Chapter 6:	**Career-Technical School**	
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6300	Spatial Relationships Diagram	
6301	Core Spaces	Academic Core Spaces
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	CT-AC-2	***Computer Room***
	CT-AC-3	***General Science/Physics***
	CT-AC-4	***Biology***
	CT-AC-5	***Chemistry***
	CT-AC-6	***Science Prep***
	CT-AC-7	***Teacher Prep/Workroom***
	CT-AC-8	Individual Restroom
	CT-AC-9	***Small Group Room***
	CT-AC-10	Material Storage
	CT-AC-11	***Multipurpose Room***
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		Special Education/Student Services Spaces
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	CT-SE-2	Workroom/Conference
	CT-SE-3	Restroom/Shower
	CT-SE-4	***Career Technical Evaluation***
	CT-SE-5	***Career Technical Evaluation Office***
	CT-SE-6	***Small Group Room***
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	CT-SE-8	***Resource Room***
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	CT-AD-2	Secretarial Area
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	CT-AD-4	***Assistance Director/Principal's Office***
	CT-AD-5	***Supervisor's Office***
	CT-AD-6	***Coordinator's Office***
	CT-AD-7	***Conference Room***
	CT-AD-8	***Mail/Work/Copy Room***
	CT-AD-9	Administrative Storage
	CT-AD-10	Vault/Records
	CT-AD-11	Restroom
	CT-AD-12	***Guidance Counselor***
	CT-AD-13	Guidance Records/Storage
	CT-AD-14	***Guidance Conference***
	CT-AD-15	***Parent/Volunteer***
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	CT-MC-3	Workroom/Storage
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	CT-MC-5	A/V Storage
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	CT-FS-1a	Preparation Area
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	CT-FS-1c	Dry Food Storage
	CT-FS-1d	Cooler/Freezer
	CT-FS-1e	Ware Washing
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	CT-GS-5	Storage Area
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		Building Spaces
6309	***CT-BS-1***	***Corridors***
	CT-BS-2	Mechanical/Electrical/Space Decks

PURPOSE

The purpose of this Chapter is to provide the Vocational School District and the Design Professional with the requirements and relationships for the Career-Technical School spaces identified in Chapter 2: Bracketing.

INTRODUCTION

This Chapter begins with an overall building diagram showing how the various areas of a Career-Technical school could be arranged. The diagram is meant only to demonstrate the relationships between various parts of the building.

Along with the overall building diagram, there are various program area diagrams throughout this chapter which demonstrate how specific spaces may relate to each other within a particular program area.

Following each program area diagram are representative space plates for each type of space in the program area. Each space plate includes a diagram of the room showing a possible layout and also gives other information about the space, including:

a. Program Activities
b. Spatial Relationships
c. Environmental Considerations
d. Finishes
e. Loose Furnishings
f. Features

NO SMOKING SIGNS

As required by the Ohio Revised Code, post “No Smoking” signs at every entrance door into the building. If a door is for exit only, there is no need for a sign. Post the signs on entrance glass or other appropriate surface. Signs shall contain a telephone number for reporting violations. (866/559-6446)

DIAGRAM

Diagrams of the space have been developed to show how some of the features and loose furnishings may be organized. The space is not required to be designed in the configuration shown.

PROGRAM ACTIVITIES

Program activities indicate the type of activities that may occur in the space. These activities will vary from school district to school district depending on the educational program.

SPATIAL RELATIONSHIPS

Relationships of a particular room to other spaces and activities have been identified to assist the Design Professional in the design of the facility.

ENVIRONMENTAL CONSIDERATIONS

Environmental considerations are items that may affect the educational program. They are the basis of some the requirements of Finishes, Features, Plumbing, HVAC, Electrical, and Technology. 5% of floor area for natural light openings is a minimum and is considered to be the masonry or rough opening.

FINISHES

The finishes stated for the spaces have been developed based on the function of the room. The spaces adjacent to the room or a building system may change the finishes stated. For example, it may be necessary to change a gypsum wallboard partition to a concrete masonry wall as a result of the structural system.

OPERABLE WINDOWS ***Operable windows are optional in exterior window fenestration.***

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.

LOOSE EQUIPMENT

Loose equipment, although shown in some space plates, is not generally purchased through the classroom facilities assistance program (CFAP). This is the responsibility of the Career-Technical School.

FIXED EQUIPMENT Fixed equipment which is defined as being attached to and therefore becoming a part of the building structure and having a useful life of greater than five years is provided by CFAP.

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 required area. This area is given in net square feet – defined as the area within the walls of the room.

TECHNOLOGY

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

OPTIONS

1. Some finishes and features have options noted on the space plates. Linoleum (spec.section 096516) or rubber sheet flooring is an option to resilient flooring or carpet. Steel stud and abuse-resistant wallboard partition is an option to concrete masonry between classrooms, labs, and other academic spaces.
2. The science lab layouts shown do not restrict or reflect the variety of arrangements available to the Design Professional.

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, astronomical time clock, or temperature control system to comply with ASHRAE 90.1. to automatically turn lighting off when sufficient daylight is available. Interior and exterior lighting allowable power densities shall be in compliance with ASHRAE 90.1.

ELECTRICAL

A room safety push-button (kill) switch capable of de-energizing room electrical power shall be provided in rooms where machines, tools, apparatus, etc. could cause physical harm to student. Button shall be connected to electrical circuits, panelboards, bus duct, etc. that serves such tools, apparatus, etc.

DESIGN CONSIDERATIONS

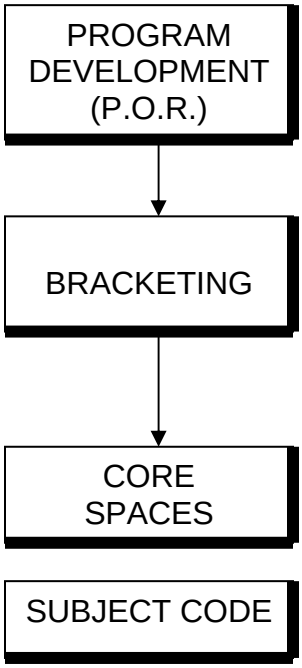
In order to accommodate school districts in meeting the unique requirements of it's Career-Technical students, the OSFC has provided spaces that accommodate instructional and support activities. The layout and organization of those spaces is critical to the educational success of the school. Therefore, during the planning and design of the career technical school, the district and design team should take into consideration some of the following factors.

Educational

- Current and future trends in Career-Technical Educational programs and services
- Ohio Department of Education Career-Technical Pathways
- Current and future programs being provided by the school district
- Type and number of students in each career pathway and program type
- It is important for the design team to understand how students receive career-technical and academic instruction. Some students attend their regular high school in the morning and come to a career-technical school in the afternoon. Others may stay at the career-technical school all day.

Layout and Organization

- Based on the programs provided by the district, select the laboratory spaces, related and support spaces needed to adequately deliver the curriculum
- Related spaces such as classrooms, storage, restrooms, and reference rooms should be arranged to allow for use by multiple programs. For example, CT Program Types 4-7 commonly share classrooms. Flexibility and adaptability should be considered during the planning and design phases.
- Consider current and future program changes and how instructional and support spaces can be designed to accommodate change. Look for commonalities in spaces that would allow multiple use of spaces.
- Consider providing Extended Learning Areas for use by individuals and small groups
- Consider providing common student gathering areas
- Movement of students, staff, supplies, and maintenance personnel is a primary consideration.
- Encourage members of the district and design team to research how new career-technical schools throughout the country are being designer



Determined previous to this chapter between school district and design professional. Building program can be core spaces, Career-Technical subject codes, or a combination of both.

Determined in Volume One, Chapter 2 of the Design Manual.

Once building program is determined, Chapter 6 can be utilized to develop individual spaces. Core spaces are located at the beginning of Chapter 6. These spaces include Academic Core, Special Education/Student Service, Administrative, Media Center, Student Dining, Food Service, Custodial, General Service, and Building Service spaces.

The remainder of Chapter 6 describes the seven Program Types in which all ODE recognized subject codes are placed.

Once the architect knows which subject codes will be in the building program, those subject codes can be found in the index. An index of all subject codes, both by subject code name and subject code number, follows these instructions. As an example, the subject code, “Cosmetology”, is in Program Type 4. Turning to the appropriate tab, one will find a general description, a program example, lab example, lab descriptions, and plates for all support spaces.

Since a subject code consists of a lab, possible program specific rooms, and typical support space, the design professional must review the entire Program Type section. Lab descriptions are in alphabetical order and follow the Lab example plate. These summaries describe the contents and systems needed for each specific lab (and only the lab). Following these lab summaries are plates and descriptions for the remaining support spaces.

Certain Program Types (3, 4, 6, and 7) require the addition of program specific spaces. These are rooms needed in addition to the lab and typical support spaces. The descriptions of these spaces can be found directly after the summary of a particular lab.

With sizes and descriptions of all spaces within a particular subject code known, the design professional can proceed with the design of the subject code. Graphic plates of the labs are not provided due to the wide variety of teaching philosophies throughout the Career-Technical system within the State of Ohio. Each design professional is permitted to locate all listed items and equipment at their discretion after consultation with the school district.

The following tables, which are sorted by program name and number, relate the unique subject code for each specialized program and the Program Type space that would be most appropriate for that curriculum delivery. The page numbers locate the program space descriptions in this Design Manual Career-Technical Section.

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17.0302	6	T3	Auto Technology	6316-12
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17.2811	2	P3	Emergency Medical Technician	6312-12
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17.0100	5	D8	Environmental Controls Technologies	6315-14
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07.4840	2	J8	Health Support Pathway	6312-14
07.0913	2	J9	Health Unit Coordinator	6312-15
17.1003	5	D9	Heavy Equipment (Construction)	6315-15
07.0307	2	JA	Home Health	6312-10
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07.4830	2	JL	Therapeutic Pathway	6312-14
33.0020	1	L2	Travel and Tourism	6311-15
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07.0906	2	J2	Community Health Aide	6312-10
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14.0240	1	N1	Interactive Media	6311-16
14.0220	1	N2	Network Systems	6311-16
14.0230	1	N3	Programming & Software Development	6311-16
17.0370	1	R0	Automation and Robotics	6311-9
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17.2602	4	M1	Cosmetology	6314-20
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17.1002	5	D7	Electrical Trades	6315-13
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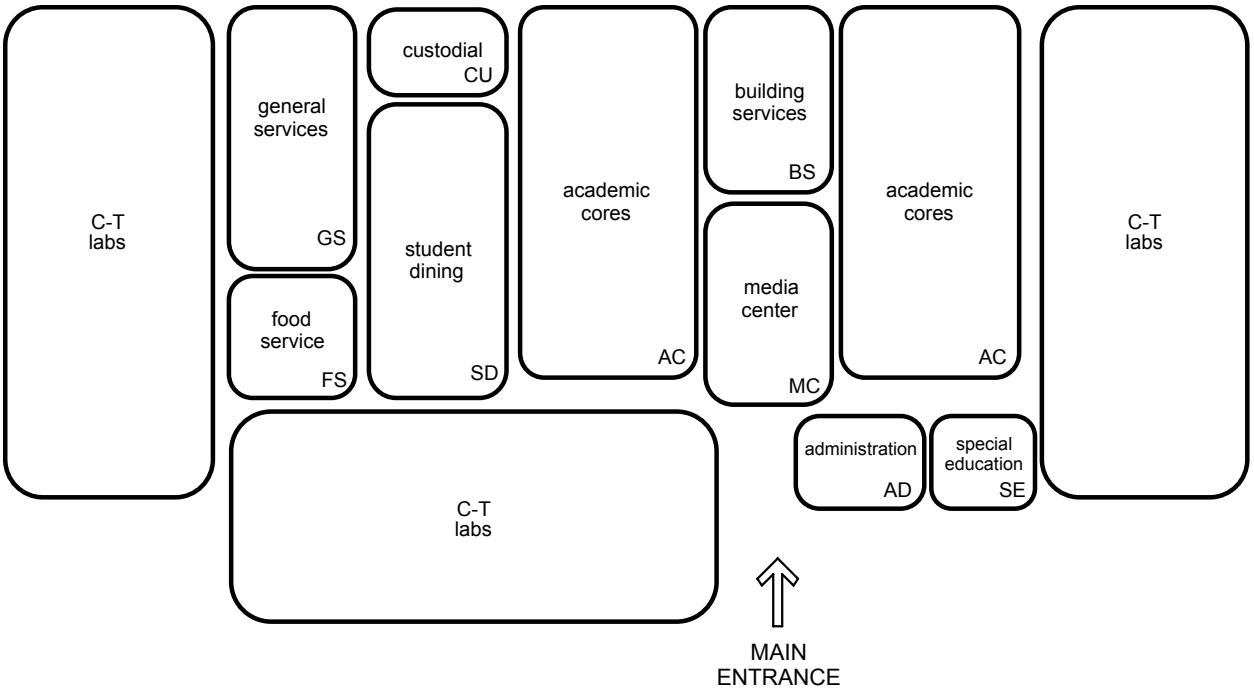

NOTES:

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

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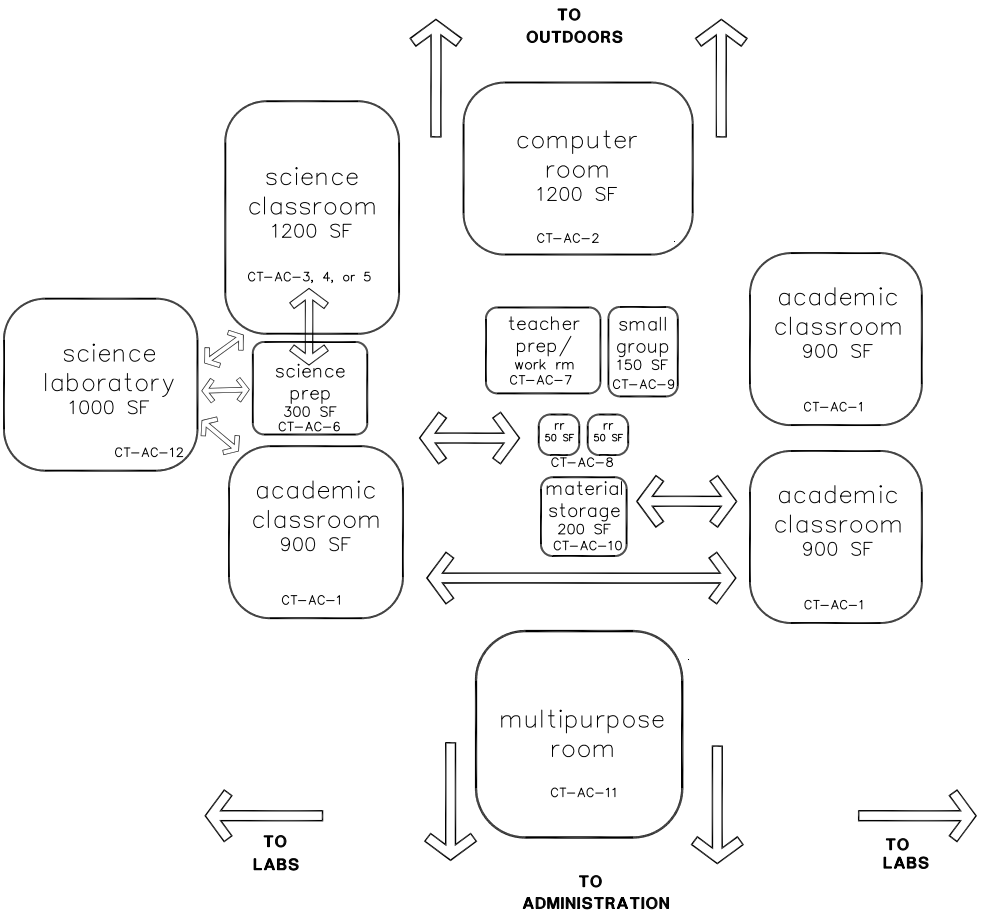

NOTE:

This is an example of how the academic spaces in a career-technical school could be arranged. This is only meant to demonstrate the relationships between various areas of the building.

