, or integral vinyl cove base	096730		
<u>Ceiling:</u>		<u>Fire Suppression:</u>	
Suspended, acoustical	095113	Fire suppression system	211000
<u>Walls:</u>		<u>Plumbing:</u>	
Painted concrete masonry units		Wall-mounted water closet	224000
	<b>042000/099100</b>	Wall-mounted lavatory	224000
Optional: moisture & abuse-resistant gypsum wall board	<b>092116</b>	Plumbing connections	224000/221116/221119
<u>LOOSE FURNISHINGS:</u>		<u>HVAC:</u>	
Wastebasket		Exhaust air system	Div. 23
		Supplemental heat as required	Div. 23
		<u>Electrical:</u>	
		Single level switching	262726
		Fluorescent lighting	265100
		Illumination level: See Table 8600-4	
		1 duplex receptacle	262726
		<u>Communications:</u>	
		Central sound system	275123
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
		<u>Miscellaneous:</u>	
		N/A	

NOTES:

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



**CAPACITY:** 1 - 3 persons  
**SIZE:** 120 SF

**PROGRAM ACTIVITIES:**

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

**SPATIAL RELATIONSHIPS:**

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

**ENVIRONMENTAL CONSIDERATIONS:**

- 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.

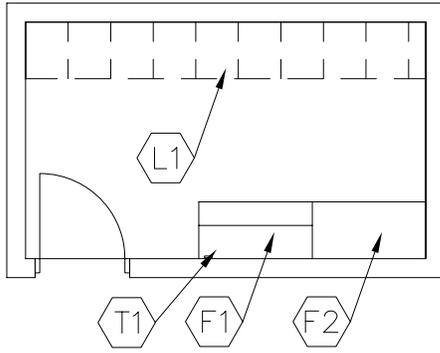
**GUIDANCE COUNSELOR'S OFFICE  
E-AD-11**

CHAPTER 4: ELEMENTARY SCHOOL

<u>FINISHES<sup>1</sup>:</u>	Spec. Ref.#	<u>FEATURES<sup>1</sup>:</u>	Spec. Ref.#
<u>Flooring:</u>		<u>Fixed Items:</u>	
Carpet <i>or Carpet Tile</i>	096816 <b>096813</b>	F1 Work surface with file drawers	123550
		F2 4' of chalk/marker board (optional)	101100
<u>Base:</u>		F3 4' of tack board	101100
Resilient base	096500	or tackable wall surface	
		F4 Tall wardrobe	123550
<u>Ceiling:</u>		F5 Wall cabinets	123550
Suspended, acoustical	095113		
		<u>Fire Suppression:</u>	
<u>Walls:</u>		Fire suppression system	211000
Painted gypsum wallboard over metal studs	<b>092116/099100</b>		
		<u>Plumbing:</u>	
		N/A	
<u>LOOSE FURNISHINGS:</u>		<u>HVAC:</u>	
L1 Desk or table, with chair		Supply/return air system	Div. 23
L2 Visitor chairs		Independent temperature control	230923
L3 Computer desk return		(coupled with similarly loaded adjacent spaces)	
L4 Bookcase (fixed or loose)			
Wastebasket			
		<u>Electrical:</u>	
		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
		<u>Communications:</u>	
		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
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
		<u>Miscellaneous:</u>	
		N/A	

NOTES:

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



**PROGRAM ACTIVITIES:**

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

**SPATIAL RELATIONSHIPS:**

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

**ENVIRONMENTAL CONSIDERATIONS:**

N/A

CAPACITY:  
SIZE:

N/A  
100 SF

**NOTES:**

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

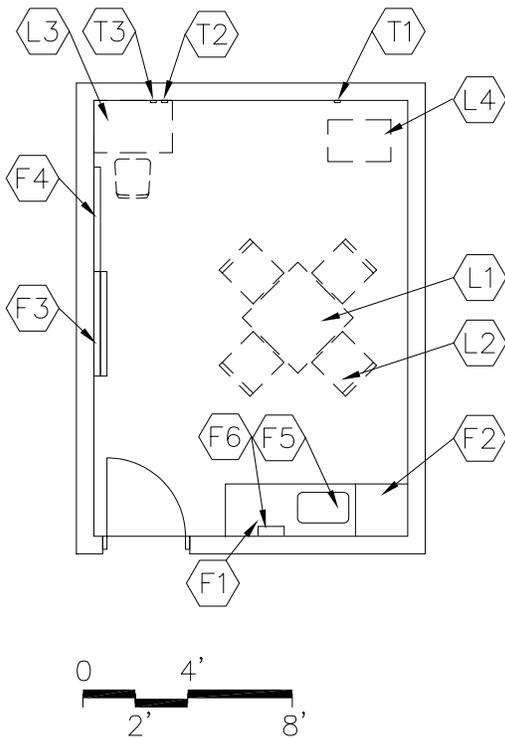
**GUIDANCE RECORDS/STORAGE  
E-AD-12**

CHAPTER 4: ELEMENTARY SCHOOL

<u>FINISHES<sup>1</sup>:</u>	Spec. Ref.#	<u>FEATURES<sup>1</sup>:</u>	Spec. Ref.#
Flooring:		<u>Fixed Items:</u>	
Vinyl composition tile	096500	F1 3'-6' of base and wall cabinets	123550
Base:		F2 3'-4' of tall storage cabinets	123550
Resilient base	096500	Option: mobile storage shelving	105626
Ceiling:		<u>Fire Suppression:</u>	
Rated 2-hour construction	---	Fire suppression system	211000
Walls:		<u>Plumbing:</u>	
Rated 2-hour construction		N/A	
Painted gypsum wallboard over metal studs or	<b>092116</b> /099100	<u>HVAC:</u>	
Painted concrete masonry units	<b>042000</b> /099100	To be determined by Design Professional	
<u>LOOSE FURNISHINGS:</u>		<u>Electrical:</u>	
L1 File cabinets		Single level switching	262726
		Fluorescent lighting	265100
		Illumination level: See Table 8600-4	
		1 duplex receptacle	262726
		<u>Communications:</u>	
		1 data port (optional)	271523
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
		<u>Miscellaneous:</u>	
		Wall, ceiling, and door construction to have a 2-hour fire rating	

NOTES:

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



PROGRAM ACTIVITIES:

- After school meetings, community, and small group meetings

SPATIAL RELATIONSHIPS:

- Near administrative area

ENVIRONMENTAL CONSIDERATIONS:

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

CAPACITY: 2 - 8 persons  
SIZE: 200 SF

NOTES:

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

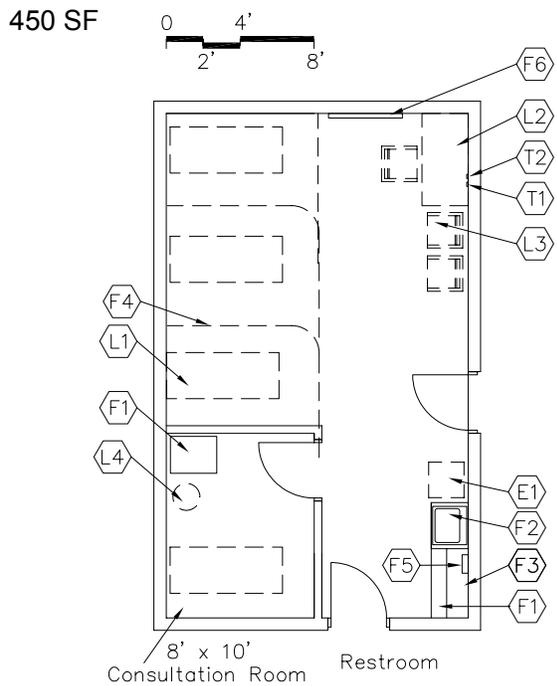
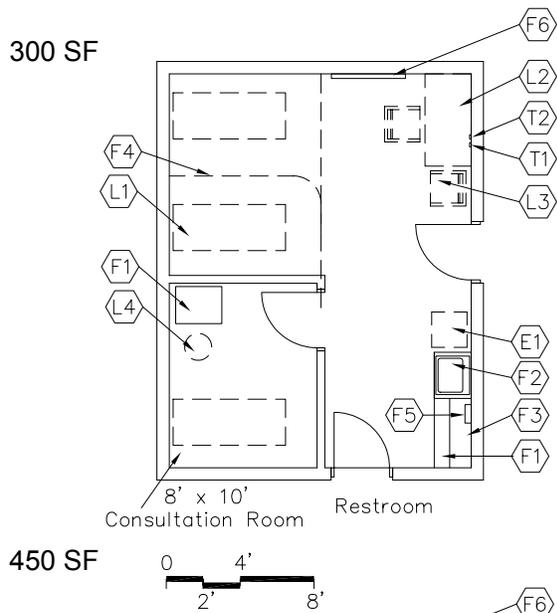
**PARENT/VOLUNTEER ROOM  
E-AD-13**

CHAPTER 4: ELEMENTARY SCHOOL

<u>FINISHES<sup>1</sup>:</u>	Spec. Ref.#	<u>FEATURES<sup>1</sup>:</u>	Spec. Ref.#
<u>Flooring:</u>		<u>Fixed Items:</u>	
Carpet <i>or</i> Carpet Tile	096816 <b>096813</b>	F1 About 3' of base cabinets	123550
		F2 2' of tall wardrobe	123550
<u>Base:</u>		F3 4' of chalk/marker board (optional)	101100
Resilient base	096500	F4 4' of tack board or tackable wall surface	101100
<u>Ceiling:</u>		F5 3' Sink base cabinet	123550
Suspended, acoustical	095113	F6 Towel dispenser	102813
<u>Walls:</u>		<u>Fire Suppression:</u>	
Painted gypsum wallboard over metal studs	<b>092116/099100</b>	Fire suppression system	211000
<u>LOOSE FURNISHINGS:</u>		<u>Plumbing:</u>	
L1 Table		Sink	224000
L2 Chairs		Plumbing connections	224000/221116/221119
L3 Computer workstation furniture			
L4 Monitor cart		<u>HVAC:</u>	
Wastebasket		Supply/return air system	Div. 23
		Independent temperature control (coupled with similarly loaded adjacent spaces)	230923
		<u>Electrical:</u>	
		Single level switching	262726
		Fluorescent lighting	265100
		Illumination level: See Table 8600-4	
		4 duplex receptacles	262726
		Double duplex receptacle adjacent to each data and video port	262726
		<u>Communications:</u>	
		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
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
		<u>Miscellaneous:</u>	
		N/A	

NOTES:

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



CAPACITY: 3 - 4 patients  
 SIZE: 300 - 450 SF  
 ANCILLARY SPACES: Restroom  
 E-AD-10

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

ENVIRONMENTAL CONSIDERATIONS:

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

NOTES:

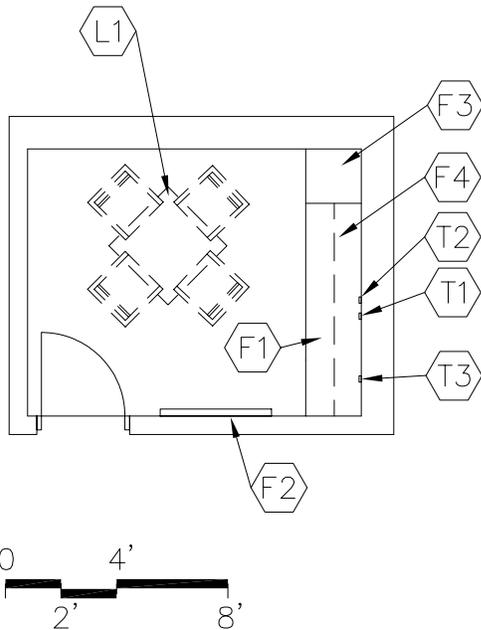
1. Loose furnishings shown represent one of many possible arrangements.

**HEALTH CLINIC  
E-AD-14**

<u>FINISHES</u> <sup>1</sup> :	Spec. Ref.#	<u>FEATURES</u> <sup>1</sup> :	Spec. Ref.#
<u>Flooring:</u>		<u>Fixed Items:</u>	
Vinyl composition tile, linoleum, rubber, VET, sheet vinyl, or resinous flooring	096516 096500 096723	F1 4'-9' of base cabinets F2 3' sink base cabinet F3 4'-9' of wall cabinets, lockable F4 Cubicle curtain and track F5 Towel dispenser F6 4' of tack board	123550 123550 123550 102123 102813 101100
<u>Base:</u>		<u>Fire Suppression:</u>	
Resilient base, resinous flooring, or integral vinyl cover base	096500 096730	Fire suppression system	211000
<u>Ceiling:</u>		<u>Plumbing:</u>	
Suspended, acoustical	095113	Sink Plumbing connections	224000 224000/221116/221119
<u>Walls:</u>		<u>HVAC:</u>	
Painted gypsum wallboard over metal studs	<b>092116/099100</b>	Supply/return air system Independent temperature control	Div. 23 230923
<u>LOOSE FURNISHINGS:</u>		<u>Electrical:</u>	
L1 Cots L2 Desk and chair L3 Chairs L4 Stool Wastebasket		Single level switching Fluorescent lighting Illumination level: See Table 8600-4 2 duplex receptacles Double duplex receptacle adjacent to each data port Receptacle for refrigerator Emergency lighting	262726 265100 262726 262726 262726 265100
<u>EQUIPMENT</u>		<u>Communications:</u>	
E1 Refrigerator with ice making capabilities		T1 1 voice port and phone T2 1 data port near workstation Clock Central sound system	271513/273113 271523 275313 275123
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
		<u>Miscellaneous:</u>	
		N/A	

NOTES:

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



PROGRAM ACTIVITIES:

- 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**

APACITY: 1 - 3 persons  
SIZE: 120 SF

NOTES:

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

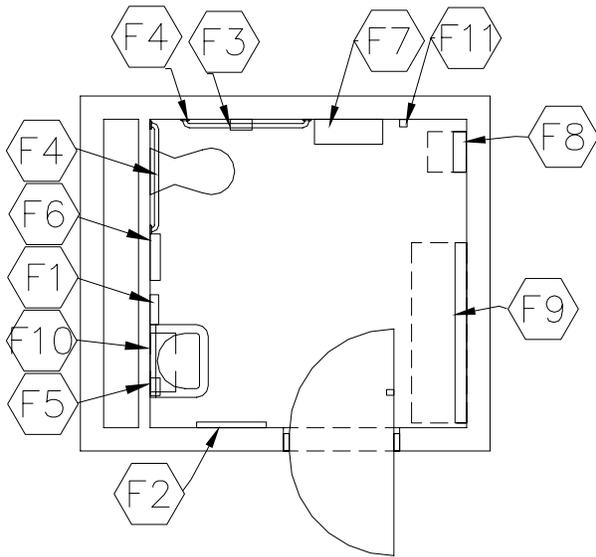
**ITINERANT PERSONNEL OFFICE  
E-AD-15**

CHAPTER 4: ELEMENTARY SCHOOL

<u>FINISHES<sup>1</sup>:</u>	Spec. Ref.#	<u>FEATURES<sup>1</sup>:</u>	Spec. Ref.#
<u>Flooring:</u> Carpet <i>or</i> Carpet Tile	096816 <b>096813</b>	<u>Fixed Items:</u> F1 Work surface with file drawers(optional)	123550
<u>Base:</u> Resilient base	096500	F2 4' of tack board or tackable wall surface	101100
<u>Ceiling:</u> Suspended, acoustical	095113	F3 2' of tall wardrobe (optional)	123550
<u>Walls:</u> Painted gypsum wallboard over metal studs	<b>092116/099100</b>	F4 Wall cabinets	123550
<u>LOOSE FURNISHINGS:</u> L1 Table and chairs Wastebasket		<u>Fire Suppression:</u> Fire suppression system	211000
		<u>Plumbing:</u> N/A	
		<u>HVAC:</u> Supply/return air system	Div. 23
		Independent temperature control (coupled with similarly loaded adjacent spaces)	230923
		<u>Electrical:</u> Single level switching	262726
		Fluorescent lighting	265100
		Illumination level: See Table 8600-4	
		4 duplex receptacles	262726
		Double duplex receptacle adjacent to data and video port	262726
		<u>Communications:</u> 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
		<u>Electronic Safety and Security:</u> Life safety devices per code	283111
		<u>Miscellaneous:</u> N/A	

NOTES:

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



PROGRAM ACTIVITIES:

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

SPATIAL RELATIONSHIPS:

- Located **where best** accessible to all building occupants

ENVIRONMENTAL CONSIDERATIONS:

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

CAPACITY: 2 people  
SIZE: 80 SF

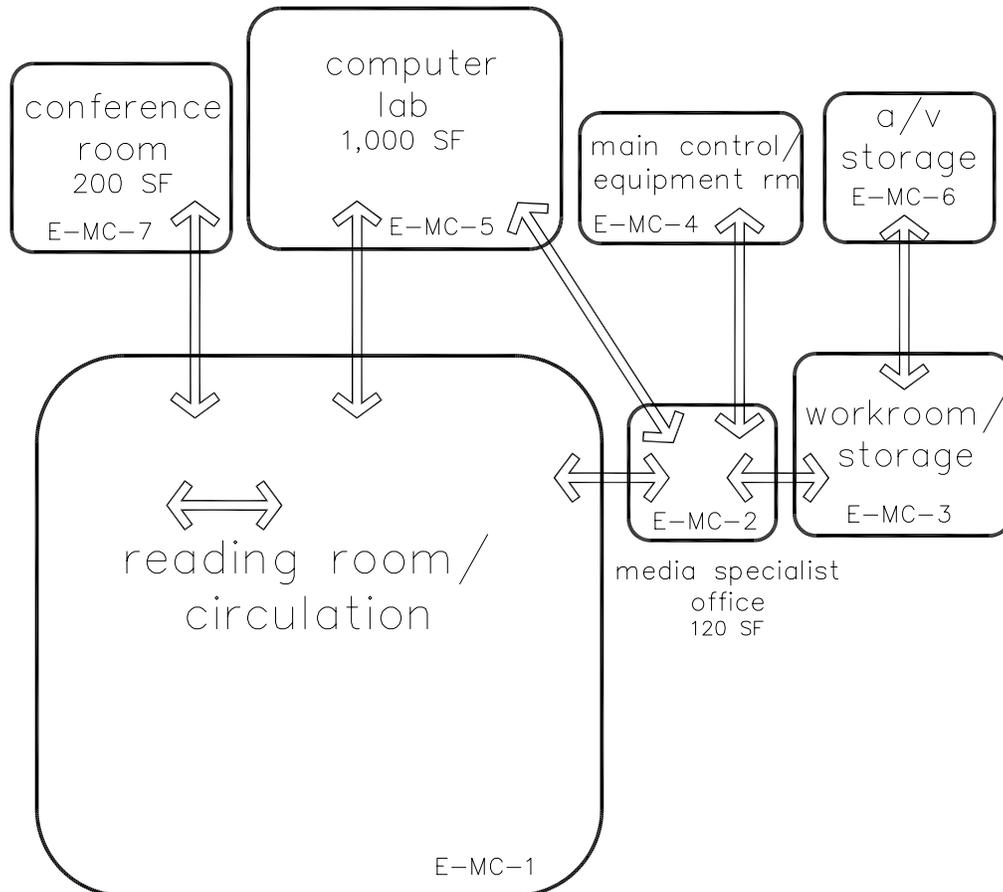
NOTES:

**FAMILY RESTROOM  
E-AD-16**

<u>FINISHES<sup>1</sup>:</u>	Spec. Ref.#	<u>FEATURES<sup>1</sup>:</u>	Spec. Ref.#
<u>Flooring:</u>		<u>Fixed Items:</u>	
Linoleum, rubber, VET, or sheet vinyl	096516 096500	F1 Towel dispenser	102813 102813
Optional: Ceramic mosaic tile, porcelain tile, or resinous flooring	093000 096723	F2 24" x 60" mirror	102813
		F3 Toilet tissue holder	102813
		F4 36" and 42" grab bar	102813
		F5 Soap dispenser	102813
		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
<u>Base:</u>		<u>Fire Suppression:</u>	
Resilient base	096500	Fire suppression system	211000
Optional: Ceramic mosaic tile, porcelain tile, resinous flooring flooring, or integral vinyl cove base	093000 096723		
<u>Ceiling:</u>		<u>Plumbing:</u>	
Suspended, acoustical	095113	Wall-mounted water closet	224000
		Wall-mounted lavatory	224000
		Plumbing connections	224000/221116/221119
<u>Walls:</u>		<u>HVAC:</u>	
Painted concrete masonry units	<b>042000/099100</b>	Exhaust air system	Div. 23
		Supplemental heat as required	Div. 23
<u>LOOSE FURNISHINGS:</u>		<u>Electrical:</u>	
Wastebasket		Single level switching	262726
		Fluorescent lighting	265100
		Illumination level: See Table 8600-4	
		1 duplex receptacle	262726
		<u>Communications:</u>	
		Central sound system	275123
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
		<u>Miscellaneous:</u>	
		N/A	

NOTES:

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



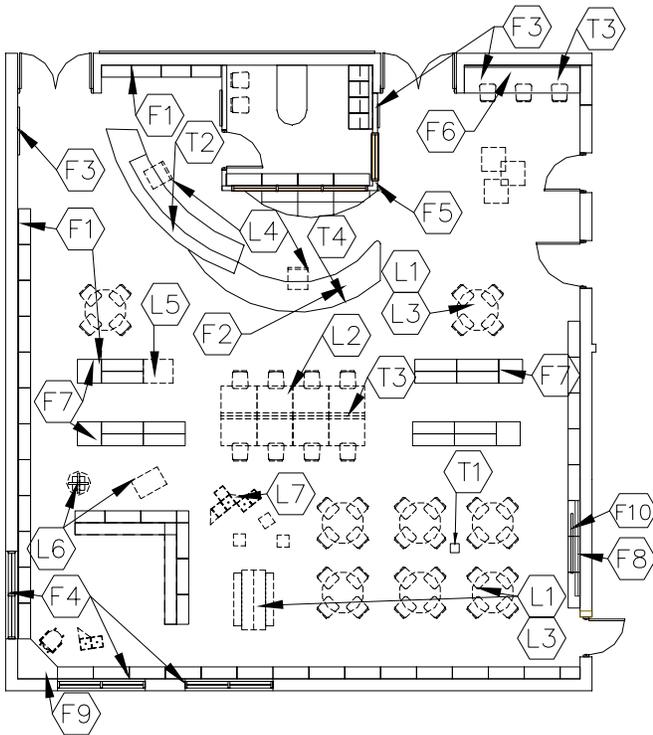
## NOTES:

This is an example of how the media center spaces in an elementary 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:

- E-MC-1 Reading Room/Circulation
- E-MC-2 Media Specialist Office
- E-MC-3 Workroom/Storage
- E-MC-4 **Main Control/Equipment Room**
- E-MC-5 Computer Lab
- E-MC-6 A/V Storage
- E-MC-7 Conference Room

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CAPACITY: 10% of student capacity  
 SIZE: Based on the student capacity  
 10% of student capacity multiplied  
 by 30 SF per student

## PROGRAM ACTIVITIES:

- Media center is an information laboratory that serves the instructional needs of the entire school.
- Provides students with access to information, technology, and multimedia materials in an area that will allow for individual, small group, and classroom research. Space should encourage development of positive attitudes toward reading and learning.

## SPATIAL RELATIONSHIPS:

- Near academic center of the school
- Access to classrooms
- Easy access to public parking

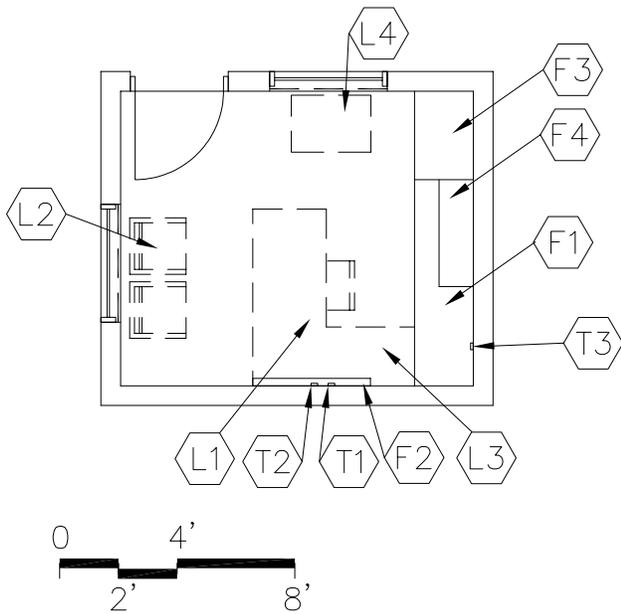
## ENVIRONMENTAL CONSIDERATIONS:

- Uniform lighting
- Natural light opening with an operable vent
- Environmental sound control -  
 wall minimum STC 50  
 ceiling minimum CAC 35, NRC **0.70**

## NOTES:

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





**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**

**CAPACITY:** 1 - 3 persons  
**SIZE:** 120 SF

**NOTES:**

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

**MEDIA SPECIALIST OFFICE  
E-MC-2**

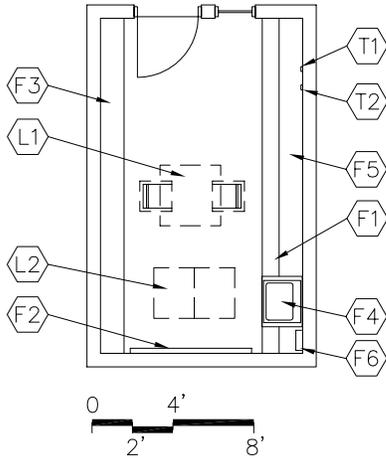
CHAPTER 4: ELEMENTARY SCHOOL

<u>FINISHES<sup>1</sup>:</u>	Spec. Ref.#	<u>FEATURES<sup>1</sup>:</u>	Spec. Ref.#
Flooring:		<u>Fixed Items:</u>	
Carpet <i>or</i> Carpet Tile	096816 <b>096813</b>	F1 Work surface with file drawers	123550
		F2 4' of tack board	101100
Base:		or tackable wall surface	
Resilient base	096500	F3 2' of tall wardrobe	123550
		F4 Wall cabinets	123550
Ceiling:		F5 Bookcases (optional)	123550
Suspended, acoustical	095113	<u>Fire Suppression:</u>	
		Fire suppression system	211000
Walls:		<u>Plumbing:</u>	
Painted concrete masonry units	<b>042000/099100</b>	N/A	
<u>LOOSE FURNISHINGS:</u>		<u>HVAC:</u>	
L1 Desk and chair		Supply/return air system	Div. 23
L2 Visitor chairs		Independent temperature control	230923
L3 Computer desk return		(coupled with similarly loaded	
L4 File cabinet		adjacent spaces)	
Wastebasket		<u>Electrical:</u>	
		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
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
		<u>Communications:</u>	
		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
		<u>Miscellaneous:</u>	
		Interior window	081113/088000

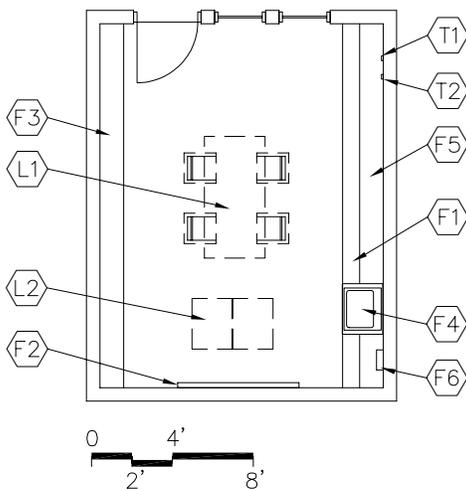
NOTES:

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

150 SF



250 SF



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

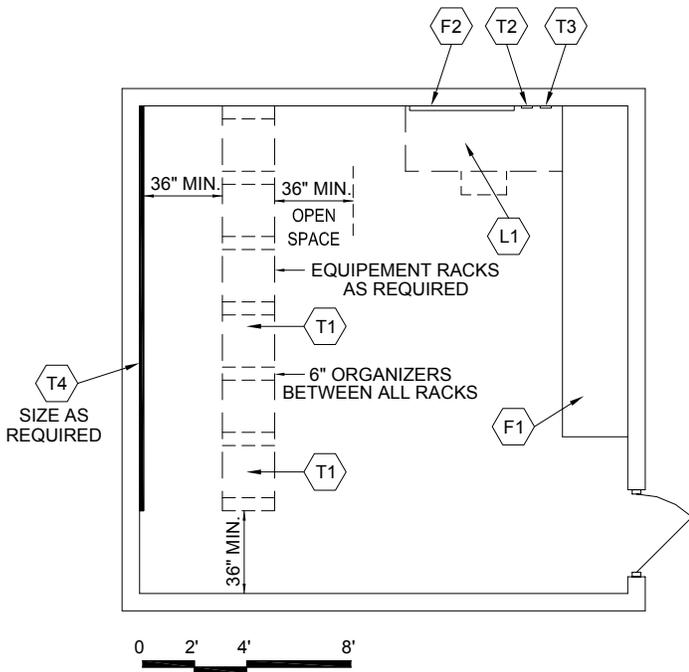
1. Loose furnishings shown represent one of many possible arrangements.

**WORKROOM/STORAGE  
E-MC-3**

<u>FINISHES<sup>1</sup>:</u>	Spec. Ref.#	<u>FEATURES<sup>1</sup>:</u>	Spec. Ref.#
Flooring:		<u>Fixed Items<sup>2</sup>:</u>	
Vinyl composition tile	096500	F1 12' - 15' of base cabinets	123550
Base:		F2 4'-8' of tack board	101100
Resilient base	096500	F3 10' - 18' of bookcases (optional)	123550
Ceiling:		F4 3' sink base cabinet	123550
Suspended, acoustical	095113	F5 8' - 15' of wall cabinets	123550
Walls:		F6 Towel dispenser	102813
Painted concrete masonry units	<b>042000/099100</b>	<u>Fire Suppression:</u>	
		Fire suppression system	211000
<u>LOOSE FURNISHINGS:</u>		<u>Plumbing:</u>	
L1 Table and chairs		Sink	224000
L2 Book trucks		Plumbing connections	224000/221116/221119
Wastebasket		<u>HVAC:</u>	
		Supply/return air system	Div. 23
		Independent temperature control	230923
		<u>Electrical:</u>	
		Single level switching	262726
		Fluorescent lighting	265100
		Illumination level: See Table 8600-4	
		3 duplex receptacles (minimum)	262726
		Double duplex receptacle adjacent to each data port	262726
		<u>Communications:</u>	
		T1 1 voice port and phone	271513/273113
		T2 1 data port	271523
		Clock	275313
		Central sound system	275123
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
		<u>Miscellaneous:</u>	
		Interior window	081113/088000

**NOTES:**

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



PROGRAM ACTIVITIES:

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

SPATIAL RELATIONSHIPS:

- Near the center of the building **to minimize the number of telecommunication rooms (TR)**

ENVIRONMENTAL CONSIDERATIONS:

- Ventilation and cooling of heat-generating electronic equipment

CAPACITY: N/A  
 SIZE: 300 SF

NOTES:

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

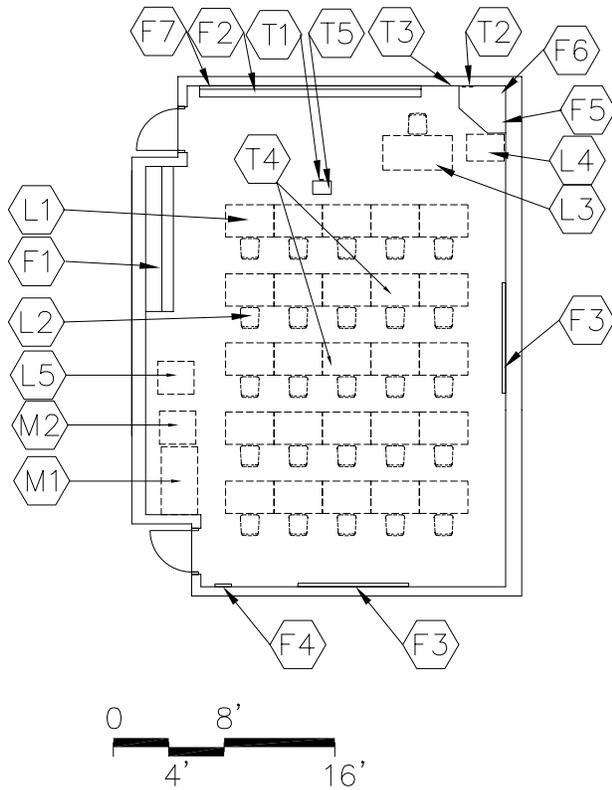
**MAIN CONTROL / EQUIPMENT ROOM  
E-MC-4**

CHAPTER 4: ELEMENTARY SCHOOL

<u>FINISHES<sup>1</sup>:</u>	Spec. Ref.#	<u>FEATURES<sup>1</sup>:</u>	Spec. Ref.#
Flooring:		<u>Fixed Items:</u>	
Vinyl composition tile, VET, or sheet vinyl	096500	F1 8'-16' of open shelving, depth may vary, (fixed or loose)	123550
Base:		F2 4' of tack board (optional)	101100
Resilient base	096500	<u>Fire Suppression:</u>	
Ceiling:		Fire suppression system	211000
Suspended, acoustical	095113	<u>Plumbing:</u>	
Walls:		N/A	
Painted concrete masonry units	<b>042000</b> /099100	<u>HVAC:</u>	
<u>LOOSE FURNISHINGS:</u>		Independent, packaged system	Div. 23
L1 Desk and chair		<u>Electrical:</u>	
Wastebasket		Single level switching	262726
		Fluorescent lighting	265100
		Illumination level: See Table 8600-4	
		3 duplex receptacles	262726
		Duplex receptacle for electronic systems	262726
		Telecommunications Grounding	270526/260526
		<u>Communications:</u>	
		T1 Technology Equipment	
		Central sound system	275123
		Telephone wiring	271513/271313
		Integrated telephone system	273113
		Video wiring	271333/271533/271543
		Digital on demand delivery system	274125
		Local area network wiring	271523/271323
		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
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
		Security system	281300/281600/282300
		<u>Miscellaneous:</u>	
		Provide distribution equipment with an equipment electrical ground.	

NOTES:

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



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.

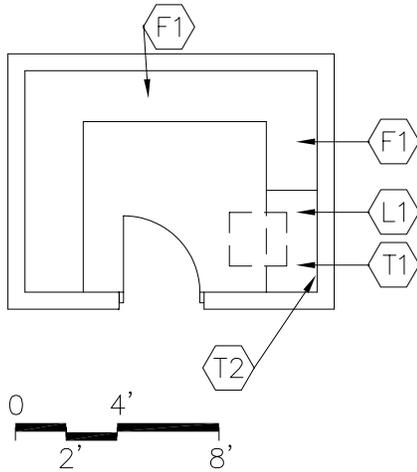
**COMPUTER LAB  
E-MC-5**

<u>FINISHES<sup>1</sup>:</u>	Spec. Ref.#	<u>FEATURES<sup>1</sup>:</u>	Spec. Ref.#
Flooring:		<u>Fixed Items:</u>	
Carpet	096816	F1 4'-16' of base & wall cabinets	123550
Base:		F2 10'-16' of chalk/marker board	101100
Resilient base	096500	F3 8'-12' of tack board	101100
Ceiling:		or tackable wall surface	
Suspended, acoustical	095113	F4 Pencil sharpener support	062000
Walls:		F5 3' of tall wardrobe with file drawers	123550
Painted concrete masonry units		F6 Technology support casework	123550
	<b>042000/099100</b>	F7 Projection screen (optional)	115213
<u>LOOSE FURNISHINGS:</u>		<u>Fire Suppression:</u>	
L1 Computer workstation furniture		Fire suppression system	211000
(could be fixed)		<u>Plumbing:</u>	
L2 Student chairs		N/A	
L3 Teacher desk/computer support and chair		<u>HVAC:</u>	
L4 File cabinet		Supply/return air system	Div. 23
L5 Printer / scanner stand		Independent temperature control	230923
Wastebasket		<u>Electrical:</u>	
Pencil sharpener		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
		<u>Communications:</u>	
		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
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
		<u>Miscellaneous:</u>	
		The following items are to be funded by the school district:	
		M1 Classroom area network file server	
		M2 Printer	

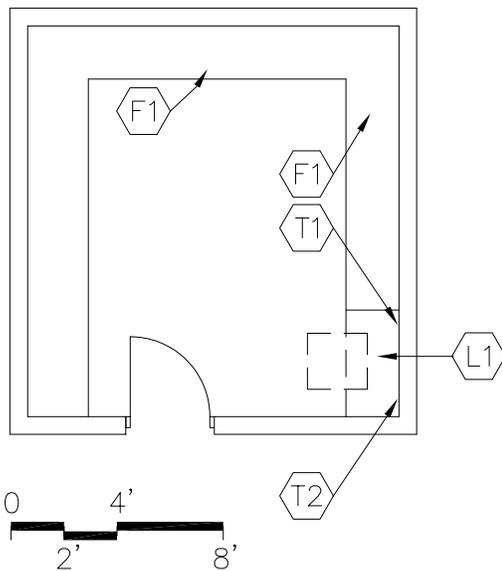
**NOTES:**

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.

100 SF



200 SF



CAPACITY:  
SIZE:

N/A  
100-200 SF

**PROGRAM ACTIVITIES:**

- Storage of audio/video (A/V) equipment

**SPATIAL RELATIONSHIPS:**

- Near media specialist office
- Near workroom/storage
- Near **main control / equipment room**

**ENVIRONMENTAL CONSIDERATIONS:**

N/A

**NOTES:**

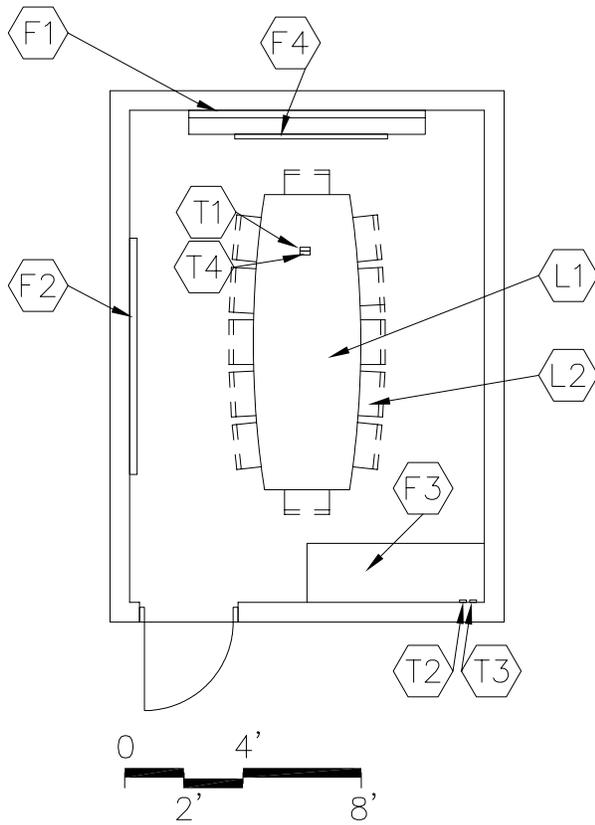
1. Loose furnishings shown represent one of many possible arrangements.