Following are the Academic core space:

CT-AC-1 Academic Classroom
CT-AC-2 Computer Room
CT-AC-3 General Science / Physics
CT-AC-4 Biology
CT-AC-5 Chemistry
CT-AC-6 Science Prep
CT-AC-7 Teacher Prep / Workroom
CT-AC-8 Individual Restroom
CT-AC-9 Small Group Room
CT-AC-10 Material Storage
CT-AC-11 Multipurpose Room
CT-AC-12 Science Laboratory

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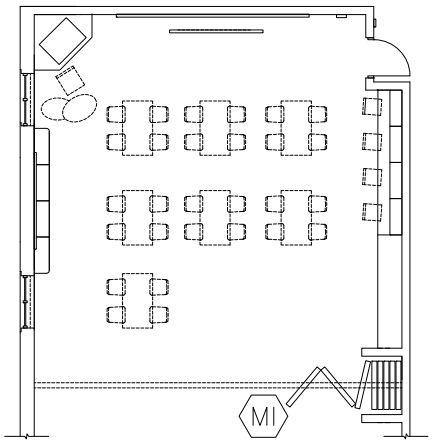
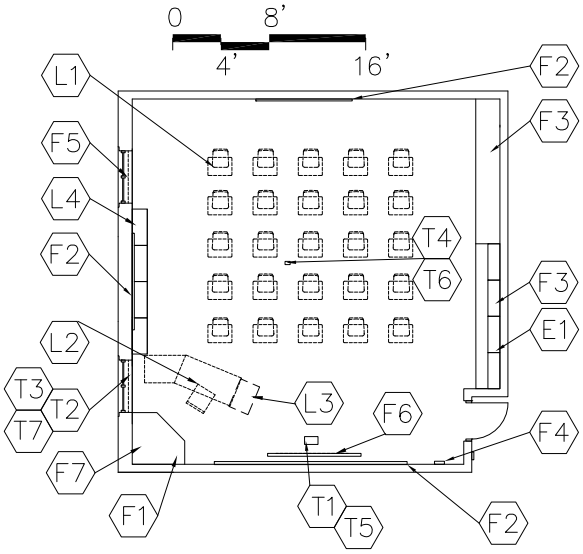


CLASSROOM WITH OPTIONAL FOLDING WALL



TYPICAL CLASSROOM

CAPACITY: 25 students
SIZE: 900 SF

PROGRAM ACTIVITIES:

- Large group, small group, and individual instruction
- Group and individual work
- Demonstrations
- Accommodates any of the core academic disciplines

SPATIAL RELATIONSHIPS:

- Near other academic core classrooms
- Proximity to large group restrooms
- Near teacher prep area/workroom
- Classrooms should be located in academic "zone" that is away from noisy or public activities
- Classrooms with access to media center and administrative services
- Flexibility of space

ENVIRONMENTAL CONSIDERATIONS:

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

NOTES:

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

ACADEMIC CLASSROOM

CT-AC-1

FINISHES[1]:	Spec. Ref.#
Flooring:	
Carpet, carpet tile	096816
Optional: ET, sheet vinyl,	096516
linoleum, or rubber	096500
	096813
Base:	
Resilient base	096500
Ceiling:	
Suspended, acoustical	095113
Walls:	
Painted concrete masonry units	042000/099100

LOOSE FURNISHINGS:

L1 Student desks and chairs
L2 Teacher desk or workstation/computer support and chair
L3 File cabinet
L4 9' of low bookcases (fixed or mobile)
Wastebasket

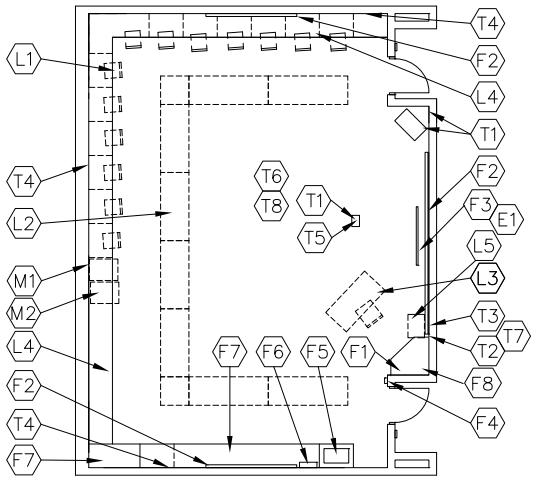
Electronic Safety and Security:	
Life safety devices per code	283111

Miscellaneous:	
Pencil sharpener (optional)	
M1 Operable partitions between classrooms are optional	102226
Duplex receptacle with dedicated circuit for wireless devices	

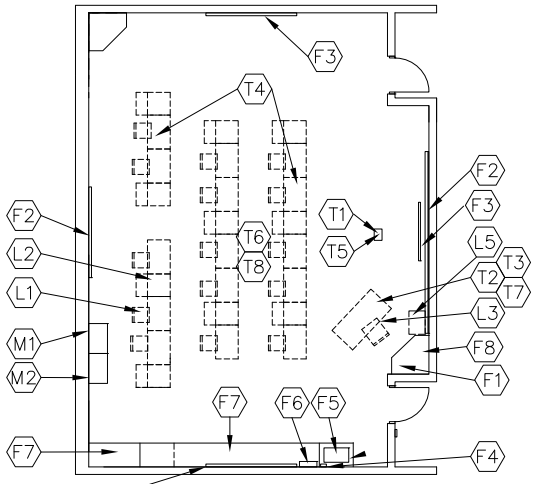
FEATURES[1]:	Spec. Ref.#
Fixed Items:	
F1 Tall wardrobe with file drawers	123550
F2 20'-32' combination marker board, tack board and tackable wall surface	101100
F3 18'-24' combination base and wall cabinets	123550
F4 Pencil sharpener support (optional)	062000
F5 Windows with integral blinds	085113
F6 Projection screen (optional)	115213
F7 Technology support casework	123550
Fire Suppression:	
Fire suppression system	211000
Plumbing: N/A	
HVAC:	
Supply/return air system	Div. 23
Independent temperature control	230923
Electrical:	
Fluorescent lighting:	265100
Illumination level: See Table 8600-5	
Multilevel switching	262726
4 duplex receptacles	262726
Double duplex receptacle adjacent to each data and video port	262726
Communications:	
T1 1 ***projector*** video port	271543
T2 1 voice port and phone	271513/273123
T3 1 data port near teacher workstation	271513
T4 ***Wireless access point cable above ceiling***	271513
Clock	275313
Central sound system	275123
Sound reinforcement system	275127
T5 ***Ultra-short throw interactive*** projector	274119
T6 Wireless access point (WAP) as determined by design – refer to Note 4	***272133***
T7 Classroom technology center videoport	***271543, 274116, 274119, 275127***

NOTES:

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



PERIMETER WORKSTATION LAYOUT



FREE–STANDING WORKSTATIONS

0 8' 4' 16'

CAPACITY: 25 students
SIZE: 1,100 SF

PROGRAM ACTIVITIES:
- Individual computer instruction
- Group instruction
- Individual project work
- Media production
- Small group meetings

SPATIAL RELATIONSHIPS:
- Near academic core classrooms
- Near large group restrooms
- Near teacher prep area/workroom

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

NOTES:

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

COMPUTER ROOM

CT-AC-2

FINISHES[1]:	Spec. Ref.#
Flooring:	
Carpet, carpet tile	096816
Optional: ET, sheet vinyl,	096500
linoleum, or rubber	096516
	096813
Base:	
Resilient base	096500
Ceiling:	
Suspended, acoustical	095113
Walls:	
Painted concrete masonry units	042000/099100

LOOSE FURNISHINGS:

L1 Student chairs
L2 Work tables
L3 Teacher desk or workstation/computer support and chair
L4 Computer workstation furniture
L5 File cabinet
Wastebasket

L4 could be fixed casework.

	Spec. Ref.#
Electronic Safety and Security:	
Life safety devices per code	283111
Miscellaneous:	
Pencil sharpener (optional)	

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

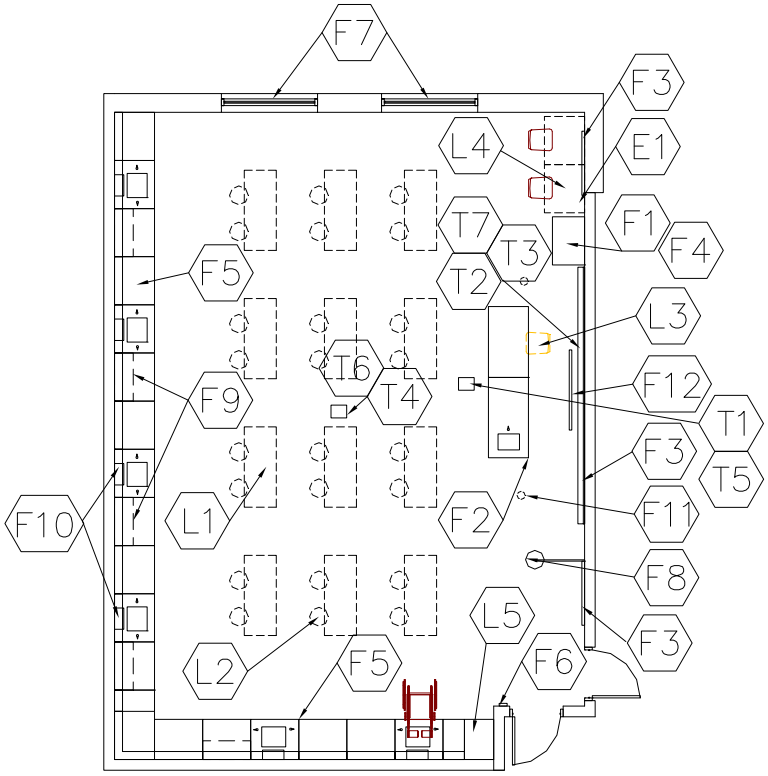
M1 Classroom area network file server
M2 Printer

E1 Duplex receptacle with dedicated circuit for wireless devices

FEATURES[1]:		Spec. Ref.#
Fixed Items:		
F1	Tall wardrobe with file drawers	123550
F2	16'-32' combination marker board tack board & tackable wall surface	101100
F3	Projection screen (optional)	115213
F4	Pencil sharpener support (optional)	062000
F5	3' sink base cabinet (optional)	123550
F6	Towel dispenser (optional)	102813
F7	9'-20' combination base and tall cabinets	123550
F8	Technology support casework	123550
Fire Suppression:		
	Fire suppression system	211000
Plumbing:		
	N/A	
HVAC:		
	Supply/return air system	Div. 23
	Independent temperature control	230923
Electrical:		
	Fluorescent lighting: Parabolic lenses	265100
	Illumination level: See Table 8600-5	
	Multilevel switching	262726
	4 duplex receptacles	262726
	Double duplex receptacle adjacent to each data and video port	262726
Communications:		
T1	1 ***projector*** video port	271543
T2	1 voice port and phone	271513/273123
T3	1 data port near teacher workstation	271513
T4	Classroom area network (13 ports minimum)	271513
	Clock	275313
	Central sound system	275123
	Sound reinforcement system	275127
T5	***Ultra-short throw interactive*** projector	274119
T6	***Wireless access point (WAP) as determined by Design – refer to Note 3***	***272133***
T7	***Classroom technology center video port***	***271543, 274116, 274119, 275127***
T8	***Wireless access point cable above ceiling***	***271513***

NOTES:

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



CAPACITY: 24 - 28 students
SIZE: 1,200 SF
ANCILLARY SPACES: Science Prep CT-AC-6

PROGRAM ACTIVITIES:

- Large group, small group, and individual instruction
- Group and individual work
- Laboratory experimentation
- Data collection and analysis
- Demonstrations
- Project work

SPATIAL RELATIONSHIPS:

- Near other science classrooms
- Adjacent to science prep room
- Classrooms located in academic "zone" that is away from noisy or public activities
- Classrooms with access to media center and administrative services
- Proximity to large group restrooms
- Flexibility of space

ENVIRONMENTAL CONSIDERATIONS:

- Required: View glass – minimum 5% without daylighting design; minimum 3% with daylighting design.
  Recommended: Daylighting design with glazing area determined by design solution.
- Environmental sound control -
  wall only minimum STC 45
  ceiling minimum CAC 35, NRC 0.70
- Higher than normal ventilation requirements
- Moisture- and stain-resistant finishes
- Chemical-resistant counter tops

NOTES:

1. Loose furnishings shown represent one of many possible arrangements.
2. Science casework layout to be determined by the school district.
3. Depending upon the educational program of the district, a tall wardrobe may be placed in this classroom or could be placed in a teacher prep area/workroom.
4. The layouts shown do not restrict or reflect the variety of arrangements available to the Design Professional.

GENERAL SCIENCE/PHYSICS

CT-AC-3

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

LOOSE FURNISHINGS:

L1 Student work tables
L2 Student stools/chairs
L3 Teacher chair or stool
L4 Computer workstation furniture
L5 File cabinet
Wastebasket

L4 could be fixed casework.

Electronic Safety and Security:	
Life safety devices per code	283111

Miscellaneous:

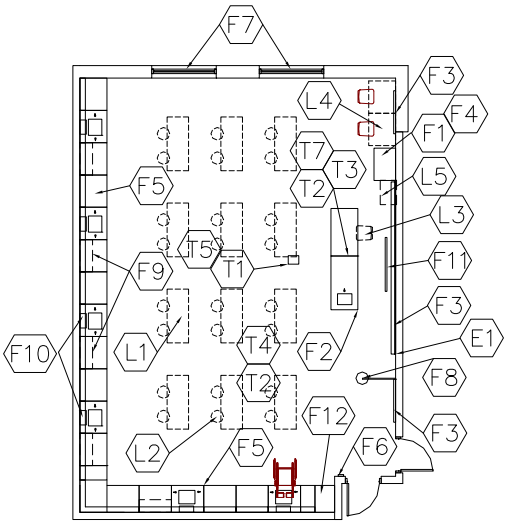
Pencil sharpener (optional)

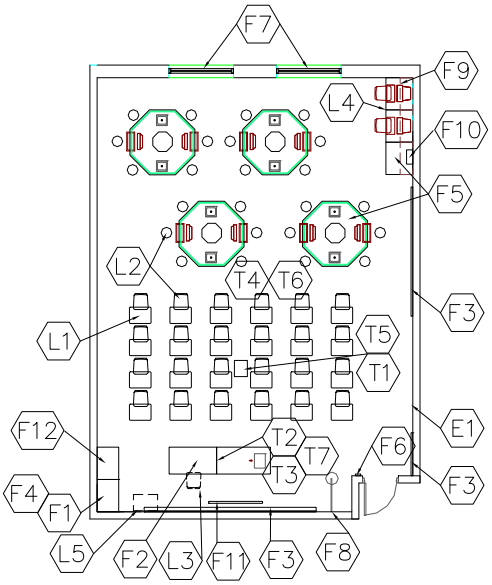
E1 Duplex receptacle with dedicated circuit for wireless devices

FEATURES[1]:		Spec. Ref.#
Fixed Items:		
F1	Tall wardrobe with file drawers	123553
F2	Demonstration table/teacher desk	123553
F3	20'-32' combination marker board, tack board and tackable wall surface	101100
F4	Technology support casework	123553
F5	40'-60' of lab casework with sinks	123553
F6	Pencil sharpener support (optional)	062000
F7	Windows with integral blinds	085113
F8	Emergency shower/eyewash	224000
F9	18'-24' of wall cabinets	123553
F10	Towel dispensers (optional)	102813
F11	2 eye hooks for demonstrations(optional)	055000
F12	Projection screen (optional)	115213
Fire Suppression:		
	Fire suppression system	211000
Plumbing:		
	Plumbing connections	224000/221116/221119
	Emergency shower/eyewash connections	224000
	Gas connections (optional)	226313
	Master shutoff for gas	226313
	Compressed air connections(optional)	221500
HVAC:		
	Supply/return air system	Div. 23
	Independent temperature control	230923
	Manual exhaust	Div. 23
Electrical:		
	Fluorescent lighting:	265100
	Illumination level: See Table 8600-5	
	Multilevel switching	262726
	Duplex receptacles at perimeter workstations and teaching wall	262726
	Double duplex receptacle adjacent to each data and video port	262726
	Emergency lighting	265100
	Means of egress lighting per code	265100
Communications:		
T1	1 ***projector*** video port	271543
T2	1 voice port and phone	271513/273123
T3	1 data port at demonstration table	271513
T4	***Wireless access point cable above ceiling***	271513
	Clock	275313
	Central sound system	275123
	Sound reinforcement system	275127
T5	***Ultra-short throw interactive*** projector	274119
T6	***Wireless access point (WAP) as determined by design – refer to Note 4***	***272133***
T7	***Classroom technology center videoport***	***271543, 274116, 274119, 275127***

NOTES:

1. Finishes/Features: Refer to Chapter 9 for specification references.
2. Technology components may be placed in a separate small cabinet, or integrated in the other casework in the room.
3. Master gas shutoff valve shall be clearly labeled, easily accessible, and immediately operable by staff.
4. ***Baseline includes WAP cable per classroom. WAP device quantity/placement per 272133 requirements.***





CAPACITY: 24 - 28 students
SIZE: 1,200 SF
ANCILLARY SPACES: Science Prep CT-AC-6

PROGRAM ACTIVITIES:

- Large group, small group, and individual instruction
- Group and individual work
- Laboratory experimentation
- Data collection and analysis
- Demonstrations
- Project work

SPATIAL RELATIONSHIPS:

- Near other science classrooms
- Adjacent to science prep room
- Classrooms located in academic "zone" that is away from noisy or public activities
- Classrooms with access to media center and administrative services
- Proximity to large group restrooms
- Flexibility of space
- Appropriate exterior exposure for "grow" window

ENVIRONMENTAL CONSIDERATIONS:

- Required: View glass – minimum 5% without daylighting design; minimum 3% with daylighting design.
  Recommended: Daylighting design with glazing area determined by design solution.
- Environmental sound control -
  wall only minimum STC 45
  ceiling minimum CAC 35, NRC 0.70
- Higher than normal ventilation requirements
- Moisture- and stain-resistant finishes
- Chemical-resistant counter tops

NOTES:

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

BIOLOGY
CT-AC-4

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

LOOSE FURNISHINGS:

L1 Student work tables
L2 Student stools/chairs
L3 Teacher chair or stool
L4 Computer workstation furniture
L5 File cabinet
Wastebasket

L4 could be fixed casework.

Electronic Safety and Security:

Life safety devices per code	283111

Miscellaneous:

Pencil sharpener (optional)

E1 Duplex receptacle with dedicated circuit for wireless devices

Communications (cont'd):

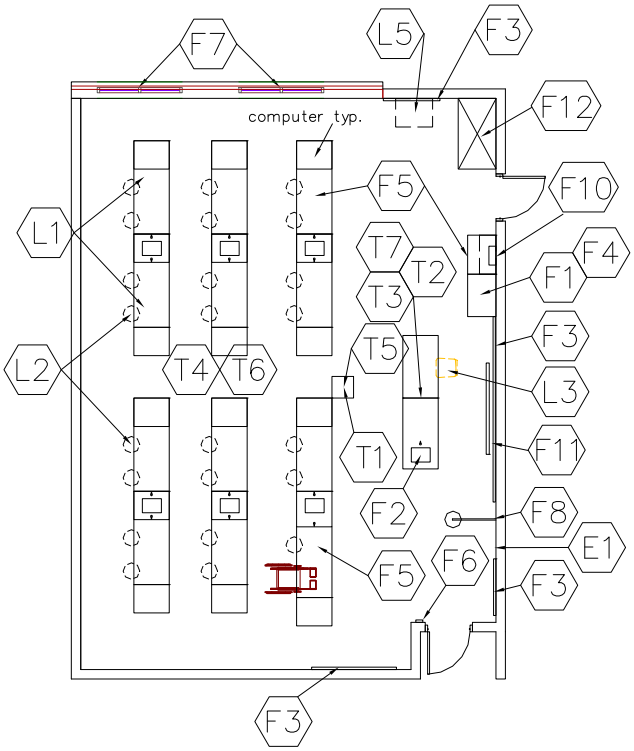
T6 Wireless access point (WAP) as determined by Design – refer to Note 4 272133

T7 Classroom technology center video port 271543, 274116, 274119, 275127

FEATURES[1]:		Spec. Ref.#
Fixed Items:		
F1	Tall wardrobe with file drawers	123553
F2	Demonstration table/teacher desk	123553
F3	20'-32' combination marker board tack board and tackable wall surface	101100
F4	Technology support casework	123550
F5	40'-60' of lab casework with sinks	123553
F6	Pencil sharpener support (optional)	062000
F7	Windows with integral blinds	085113
F8	Emergency shower/eyewash	224000
F9	18'-24' of wall cabinets (total)	123553
F10	Towel dispensers (optional)	102813
F11	Projection screen (optional)	115213
F12	Tall cabinets (optional)	123550
Fire Suppression:		
	Fire suppression system	211000
Plumbing:		
	Plumbing connections	224000/221116/221119
	Emergency shower/eyewash connections	224000
	Master shut-off for gas	226313
	Gas connections	226313
	Compressed air connections (optional)	221500
	Acid waste piping	221316
	Neutralization tank (optional)	221323
HVAC:		
	Supply/return air system	Div. 23
	Independent temperature ctrl	230923
	Manual exhaust	Div. 23
Electrical:		
	Fluorescent lighting: Illumination level: See Table 8600-5	265100
	Multilevel switching	262726
	Duplex receptacles at perimeter workstations and teaching wall	262726
	Double duplex receptacle adjacent to each data and video port	262726
	Emergency lighting	265100
	Means of egress lighting per code	265100
Communications:		
T1	1 ***projector*** video port	271543
T2	1 voice port and phone	271513/273123
T3	1 data port at demonstration table	271513
T4	***Wireless access point cable above ceiling***	271513
	Central sound system	275123
	Clock	275313
	Sound reinforcement system	275127
T5	***Ultra-short throw interactive*** projector	274119

NOTES:

1. Finishes/Features: Refer to Chapter 9 for specification references.
2. Technology components may be placed in a separate small cabinet, or integrated in the other casework in the room.
3. Master gas shutoff valve shall be clearly labeled, easily accessible, and immediately operable by staff.
4. ***Baseline includes WAP cable per classroom. WAP device quantity / placement per 272133 requirements.***



PROGRAM ACTIVITIES:

- Large group, small group, and individual instruction
- Group and individual work
- Laboratory experimentation
- Data collection and analysis
- Demonstrations
- Project work

SPATIAL RELATIONSHIPS:

- Near other science classrooms
- Adjacent to science prep room
- Classrooms located in academic "zone" that is away from noisy or public activities
- Classrooms with access to media center and administrative services
- Proximity to large group restrooms
- Flexibility of space

ENVIRONMENTAL CONSIDERATIONS:

- Required: View glass – minimum 5% without daylighting design; minimum 3% with daylighting design.
  Recommended: Daylighting design with glazing area determined by design solution.
- Environmental sound control -
  wall only minimum STC 45
  ceiling minimum CAC 35, NRC 0.70
- Higher than normal ventilation requirements
- Moisture- and stain-resistant finishes
- Chemical-resistant counter tops

CAPACITY:	24 - 28 students
SIZE:	1,200 SF
ANCILLARY SPACES:	Science Prep
	CT-AC-6

NOTES:

1. Loose furnishings shown represent one of many possible arrangements.
2. Science casework layout to be determined by the school district.
3. Depending upon the educational program of the district, a tall wardrobe may be placed in this classroom or could be placed in a teacher prep area/workroom.
4. The layouts shown do not restrict or reflect the variety of arrangements available to the Design Professional.

CHEMISTRY
CT-AC-5

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

LOOSE FURNISHINGS:

L1 Student work tables
L2 Student stools/chairs
L3 Teacher chair or stool
L4 Computer workstation furniture
L5 File cabinet
Wastebasket

L4 Could be fixed casework

Electronic Safety and Security:

Life safety devices per code	283111

Miscellaneous:

Pencil sharpener (optional)

E1 Duplex receptacle with dedicated circuit for wireless devices

Communications (cont'd):

T6 Wireless access point (WAP) as determined by Design – refer to Note 4 272133

T7 Classroom technology center video port 271543, 274116, 274119, 275127

F1	Tall wardrobe with file drawers	123553
F2	Demonstration table/teacher desk	123553
F3	20'-32' combination marker board, tack board and tackable wall	101100 surface
F4	Technology support casework	123550
F5	40'-60' lab casework with sinks	123553
F6	Pencil sharpener support (optional)	062000
F7	Windows with integral blinds	085113
F8	Emergency shower/eyewash	224000
F9	18'-24' of wall cabinets (optional)	123553
F10	Towel dispensers (optional)	102813
F11	Projection screen (optional)	115213
F12	Fume hood	115313
F13	Tall cabinet for microscopes(optional)	123550

Fire Suppression:

Fire suppression system	211000

Plumbing:

Plumbing connections	224000/221116/221119
Emergency shower/eyewash connections	224000
Master shut-off for gas	226313
Gas connections	226313
Compressed air connections (optional)	221500
Acid waste piping	221316
Neutralization tank	221323

HVAC:

Supply/return air system	Div. 23
Independent temp control	230923
Manual exhaust	Div. 23
Exhaust for fume hood	Div. 23

Electrical:

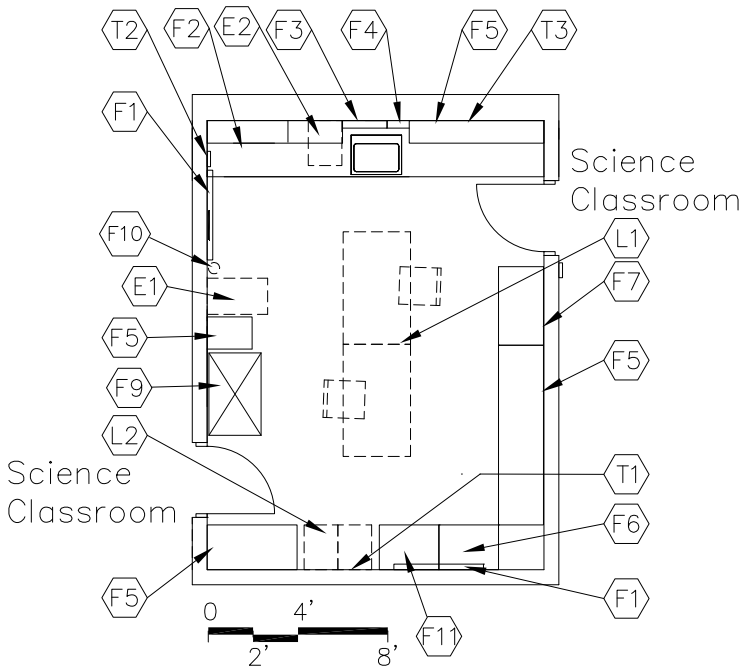
Fluorescent lighting:	265100
Illumination level: See Table 8600-5	
Multilevel switching	262726
Duplex receptacles at perimeter workstations and teaching wall	262726
Double duplex receptacle adjacent to each data and video port	262726
Emergency lighting	265100
Means of egress lighting per code	265100

Communications:

T1	1 ***projector*** video port	271543
T2	1 voice port and phone	271513/273123
T3	1 data port at demonstration table	271513
T4	***Wireless access point above ceiling***	271513
	Central sound system	275123
	Clock	275313
	Sound reinforcement system	275127
T5	***Ultra-short throw interactive*** projector	274119

NOTES:

1. Finishes/Features: Refer to Chapter 9 for specification references.
2. Technology components may be placed in a separate small cabinet, or integrated in the other casework in the room.
3. Master gas shutoff valve shall be clearly labeled, easily accessible, and immediately operable by staff.
4. ***Baseline includes WAP cable per classroom. WAP device quantity / placement per 272133 requirements.***



CAPACITY: 1-3 Staff
SIZE: 300 SF
ANCILLARY SPACES: Science Classrooms CT-AC-3, CT-AC-4, CT-AC-5

PROGRAM ACTIVITIES:
- Teacher preparation
- Materials storage
- Laboratory experimentation
- Data collection and analysis
- Small group work

SPATIAL RELATIONSHIPS:
- Adjacent to science classrooms
- Shared by more than one science classroom
- Grouped with and have access to other classrooms

ENVIRONMENTAL CONSIDERATIONS:
- Environmental sound control -
  wall only minimum STC 45
  ceiling minimum CAC 35, NRC 0.70
- Ventilation requirements
- Moisture- and stain-resistant finishes
- Chemical-resistant counter tops

NOTES:

1. Loose furnishings shown represent one of many possible arrangements.
2. Science casework layout to be determined by the school district.
3. Depending upon the educational program of the district, a tall wardrobe may be placed in this science prep room or could be placed in a teacher prep area/workroom.
4. A separate chemical storage room may be created from the science prep room square footage.

SCIENCE PREP

CT-AC-6

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

LOOSE FURNISHINGS:

L1 Work tables with chemical-resistant top
L2 2 file cabinets
Wastebasket

EQUIPMENT

E1 Refrigerator/freezer (optional)
E2 Dishwasher (optional)

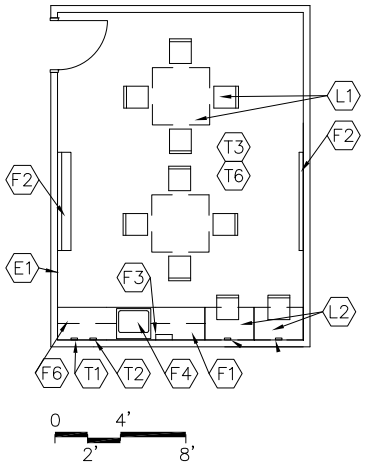
Note: Eliminate 24 hour exhaust if recommended by cabinet manufacturer. Make room 24 hour exhaust if no cabinet exhaust.

FEATURES[1]:		Spec. Ref.#
Fixed Items:		
F1	4' of tack board	101100
F2	8'-15' of lab station with sink	123553
F3	Drying rack with pegs (optional)	123553
F4	Towel dispenser (optional)	102813
F5	16'-31' combination wall cabinets and tall cabinets	123553
F6	Storage cabinets for acids, Ventilated (optional)	123553
F7	Storage cabinets for flammables(optional)	123553
F8	Reserved	
F9	Fume hood (optional)	123553
F10	Emergency eyewash (if applicable)	224000
F11	Chemical storage cabinets with acid resistant lining	123553
Fire Suppression:		
	Fire suppression system	211000
Plumbing:		
	Plumbing connections	224000/221116/221119
	Acid waste system	Div. 23
	Gas connections	226313
	Compressed air connections(optional)	221500
	Access to neutralization tank	221323
HVAC:		
	Supply/return air system	Div. 23
	Independent temperature control	230923
	Manual exhaust	Div. 23
	24 hour exhaust for acid storage cabinet	Div. 23
Electrical:		
	Single level switching	262726
	Fluorescent lighting:	265100
	Illumination level: See Table 8600-5	
	1 duplex receptacle under work tables	262726
	3 duplex receptacles	262726
	Receptacle for refrigerator/freezer	262726
	Double duplex receptacle at each data and video port	262726
Communications:		
T1	1 ***projector*** video port	271543
T2	1 voice port and phone	271513/273123
T3	1 data port	271513
	Clock	275313
	Central sound system	275123
Electronic Safety and Security;		
	Life safety devices per code	283111
Miscellaneous:		
	Fume hood through wall if adjacent to chemistry	

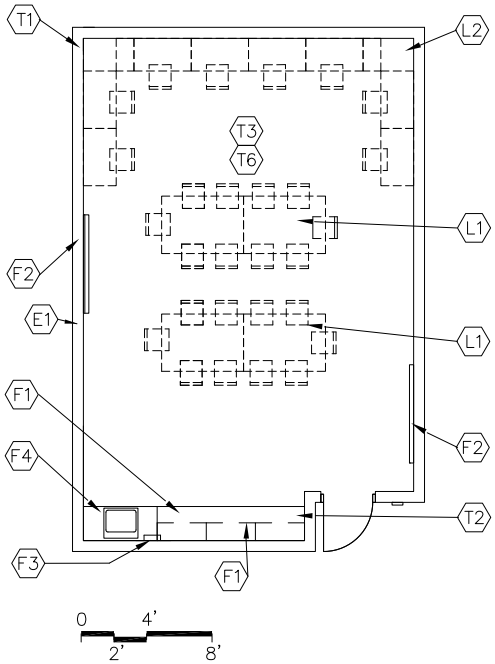
NOTES:

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

300 SF



600 SF



CAPACITY: 8 - 28 teachers
SIZE: 300 - 600 SF

PROGRAM ACTIVITIES:

- Teachers and other staff members hold team meetings and prepare for class
- Professional interaction should be encouraged to improve communication, professional development, and team building.