**A/V STORAGE**  
**E-MC-6**

	Spec. Ref.#		Spec. Ref.#
<u>FINISHES<sup>1</sup>:</u>		<u>FEATURES<sup>1</sup>:</u>	
Flooring:		<u>Fixed Items<sup>2</sup>:</u>	
Vinyl composition tile	096500	F1 14'-28' open shelving, depth may vary (loose or fixed)	123550
Base:		Option: mobile storage shelving	105626
Resilient base	096500	<u>Fire Suppression:</u>	
Ceiling:		Fire suppression system	211000
Suspended, acoustical	095113	<u>Plumbing:</u>	
Walls:		N/A	
Painted concrete masonry units	<b>042000/099100</b>	<u>HVAC:</u>	
<u>LOOSE FURNISHINGS:</u>		To be determined by Design Professional	
L1 Desk and chair		<u>Electrical:</u>	
Wastebasket		Single level switching	262726
		Fluorescent lighting	265100
		Illumination level: See Table 8600-4	
		4 duplex receptacles (minimum)	262726
		<u>Communications:</u>	
		T1 1 voice port and phone	271513/273113
		T2 1 data port near workstation	271513
		Central sound system	275123
		<u>Electronic Safety and Security:</u>	
		N/A	
		<u>Miscellaneous:</u>	
		N/A	

NOTES:

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



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**

CAPACITY: 8 - 12 persons  
SIZE: 200 SF

NOTES:

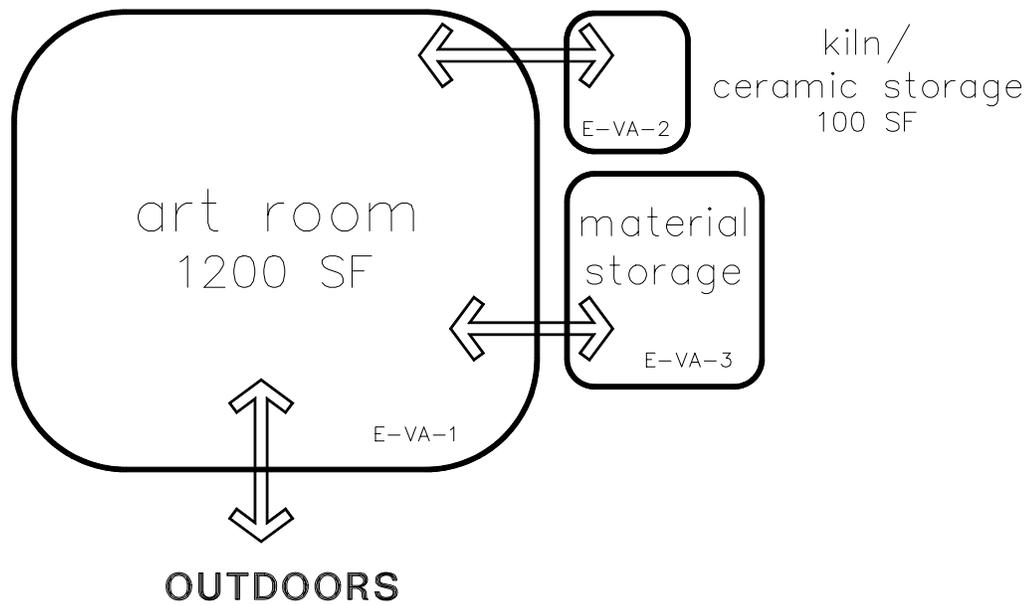
1. Loose furnishings shown represent one of many possible arrangements.

**CONFERENCE ROOM  
E-MC-7**

<u>FINISHES<sup>1</sup>:</u>	Spec. Ref.#	<u>FEATURES<sup>1</sup>:</u>	Spec. Ref.#
<u>Flooring:</u>		<u>Fixed Items:</u>	
Carpet <i>or</i> Carpet Tile	096816 <b>096813</b>	F1 8'-10' of chalk/marker board	101100
		F2 6'-8' of tack board or tackable wall surface	101100
<u>Base:</u>		F3 4'-6' of base cabinets (optional) (fixed or mobile)	123550
Resilient base	096500	F4 Projection screen (optional)	115213
<u>Ceiling:</u>		<u>Fire Suppression:</u>	
Suspended, acoustical	095113	Fire suppression system	211000
<u>Walls:</u>		<u>Plumbing:</u>	
Painted concrete masonry units	<b>042000/099100</b>	N/A	
<u>LOOSE FURNISHINGS:</u>		<u>HVAC:</u>	
L1 Conference table		Supply/return air system	Div. 23
L2 Chairs		Independent temperature control	230923
Wastebasket		<u>Electrical:</u>	
		Multilevel switching	262726
		Fluorescent lighting	265100
		Illumination level: See Table 8600-4	
		3 duplex receptacles	262726
		Double duplex receptacle adjacent to each data and video port	262726
		<u>Communications:</u>	
		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
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
		<u>Miscellaneous:</u>	
		N/A	

NOTES:

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



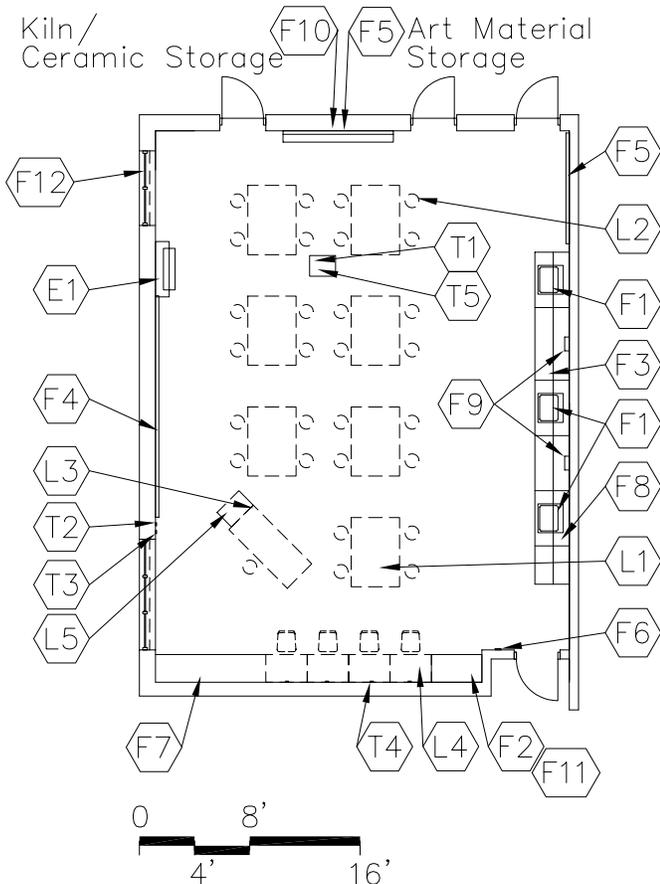
## NOTES:

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

Following are the Visual Arts space plates:

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

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

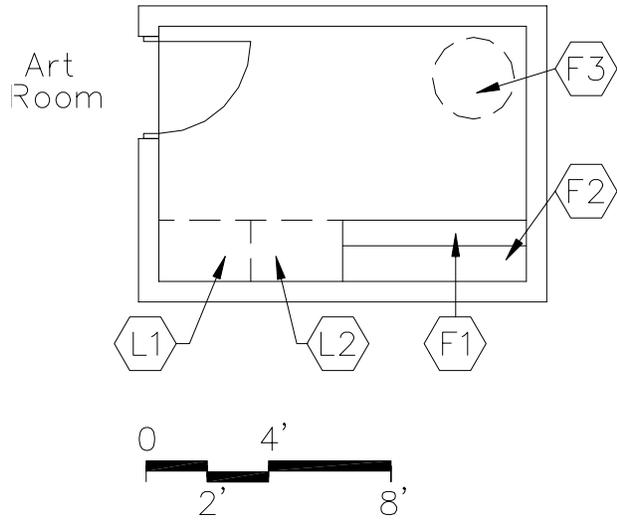
1. Loose furnishings shown represent one of many possible arrangements.

**ART ROOM  
E-VA-1**

<u>FINISHES<sup>1</sup>:</u>	Spec. <u>Ref.#</u>	<u>FEATURES<sup>1</sup>:</u>	Spec. <u>Ref.#</u>
Flooring:		<u>Fixed Items:</u>	
Vinyl composition tile, sealed concrete, VET, sheet vinyl, or rubber	096500	F1 3'-4' sink base cabinet, or several wash fountains	123550
Base:		F2 3' of tall wardrobe with file drawers	123550
Resilient base	096500	F3 10'-12' of base cabinets	123550
Ceiling:		F4 12'-16' of tack board or tackable wall surface	101100
Suspended, acoustical	095113	F5 12'-16' of chalk/marker board	101100
Walls:		F6 Pencil sharpener support	062000
Painted concrete masonry units	<b>042000/099100</b>	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
		<b>F12</b> Windows with integral blinds	<b>085113</b>
<u>LOOSE FURNISHINGS:</u>		<u>Fire Suppression:</u>	
L1 Student work tables		Fire suppression system	211000
L2 Student chairs or stools		<u>Plumbing:</u>	
L3 Teacher desk and chair/stool and teacher computer support		Sinks with solids interceptor	224000
L4 Computer workstation furniture		Plumbing connections	224000/221116/221119
L5 Desk height file cabinet		<u>HVAC:</u>	
Wastebasket		Supply/return air system	Div. 23
Pencil sharpener		Independent temperature control	230923
<u>EQUIPMENT:</u>		Manually controlled general exhaust	Div. 23
E1 Drying rack		<u>Electrical:</u>	
		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
		<u>Communications:</u>	
		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
		<u>Electronic Safety and Security:</u>	
		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 E-VA-1

NOTES:

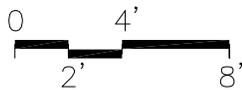
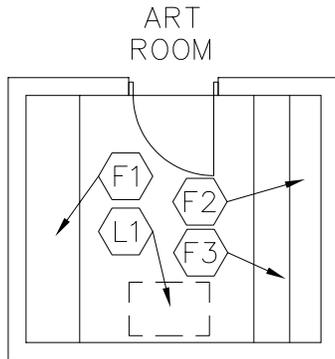
**KILN/CERAMIC STORAGE  
E-VA-2**

	Spec. Ref.#		Spec. Ref.#
<u>FINISHES<sup>1</sup>:</u>		<u>FEATURES<sup>1</sup>:</u>	
Flooring:		<u>Fixed Items:</u>	
Sealed concrete	033000	F1 3'-6' of base cabinets	123550
Base:		F2 3'-6' of wall cabinets	123550
Resilient base	096500	F3 Kiln	<b>119200</b>
Ceiling:		<u>Fire Suppression:</u>	
Suspended, acoustical	095113	Fire suppression system	211000
Walls:		<u>Plumbing:</u>	
Painted concrete masonry units	<b>042000/099100</b>	N/A	
<u>LOOSE FURNISHINGS:</u>		<u>HVAC:</u>	
L1 3' of tall dry storage units (total)		Temperature controlled exhaust	Div. 23
L2 3' of tall damp storage units (total)		Ventilation for kiln	Div. 23
L1 and L2 could be fixed casework.		<u>Electrical:</u>	
		Single level switching	262726
		Fluorescent lighting	265100
		Illumination level: See Table 8600-4	
		1 duplex receptacle	262726
		Electrical connection for kiln	262726
		<u>Communications:</u>	
		Central sound system	275123
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
		<u>Miscellaneous:</u>	
		N/A	

NOTES:

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

100 SF



**PROGRAM ACTIVITIES:**

- Storage of art supplies and materials

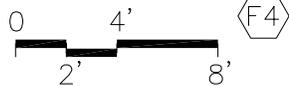
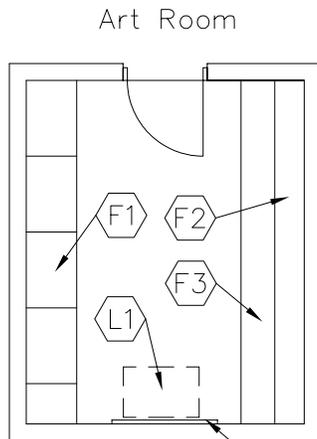
**SPATIAL RELATIONSHIPS:**

- Adjacent to art room

**ENVIRONMENTAL CONSIDERATIONS:**

- Stain-resistant floor covering

150 SF



CAPACITY: N/A  
 SIZE: 100 - 150 SF  
 ANCILLARY SPACES: Art Room  
 E-VA-1

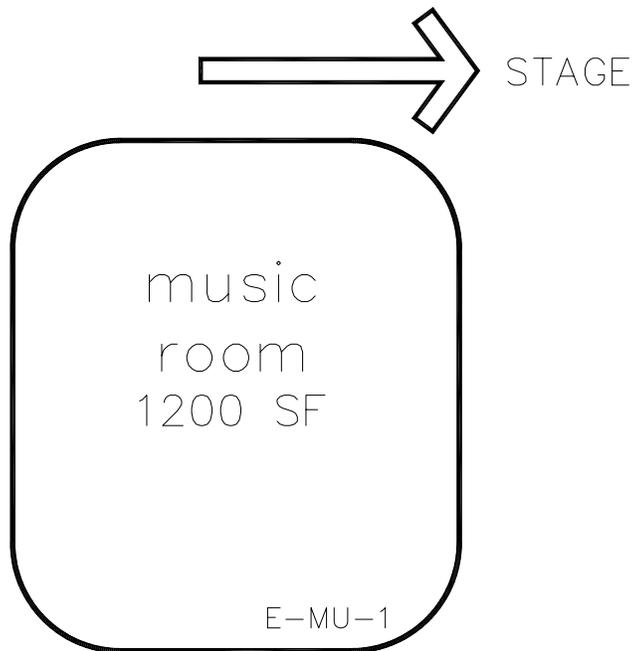
NOTES:

**ART MATERIAL STORAGE  
E-VA-3**

	Spec. Ref.#		Spec. Ref.#
<u>FINISHES</u> <sup>1</sup> :		<u>FEATURES</u> <sup>1</sup> :	
Flooring:		<u>Fixed Items</u> <sup>2</sup> :	
Vinyl composition tile, VET, or sheet vinyl	096500	F1 8' - 14' tall storage cabinets	123550
Base:		F2 8' - 14' base cabinets, (depth for school's need)	123550
Resilient base	096500	F3 8' - 14' wall cabinets	123550
Ceiling:		<u>Fire Suppression:</u>	
Suspended, acoustical	095113	Fire suppression system	211000
Walls:		<u>Plumbing:</u>	
Painted concrete masonry units	<b>042000</b> /099100	N/A	
<u>LOOSE FURNISHINGS:</u>		<u>HVAC:</u>	
L1 Mobile materials cart		Exhaust air system	Div. 23
		Supplemental heat as required	Div. 23
		<u>Electrical:</u>	
		Single level switching	262726
		Fluorescent lighting	265100
		Illumination level: See Table 8600-4	
		Duplex receptacle above base cabinet	262726
		<u>Communications:</u>	
		N/A	
		<u>Electronic Safety and Security:</u>	
		N/A	
		<u>Miscellaneous:</u>	
		N/A	

NOTES:

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



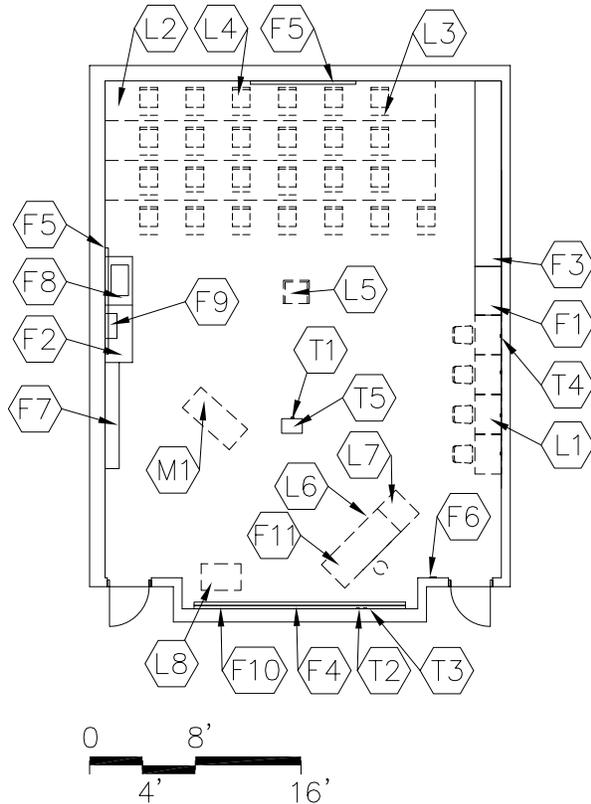
NOTES:

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

Following is the Music space plate:

E-MU-1 Music Room

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**PROGRAM ACTIVITIES:**

- Music students will listen to, analyze, compose, and describe music; sing alone and with others; play instruments; participate in creative movement, dance, and mime; understand music in relation to history and culture, and in relation to the other arts and disciplines in the academic content area.