SPATIAL RELATIONSHIPS:

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

ENVIRONMENTAL CONSIDERATIONS:

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

NOTES:

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

TEACHER PREP/WORKROOM

CT-AC-7

FINISHES[1]:	Spec. Ref.#
Flooring:	
Carpet, carpet tile, ET, linoleum, vinyl sheet, or rubber	096816 096500 096516 096813
Base:	
Resilient base	096500
Ceiling:	
Suspended, acoustical	095113
Walls:	
Painted concrete masonry units	042000/099100

LOOSE FURNISHINGS:

L1 Tables and chairs

L2 Computer workstation furniture

Wastebasket

L2 could be fixed casework.

Electronic Safety and Security:	
Life safety devices per code	283111

Miscellaneous:

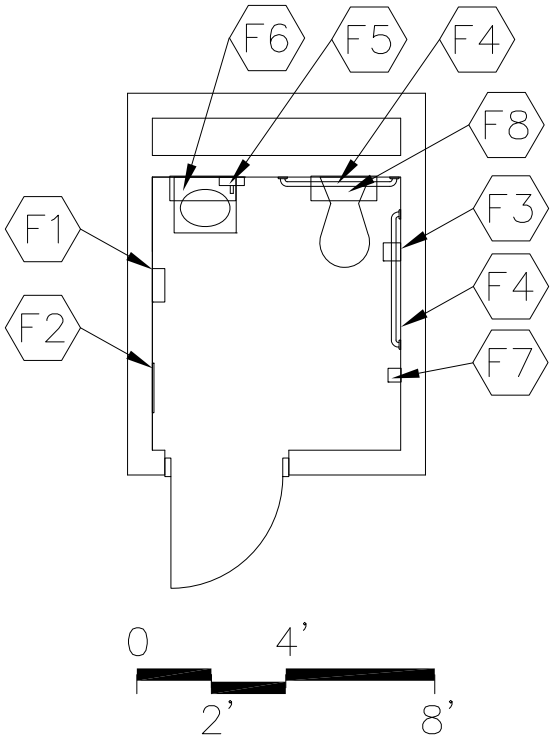
Copier by school district

E1 Duplex receptacle with dedicated circuit for wireless devices

FEATURES[1]:		Spec. Ref.#
Fixed Items[2]:		
F1	12'-18' combination base & wall cabinets (some could be bookcases)	123550
F2	10'-16' combination marker board, tack board & tackable wall surface	101100
F3	Towel dispenser (optional)	102813
F4	3' sink base cabinet	123550
Fire Suppression:		
	Fire suppression systems	211000
Plumbing:		
	Sink	224000
	Plumbing connections	224000/221116/221119
HVAC:		
	Supply/return air system	Div. 23
	Independent temperature control	230923
Electrical:		
	Single-level switching	262726
	Fluorescent lighting	265100
	Illumination level: See Table 8600-5	
	3 duplex receptacles	262726
	Double duplex receptacle adjacent to each data and video port	262726
	Duplex receptacles for office equipment	262726
	Receptacle for copier(if applicable)	262726
Communications:		
T1	1 ***projector*** video port	271543
T2	1 voice port and phone	271513/273123
T3	***Wireless access point cable above ceiling***	271513
	Clock	275313
	Central sound system	275123
T4	***Wireless access point (WAP) as determined by Design – refer to Note 3***	***272133***

NOTES:

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



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

PROGRAM ACTIVITIES:

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

SPATIAL RELATIONSHIPS:

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

ENVIRONMENTAL CONSIDERATIONS:

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

NOTES:

INDIVIDUAL RESTROOM

CT-AC-8

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

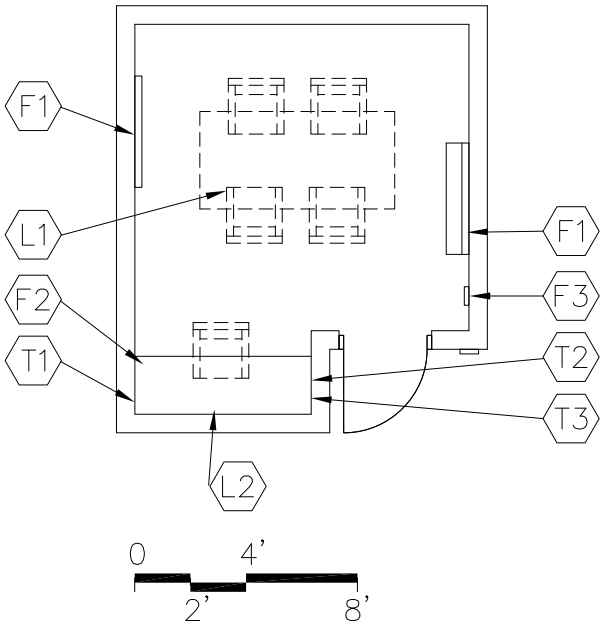
LOOSE FURNISHINGS:

Wastebasket

FEATURES[1]:		Spec. Ref.#
Fixed Items:		
F1	Towel dispenser	102813
F2	24" x 60" mirror	102813
F3	Toilet tissue holder	102813
F4	36" and 42" grab bar	102813
F5	Soap dispenser	102813
F6	Shelf above sink (optional)	102813
F7	Coat hook	102813
F8	Cabinet above toilet (optional)	102813
Fire Suppression:		
	Fire suppression system	211000
Plumbing:		
	Wall-mounted water closet	224000
	Wall-mounted lavatory	224000
	Plumbing connections	224000/221116/221119
HVAC:		
	Exhaust air system	Div. 23
	Supplemental heat as required	Div. 23
Electrical:		
	Single level switching	262726
	Fluorescent lighting	265100
	Illumination level: See Table 8600-***5***	
	1 duplex receptacle	262726
Communications:		
	Central sound system	275123
Electronic Safety and Security:		
	Life safety devices per code	283111
Miscellaneous:		
	N/A	

NOTES:

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



CAPACITY: 4 - 5 students
SIZE: 150 SF

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

SPATIAL RELATIONSHIPS:
- Near academic core classrooms

ENVIRONMENTAL CONSIDERATIONS:
- Environmental sound control -
  wall ***only*** minimum STC ***45***
  ceiling minimum CAC 35, NRC 0.70

NOTES:

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

SMALL GROUP ROOM
CT-AC-9

FINISHES[1]:	Spec. Ref.#
Flooring:	
Carpet, carpet tile	096816
Optional: ET, sheet vinyl,	096500
linoleum, or rubber	096516
	096813
Base:	
Resilient base	096500
Ceiling:	
Suspended, acoustical	095113
Walls:	
Painted concrete masonry units	042000/099100

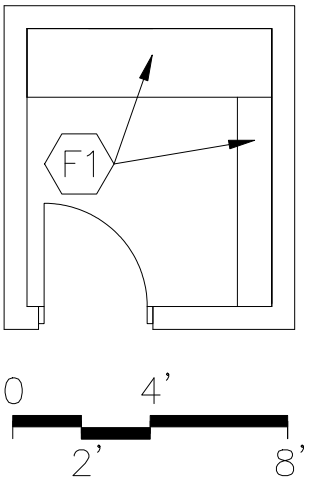
LOOSE FURNISHINGS:
L1 Work tables and chairs
L2 Computer workstation furniture
Wastebasket

FEATURES[1]:		Spec. Ref.#
Fixed Items:		
F1	8'-12' combination marker board, tack board & tackable wall surface	101100
F2	4'-6' of work surface (optional)	123550
F3	Pencil sharpener support (optional)	062000
Fire Suppression:		
	Fire suppression system	211000
Plumbing:		
	N/A	
HVAC:		
	Supply/return air system	Div. 23
	Independent temperature control (coupled with similarly loaded adjacent spaces)	230923
Electrical:		
	Fluorescent lighting: Illumination level: See Table 8600-5	265100
	4 duplex receptacles	262726
	Double duplex receptacle adjacent to each data and video port	262726
Communications:		
T1	1 ***projector*** video port	271543
T2	1 voice port	271513/273123
T3	1 data port	271513
	Clock	275313
	Central sound system	275123
Electronic Safety and Security:		
	Life safety devices per code	283111
Miscellaneous:		
	Pencil sharpener (optional)	
	Interior window(optional)	081113/088000

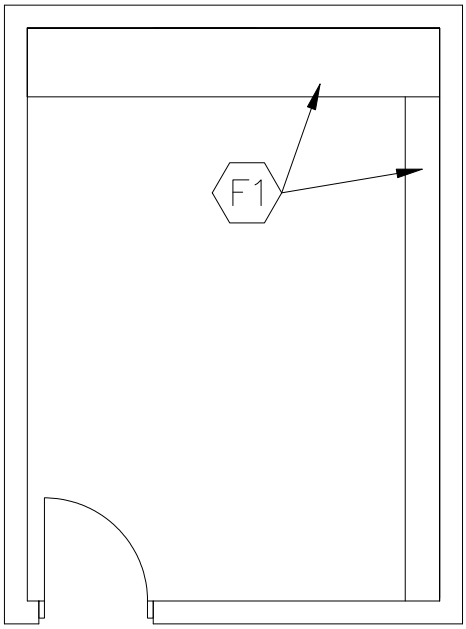
NOTES:

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

50 SF



120 SF



CAPACITY: N/A
SIZE: 50 - 120 SF

PROGRAM ACTIVITIES:
- Storage of supplies, textbooks, and equipment

SPATIAL RELATIONSHIPS:
- Near teacher prep workroom

ENVIRONMENTAL CONSIDERATIONS:
N/A

NOTES:

MATERIAL STORAGE

CT-AC-10

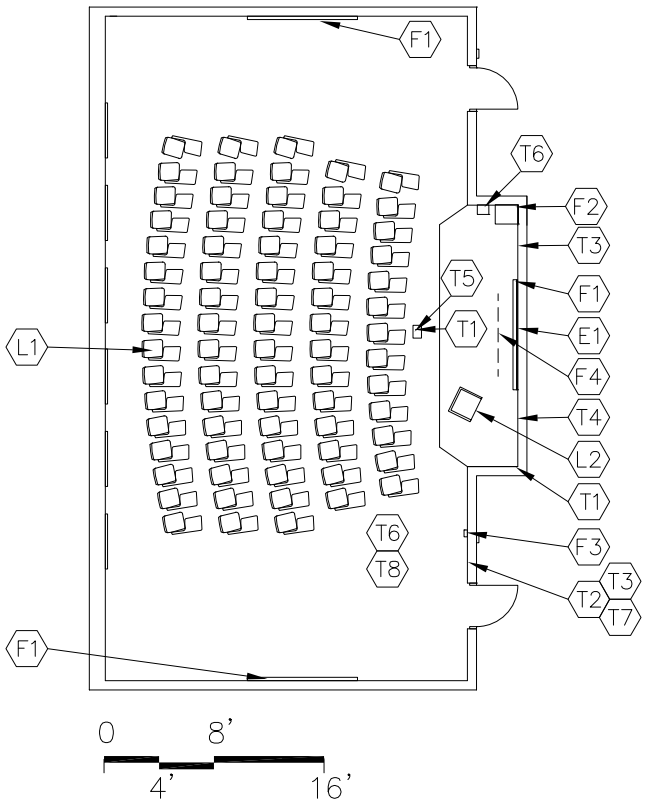
FINISHES[1]:	Spec. Ref.#
Flooring:	
Rubber, ***linoleum, ET, or***	096500
sheet vinyl	***096516***
Base:	
Resilient base	096500
Ceiling:	
Suspended, acoustical	095113
Walls:	
Painted concrete masonry	042000/099100

LOOSE FURNISHINGS:
N/A

FEATURES[1]:	Spec. Ref.#
Fixed Items:	
F1 30' of open shelving	
depths may vary (fixed or loose)	123550
Option: mobile storage shelving	105626
Fire Suppression:	
Fire suppression system	211000
Plumbing:	
N/A	
HVAC:	
To be determined by Design Professional	
Supplemental heat as required	Div. 23
Electrical:	
Single level switching	262726
Fluorescent lighting	265100
Illumination level: See Table 8600-***5***	
1 duplex receptacle	262726
Communications:	
N/A	
Electronic Safety and Security:	
N/A	
Miscellaneous:	
N/A	

NOTES:

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



CAPACITY: 100 students
SIZE: 1,200 - 1,500 SF

PROGRAM ACTIVITIES:
- Group instruction
- Presentations
- Testing
- Community use

SPATIAL RELATIONSHIPS:
- Near academic core classrooms
- Near large group restrooms
- Close to stage to serve as "green" room
- Flexibility of space

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

NOTES:

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

MULTIPURPOSE ROOM
CT-AC-11

FINISHES[1]:	Spec. Ref.#
Flooring:	
Carpet, carpet tile, linoleum, rubber, ET, or sheet vinyl	096816 096813 096500 096516
Base:	
Resilient base	096500
Ceiling:	
Suspended, acoustical	095113
Walls:	
Painted concrete masonry units	042000/099100
Acoustical wall treatment	098000

LOOSE FURNISHINGS:
L1 Student desks and chairs
L2 Podium / console (optional)
Portable risers
Wastebasket

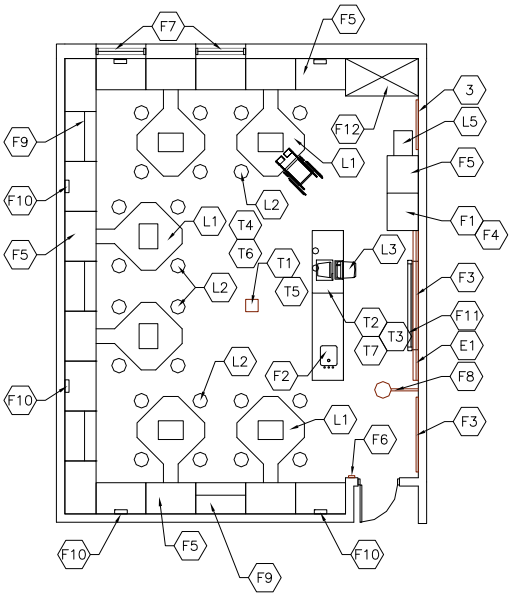
Electronic Safety and Security:	
Life safety devices per code	283111

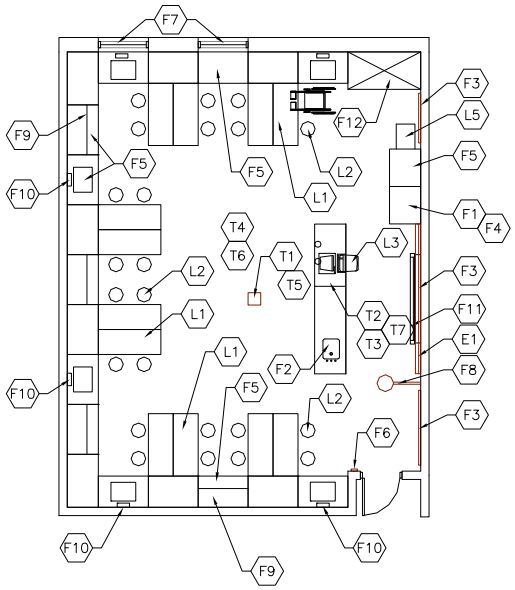
Miscellaneous:
Pencil sharpener (optional)

E1 Duplex receptacle with dedicated circuit for wireless devices

FEATURES[1]:		Spec. Ref.#
Fixed Items:		
F1	16'-28' combination marker board tack board & tackable wall surface	101100
F2	Technology support casework	123550
F3	Pencil sharpener support (optional)	062000
F4	Projection screen (optional)	115213
Fire Suppression:		
	Fire suppression system	211000
Plumbing:		
	N/A	
HVAC:		
	Supply/return air system	Div. 23
	Independent temperature control	230923
Electrical:		
	Fluorescent lighting:	265100
	Illumination level: See Table 8600-5	
	Multilevel switching	262726
	6 duplex receptacles	262726
	Double duplex receptacle adjacent to each data and video port	262726
	Emergency lighting per code	265100
	Means of egress lighting per code	265100
	Telecommunications Grounding	270526/260526
Communications:		
T1	2 ***projector*** video ports	271543
T2	1 voice port and phone	271513/273123
T3	1 data port (minimum)	271513
T4	1 port to input local computer to monitor	271513
	Clock	275313
	Central sound system	275123
T5	***Ultra-short throw interactive*** projector	274119
T6	Student Dining/Cafeteria sound reinforcement system	275122
T7	***Wireless access point (WAP) as determined by Design – refer to Note 3***	***272133***
T7	***Classroom technology center video port***	***271543, 274116, 274119, 275127***
T8	***Wireless access point cable above ceiling***	***271513***

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





CAPACITY: 24 students
SIZE: 1,000 SF
ANCILLARY SPACES: Science Classrooms

PROGRAM ACTIVITIES:

- Large group, small group, and individual instruction
- Group and individual work
- Laboratory experimentation
- Data collection and analysis
- Demonstrations
- Project work

SPATIAL RELATIONSHIPS:

- Adjacent to other science classrooms
- Near science prep room

ENVIRONMENTAL CONSIDERATIONS:

- Required: View glass – minimum 5% without daylighting design; minimum 3% with daylighting design.
  Recommended: Daylighting design with glazing area determined by design solution.
- Environmental sound control -
  wall only minimum STC 45
  ceiling minimum CAC 35, NRC 0.70
- Higher than normal ventilation requirements
- Moisture- and stain-resistant finishes
- Chemical-resistant counter tops

NOTES:

1. Loose furnishings shown represent one of many possible arrangements.
2. Science casework layout to be determined by the school district.
3. Depending upon the educational program of the district, a tall wardrobe may be placed in this classroom or could be placed in a teacher prep area/workroom.
4. The layouts shown do not restrict or reflect the variety of arrangements available to the Design Professional.

SCIENCE LABORATORY

CT-AC-12

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

LOOSE FURNISHINGS:

L1 Student work tables
L2 Student stools/chairs
L3 Teacher chair or stool
L4 Computer workstation furniture
L5 File cabinet
Wastebasket

L4 Could be fixed casework

Miscellaneous: (Optional)
Pencil sharpener

Electronic Safety and Security:

Life safety devices per code	283111

Miscellaneous:
Pencil sharpener (optional)

E1 Duplex receptacle with dedicated circuit for wireless devices

Communications (cont'd):

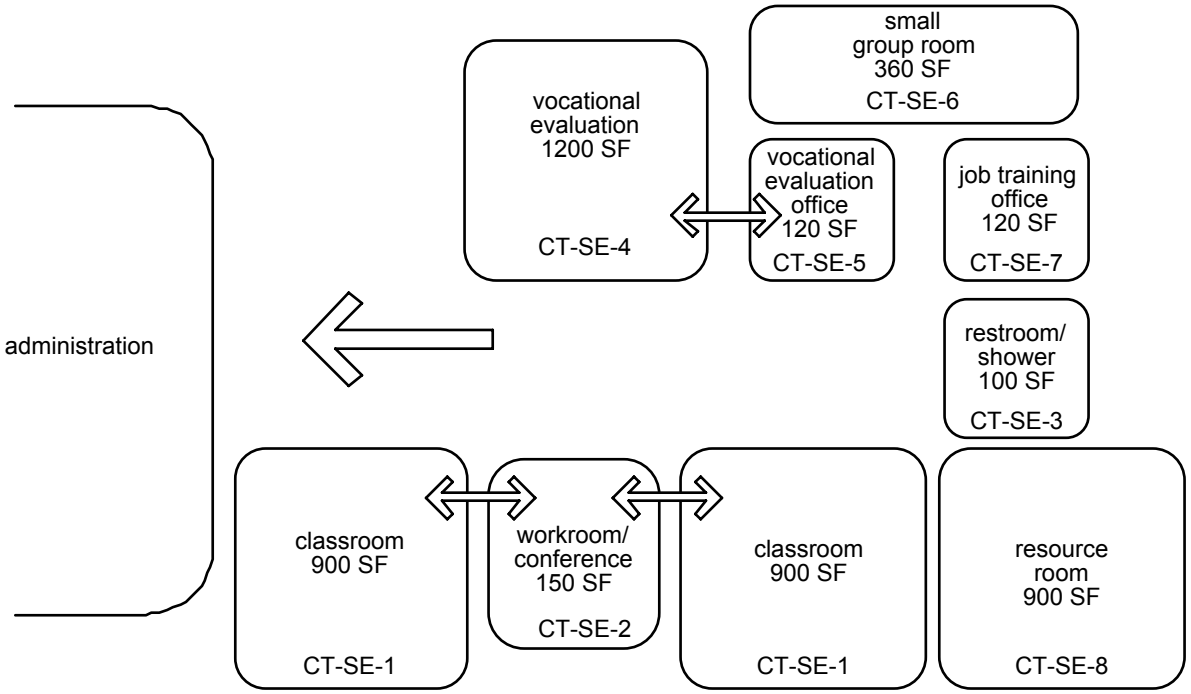
T6 Wireless access point (WAP) as determined by Design – refer to Note 4 272133

T7 Classroom technology center video port 271543, 274116, 274119, 275127

FEATURES[1]:		Spec. Ref.#
Fixed Items:		
F1	***T***all wardrobe with file drawers	123553
F2	Demonstration table/teacher desk	123553
F3	14'-22' combination chalk/marker board, tack board & tackable wall surface	101100
F4	Technology support casework	123550
F5	40'-60' lab casework with sinks	123553
F6	Pencil sharpener support (optional)	062000
F7	Windows with integral blinds	085113
F8	Emergency shower/eyewash	224000
F9	18'-24' of wall cabinets (optional)	123553
F10	Towel dispensers (optional)	102813
F11	Projection screen (optional)	115213
F12	Fume hood	115313
F13	Tall cabinet for microscopes(optional)	123550
Fire Suppression:		
	Fire suppression system	211000
Plumbing:		
	Plumbing connections	224000/221116/221119
	Emergency shower/eyewash connections	224000
	Master shut-off for gas	226313
	Gas connections	226313
	Compressed air connections (optional)	221500
	Acid waste piping	221316
	Neutralization tank	221323
HVAC:		
	Supply/return air system	Div. 23
	Independent temp control	230923
	Manual exhaust	Div. 23
	Exhaust for fume hood	Div. 23
Electrical:		
	Fluorescent lighting: Illumination level: See Table 8600-5	265100
	Multilevel switching	262726
	Duplex receptacles at perimeter workstations and teaching wall	262726
	Double duplex receptacle adjacent to each data and video port	262726
	Emergency lighting	265100
	Means of egress lighting per code	265100
Communications:		
T1	1 ***projector*** video port	271543
T2	1 voice port and phone	271513/273123
T3	1 data port at demonstration table	271513
T4	***Wireless access point cable above ceiling***	271513
	Central sound system	275123
	Clock	275313
	Sound reinforcement system	275127
T5	***Ultra-short throw interactive*** projector	274119

NOTES:

1. Finishes/Features: Refer to Chapter 9 for specification references.
2. Technology components may be placed in a separate small cabinet, or integrated in the other casework in the room.
3. Master gas shutoff valve shall be clearly labeled, easily accessible, and immediately operable by staff.
4. ***Baseline includes WAP cable per classroom. WAP device quantity / placement per 272133 requirements.***



NOTES:

This is an example of how the special education/student services spaces in a career-technical 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:

CT-SE-1 Classroom
CT-SE-2 Workroom/Conference
CT-SE-3 Restroom/Shower
CT-SE-4 Career Technical Evaluation
CT-SE-5 Career Technical Evaluation Office
CT-SE-6 Small Group Room
CT-SE-7 Job Training Office
CT-SE-8 Resource Room

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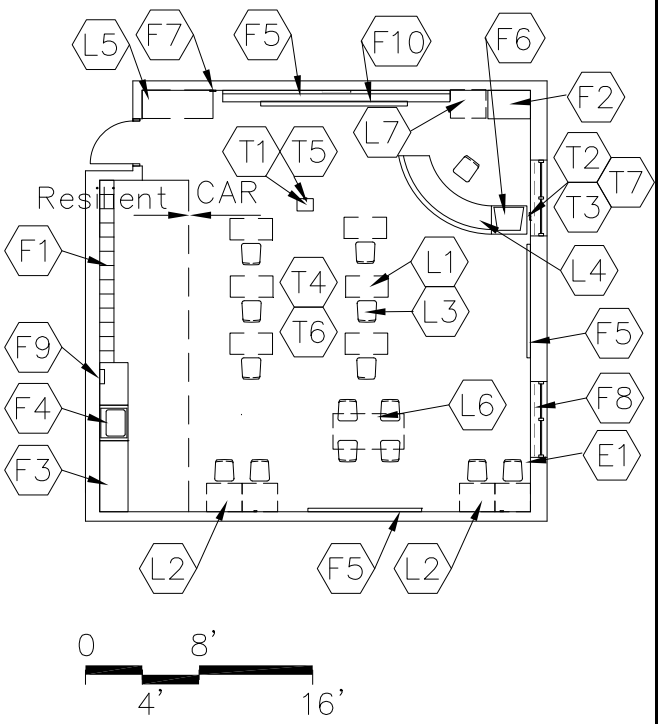


CAPACITY: Based on disability. See Chapter 1, Section 1110.

SIZE: 900 SF

PROGRAM ACTIVITIES:

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

SPATIAL RELATIONSHIPS:

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

ENVIRONMENTAL CONSIDERATIONS:

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

NOTES:

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

CLASSROOM
CT-SE-1

FINISHES[1]:	Spec. Ref.#
Flooring:	
Combination carpet, carpet tile	096816
with resilient options	096500
Optional: All ET, sheet vinyl,	096516
linoleum, or rubber	096813
Base:	
Resilient base	096500
Ceiling:	
Suspended, acoustical	095113
Walls:	
Painted concrete masonry units	042000/099100

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

EQUIPMENT(optional)
- Washer and dryer
- Small refrigerator
- Range
- Oven
- Microwave

Electronic Safety and Security:	
Life safety devices per code	283111

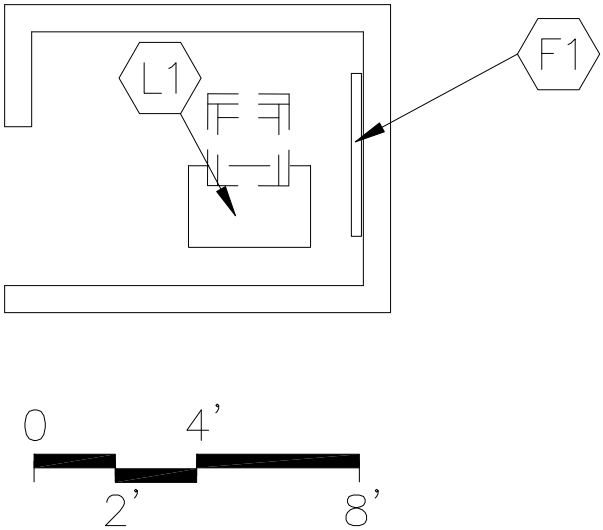
Miscellaneous:
Pencil sharpener (optional)

E1 Duplex receptacle with dedicated circuit for wireless devices

FEATURES[1]:		Spec. Ref.#
Fixed Items:		
F1	Open casework – student coats and personal items with wall cabinets above	123550
F2	Tall wardrobe w/file drawers	123550
F3	8'-10' of base & wall cabinets	123550
F4	3' sink base cabinet	123550
F5	24'-32' combination marker board tack board and tackable wall surface	101100
F6	Technology support casework	123550
F7	Pencil sharpener support (optional)	062000
F8	Windows with integral blinds	085113
F9	Towel dispenser (optional)	102813
F10	Projection screen (optional)	115213
F11	Tall storage cabinet(optional)	123550
F12	Mirror (optional)	102813
Fire Suppression:		
	Fire suppression system	211000
Plumbing:		
	Sink with drinking fountain	224000
	Plumbing connections	224000/221116/221119
HVAC:		
	Supply/return air system	Div. 23
	Independent temperature control	230923
Electrical:		
	Fluorescent lighting	265100
	Illumination level: See Table 8600-5	
	Multilevel switching	262726
	4 duplex receptacles	262726
	Double duplex receptacle adjacent to each data and video port	262726
Communications:		
T1	1 ***projector*** video port	271543
T2	1 voice port and phone	271513/273123
T3	1 data port near teacher workstation	271513
T4	***Wireless access point cable above ceiling***	271513
	Clock	275313
	Sound reinforcement system	275127
	Central sound system	275123
T5	***Ultra-short throw interactive*** projector	274119
T6	***Wireless access point (WAP) as determined by Design – refer to Note 3***	***272133***
T7	***Classroom technology center video port***	***271543, 274116, 274119, 275127***

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

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



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 special education classroom or 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

CT-SE-2 (Quiet Area)

FINISHES[1]:	Spec. Ref.#
Flooring:	
Carpet, carpet tile, ET, linoleum, or sheet vinyl	096816 096500 096516 096813
Base:	
Resilient base	096500
Ceiling:	
Suspended, acoustical	095113
Walls:	
Painted concrete masonry units	042000/099100

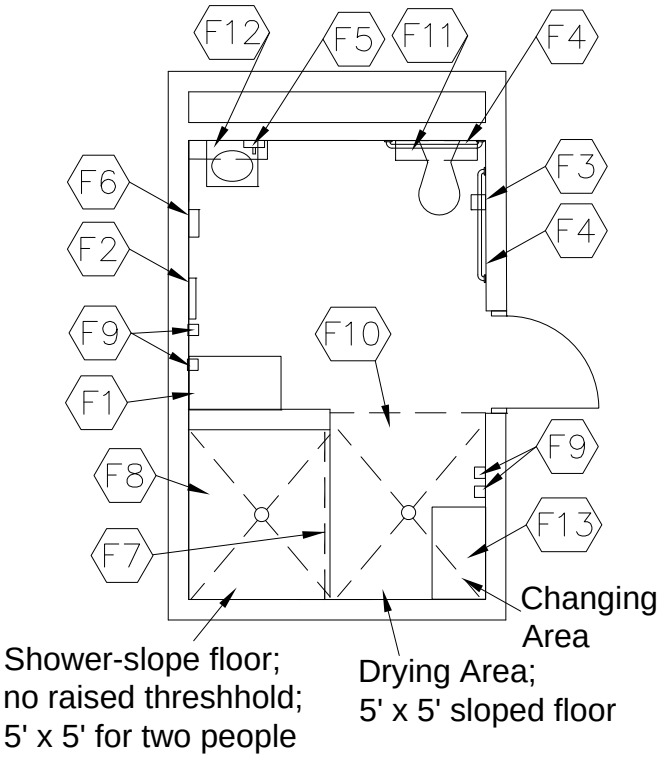
LOOSE FURNISHINGS:

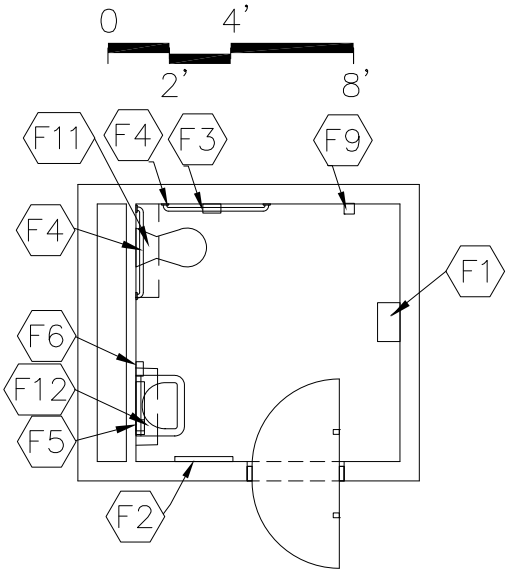
L1 Student desk and chair
Wastebasket

FEATURES[1]:	Spec. Ref.#
Fixed Items:	
F1 4' of tack board (optional)	101100
Fire Suppression:	
Fire suppression system	211000
Plumbing:	
N/A	
HVAC:	
Supply/return air system	Div. 23
Independent temperature control	230923
Electrical:	
Dimmable lighting	262726
Fluorescent lighting	265100
Illumination level: See Table 8600-***5***	
1 duplex receptacle	262726
Communications:	
Clock (optional)	275313
Electronic Safety and Security:	
Life safety devices per code	283111
Miscellaneous:	
Interior window with blinds (optional)	081113/088000

NOTES:

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





CAPACITY: 1 - 2 persons
SIZE: 100 SF

PROGRAM ACTIVITIES:
- Changing area
- Toilet / shower needs

SPATIAL RELATIONSHIPS:
- Next to special education classroom

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

NOTES:

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

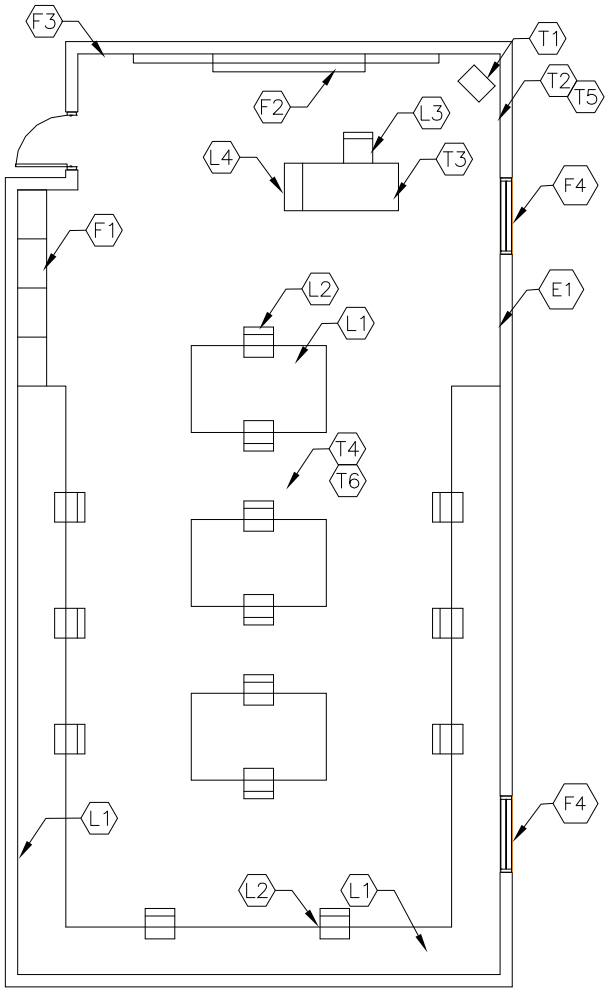
RESTROOM/SHOWER

CT-SE-3

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

FEATURES[1]:	Spec. Ref.#
Fixed Items:	
F1 Base cabinets	123550
F2 24" x 60" mirror	102813
F3 Toilet tissue holder	102813
F4 36" and 42" grab bar	102813
F5 Soap dispenser	102813
F6 Towel dispenser	102813
F7 Shower curtain and rod	102813
F8 ADA shower accessories	102813
F9 (2) hooks	102813
F10 Cubicle curtain (optional)	102813
F11 8" deep wall cabinet above toilet	102813
F12 Shelf (optional)	102813
F13 Changing station or fold-down adult changing station	123550
Fire Suppression:	
Fire suppression system	211000
Plumbing:	
Wall-mounted water closet	224000
Wall-mounted lavatory	224000
ADA shower controls and head	224000
Plumbing connections	224000/221116/221119
HVAC:	
Exhaust air system	Div. 23
Supplemental heat as required	Div. 23
Electrical:	
Single level switching	262726
Fluorescent lighting	265100
Illumination level: See Table 8600-***5***	
1 duplex receptacle	262726
Communications:	
Central sound system	275123
Electronic Safety and Security:	
Life safety devices per code	283111
Miscellaneous:	
N/A	

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



CAPACITY: Based on disability. See Chapter 1, Section 1110.
SIZE: 1200 SF
ANCILLARY SPACES: Career Technical Office CT-SE-5

PROGRAM ACTIVITIES:

- Testing of students' vocational interests and capabilities via physical aptitude exercises.

SPATIAL RELATIONSHIPS:

- Adjacent to career technical evaluation office
- Near workroom/conference
- Near administrative area

ENVIRONMENTAL CONSIDERATIONS:

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

NOTES:

1. Loose furnishings 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.

CAREER TECHNICAL EVALUATION

CT-SE-4

FINISHES[1]:	Spec. Ref.#
Flooring:	
Carpet, carpet tile	096816
	096813
Base:	
Resilient base	096500
Ceiling:	
Suspended, acoustical	095113
Walls:	
Painted concrete masonry units	042000 / 099100
Optional: Gypsum drywall on metal studs	092116 / 099100

LOOSE FURNISHINGS:

L1 Student desk/tables
L2 Student chairs
L3 Teacher desk and chair
L4 Desk height file cabinet
Wastebasket

Electronic Safety and Security:	
Life safety devices per code	283111

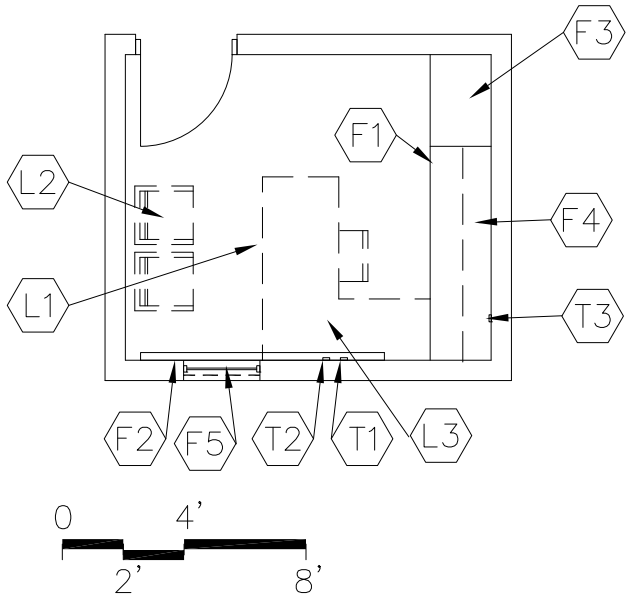
Miscellaneous:
Pencil sharpener (optional)

E1 Duplex receptacle with dedicated circuit for wireless devices

FEATURES[1]:	Spec. Ref.#
Fixed Items:	
F1 Open casework - coats	123550
F2 8'-12' of marker board, tack board, or tackable wall surface	101000
F3 Pencil sharpener support (optional)	062000
F4 Windows with intregal blinds	085113
Fire Suppression:	
Fire suppression system	211000
Plumbing:	
N/A	
HVAC:	
Supply/return air system	Div. 23
Independent temperature control	230923
Electrical:	
Fluorescent lighting	265100
Illumination level: See Table 8600-5	
Multilevel switching	262726
4 duplex receptacles	262726
Double duplex receptacle adjacent to each data and video port	262726
Communications:	
T1 1 ***projector*** video port and video display device	271543
T2 1 voice port and phone	271513/273123
T3 1 data port near teacher workstation	271513
T4 ***Wireless access point cable above ceiling***	271513
Central sound system	275123
Clock	275313
T5 Classroom technology center video port	***271543, 274116, 274119, 275127***
T6 Wireless access point (WAP) as determined by Design – refer to Note 2	***272133***

NOTES:

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



CAPACITY: 1 - 3 persons
SIZE: 120 SF
ANCILLARY SPACES: Career Technical Eval
CT-SE-4

PROGRAM ACTIVITIES:

- Private space for vocational evaluation coordinator
- One-on-one conferences with academic instructors, students, etc.

SPATIAL RELATIONSHIPS:

- Near career technical evaluation room
- Near administrative area
- Direct access to school circulation areas

ENVIRONMENTAL CONSIDERATIONS:

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

NOTES:

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

CAREER TECHNICAL EVALUATION OFFICE

CT-SE-5

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

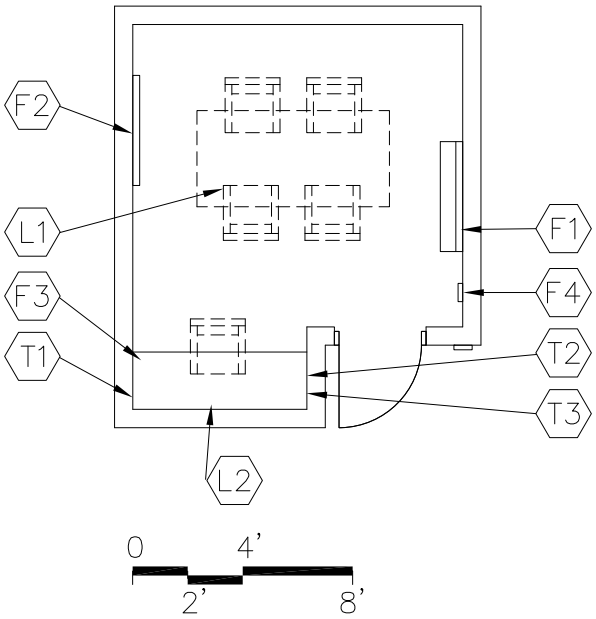
LOOSE FURNISHINGS:

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

FEATURES[1]:	Spec. Ref.#
Fixed Items:	
F1 Work surface with file drawers	123550
F2 4' of tack board or tackable wall surface	101100
F3 Tall wardrobe	123550
F4 Wall cabinets above work surface	123550
F5 Window with integral blind	085116
Fire Suppression:	
Fire suppression system	211000
Plumbing:	
N/A	
HVAC:	
Supply/return air system	Div. 23
Independent temperature control (coupled with similarly loaded adjacent spaces)	230923
Electrical:	
Single level switching	262726
Fluorescent lighting	265100
Illumination level: See Table 8600-5	
4 duplex receptacles	262726
Double duplex receptacle adjacent to data and video port	262726
Communications:	
T1 1 voice port and phone	271513/273123
T2 1 data port near workstation	271513
T3 1 ***projector*** video port	271543
Central sound system	275123
Clock	275313
Electronic Safety and Security:	
Life safety devices per code	283111
Miscellaneous:	
N/A	

NOTES:

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



CAPACITY: 4 - 5 students
SIZE: 360 SF

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

SPATIAL RELATIONSHIPS:
- Near special education classrooms

ENVIRONMENTAL CONSIDERATIONS:
- Environmental sound control -
  wall ***only*** minimum STC ***45***
  ceiling minimum CAC 35, NRC 0.70

NOTES:

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

SMALL GROUP ROOM
CT-SE-6

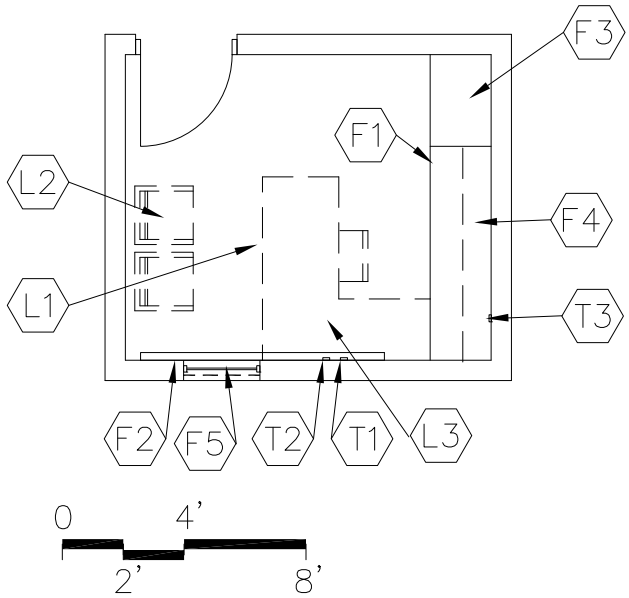
FINISHES[1]:	Spec. Ref.#
Flooring:	
Carpet, carpet tile	096816
Optional: ET, sheet vinyl,	096500
linoleum, or rubber	096516
	096813
Base:	
Resilient base	096500
Ceiling:	
Suspended, acoustical	095113
Walls:	
Painted concrete masonry units	042000/099100

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

FEATURES[1]:		Spec. Ref.#
Fixed Items:		
F1	8'-10' of marker board, tack board, or tackable wall surface	101100
F2	Reserved	101100
F3	4'-6' of work surface (optional)	123550
F4	Pencil sharpener support (optional)	062000
Fire Suppression:		
	Fire suppression system	211000
Plumbing:		
	N/A	
HVAC:		
	Supply/return air system	Div. 23
	Independent temperature control (coupled with similarly loaded adjacent spaces)	230923
Electrical:		
	Fluorescent lighting: Illumination level: See Table 8600-5	265100
	4 duplex receptacles	262726
	Double duplex receptacle adjacent to each data and video port	262726
Communications:		
T1	1 ***projector*** video port	271543
T2	1 voice port	271513/273123
T3	1 data port	271513
	Clock	275313
	Central sound system	275123
Electronic Safety and Security:		
	Life safety devices per code	283111
Miscellaneous:		
	Interior window(optional)	081113/088000
	Pencil sharpener (optional)	

NOTES:

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



PROGRAM ACTIVITIES:

- Private space for job training coordinator
- One-on-one conferences with academic instructors, students, etc.