**SPATIAL RELATIONSHIPS:**

- Grouped with other noise producing activities
- Near stage

**ENVIRONMENTAL CONSIDERATIONS:**

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

CAPACITY: 25 students  
 SIZE: 1,200 SF

**NOTES:**

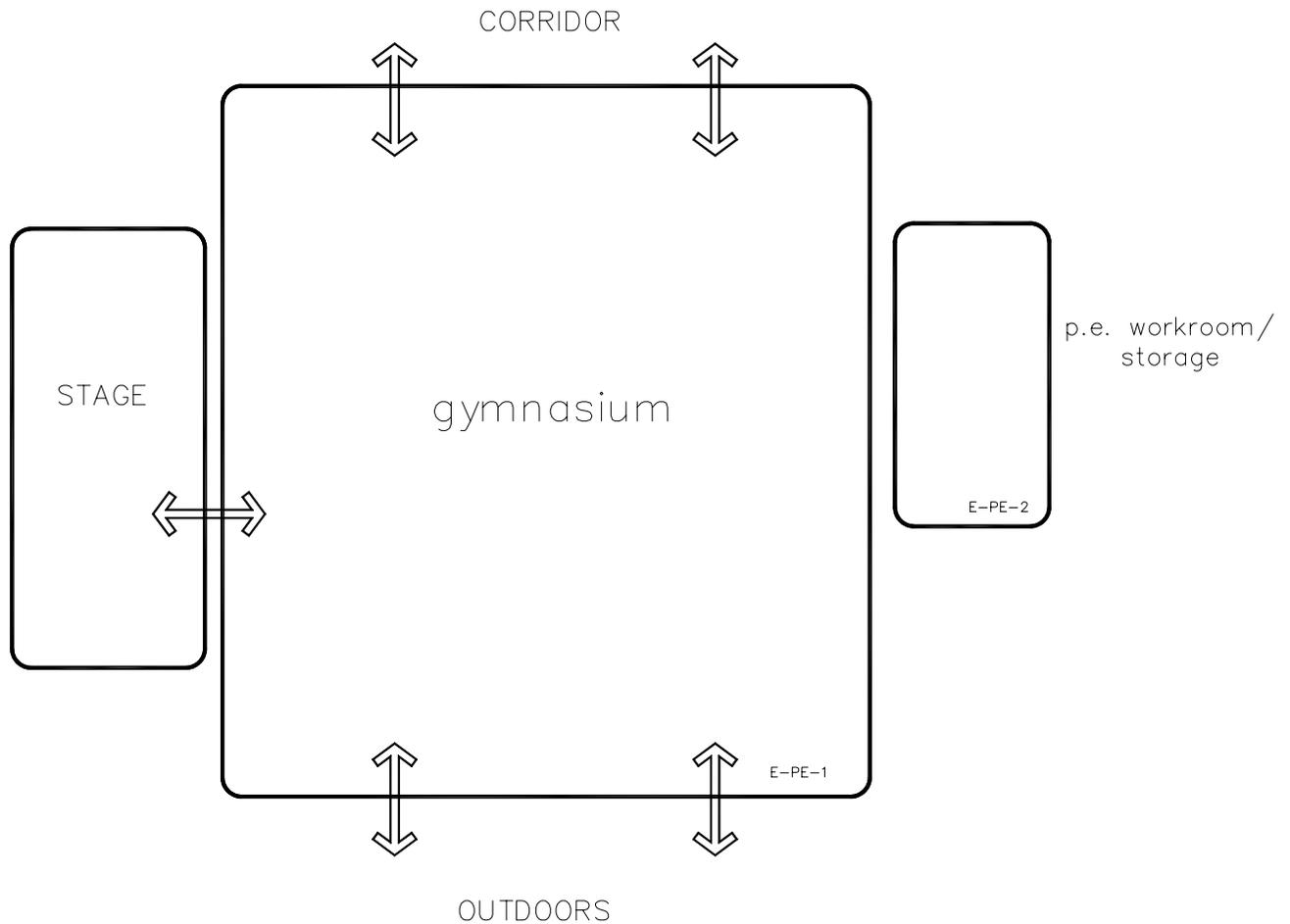
1. Loose furnishings shown represent one of many possible arrangements.

**MUSIC ROOM  
E-MU-1**

<u>FINISHES<sup>1</sup>:</u>	Spec. Ref.#	<u>FEATURES<sup>1</sup>:</u>	Spec. Ref.#
<u>Flooring:</u>		<u>Fixed Items:</u>	
Carpet	096816	F1 Tall wardrobe with file drawers	123550
Optional: vinyl composition tile, linoleum, VET, sheet vinyl, or rubber	096500 <b>096516</b>	F2 Base cabinets	123550
		F3 Tall storage cabinets	123550
		F4 8'-16' of chalk/marker board	101100
		F5 4'-16' of tack board	101100
		or tackable wall surface	
<u>Base:</u>		F6 Pencil sharpener support	062000
Resilient base	096500	F7 4'-9' of bookcases	123550
		F8 3' sink base cabinet	123550
<u>Ceiling:</u>		F9 Towel dispenser (optional)	102813
Suspended, acoustical	095113	F10 Projection screen (optional)	115213
		F11 Technology support casework	123550
<u>Walls:</u>		<u>Fire Suppression:</u>	
Painted concrete masonry units	<b>042000/099100</b>	Fire suppression system	211000
Acoustical wall treatment	098000	<u>Plumbing:</u>	
		Sink with drinking fountain	224000
		Plumbing connections	224000/221116/221119
<u>LOOSE FURNISHINGS:</u>		<u>HVAC:</u>	
L1 Computer workstation furniture		Supply/return air system	Div. 23
L2 Risers		Independent temperature control	230923
L3 Music stands		<u>Electrical:</u>	
L4 Music chairs		Fluorescent lighting	265100
L5 Conductor podium		Illumination level: See Table 8600-4	
L6 Teacher desk and computer workstation support and chair		Multilevel switching	262726
L7 File cabinet		4 duplex receptacles	262726
L8 Folding mobile cart for ORFF instruments		Double duplex receptacle adjacent to each data and video port	262726
Wastebasket		Emergency lighting	265100
Pencil sharpener		<u>Communications:</u>	
		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
		T5 Overhead projector	274119
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
		<u>Miscellaneous:</u>	
		The following item is to be funded by the school district:	
		M1 Piano	

**NOTES:**

1. Finishes/Features: Refer to Chapter 9 for specification references.
2. Items F2 & F3: 16'-20' combination of base, wall, and tall storage cabinets to support music curriculum.



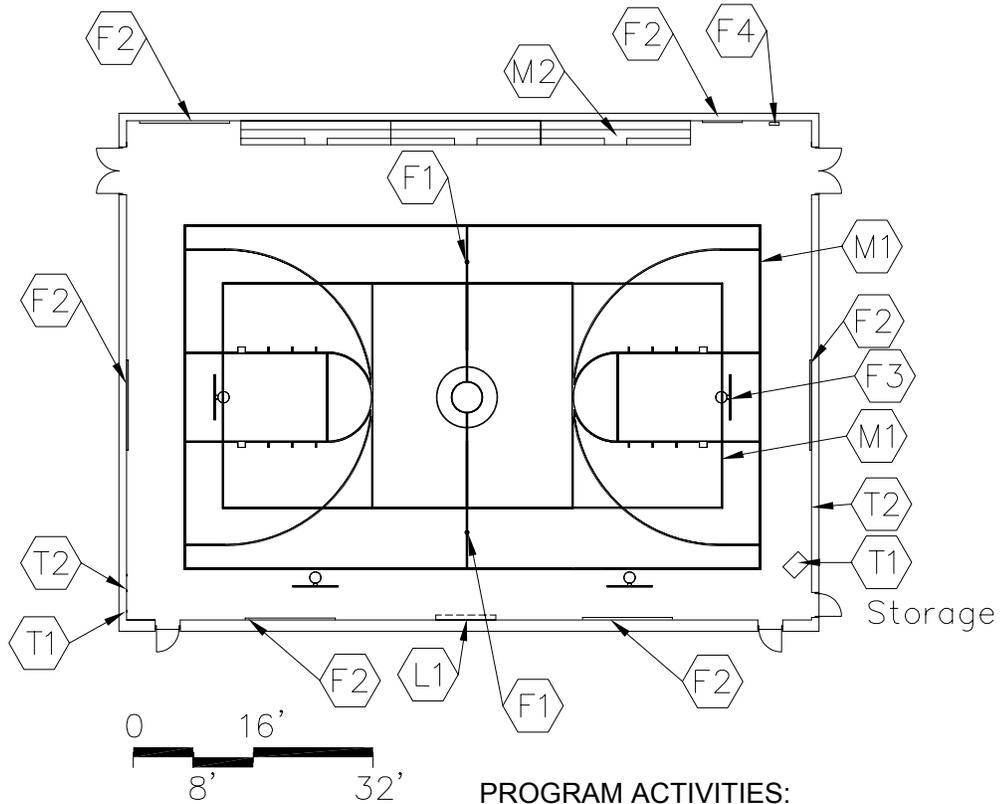
## NOTES:

This is an example of how the physical education spaces in an elementary 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:

- |        |                       |
|--------|-----------------------|
| E-PE-1 | Gymnasium             |
| E-PE-2 | P.E. Workroom/Storage |

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CAPACITY: varies  
 SIZE: 3,500-5,000 SF  
 ANCILLARY SPACES: P.E. Workroom/Storage  
 E-PE-2

**PROGRAM ACTIVITIES:**

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

**SPATIAL RELATIONSHIPS:**

- Direct access to outdoors
- Near student dining

**ENVIRONMENTAL CONSIDERATIONS:**

- Uniform lighting
- Environmental sound control - wall minimum STC **60**
- Adequate sound control/acoustics
- Clear height of 20' from floor to nearest obstruction

NOTES:

**GYMNASIUM  
E-PE-1**

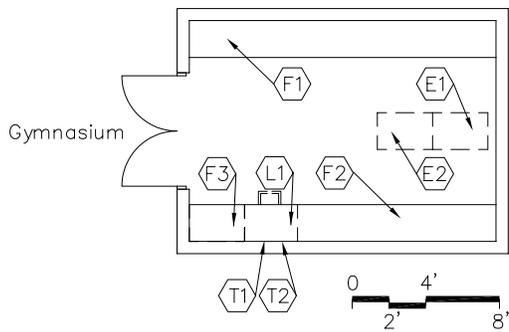
CHAPTER 4: ELEMENTARY SCHOOL

<u>FINISHES<sup>1</sup>:</u>	Spec. Ref.#	<u>FEATURES<sup>1</sup>:</u>	Spec. Ref.#
<u>Flooring:</u>		<u>Fixed Items:</u>	
Vinyl composition tile, sheet vinyl, resilient athletic flooring, rubber, VET, fluid-applied athletic flooring, or linoleum	096500 <b>096516</b> 096566 <b>096766</b>	F1 Volleyball sleeves and standards with cart	116623 116623
		F2 Safety wall wainscot	116623
		F3 Basketball backstops, fiberglass, adjustable height	116623
		F4 Ropes and climbing bars (optional)	116623
<u>Base:</u>		<u>Fire Suppression:</u>	
Resilient base	096566	Fire suppression system	211000
<u>Ceiling:</u>		<u>Plumbing:</u>	
Painted exposed structure	099100	N/A	
<u>Walls:</u>		<u>HVAC:</u>	
Painted concrete masonry units	<b>042000</b> /099100	Supply/return air system	Div. 23
Acoustical wall treatment	098000	Independent temperature control	230923
<u>LOOSE FURNISHINGS:</u>		<u>Electrical:</u>	
L1 Portable chalkboard		Single level switching	262726
		High intensity discharge lighting <b>or fluorescent lighting</b>	265100
		illumination level: See Table 8600-4	
		8 duplex receptacles	262726
		Double duplex receptacle adjacent to each data and video port	262726
		Means of egress lighting per code	265100
		Electrical connections to P.E. equipment where necessary	262726
		Emergency lighting	265100
		Telecommunications Grounding	270526/260526
<u>Miscellaneous:</u>		<u>Communications:</u>	
M1 Court markings (minimum) Appropriate sized basketball court Regulation volleyball court		T1 2 video ports, 1 monitor with cart	271533/271543/274119
The following item is to be funded by the school district:		T2 2 data ports	271513
M2 Telescoping stands	126600	Clock with wire guards	275313
		Central sound system	275123
		Gymnasium sound system	275124
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111

NOTES:

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

200 SF



PROGRAM ACTIVITIES:

- Storage for P. E. equipment
- Workroom for P. E. teacher

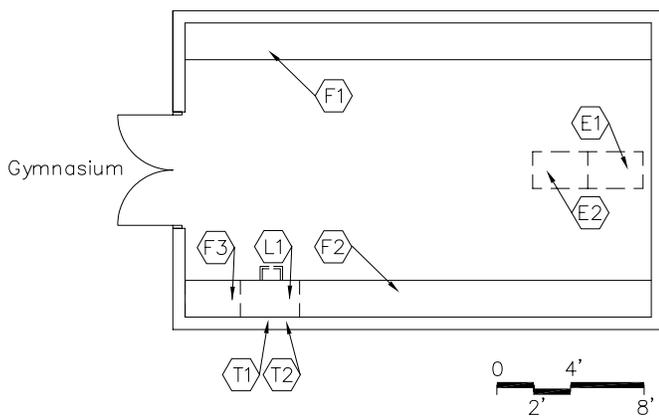
SPATIAL RELATIONSHIPS:

- Adjacent to gymnasium

ENVIRONMENTAL CONSIDERATIONS:

N/A

400 SF



CAPACITY: N/A  
 SIZE: 200 - 400 SF  
 ANCILLARY SPACES: Gymnasium  
 E-PE-1

NOTES:

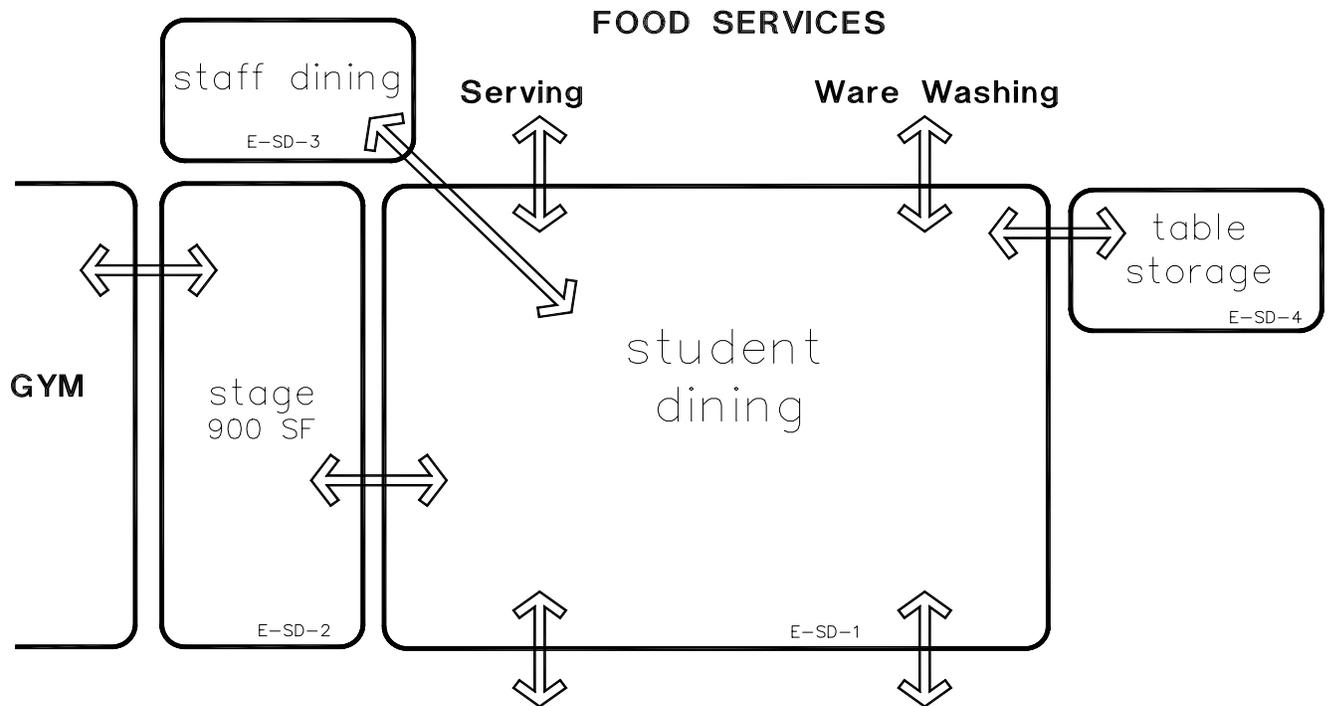
**P.E. WORKROOM/STORAGE  
E-PE-2**

CHAPTER 4: ELEMENTARY SCHOOL

<u>FINISHES<sup>1</sup>:</u>	Spec. Ref.#	<u>FEATURES<sup>1</sup>:</u>	Spec. Ref.#
Flooring:		<u>Fixed Items<sup>2</sup>:</u>	
Sealed concrete	033000	F1 18' – 30' of open shelving depth may vary (fixed or loose)	123550
Base:		F2 16' – 26' of tall storage cabinets	123550
<b>No base</b>		F3 Tall wardrobe	123550
Ceiling:		<u>Fire Suppression:</u>	
<b>Exposed structure</b>		Fire suppression system	211000
Option: Rated gypsum wallboard	<b>092116</b>	<u>Plumbing:</u>	
Walls:		N/A	
<b>Unpainted</b> concrete masonry units	<b>042000</b>	<u>HVAC:</u>	
<u>LOOSE FURNISHINGS:</u>		Exhaust air system	Div. 23
L1 Teacher desk and chair		Supplemental heat as required	Div. 23
Wastebasket		<u>Electrical:</u>	
<u>EQUIPMENT:</u>		Single level switching	262726
E1 Tumbling mats on carts		Fluorescent lighting	265100
E2 Ball carts		Illumination level: See Table 8600-4	
		1 duplex receptacle	262726
		Double duplex receptacle adjacent to data port	262726
		<u>Communications:</u>	
		T1 1 voice port and phone	271513/273113
		T2 1 data port near workstation	271513
		Central sound system	275123
		Gymnasium sound system	275124
		<u>Electronic Safety and Security:</u>	
		N/A	
		<u>Miscellaneous:</u>	
		N/A	

NOTES:

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



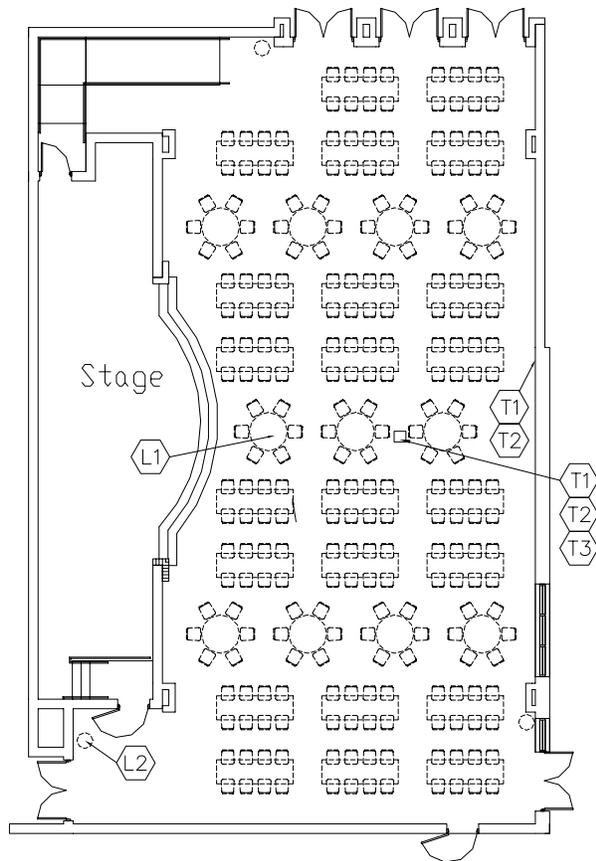
## NOTES:

This is an example of how the student dining spaces in an elementary 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:

- E-SD-1 Student Dining
- E-SD-2 Stage
- E-SD-3 Staff Dining
- E-SD-4 Table Storage

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**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
- Natural lighting
- 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.

**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, E-SD-2  
 Kitchen, E-FS-1

**NOTES:**

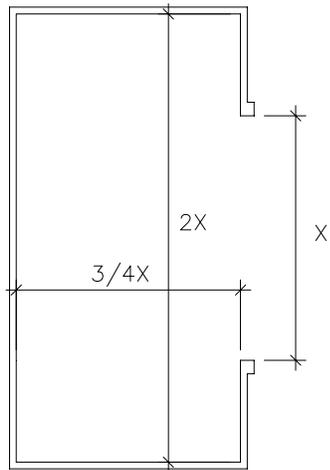
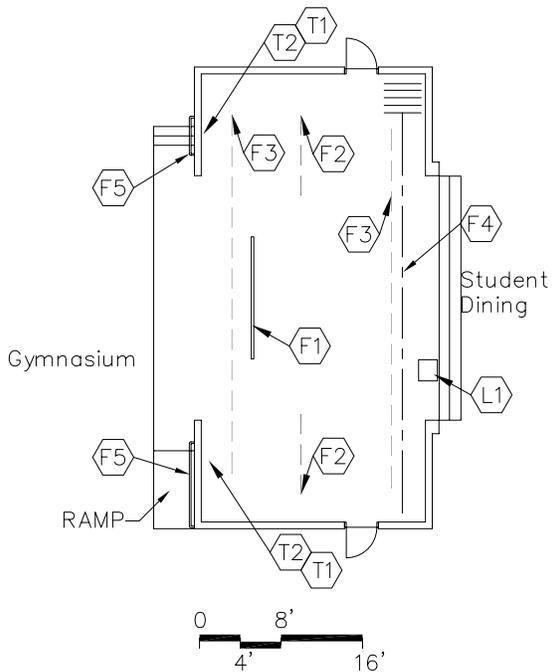
1. Loose furnishings shown represent one of many possible arrangements.

**STUDENT DINING  
E-SD-1**

<u>FINISHES<sup>1</sup>:</u>	Spec. <u>Ref.#</u>	<u>FEATURES<sup>1</sup>:</u>	Spec. <u>Ref.#</u>
Flooring:		<u>Fixed Items:</u>	
Linoleum, rubber, VET, sheet	096500	N/A	
vinyl, VCTT,	093000		
or porcelain terrazzo tile	<b>096516</b>	<u>Fire Suppression:</u>	
	096616	Fire suppression system	211000
Base:		<u>Plumbing:</u>	
Resilient base	096500	Drinking water cooler	224000
Optional: Porcelain tile base	093000		
Ceiling:		<u>HVAC:</u>	
Suspended, acoustical	095113	Supply/return air system	Div. 23
		Independent temperature control	230923
Walls:		<u>Electrical:</u>	
Painted concrete masonry units	<b>042000/099100</b>	Fluorescent lighting	265100
Acoustical wall treatment	098000	Illumination level: See Table 8600-4	
and diffusers		Multilevel switching	262726
		8 duplex receptacles	262726
		Double duplex receptacles adjacent to	
		each data and video port	262726
		Means of egress lighting per code	265100
		Emergency lighting	265100
		Telecommunications Grounding	270526/260526
		<u>Communications:</u>	
		T1 2 video ports	271533/271543
		T2 2 data ports	271513
		Student dining/cafeteria sound system <sup>2</sup>	275122
		Clock	275313
		Central sound system	275123
		T3 Overhead projector	274119
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
		<u>Miscellaneous:</u>	
		Windows with integral blinds or	081113/
		windows with shading devices	088000
		(optional)	
<u>LOOSE FURNISHINGS:</u>			
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			
<b>Recycling bins</b>			
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.			

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: N/A  
 SIZE: x = proscenium opening  
 see diagram for dimensions  
 ANCILLARY SPACES: Student Dining  
 E-SD-1

PROGRAM ACTIVITIES:

- Space for speakers, presentations, and performances

SPATIAL RELATIONSHIPS:

- Adjacent to student dining
- Near staff dining room
- Adjacent to gymnasium

ENVIRONMENTAL CONSIDERATIONS:

- Uniform lighting
- Resilient floor covering
- Area should be raised slightly above student dining floor
- Provide handicapped accessibility (ADA)

NOTES:

**STAGE  
E-SD-2**

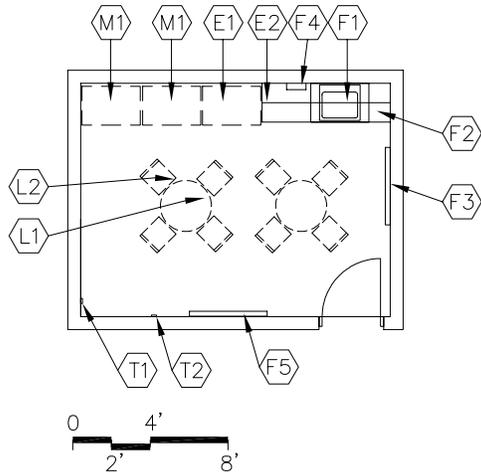
CHAPTER 4: ELEMENTARY SCHOOL

<u>FINISHES</u> <sup>1</sup> :	Spec. Ref.#	<u>FEATURES</u> <sup>1</sup> :	Spec. Ref.#
<u>Flooring:</u>		<u>Fixed Items:</u>	
Vinyl composition tile, VET, sheet vinyl, linoleum, rubber stair accessories	096500 <b>096516</b>	F1 Projection screen	116143
		F2 Curtain	116143
		F3 Front curtain and valance	116143
		F4 Operable partition (optional)	102226
		F5 Pipe handrail	055000
<u>Base:</u>		<u>Fire Suppression:</u>	
Resilient base	096500	Fire suppression system	211000
<u>Ceiling:</u>		<u>Plumbing:</u>	
Suspended, acoustical	095113	N/A	
<u>Walls:</u>		<u>HVAC:</u>	
Painted concrete masonry units	<b>042000/099100</b>	Supply/return air system	Div. 23
		Temperature control with with student dining area	230923
<u>LOOSE FURNISHINGS:</u>		<u>Electrical:</u>	
L1 Podium		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
		Emergency lighting	265100
		Means of egress lighting per code	265100
		Telecommunications Grounding	270526/260526
		<u>Communications:</u>	
		T1 2 data ports (1 on each side of proscenium opening)	271513
		T2 2 video ports (1 on each side of proscenium opening)	271533/271543
		Student dining/cafeteria sound system <sup>2</sup>	275122
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
		<u>Miscellaneous:</u>	
		N/A	

NOTES:

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

200 SF



PROGRAM ACTIVITIES:

- Space for staff dining

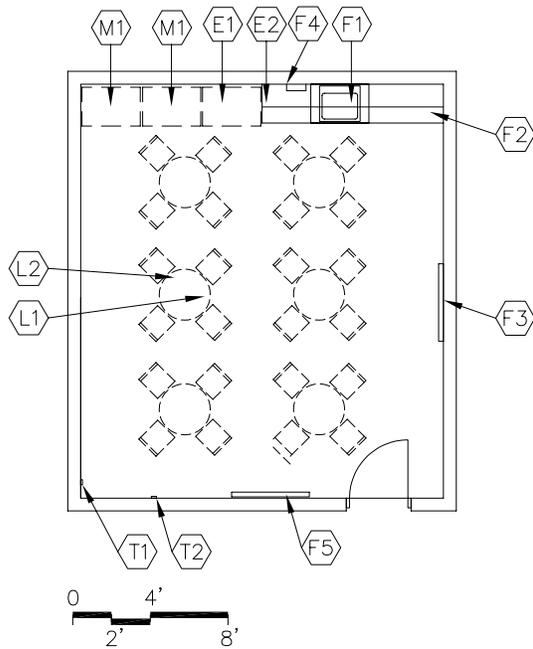
SPATIAL RELATIONSHIPS:

- Near student dining
- Near food services

ENVIRONMENTAL CONSIDERATIONS:

- Uniform lighting
- Environmental sound control -  
wall minimum STC **60**  
ceiling minimum CAC 35, NRC **0.70**

300 SF



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

NOTES:

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

**STAFF DINING**  
**E-SD-3**

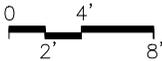
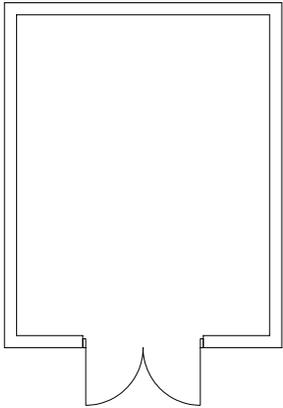
CHAPTER 4: ELEMENTARY SCHOOL

<u>FINISHES<sup>1</sup>:</u>	Spec. Ref.#	<u>FEATURES<sup>1</sup>:</u>	Spec. Ref.#
<u>Flooring:</u>		<u>Fixed Items:</u>	
VET, linoleum, rubber, sheet vinyl,	096500	F1 3' sink base cabinet	123550
porcelain tile, terrazzo tile,	<b>096516</b>	with wall cabinets above	
or VCTT	093000	F2 About 8' of base and wall cabinets	123550
	096616	F3 4' of tack board	101100
<u>Base:</u>		F4 Towel dispenser	102813
Resilient base	096500	F5 4'-6' marker board (optional)	101100
Optional: Porcelain tile base	093000		
<u>Ceiling:</u>		<u>Fire Suppression:</u>	
Suspended, acoustical	095113	Fire suppression system	211000
<u>Walls:</u>		<u>Plumbing:</u>	
Painted concrete masonry units	<b>042000/099100</b>	Sink	224000
		Plumbing connections	224000/221116/221119
<u>LOOSE FURNISHINGS:</u>		<u>HVAC:</u>	
L1 Tables		Supply/return air system	Div. 23
L2 Chairs		Independent temperature control	230923
Waste receptacle			
<u>EQUIPMENT:</u>		<u>Electrical:</u>	
E1 Refrigerator		Single level switching	262726
E2 Microwave		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
		<u>Communications:</u>	
		T1 1 video port	271533/271543
		T2 1 voice port and phone	271513/273113
		Clock	275313
		Central sound system	275123
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
		<u>Miscellaneous:</u>	
		The following items are to be funded by the school district:	
		M1 Vending machines	

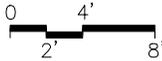
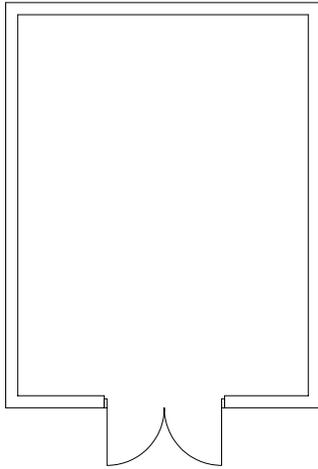
NOTES:

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

200 SF



300 SF



CAPACITY: N/A  
 SIZE: 200 - 300 SF  
 ANCILLARY SPACES: Student Dining  
 E-SD-1

**PROGRAM ACTIVITIES:**

- Storage for tables and chairs

**SPATIAL RELATIONSHIPS:**

- Adjacent to student dining
- Near food services

**ENVIRONMENTAL CONSIDERATIONS:**

- Uniform lighting
- Resilient floor covering

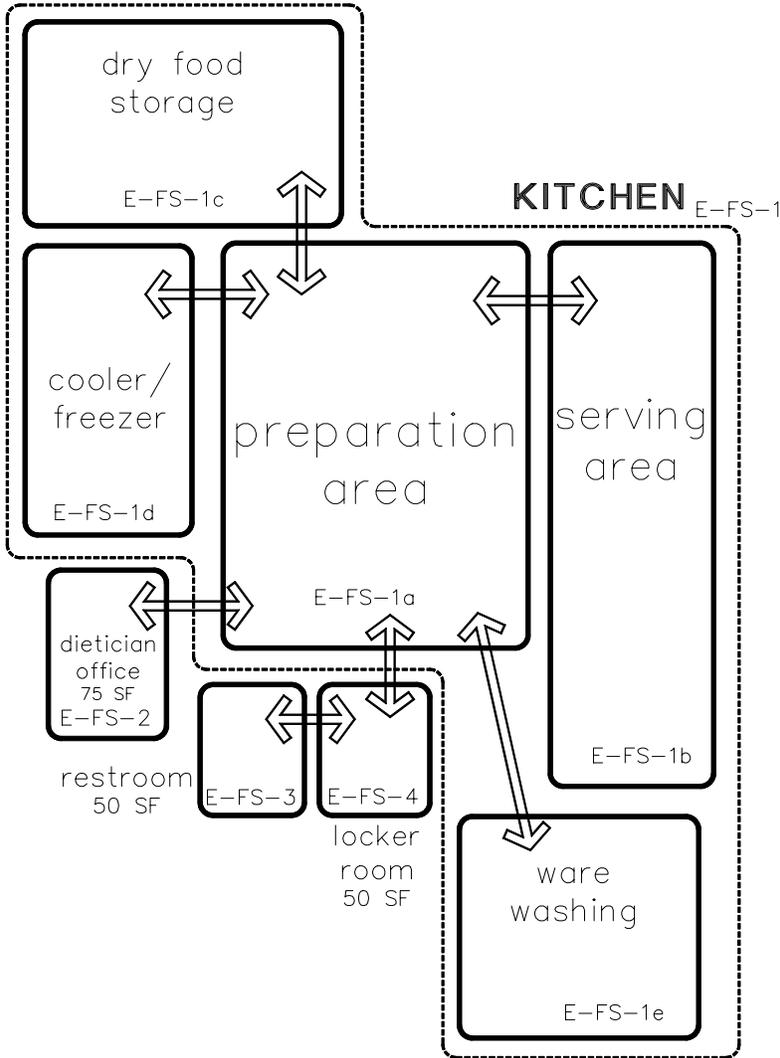
NOTES:

**TABLE STORAGE  
E-SD-4**

<u>FINISHES<sup>1</sup>:</u>	Spec. <u>Ref.#</u>	<u>FEATURES<sup>1</sup>:</u>	Spec. <u>Ref.#</u>
Flooring:		<u>Fixed Items:</u>	
Sealed concrete	033000	N/A	
Base:		<u>Fire Suppression:</u>	
<b>No base</b>		Fire suppression system	211000
Ceiling:		<u>Plumbing:</u>	
<b>Exposed structure</b>		N/A	
Option: Rated gypsum wallboard	<b>092116</b>	<u>HVAC:</u>	
Walls:		Exhaust air system	Div. 23
<b>Unpainted</b> concrete masonry units	<b>042000</b>	Supplemental heat as required	Div. 23
<u>LOOSE FURNISHINGS:</u>		<u>Electrical:</u>	
N/A		Single level switching	262726
		Fluorescent lighting	265100
		Illumination level: See Table 8600-4	
		1 duplex receptacle	262726
		<u>Communications:</u>	
		N/A	
		<u>Electronic Safety and Security:</u>	
		N/A	
		<u>Miscellaneous:</u>	
		N/A	

NOTES:

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



**NOTES:**

This is an example of how the food service spaces in an elementary 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:

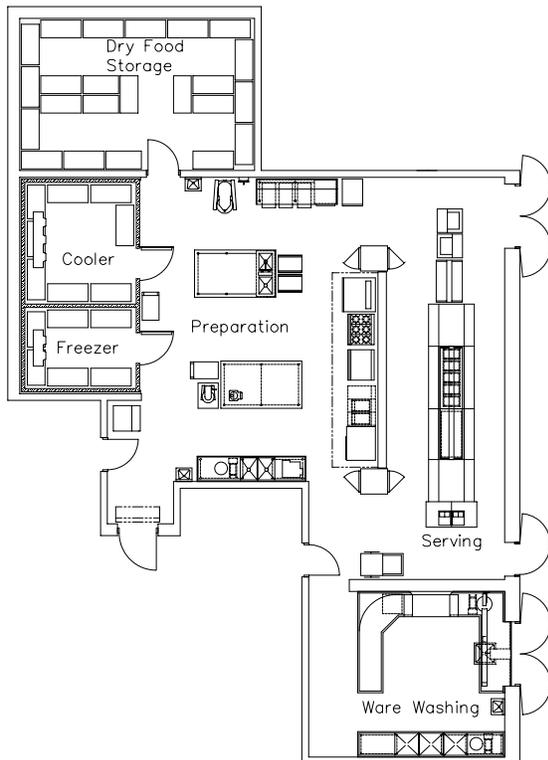
- E-FS-0      Warming Kitchen
- E-FS-1      Kitchen
- E-FS-1a     Preparation Area
- E-FS-1b     Serving Area
- E-FS-1c     Dry Food Storage
- E-FS-1d     Cooler/Freezer
- E-FS-1e     Ware Washing
- E-FS-2      Dietician Office
- E-FS-3      Restroom
- E-FS-4      Locker Room

**KITCHEN  
E-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 E-SD-1  
Loading/Receiving Area E-BS-9

**PROGRAM ACTIVITIES:**

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

**SPATIAL RELATIONSHIPS:**

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

**ENVIRONMENTAL CONSIDERATIONS:**

- Compliance with State Board of Health requirements

**MISCELLANEOUS:**

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

**NOTES:**

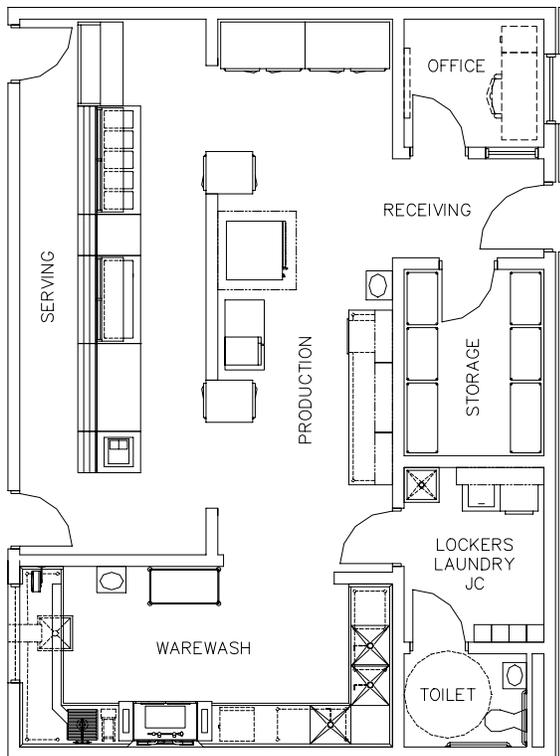
This kitchen layout is to be used only for a central kitchen operation.