SPATIAL RELATIONSHIPS:

- Near career technical evaluation room
- Near administrative area
- Direct access to school circulation areas

ENVIRONMENTAL CONSIDERATIONS:

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

CAPACITY: 1 - 3 persons
SIZE: 120 SF
ANCILLARY SPACES:

NOTES:

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

JOB TRAINING OFFICE
CT-SE-7

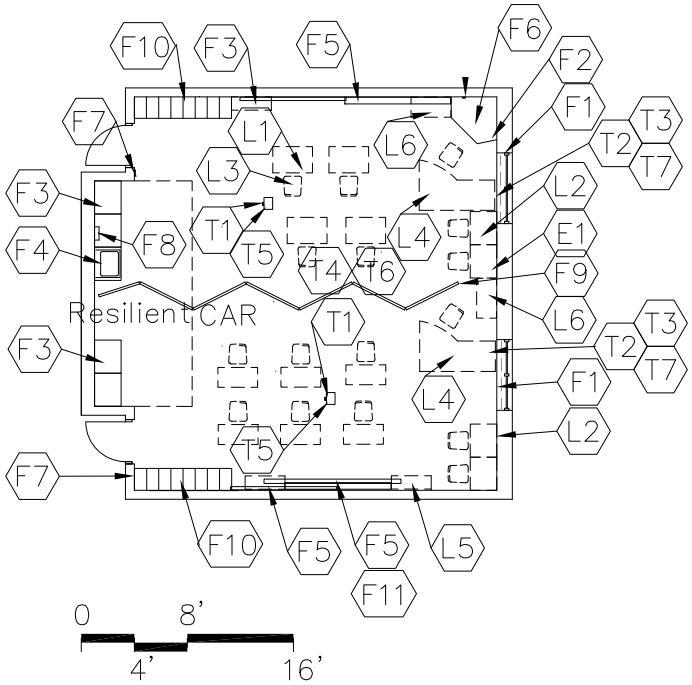
FINISHES[1]:	Spec. Ref.#
Flooring:	
Carpet or Carpet Tile	096816
	096813
Base:	
Resilient base	096500
Ceiling:	
Suspended, acoustical	095113
Walls:	
Painted gypsum wallboard over metal studs	092116/099100

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

FEATURES[1]:	Spec. Ref.#
Fixed Items:	
F1 Work surface with file drawers	123550
F2 4' of tack board or tackable wall surface	101100
F3 Tall wardrobe	123550
F4 Wall cabinets above work surface	123550
F5 Window with integral blind	085116
Fire Suppression:	
Fire suppression system	211000
Plumbing:	
N/A	
HVAC:	
Supply/return air system	Div. 23
Independent temperature control (coupled with similarly loaded adjacent spaces)	230923
Electrical:	
Single level switching	262726
Fluorescent lighting	265100
Illumination level: See Table 8600-5	
4 duplex receptacles	262726
Double duplex receptacle adjacent to data and video port	262726
Communications:	
T1 1 voice port and phone	271513/273123
T2 1 data port near workstation	271513
T3 1 ***projector*** video port	271543
Central sound system	275123
Clock	275313
Electronic Safety and Security:	
Life safety devices per code	283111
Miscellaneous:	
N/A	

NOTES:

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



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

SIZE: 900 SF

PROGRAM ACTIVITIES:

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

SPATIAL RELATIONSHIPS:

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

ENVIRONMENTAL CONSIDERATIONS:

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

NOTES:

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

RESOURCE ROOM
CT-SE-8

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

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

Electronic Safety and Security:

Life safety devices per code	283111

Miscellaneous:
- Pencil sharpener (optional)

E1 Duplex receptacle with dedicated circuit for wireless devices

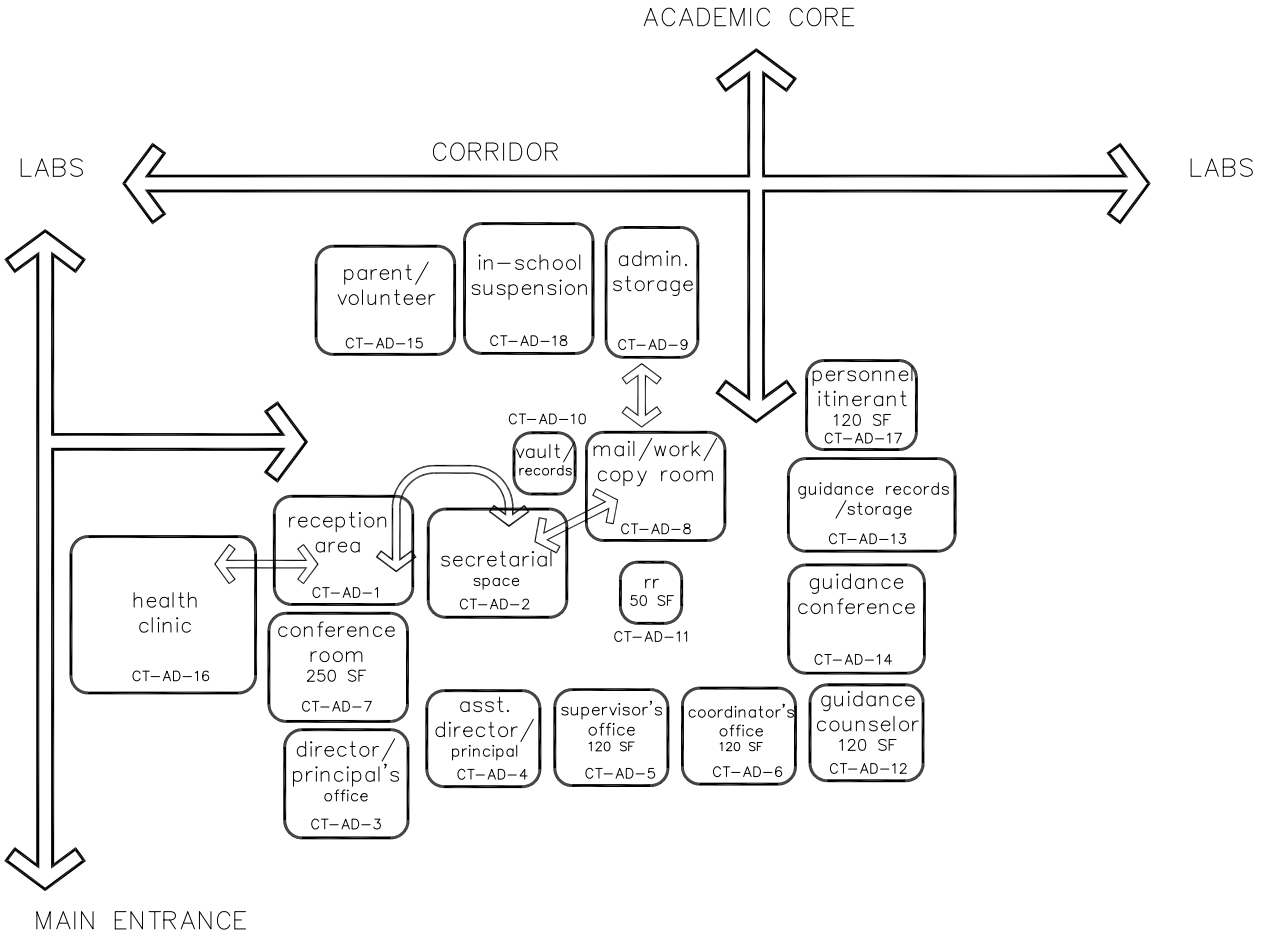
Communications (cont'd):

T6 Wireless access point (WAP) as determined by Design – refer to Note 3 272133

T7 Classroom technology center video port 271543, 274116, 274119, 275127

FEATURES[1]:	Spec. Ref.#
Fixed Items:	
F1 Windows with integral blinds	085113
F2 Tall wardrobe with file drawers	123550
F3 8'-12' of base cabinets	123550
F4 3' sink base cabinet	123550
F5 20'-32' combination chalk/marker board, tack board, tackable wall surface	101100
F6 Technology support casework	123550
F7 Pencil sharpener support (optional)	062000
F8 Towel dispenser (optional)	102813
F9 Operable partition (optional)	102226
F10 Open casework coats and personal storage w/wall cabinets above	123550
F11 Projection screen (optional)	115213
F12 Mobile storage cabinet (optional)	123550
F13 Mirror (optional)	102813
Fire Suppression:	
Fire suppression system	211000
Plumbing:	
Sink	224000
Plumbing connections	224000/221116/221119
HVAC:	
Supply/return air system	Div. 23
Independent temperature control	230923
Electrical:	
Fluorescent lighting	265100
Illumination level: See Table 8600-5	
Multilevel switching	262726
4 duplex receptacles	262726
Double duplex receptacle adjacent to each data and video port	262726
Communications:	
T1 1 ***projector*** video port	271543
T2 1 voice port and phone	271513/237123
T3 1 data port near each teacher workstation	271513
T4 ***Wireless access point cable above ceiling***	271513
Clock	275313
Sound reinforcement system	275127
Central sound system	275123
T5 ***Ultra-short throw interactive*** projector	***274119***

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



NOTE:
This is an example of how the administrative spaces in a career-technical school could be arranged. This is only meant to demonstrate the relationships between various areas of the building.

Following are the Administrative space plates for the following rooms:

CT-AD-1	Reception Area	CT-AD-10	Vault/Records
CT-AD-2	Secretarial Space	CT-AD-11	Restroom
CT-AD-3	Director/Principal's Office	CT-AD-12	Guidance Counselor
CT-AD-4	Assistant Director/Principal's Office	CT-AD-13	Guidance Records/Storage
CT-AD-5	Supervisor's Office	CT-AD-14	Guidance Conference
CT-AD-6	Coordinator's Office	CT-AD-15	Parent/Volunteer
CT-AD-7	Conference Room	CT-AD-16	Health Clinic ***(includes restroom)***
CT-AD-8	Mail/Work/Copy room	CT-AD-17	Itinerant Personnel
CT-AD-9	Administrative Storage	CT-AD-18	In-school Suspension

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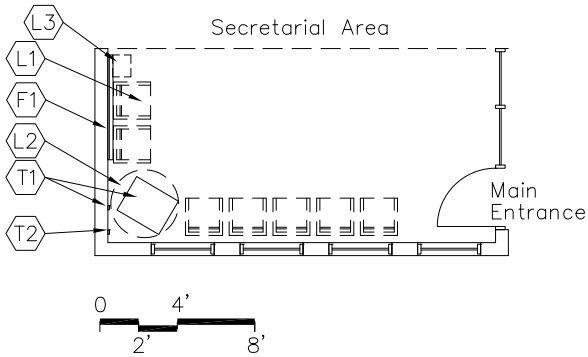
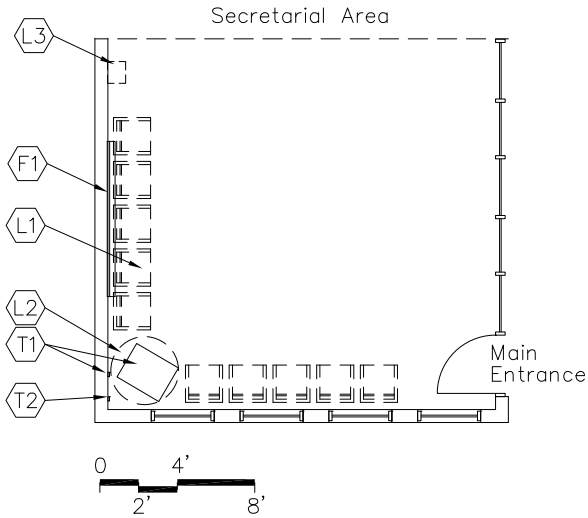
200 SF



500 SF



CAPACITY: 6 - 8 or 8 - 10 visitors
SIZE: 200 – 500 SF
ANCILLARY SPACES: Secretarial Area
CT-AD-2

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

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

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

NOTES:

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

RECEPTION AREA

CT-AD-1

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

LOOSE FURNISHINGS:

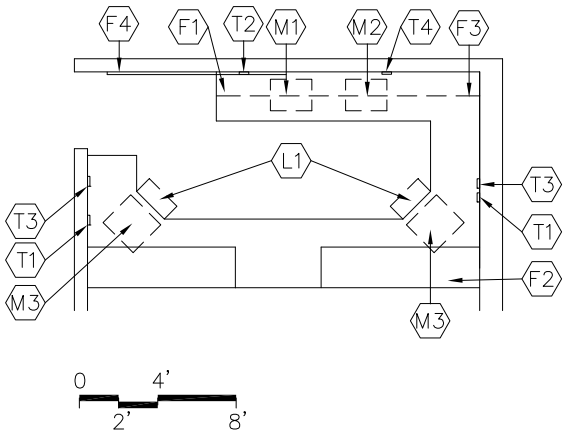
L1 Visitor chairs
L2 End table
L3 Racks for forms (optional)
Wastebasket

FEATURES[1]:	Spec. Ref.#
Fixed Items:	
F1 Tack board or tackable wall surface (optional)	101100
Fire Suppression:	
Fire suppression system	211000
Plumbing:	
N/A	
HVAC:	
Supply/return air system	Div. 23
Independent temperature control	230923
Electrical:	
Single level switching	262726
Fluorescent lighting	265100
Illumination level: See Table 8600-5	
2 duplex receptacles	262726
Double duplex receptacle adjacent to video port	262726
Means of egress lighting per code	265100
Communications:	
T1 1 ***projector*** video port, monitor, and brackets	271543/274119
T2 1 voice port and phone	271513/273123
Clock	275313
Central sound system	275123
Electronic Safety and Security:	
Life safety devices per code	283111
Miscellaneous:	
Interior windows	081113/088000

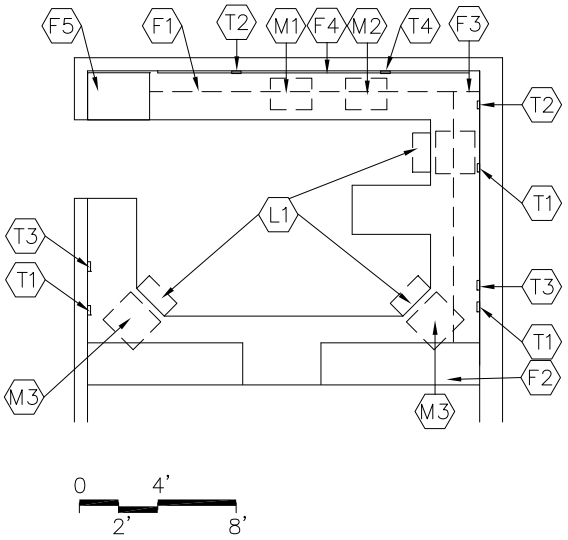
NOTES:

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

200 SF ADA Compliant Approach



500 SF ADA Compliant Approach



CAPACITY:	1 - 2 or 2 - 3 staff
SIZE:	200 – 500 SF
ANCILLARY SPACES:	Reception Area CT-AD-1

PROGRAM ACTIVITIES:

- Conduct administrative support duties, and receive and direct visitors

SPATIAL RELATIONSHIPS:

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

ENVIRONMENTAL CONSIDERATIONS:

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

NOTES:

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

SECRETARIAL AREA

CT-AD-2

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

LOOSE FURNISHINGS:

L1 Secretarial chairs
Wastebasket

Miscellaneous:

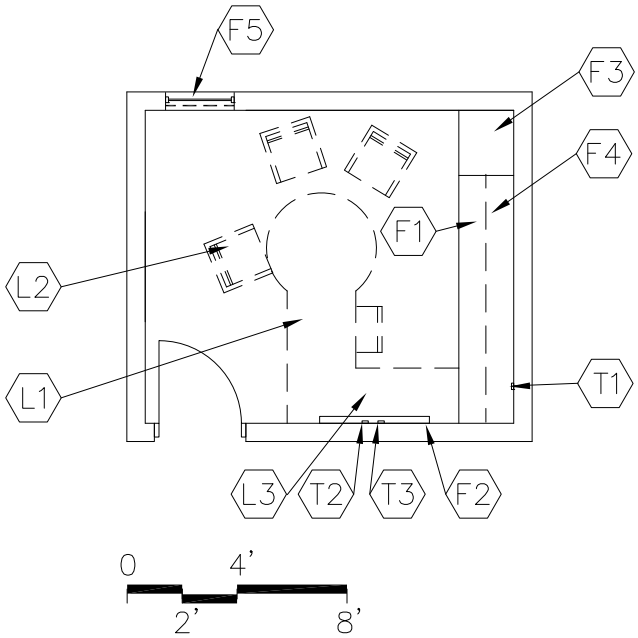
The following items are to be funded by the school district:

M1 Fax machine
M2 Printer
M3 Computer/typewriter

FEATURES[1]:	Spec. Ref.#
Fixed Items[2]:	
F1 24' - 60' of work surface with file drawers	123550
F2 42" high counter top with portion of counter 34" high or lower	123550
F3 16'-24' of wall cabinets for forms, supplies, books, and manuals	123550
F4 Tackable wall surface (optional)	101100
F5 Tall cabinet for coats (optional)	123550
Fire Suppression:	
Fire suppression system	211000
Plumbing:	
N/A	
HVAC:	
Supply/return air system	Div. 23
Temperature control with reception area (coupled with similarly loaded adjacent spaces)	230923
Electrical:	
Single level switching	262726
Fluorescent lighting	265100
Illumination level: See Table 8600-***5***	
3 duplex receptacles	262726
Double duplex receptacle adjacent to each data port	262726
Emergency lighting	265100
Communications:	
T1 1 voice port and phone at each secretarial workstation	271513/***273123***
T2 1 fax port	271513/273113
T3 1 data port at each secretarial workstation	271513
T4 1 data port for printer	271513
Central sound system	275123
Clock	275313
Electronic Safety and Security:	
Life safety devices per code	283111

NOTES:

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



CAPACITY: 1 - 4 persons
SIZE: 150 SF

PROGRAM ACTIVITIES:

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

SPATIAL RELATIONSHIPS:

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

ENVIRONMENTAL CONSIDERATIONS:

- 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.