This space consists of various areas:

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

Additional areas to be added:

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



**PROGRAM ACTIVITIES:**

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

**SPATIAL RELATIONSHIPS:**

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

**ENVIRONMENTAL CONSIDERATIONS:**

- Compliance with State Board of Health requirements

**MISCELLANEOUS:**

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

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

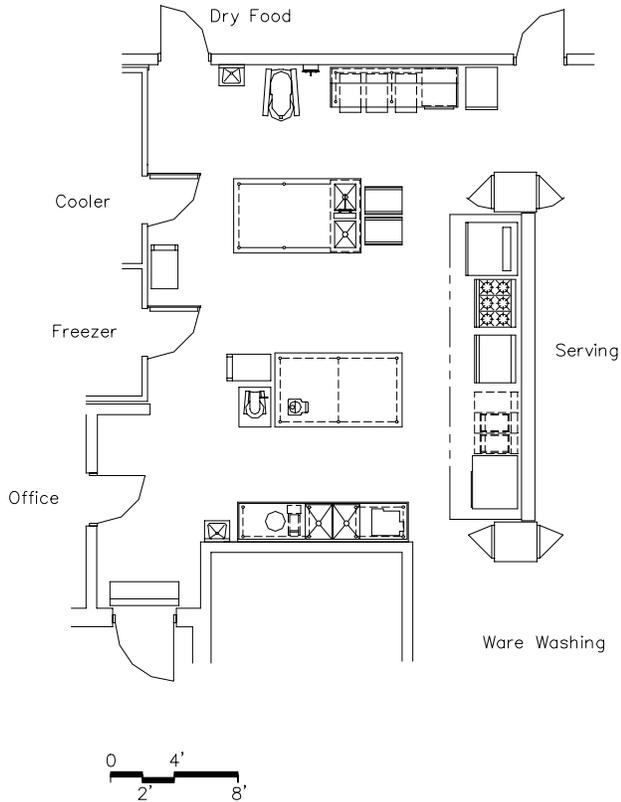
NOTES:

**WARMING KITCHEN  
E-FS-0**

<u>FINISHES<sup>1</sup>:</u>	Spec. Ref.#	<u>FEATURES<sup>1</sup>:</u>	Spec. Ref.#
Flooring:		<u>Fixed Items:</u>	
Quarry tile	093000	Food service equipment	114000
Base:		<u>Fire Suppression:</u>	
Quarry tile base	093000	Fire suppression system	211000
Ceiling:		<u>Plumbing:</u>	
Cleanable, suspended, acoustical	095113	Connections to food service eqpt.	224000
Walls:		Plumbing connections	224000
Epoxy-painted concrete masonry units	<b>042000</b> /099100	Gas connections	226313
Option: Ceramic wall tile	093000	Hand washing lavatory	224000
or latex paint	099100	<u>HVAC:</u>	
<u>LOOSE FURNISHINGS:</u>		Supply/return air system	Div. 23
N/A		Independent temperature control	230923
		Kitchen canopy exhaust system	Div. 23
		<u>Electrical:</u>	
		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
		<u>Communications:</u>	
		1 voice port and phone	271513/273113
		1 data port at cash register(s)	271513
		Clock	275313
		Central sound system	275123
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
		<u>Miscellaneous:</u>	
		N/A	

NOTES:

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



**PROGRAM ACTIVITIES:**

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

**SPATIAL RELATIONSHIPS:**

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

**ENVIRONMENTAL CONSIDERATIONS:**

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

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

**NOTES:**

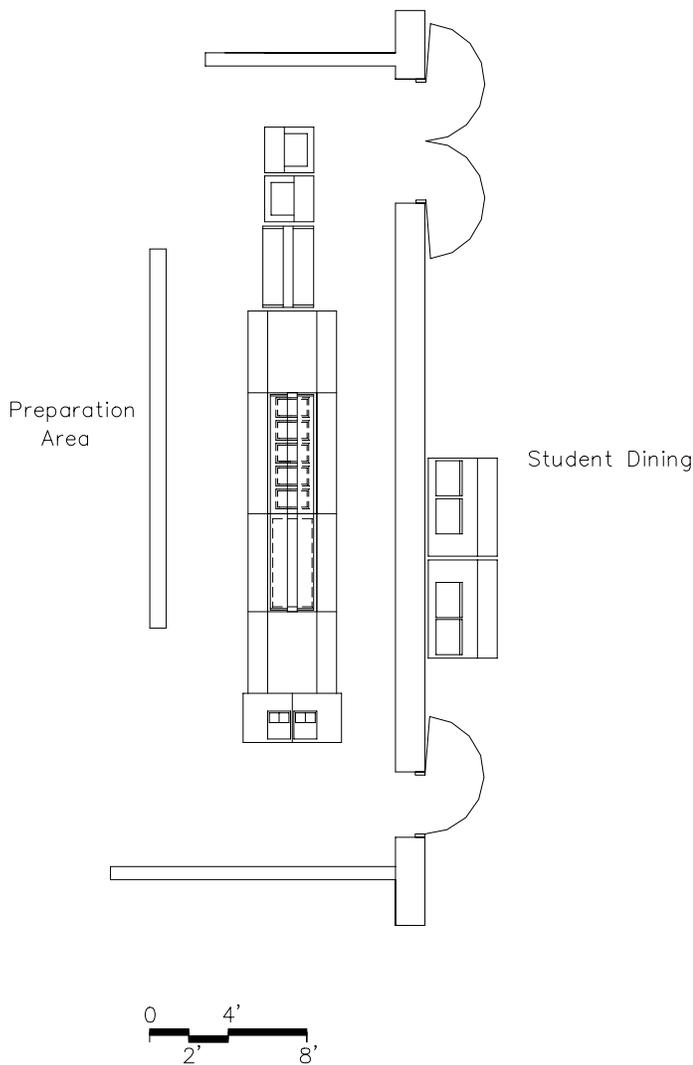
1. This is an example of a preparation area. Food service equipment will vary from school district to school district.

**KITCHEN - Preparation Area  
E-FS-1a**

<u>FINISHES<sup>1</sup>:</u>	Spec. Ref.#	<u>FEATURES<sup>1</sup>:</u>	Spec. Ref.#
Flooring:		<u>Fixed Items:</u>	
Quarry tile	093000	Food service equipment	114000
Base:		<u>Fire Suppression:</u>	
Quarry tile base	093000	Fire suppression system	211000
Ceiling:		<u>Plumbing:</u>	
Cleanable, suspended, acoustical	095113	Connections to food service equipment	224000
Walls:		Plumbing connections	224000
Epoxy-painted concrete masonry units	<b>042000</b> /099100	Gas connections	226313
Option: Ceramic wall tile	093000	Hand washing lavatory	224000
or latex paint	099100	<u>HVAC:</u>	
<u>LOOSE FURNISHINGS:</u>		Supply/return air system	Div. 23
N/A		Independent temperature control	230923
		Kitchen canopy exhaust system	Div. 23
		<u>Electrical:</u>	
		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
		<u>Communications:</u>	
		1 voice port and phone	271513/273113
		Clock	275313
		Central sound system	275123
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
		<u>Miscellaneous:</u>	
		N/A	

NOTES:

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



**PROGRAM ACTIVITIES:**

- Space for serving of food

**SPATIAL RELATIONSHIPS:**

- Adjacent to student dining
- Adjacent to preparation area

**ENVIRONMENTAL CONSIDERATIONS:**

- Uniform lighting
- Cleanable building services

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

**NOTES:**

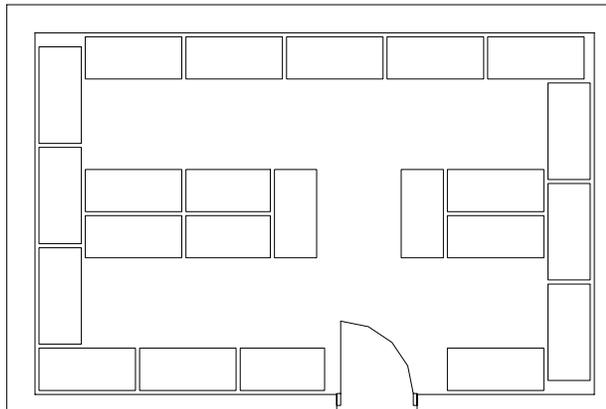
1. This is an example of a serving area. Food service equipment will vary from school district to school district.

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

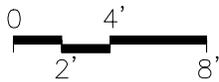
<u>FINISHES<sup>1</sup>:</u>	Spec. <u>Ref.#</u>	<u>FEATURES<sup>1</sup>:</u>	Spec. <u>Ref.#</u>
<u>Flooring:</u>		<u>Fixed Items:</u>	
Quarry tile	093000	Food service equipment	114000
Optional: porcelain tile	093000	<u>Fire Suppression:</u>	
<u>Base:</u>		Fire suppression system	211000
Quarry tile base	093000	<u>Plumbing:</u>	
Optional: porcelain tile base	093000	Connections to food service equipment	224000
<u>Ceiling:</u>		<u>HVAC:</u>	
Cleanable, suspended, acoustical	095113	Supply/return air system	Div. 23
<u>Walls:</u>		<u>Electrical:</u>	
Epoxy-painted concrete masonry units	<b>042000</b> /099100	Dual level switching	262726
Option: Ceramic wall tile	093000	Fluorescent lighting	265100
or latex paint	099100	Illumination level: See Table 8600-4	
<u>LOOSE FURNISHINGS:</u>		4 duplex receptacles	262726
N/A		Connections to food service equipment	262726
		Emergency lighting	265100
		Means of egress lighting per code	265100
		Duplex receptacle at each cash register	262726
		<u>Communications:</u>	
		Data port(s) at cash register(s)	271513
		Clock	275313
		Central sound system	275123
		1 Voice port and phone	271513/273113
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
		<u>Miscellaneous:</u>	
		N/A	

NOTES:

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



Preparation Area



**PROGRAM ACTIVITIES:**

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

**SPATIAL RELATIONSHIPS:**

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

**ENVIRONMENTAL CONSIDERATIONS:**

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

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

**NOTES:**

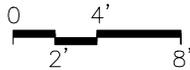
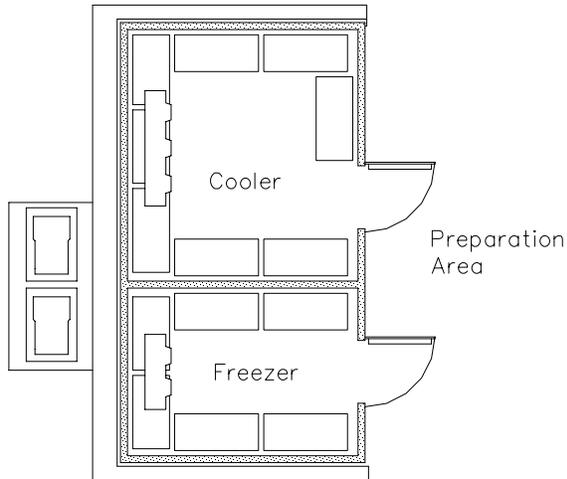
1. This is an example of a dry food storage area. Food service equipment will vary from school district to school district.

**KITCHEN - Dry Food Storage  
E-FS-1c**

<u>FINISHES<sup>1</sup>:</u>	Spec. Ref.#	<u>FEATURES<sup>1</sup>:</u>	Spec. Ref.#
<u>Flooring:</u>			
Linoleum, VET, or sheet vinyl	096500	<u>Fixed Items:</u>	
Option: Quarry tile	093000	Food service equipment	114000
	<b>096516</b>		
<u>Base:</u>			
Resilient base	096500	<u>Fire Suppression:</u>	
Option: Quarry tile	093000	Fire suppression system	211000
<u>Ceiling:</u>			
Cleanable, suspended, acoustical	095113	<u>Plumbing:</u>	
		N/A	
<u>Walls:</u>			
Epoxy-painted concrete masonry units	<b>042000/099100</b>	<u>HVAC:</u>	
Option: Ceramic wall tile	093000	Exhaust air system	Div. 23
or latex paint	099100	Supply/return air system	Div. 23
<u>LOOSE FURNISHINGS:</u>			
N/A		<u>Electrical:</u>	
		Single level switching	262726
		Fluorescent lighting	265100
		Illumination level: See Table 8600-4	
		1 duplex receptacle	262726
		<u>Communications:</u>	
		N/A	
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
		<u>Miscellaneous:</u>	
		N/A	

**NOTES:**

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



**PROGRAM ACTIVITIES:**

- Space for refrigerated storage of perishable products

**SPATIAL RELATIONSHIPS:**

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

**ENVIRONMENTAL CONSIDERATIONS:**

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

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

**NOTES:**

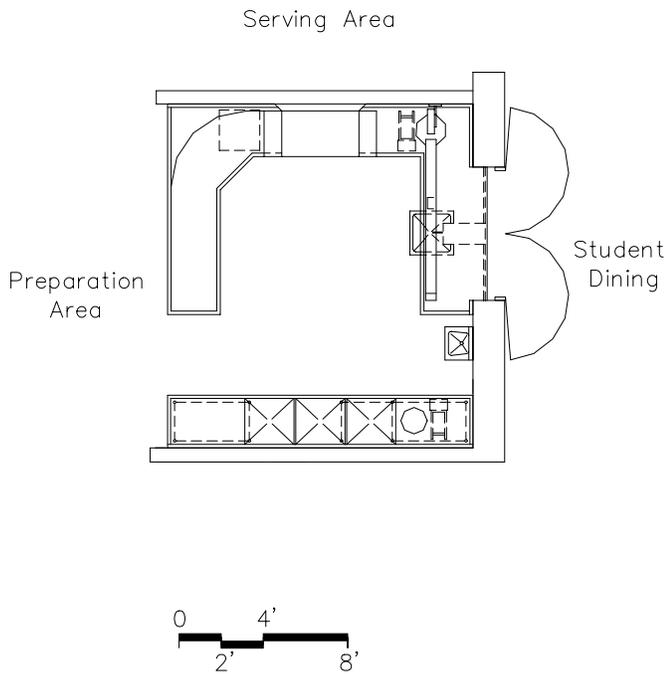
1. This is an example of a cooler/freezer. Food service equipment will vary from school district to school district.

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

	Spec. Ref.#		Spec. Ref.#
<u>FINISHES<sup>1</sup>:</u>		<u>FEATURES<sup>1</sup>:</u>	
Flooring:		<u>Fixed Items:</u>	
Quarry tile	<b>093000</b>	Food service equipment	<b>114000</b>
Base:		<u>Fire Suppression:</u>	
Quarry tile base	<b>093000</b>	Fire <i>suppression</i> system	<b>211000</b>
Ceiling:		<u>Plumbing:</u>	
Manufactured insulated panel	<b>114000</b>	N/A	
Walls:		<u>HVAC:</u>	
Manufactured insulated panel	<b>114000</b>	Exhaust air system for compressors Div. <b>23</b>	
<u>LOOSE FURNISHINGS:</u>		<u>Electrical:</u>	
N/A		Single level switching	<b>262726</b>
		Incandescent lighting	<b>265100</b>
		Illumination level: See Table <b>8600-4</b>	
		Electrical connections to freezer/cooler refrigeration equipment	<b>262726</b>
		<u>Communications:</u>	
		N/A	
		<u>Electronic Safety and Security:</u>	
		N/A	
		<u>Miscellaneous:</u>	
		N/A	

NOTES:

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



**PROGRAM ACTIVITIES:**

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

**SPATIAL RELATIONSHIPS:**

- Adjacent to student dining

**ENVIRONMENTAL CONSIDERATIONS:**

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

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

**NOTES:**

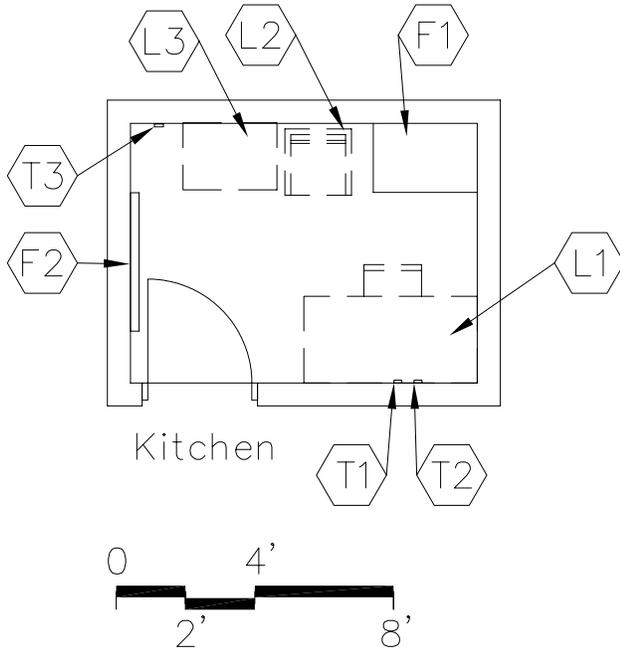
1. This is an example of a ware washing area. Food service equipment will vary from school district to school district.

**KITCHEN - Ware Washing  
E-FS-1e**

<u>FINISHES<sup>1</sup>:</u>	Spec. Ref.#	<u>FEATURES<sup>1</sup>:</u>	Spec. Ref.#
Flooring:		<u>Fixed Items:</u>	
Quarry tile	093000	Food service equipment	114000
Base:		<u>Fire Suppression:</u>	
Quarry tile base	093000	Fire suppression system	211000
Ceiling:		<u>Plumbing:</u>	
Cleanable, suspended, acoustical	095113	Lavatory	224000
Walls:		Connections to food service equipment	224000
Epoxy-painted concrete masonry units	<b>042000</b> /099100	<u>HVAC:</u>	
Option: Ceramic wall tile	093000	Supply/return air system	Div. 23
or latex paint	099100	Independent temperature control	230923
		Exhaust hood system	Div. 23
<u>LOOSE FURNISHINGS:</u>		<u>Electrical:</u>	
N/A		Dual level switching	262726
		Fluorescent lighting	265100
		Illumination level: See Table 8600-4	
		1 duplex receptacle	262726
		Connections to food service equipment	262726
		<u>Communications:</u>	
		Central sound system	275123
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
		<u>Miscellaneous:</u>	
		N/A	

**NOTES:**

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



PROGRAM ACTIVITIES:

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

SPATIAL RELATIONSHIPS:

- Adjacent to kitchen

ENVIRONMENTAL CONSIDERATIONS:

- 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  
 E-FS-1

NOTES:

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

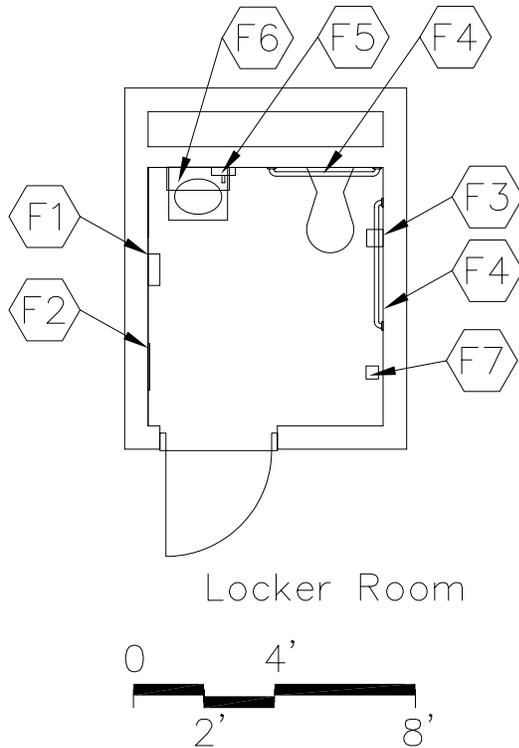
**DIETICIAN'S OFFICE  
E-FS-2**

CHAPTER 4: ELEMENTARY SCHOOL

<u>FINISHES<sup>1</sup>:</u>	Spec. Ref.#	<u>FEATURES<sup>1</sup>:</u>	Spec. Ref.#
<u>Flooring:</u>		<u>Fixed Items:</u>	
Linoleum, VET, or sheet vinyl	096500	F1 2' of tall wardrobe (optional)	123550
Option: Quarry tile	<b>096516</b> 093000	F2 4' of tack board	101100
<u>Base:</u>		<u>Fire Suppression:</u>	
Resilient base	096500	Fire suppression system	211000
Option: Quarry tile	093000	<u>Plumbing:</u>	
<u>Ceiling:</u>		N/A	
Suspended, acoustical	095113	<u>HVAC:</u>	
<u>Walls:</u>		Supply/return air system	Div. 23
Painted concrete masonry units	<b>042000/099100</b>	Independent temperature control (coupled with similarly loaded adjacent spaces)	230923
<u>LOOSE FURNISHINGS:</u>		<u>Electrical:</u>	
L1 Desk and chair		Single level switching	262726
L2 Visitor chair		Fluorescent lighting	265100
L3 File cabinet		Illumination level: See Table 8600-4	
Wastebasket		4 duplex receptacles	262726
		Double duplex receptacle adjacent to data and video port	262726
		<u>Communications:</u>	
		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
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
		<u>Miscellaneous:</u>	
		Interior window (optional)	081113 /088000

NOTES:

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



Locker Room

**PROGRAM ACTIVITIES:**

- Personal and health needs for food service staff

**SPATIAL RELATIONSHIPS:**

- Adjacent to locker room

**ENVIRONMENTAL CONSIDERATIONS:**

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

CAPACITY: 1 person  
 SIZE: 50 SF  
 ANCILLARY SPACES: Locker Room  
 E-FS-4

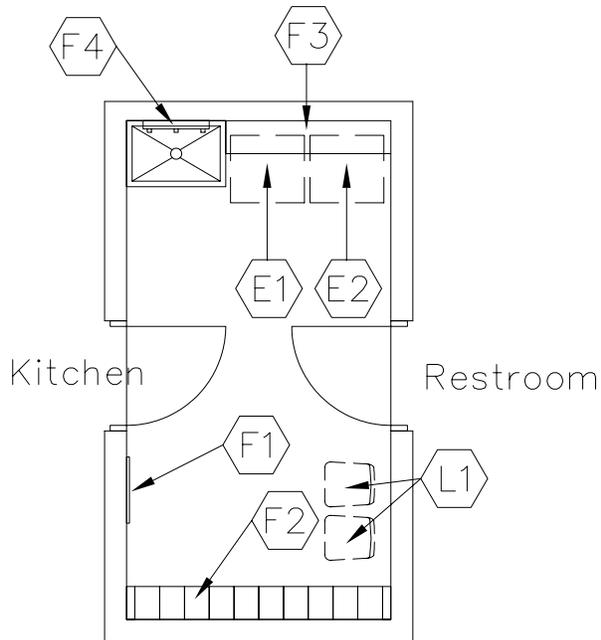
NOTES:

**RESTROOM  
E-FS-3**

<u>FINISHES<sup>1</sup>:</u>	Spec. Ref.#	<u>FEATURES<sup>1</sup>:</u>	Spec. Ref.#
<u>Flooring:</u>		<u>Fixed Items:</u>	
Linoleum, VET, sheet vinyl, or rubber	<b>096516</b> 096500	F1 Towel dispenser	102813
Optional: quarry tile, or resinous flooring	093000 096723	F2 24" x 60" mirror	102813
		F3 Toilet tissue holder	102813
		F4 36" and 42" grab bar	102813
		F5 Soap dispenser	102813
<u>Base:</u>		F6 Mirror with shelf above sink(optional)	102813
Resilient base	096500	F7 Coat hook	102813
Optional: quarry tile, resinous flooring, or integral vinyl cove base	093000 096723		
<u>Ceiling:</u>		<u>Fire Suppression:</u>	
Suspended, acoustical	095113	Fire suppression system	211000
<u>Walls:</u>		<u>Plumbing:</u>	
Painted concrete masonry units	<b>042000/099100</b>	Wall-mounted water closet	224000
		Wall-mounted lavatory	224000
		Plumbing connections	224000/221116/221119
<u>LOOSE FURNISHINGS:</u>		<u>HVAC:</u>	
Wastebasket		Exhaust air system	Div. 23
		Supplemental heat as required	Div. 23
		<u>Electrical:</u>	
		Single level switching	262726
		Fluorescent lighting	265100
		Illumination level: See Table 8600-4	
		1 duplex receptacle	262726
		<u>Communications:</u>	
		Central sound system	275123
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
		<u>Miscellaneous:</u>	
		N/A	

NOTES:

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



**PROGRAM ACTIVITIES:**

- 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**

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

**NOTES:**

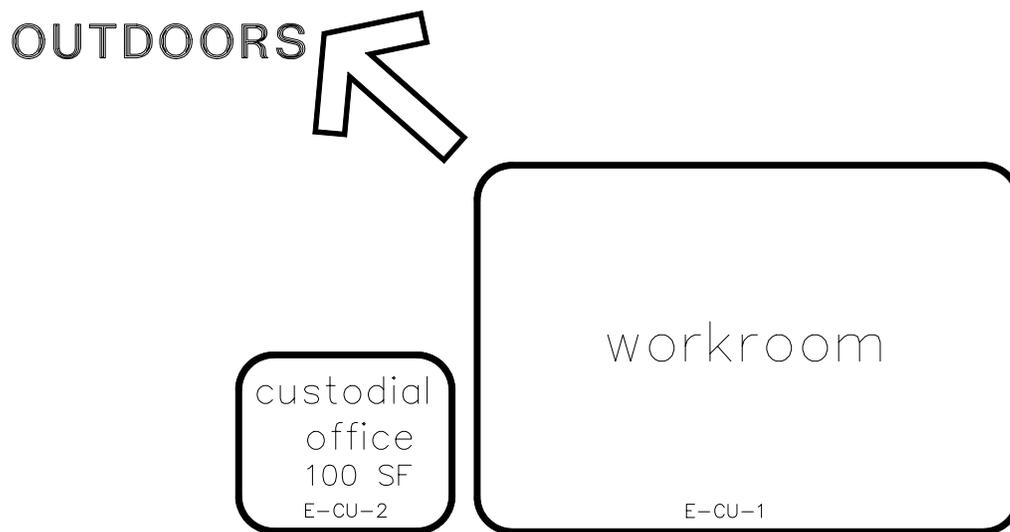
1. Loose furnishings shown represent one of many possible arrangements.

**LOCKER ROOM  
E-FS-4**

<u>FINISHES<sup>1</sup>:</u>	Spec. Ref.#	<u>FEATURES<sup>1</sup>:</u>	Spec. Ref.#
<u>Flooring:</u>		<u>Fixed Items:</u>	
Sheet vinyl, rubber, rubber tile, or resinous flooring	096500 096723	F1 24" x 60" mirror (optional)	102813 105113
		F2 Lockers 12" x 12" x 60"	
		F3 6' of wall cabinets or shelf (optional)	123550
		F4 Mop holder	102813
<u>Base:</u>		<u>Fire Suppression:</u>	
Resilient base, resinous flooring, or integral vinyl cove base	096500 096723	Fire suppression system	211000
<u>Ceiling:</u>		<u>Plumbing:</u>	
Suspended, acoustical with high-impact, hold-down clips	095113	Plumbing connections	224000/221116/221119
Option: exposed, painted pre-cast units	099100	Floor service sink	224000
		Washer connection	224000
<u>Walls:</u>		<u>HVAC:</u>	
Painted concrete masonry units	<b>042000/099100</b>	Exhaust air system	Div. 23
		Supplemental heat as required	Div. 23
		Dryer vent system	Div. 23
<u>LOOSE FURNISHINGS:</u>		<u>Electrical:</u>	
L1 Chairs		Single level switching	262726
Wastebasket		Fluorescent lighting	265100
		Illumination level: See Table 8600-4	
		1 duplex receptacle	262726
		Connections for washer and dryer	262726
<u>EQUIPMENT:</u>		<u>Communications:</u>	
E1 Washer		Central sound system	275123
E2 Dryer		Clock	275313
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
		<u>Miscellaneous:</u>	
		Provide storage cabinet for supplies if required by governing agency.	

NOTES:

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



## NOTES:

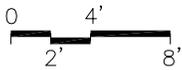
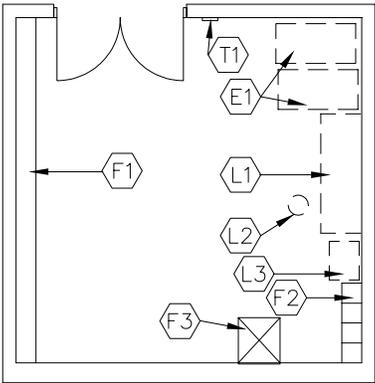
This is an example of how the custodial spaces in an elementary school could be arranged. This is meant only to demonstrate the relationships between various spaces of this area.

Following are the Custodial space plates:

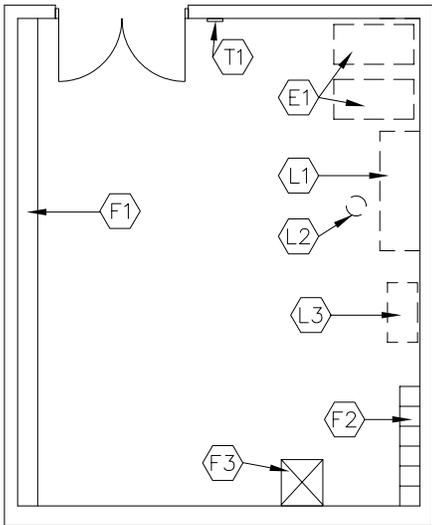
E-CU-1	Workroom
E-CU-2	Custodial Office

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200 SF



400 SF



CAPACITY:  
SIZE:

N/A  
200 - 400 SF

**PROGRAM ACTIVITIES:**

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

**SPATIAL RELATIONSHIPS:**

- Direct access to outside
- Near central storage area
- Near custodial office

**ENVIRONMENTAL CONSIDERATIONS:**

- Uniform lighting

**NOTES:**

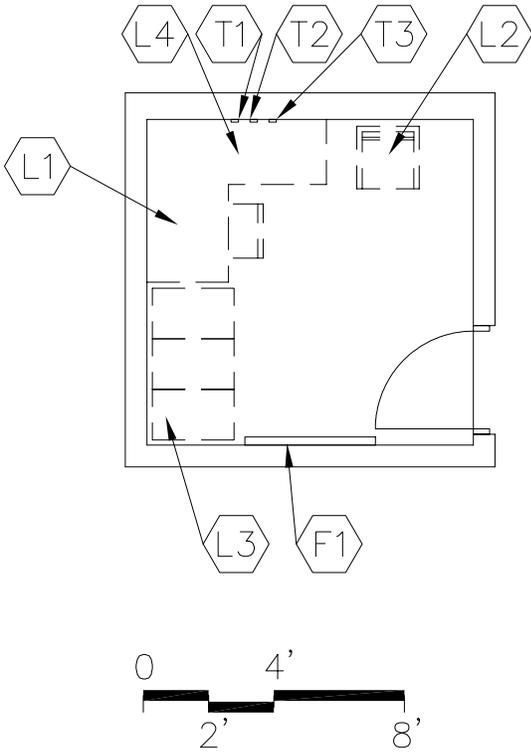
1. Loose furnishings shown represent one of many possible arrangements.

**WORKROOM  
E-CU-1**

<u>FINISHES<sup>1</sup>:</u>	Spec. <u>Ref.#</u>	<u>FEATURES<sup>1</sup>:</u>	Spec. <u>Ref.#</u>
Flooring:		<u>Fixed Items<sup>2</sup>:</u>	
Sealed concrete	033000	F1 10' - 24' of open shelving, depth may vary (fixed or loose)	123550
Base:		F2 4 - 6 lockers	105113
Resilient base	096500	F3 Mop holder	102813
Ceiling:		<u>Fire Suppression:</u>	
Suspended, acoustical	095113	Fire suppression system	211000
Walls:		<u>Plumbing:</u>	
Painted concrete masonry units	<b>042000/099100</b>	Floor service sink	224000
<u>LOOSE FURNISHINGS:</u>		<u>HVAC:</u>	
L1 Workbench		Supply/return air system	Div. 23
L2 Stool		Independent temperature control	230923
L3 Tool cabinet		<u>Electrical:</u>	
Waste receptacles		Fluorescent lighting	265100
		Illumination level: See Table 8600-4	
		Single level switching	262726
		4 duplex receptacles (minimum)	262726
		Electrical receptacles for custodial equipment	262726
<u>EQUIPMENT:</u>		<u>Communications:</u>	
E1 Recycling bins		T1 1 voice port and phone	271513/273113
		Central sound system	275123
		Clock	275313
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
		<u>Miscellaneous:</u>	
		N/A	

**NOTES:**

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



PROGRAM ACTIVITIES:

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

SPATIAL RELATIONSHIPS:

- Near custodial workroom

ENVIRONMENTAL CONSIDERATIONS:

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

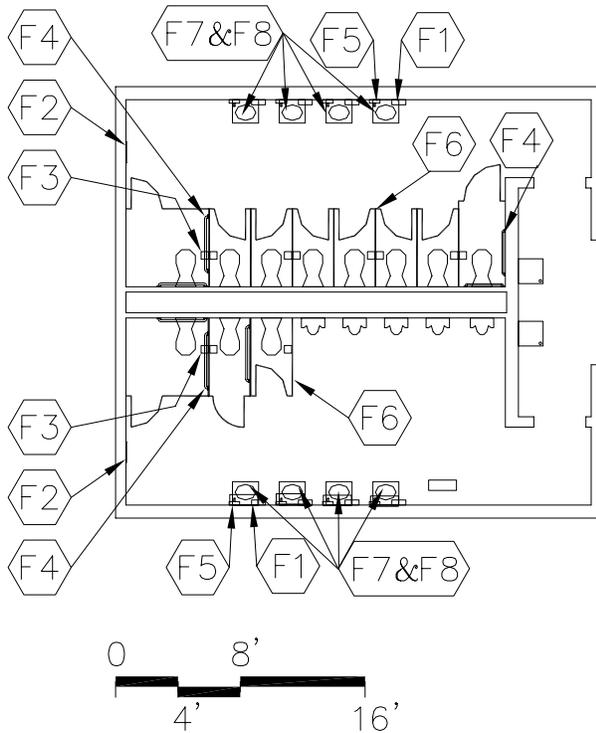
CAPACITY: N/A  
SIZE: 100 SF

NOTES:

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



**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:**

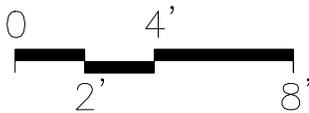
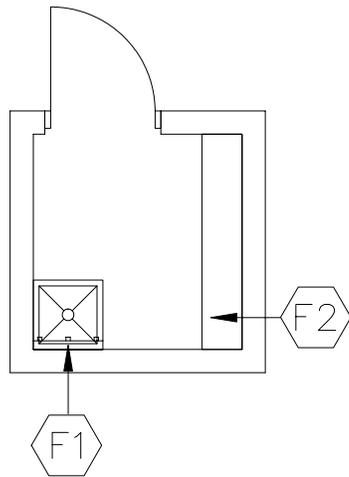
1. Where individual restrooms are provided in lieu of large group restrooms, refer to E-BS-10.

**LARGE GROUP RESTROOMS  
E-BS-1**

<u>FINISHES<sup>1</sup>:</u>	Spec. Ref.#	<u>FEATURES<sup>1</sup>:</u>	Spec. Ref.#
<u>Flooring:</u>		<u>Fixed Items:</u>	
Ceramic mosaic tile	093000	F1 Towel dispensers	102813
Optional: porcelain tile, terrazzo tile, rubber, or resinous flooring	096616 096723	F2 24" x 60" mirror	102813
		F3 Toilet tissue holders	102813
		F4 36" and 42" grab bar	102813
		F5 Soap dispensers	102813
<u>Base:</u>		F6 Toilet partitions	102113
Ceramic mosaic tile base	093000	F7 16" x 24" mirrors with shelf (optional)	102813
Optional: structural glazed tile, porcelain tile base, or resinous flooring	042000 096723	F8 Shelves (optional)	102813
		<u>Fire Suppression:</u>	
		Fire suppression system	211000
<u>Ceiling:</u>		<u>Plumbing:</u>	
Suspended, acoustical	095113	Wall-mounted water closets	224000
Optional: Abuse resistant gypsum wallboard	<b>092116</b>	Wall-mounted urinals	224000
		Wall-mounted lavatories or wash fountains	224000
<u>Walls:</u>		Wall hydrants	221119
Painted concrete masonry units	<b>042000/099100</b>	Plumbing connections	224000/221116/221119
		Drinking water coolers	224000
<u>LOOSE FURNISHINGS:</u>		<u>HVAC:</u>	
Waste Receptacles		Exhaust air system	Div. 23
		Supplemental heat as required	Div. 23
		<u>Electrical:</u>	
		Single level switching	262726
		Fluorescent lighting	265100
		Illumination level: See Table 8600-4	
		1 duplex receptacle	262726
		Emergency lighting	265100
		<u>Communications:</u>	
		Central sound system	275123
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
		<u>Miscellaneous:</u>	
		N/A	

NOTES:

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



**PROGRAM ACTIVITIES:**

- Space for storage of custodial supplies throughout the building

**SPATIAL RELATIONSHIPS:**

- Near large group restrooms

**ENVIRONMENTAL CONSIDERATIONS:**

- Uniform lighting

CAPACITY:  
SIZE:

N/A  
50 SF

NOTES:

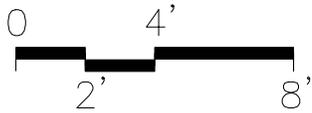
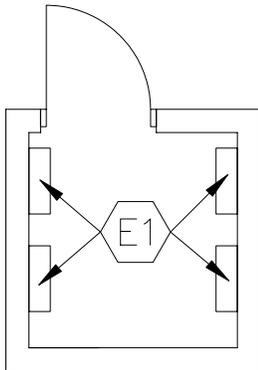
**CUSTODIAL CLOSET  
E-BS-2**

<u>FINISHES<sup>1</sup>:</u>	Spec. Ref.#	<u>FEATURES<sup>1</sup>:</u>	Spec. Ref.#
<u>Flooring:</u>		<u>Fixed Items:</u>	
Sealed concrete or	033000	F1 Mop holder	102813
Vinyl composition tile (optional)	096500	F2 Fixed or loose shelving (optional)	123550
<u>Base:</u>		<u>Fire Suppression:</u>	
Resilient base	096500	Fire suppression system	211000
<u>Ceiling:</u>		<u>Plumbing:</u>	
Cleanable, suspended, acoustical	095113	Service sink or floor drain sink	224000
		Plumbing connections	224000/221116/221119
<u>Walls:</u>		<u>HVAC:</u>	
Painted concrete masonry units	<b>042000</b> /099100	Exhaust air system	Div. 23
<u>LOOSE FURNISHINGS</u>		<u>Electrical:</u>	
N/A		Single level switching	262726
		Fluorescent lighting	265100
		Illumination level: See Table 8600-4	
		1 duplex receptacle	262726
		<u>Communications:</u>	
		N/A	
		<u>Electronic Safety and Security:</u>	
		N/A	
		<u>Miscellaneous:</u>	
		N/A	

NOTES:

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

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



CAPACITY:  
SIZE:

N/A  
50 SF

**PROGRAM ACTIVITIES:**

- Space for electrical wiring and panels

**SPATIAL RELATIONSHIPS:**

N/A

**ENVIRONMENTAL CONSIDERATIONS:**

- Uniform lighting

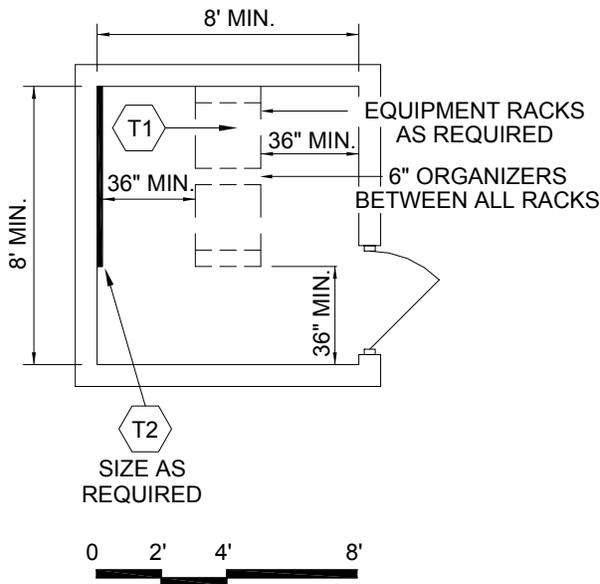
NOTES:

**ELECTRICAL CLOSET  
E-BS-3**

<u>FINISHES<sup>1</sup>:</u>	Spec. Ref.#	<u>FEATURES<sup>1</sup>:</u>	Spec. Ref.#
Flooring:		<u>Fixed Items:</u>	
Sealed concrete	033000	N/A	
Base:		<u>Fire Suppression:</u>	
<b>No base</b>		Fire suppression system	211000
Ceiling:		<u>Plumbing:</u>	
<b>Exposed structure</b>	---	N/A	
Walls:		<u>HVAC:</u>	
<b>Unpainted</b> concrete masonry units	<b>042000</b>	To be determined by Design Professional	
<u>LOOSE FURNISHINGS</u>		<u>Electrical:</u>	
N/A		Single level switching	262726
		Fluorescent lighting	265100
		Illumination level: See Table 8600-4	
		1 duplex receptacle	262726
		E1 Electrical switchboard	262413/262416
		<u>Communications:</u>	
		N/A	
		<u>Electronic Safety and Security:</u>	
		N/A	
		<u>Miscellaneous:</u>	
		N/A	

NOTES:

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



PROGRAM ACTIVITIES:

- Space for technology needs

SPATIAL RELATIONSHIPS:

N/A

ENVIRONMENTAL CONSIDERATIONS:

- Uniform lighting

CAPACITY:	N/A
SIZE:	
<b>0-75,000 SF =</b>	<b>(?) 8 ft. x 8 ft. min.</b>
<b>75,00-150,000 SF =</b>	<b>(1) 8 ft. x 10 ft., and (?) 8 ft. x 8 ft.</b>
<b>150,000 SF plus =</b>	<b>(2) 8 ft. x 10 ft., and (?) 8 ft. x 8 ft.</b>

NOTES:

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

**TELECOMMUNICATIONS ROOM  
E-BS-4**

<u>FINISHES<sup>1</sup>:</u>	Spec. Ref.#	<u>FEATURES<sup>1</sup>:</u>	Spec. Ref.#
Flooring: Sealed concrete	033000	<u>Fixed Items:</u> N/A	
Base: <b>No base</b>		<u>Fire Suppression:</u> Fire suppression system	211000
Ceiling: <b>Exposed structure</b>	---	<u>Plumbing:</u> N/A	
Walls: <b>Unpainted</b> concrete masonry units	<b>042000</b>	<u>HVAC:</u> Exhaust air system	Div. 23
<u>LOOSE FURNISHINGS:</u> N/A		<u>Electrical:</u> Single level switching Fluorescent lighting Illumination level: See Table 8600-4 1 duplex receptacle Telecommunications Grounding	262726 265100  262726 270526/260526
		<u>Communications:</u> T1 Technology equipment Central sound system Telephone Wiring Integrated Telephone System Video Wiring Digital on Demand Delivery System Local Area Network Wiring Local Area Network Electronics Grounding & Infrastructure Equipment T2 1/4" plywood back board	275123 271313/271513 273113 271333/271533/271543 274125 271513/271323 272100 270526/271100 271313
		<u>Electronic Safety and Security:</u> Security System	281300/281600/282300
		<u>Miscellaneous:</u> N/A	

NOTES:

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

- Corridors shall be a minimum of 8 feet wide.
- Instructional and activity areas shall be accessible by corridors without passing through another instructional or activity area.
- The corridors are to meet the egress 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:

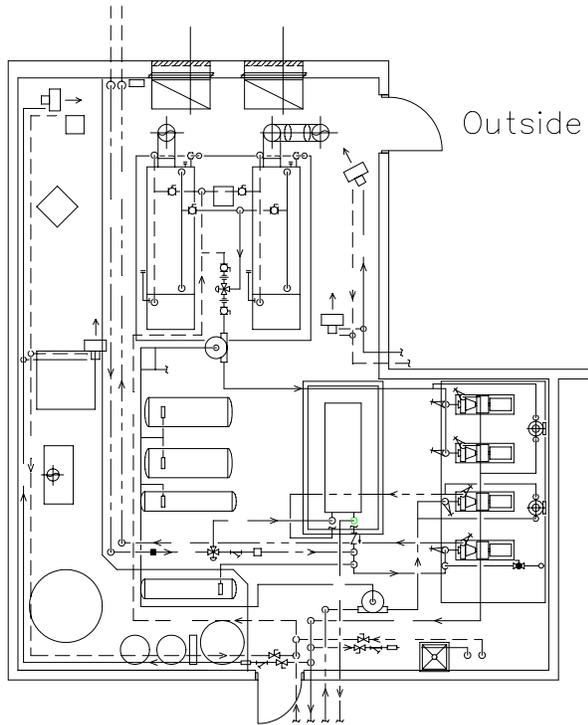
**CORRIDORS**  
**E-BS-5**

<u>FINISHES<sup>1</sup>:</u>	Spec. Ref.#	<u>FEATURES<sup>1</sup>:</u>	Spec. Ref.#
<u>Flooring<sup>2</sup>:</u>		<u>Fixed Items:</u>	
Vinyl composition tile, linoleum,	096500	Fire extinguishers and cabinets	104400
VET, sheet vinyl, VCTT,	096516	Recessed vinyl floor mats or	
carpet, or rubber	096816	surface mats	124813
		Tack board or tackable wall surface	101100
<u>Base:</u>		<u>Fire Suppression:</u>	
Resilient base	096500	N/A	
Optional: Structural glazed tile	042000		
<u>Ceiling:</u>		<u>Plumbing:</u>	
Suspended, acoustical	095113	Drinking water coolers	224000
Option in vestibules: Abuse resistant			
gypsum wallboard	<b>092116</b>	<u>HVAC:</u>	
		Supply/return air system	Div. 23
<u>Walls:</u>		Temperature control from	
Painted concrete masonry units		adjacent instructional spaces	230923
	<b>042000/099100</b>		
<u>LOOSE FURNISHINGS:</u>		<u>Electrical:</u>	
Recycling bins and waste receptacles		Dual level switching	262726
Fixed or loose benches		Fluorescent lighting	265100
		Illumination level: See Table 8600-4	
		Duplex receptacles	262726
		Means of egress lighting per code	265100
		Emergency lighting	265100
<u>NOTE: At entries adjacent to dining/ commons area, match dining/commons flooring.</u>		<u>Communications:</u>	
		Central sound system	275123
		Clocks	275313
		Wireless access points	
			271513/272100/272133
		Video ports	271533/271543
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
		Security System	281300/281600/282300
		<u>Miscellaneous:</u>	
		Display cases	
		Directory	

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:**

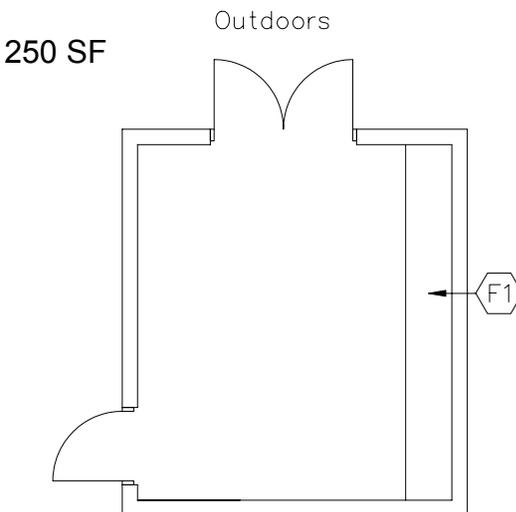
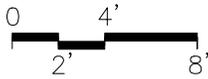
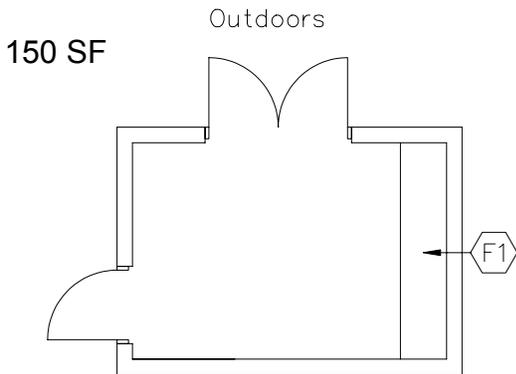
1. This is an example of a mechanical room. The equipment and layout will vary depending upon the heating, ventilating, and air conditioning system used.
2. A penthouse is considered a mechanical room.

**MECHANICAL/ELECTRICAL SPACE/DECKS**  
**E-BS-6**

<u>FINISHES<sup>1</sup>:</u>	Spec. Ref.#	<u>FEATURES<sup>1</sup>:</u>	Spec. Ref.#
Flooring:		<u>Fixed Items:</u>	
Sealed concrete	033000	To be determined by Design Professional	
Base:		<u>Fire Suppression:</u>	
<b>No base</b>		To be determined by Design Professional	
Ceiling:		<u>Plumbing:</u>	
Exposed structure	---	To be determined by Design Professional	
Walls: (note 2)		<u>HVAC:</u>	
<b>Unpainted</b> concrete masonry units <b>042000</b>		To be determined by Design Professional	
<u>LOOSE FURNISHINGS:</u>		<u>Electrical:</u>	
N/A		Single level switching	262726
		Fluorescent lighting	265100
		Illumination level: See Table 8600-10	
		Others as determined by Design Professional	
		<u>Communications:</u>	
		Central sound system	275123
		Voice port and phone	271513/273113
		<u>Electronic Safety and Security:</u>	
		N/A	
		<u>Miscellaneous:</u>	
		N/A	

NOTES:

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



CAPACITY: N/A  
 SIZE: 150 - 250 SF

PROGRAM ACTIVITIES:

- Space for storage of outdoor custodial equipment

SPATIAL RELATIONSHIPS:

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

ENVIRONMENTAL CONSIDERATIONS:

N/A

NOTES:

**STORAGE AREA  
E-BS-7**

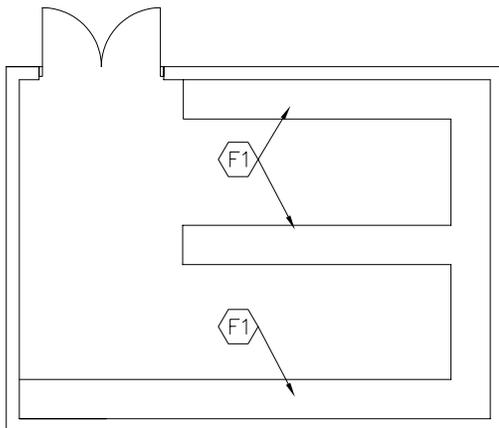
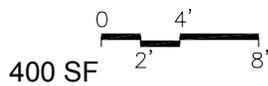
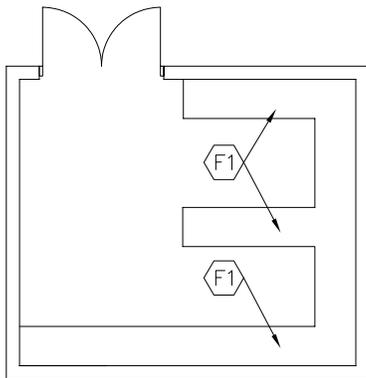
<u>FINISHES<sup>1</sup>:</u>	Spec. Ref.#	<u>FEATURES<sup>1</sup>:</u>	Spec. Ref.#
Flooring:		<u>Fixed Items<sup>2</sup>:</u>	
Sealed concrete	033000	F1 10' - 16' of open tall shelving, depth may vary (fixed or loose)	123550
Base:		<u>Fire Suppression:</u>	
<b>No base</b>		Fire suppression system	211000
Ceiling:		<u>Plumbing:</u>	
Exposed structure	---	N/A	
Walls:		<u>HVAC:</u>	
<b>Unpainted</b> concrete masonry units	<b>042000</b>	Exhaust air system	Div. 23
<u>LOOSE FURNISHINGS</u>		Supplemental heat as required	Div. 23
N/A		<u>Electrical:</u>	
		Single level switching	262726
		Fluorescent lighting	265100
		Illumination level: See Table 8600-4	
		Duplex receptacles	262726
		<u>Communications:</u>	
		N/A	
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
		<u>Miscellaneous:</u>	
		N/A	

NOTES:

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

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

250 SF



CAPACITY: N/A  
SIZE: 250 - 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:**

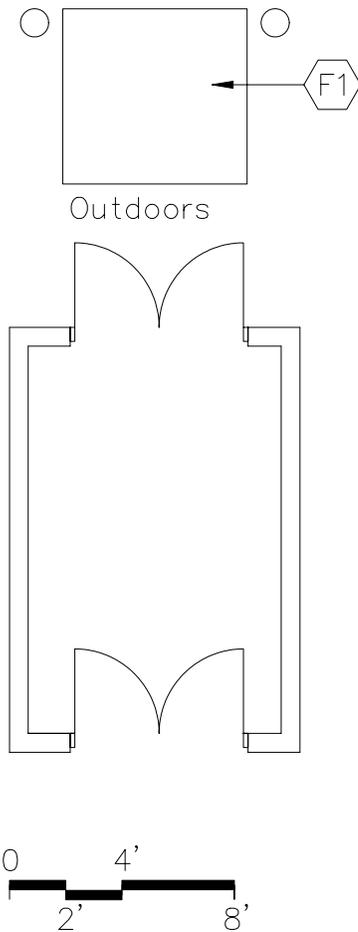
**CENTRAL STORAGE AREA  
E-BS-8**

<u>FINISHES<sup>1</sup>:</u>	Spec. Ref.#	<u>FEATURES<sup>1</sup>:</u>	Spec. Ref.#
Flooring:		<u>Fixed Items<sup>2</sup>:</u>	
Sealed concrete	033000	F1 26' - 32' of open tall shelving, depths may vary (fixed or loose)	123550
Base:		Option: mobile storage shelving	105626
<b>No base</b>			
Ceiling:		<u>Fire Suppression:</u>	
Exposed structure	---	Fire suppression system	211000
Walls:		<u>Plumbing:</u>	
<b>Unpainted</b> concrete masonry units	<b>042000</b>	N/A	
<u>LOOSE FURNISHINGS:</u>		<u>HVAC:</u>	
N/A		Exhaust air system	Div. 23
		Supplemental heat as required	Div. 23
		<u>Electrical:</u>	
		Single level switching	262726
		Fluorescent lighting	265100
		Illumination level: See Table 8600-4	
		Duplex receptacles	262726
		<u>Communications:</u>	
		N/A	
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
		<u>Miscellaneous:</u>	
		N/A	

NOTES:

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

Space to be determined by Design Professional.



CAPACITY:  
SIZE:

N/A  
120 SF

PROGRAM ACTIVITIES:

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

SPATIAL RELATIONSHIPS:

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

ENVIRONMENTAL CONSIDERATIONS:  
N/A

MISCELLANEOUS:

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

NOTES:

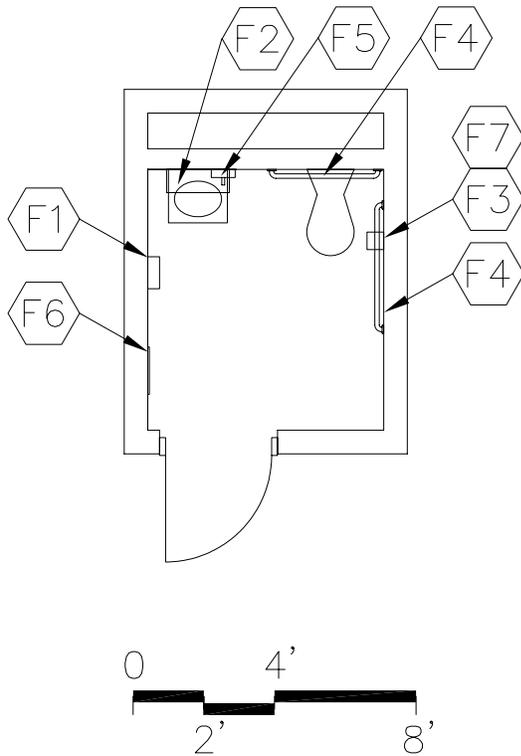
**LOADING/RECEIVING AREA**  
**E-BS-9**

CHAPTER 4: ELEMENTARY SCHOOL

<u>FINISHES<sup>1</sup>:</u>	Spec. Ref.#	<u>FEATURES<sup>1</sup>:</u>	Spec. Ref.#
Flooring:		<u>Fixed Items:</u>	
Sealed concrete	033000	F1 Loading dock leveler and dock bumpers	111300
Base:		<u>Fire Suppression:</u>	
<b>No base</b>		Fire suppression system	211000
Ceiling:		<u>Plumbing:</u>	
<b>Exposed structure</b>		N/A	
Walls:		<u>HVAC:</u>	
<b>Unpainted</b> concrete masonry units	<b>042000</b>	Exhaust air system	Div. 23
<u>LOOSE FURNISHINGS:</u>		Supplemental heat as required	Div. 23
N/A		<u>Electrical:</u>	
		Single level switching	262726
		Fluorescent lighting	265100
		Illumination level: See Table 8600-4	
		Duplex receptacles	262726
		<u>Communications:</u>	
		Central sound system	275123
		<u>Electronic Safety and Security:</u>	
		N/A	
		<u>Miscellaneous:</u>	
		N/A	

NOTES:

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



**PROGRAM ACTIVITIES:**

- Personal and health needs for the building occupants

**SPATIAL RELATIONSHIPS:**

- Near academic area

**ENVIRONMENTAL CONSIDERATIONS:**

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

CAPACITY: 1 person  
 SIZE: 50 SF

**NOTES:**

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

**RESTROOM  
E-BS-10**

<u>FINISHES<sup>1</sup>:</u>	Spec. Ref.#	<u>FEATURES<sup>1</sup>:</u>	Spec. Ref.#
<u>Flooring:</u>		<u>Fixed Items:</u>	
Linoleum, VET, sheet vinyl, or rubber	<b>096516</b> 096500	F1 Towel dispenser	102813
Optional: quarry tile, or resinous flooring	093000 096723	F2 Mirror with shelf above sink(optional)	102813
<u>Base:</u>		F3 Toilet tissue holder	102813
Resilient base	096500	F4 36" and 42" grab bar	102813
Optional: quarry tile, resinous flooring, or integral vinyl cove base	093000 096723	F5 Soap dispenser	102813
<u>Ceiling:</u>		F6 Sanitary product dispenser	102813
Suspended, acoustical	095113	F7 Sanitary product receptacle	102813
<u>Walls:</u>		<u>Fire Suppression:</u>	
Painted concrete masonry units	<b>042000/099100</b>	Fire suppression system	211000
		<u>Plumbing:</u>	
		Wall-mounted water closet	224000
		Wall-mounted lavatory	224000
		Plumbing connections	224000/221116/221119
<u>LOOSE FURNISHINGS:</u>		<u>HVAC:</u>	
Wastebasket		Exhaust air system	Div. 23
		Supplemental heat as required	Div. 23
		<u>Electrical:</u>	
		Single level switching	262726
		Fluorescent lighting	265100
		Illumination level: See Table 8600-4	
		1 duplex receptacle	262726
		<u>Communications:</u>	
		Central sound system	275123
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
		<u>Miscellaneous:</u>	
		N/A	

**NOTES:**

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