DIRECTOR / PRINCIPAL'S OFFICE

CT-AD-3

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

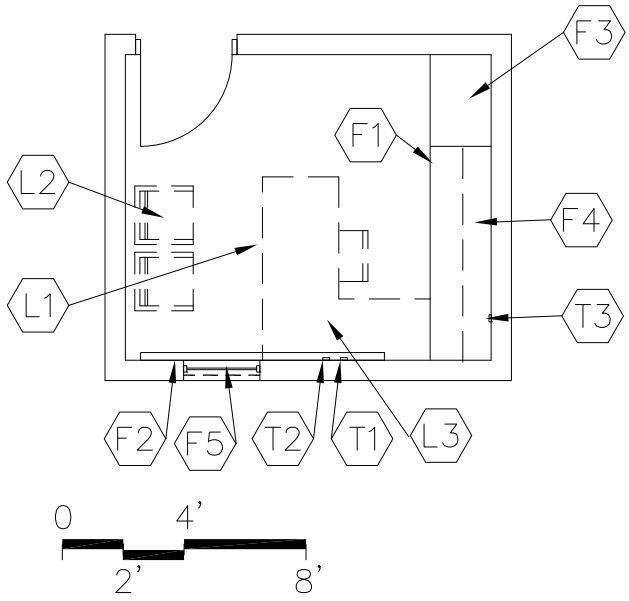
LOOSE FURNISHINGS:

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

FEATURES[1]:	Spec. Ref.#
Fixed Items:	
F1 Work surface with file drawers	123550
F2 4' of tack board or tackable wall surface	101100
F3 Tall wardrobe (optional)	123550
F4 Wall cabinets above work surface	123550
F5 Window with integral blind	085116
Fire Suppression:	
Fire suppression system	211000
Plumbing:	
N/A	
HVAC:	
Supply/return air system	Div. 23
Independent temperature control (coupled with similarly loaded adjacent spaces)	230923
Electrical:	
Single level switching	262726
Fluorescent lighting	265100
Illumination level: See Table 8600-5	
4 duplex receptacles	262726
Double duplex receptacle adjacent to each data and video port	262726
Communications:	
T1 1 ***projector*** video port	271543
T2 1 voice port and phone	271513/273123
T3 1 data port near workstation	271513
Central sound system	275123
Clock	275313
Electronic Safety and Security:	
Life safety devices per code	283111
Miscellaneous:	
N/A	

NOTES:

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



CAPACITY: 1 - 3 persons
SIZE: 120 SF

PROGRAM ACTIVITIES:

- Assist director/principal in administrative tasks
- One-on-one conferences with academic instructors

SPATIAL RELATIONSHIPS:

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

ENVIRONMENTAL CONSIDERATIONS:

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

NOTES:

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

ASSISTANT DIRECTOR / PRINCIPAL'S OFFICE

CT-AD-4

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

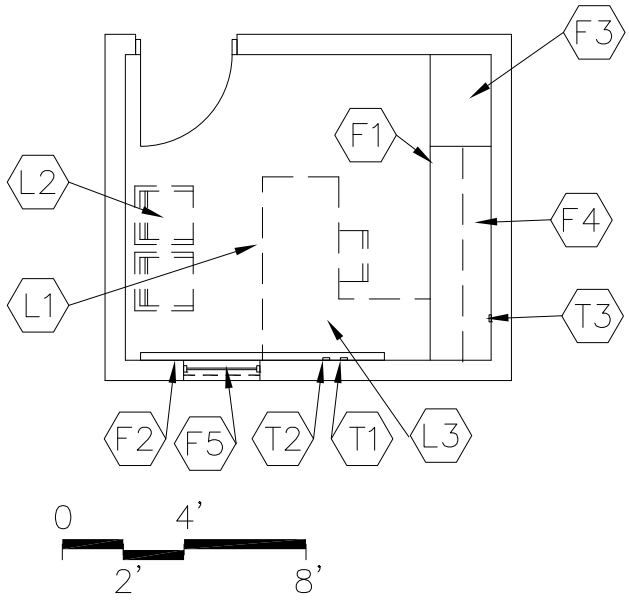
LOOSE FURNISHINGS:

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

FEATURES[1]:	Spec. Ref.#
Fixed Items:	
F1 Work surface with file drawers	123550
F2 4' of tack board or tackable wall surface	101100
F3 Tall wardrobe	123550
F4 Wall cabinets above work surface	123550
F5 Window with integral blind	085116
Fire Suppression:	
Fire suppression system	211000
Plumbing:	
N/A	
HVAC:	
Supply/return air system	Div. 23
Independent temperature control (coupled with similarly loaded adjacent spaces)	230923
Electrical:	
Single level switching	262726
Fluorescent lighting	265100
Illumination level: See Table 8600-5	
4 duplex receptacles	262726
Double duplex receptacle adjacent to data and video port	262726
Communications:	
T1 1 voice port and phone	271513/273123
T2 1 data port near workstation	271513
T3 1 ***projector*** video port	271543
Central sound system	275123
Clock	275313
Electronic Safety and Security:	
Life safety devices per code	283111
Miscellaneous:	
N/A	

NOTES:

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



PROGRAM ACTIVITIES:

- Private space for program supervisor
- One-on-one conferences with academic instructors

SPATIAL RELATIONSHIPS:

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

ENVIRONMENTAL CONSIDERATIONS:

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

CAPACITY: 1 - 3 persons
SIZE: 120 SF

NOTES:

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

SUPERVISOR'S OFFICE

CT-AD-5

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

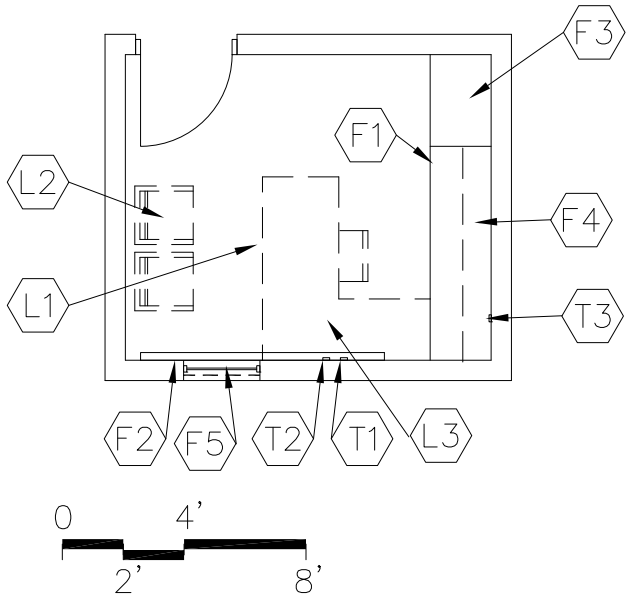
LOOSE FURNISHINGS:

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

FEATURES[1]:	Spec. Ref.#
Fixed Items:	
F1 Work surface with file drawers	123550
F2 4' of tack board or tackable wall surface	101100
F3 Tall wardrobe	123550
F4 Wall cabinets above work surface	123550
F5 Window with integral blind	085116
Fire Suppression:	
Fire suppression system	211000
Plumbing:	
N/A	
HVAC:	
Supply/return air system	Div. 23
Independent temperature control (coupled with similarly loaded adjacent spaces)	230923
Electrical:	
Single level switching	262726
Fluorescent lighting	265100
Illumination level: See Table 8600-5	
4 duplex receptacles	262726
Double duplex receptacle adjacent to data and video port	262726
Communications:	
T1 1 voice port and phone	271513/273123
T2 1 data port near workstation	271513
T3 1 ***projector*** video port	271543
Central sound system	275123
Clock	275313
Electronic Safety and Security:	
Life safety devices per code	283111
Miscellaneous:	
N/A	

NOTES:

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



PROGRAM ACTIVITIES:

- Private space for coordinator
- One-on-one conferences with academic instructors

SPATIAL RELATIONSHIPS:

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

ENVIRONMENTAL CONSIDERATIONS:

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

CAPACITY: 1 - 3 persons
SIZE: 120 SF

NOTES:

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

COORDINATOR'S OFFICE

CT-AD-6

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

LOOSE FURNISHINGS:

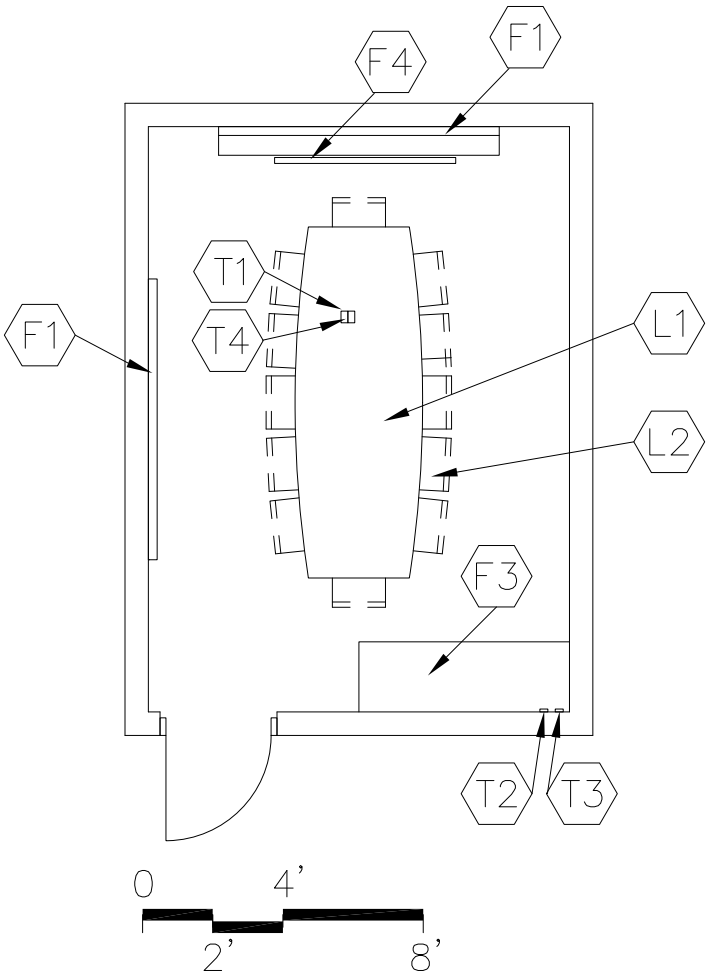
L1 Desk and chair
L2 Visitor chairs
L3 Computer desk return
Wastebasket

FEATURES[1]:	Spec. Ref.#
Fixed Items:	
F1 Work surface with file drawers	123550
F2 4' of tack board or tackable wall surface	101100
F3 Tall wardrobe	123550
F4 Wall cabinets above work surface	123550
F5 Window with integral blind	085116
Fire Suppression:	
Fire suppression system	211000
Plumbing:	
N/A	
HVAC:	
Supply/return air system	Div. 23
Independent temperature control (coupled with similarly loaded adjacent spaces)	230923
Electrical:	
Single level switching	262726
Fluorescent lighting	265100
Illumination level: See Table 8600-5	
4 duplex receptacles	262726
Double duplex receptacle adjacent to data and video port	262726
Communications:	
T1 1 voice port and phone	271513/273123
T2 1 data port near workstation	271513
T3 1 ***projector*** video port	271543
Central sound system	275123
Clock	275313
Electronic Safety and Security:	
Life safety devices per code	283111
Miscellaneous:	
N/A	

NOTES:

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

CONFERENCE ROOM
CT-AD-7



CAPACITY: 12 – 15 persons
SIZE: 250 SF

PROGRAM ACTIVITIES:
- Conferences with staff, students, parents, and other community groups

SPATIAL RELATIONSHIPS:
- Near principal's office
- Near assistant director/principal's office
- Near reception area
- Near secretarial area

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

NOTES:

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

CONFERENCE ROOM
CT-AD-7

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

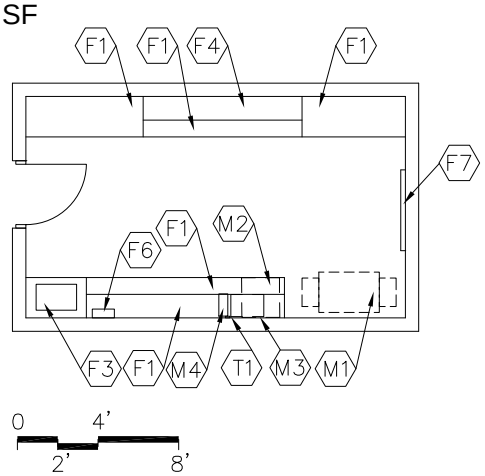
LOOSE FURNISHINGS:
L1 Conference table
L2 Chairs
Wastebasket

FEATURES[1]:	Spec. Ref.#
Fixed Items:	
F1 16' combination of marker board, tackboard, tackable wall surface or media display cabinet	101100
F2 Reserved	
F3 4'-6' of base cabinets (optional)	123550
F4 Projection screen (optional)	115213
Fire Suppression:	
Fire suppression system	211000
Plumbing:	
N/A	
HVAC:	
Supply/return air system	Div. 23
Independent temperature control	230923
Electrical:	
Multilevel switching	262726
Fluorescent lighting	265100
Illumination level: See Table 8600-5	
3 duplex receptacles	262726
Double duplex receptacle adjacent to each data and video port	262726
Communications:	
T1 1 ***projector*** video port and video display device	271543/274119
T2 1 voice port and phone	271513/273123
T3 1 data port	271513
T4 Overhead projector	274119
Clock	275313
Central sound system	275123
Electronic Safety and Security:	
Life safety devices per code	283111
Miscellaneous:	
N/A	

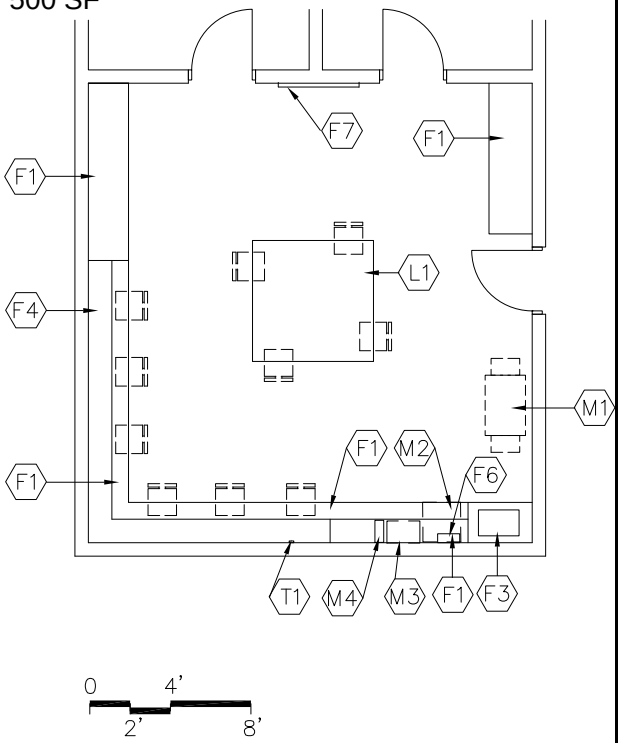
NOTES:

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

200 SF



500 SF



CAPACITY: N/A
SIZE: 200 - 500 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:

- 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

CT-AD-8

FINISHES[1]:	Spec. Ref.#
Flooring:	
Carpet, carpet tile, linoleum, ET, rubber, or sheet vinyl	096500 096813 096816 096516
Base:	
Resilient base	096500
Ceiling:	
Suspended, acoustical	095113
Walls:	
Painted gypsum wallboard over metal studs	092116/099100

LOOSE FURNISHINGS:

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

FEATURES[1]:	Spec. Ref.#
Fixed Items:	
F1 20'-24' combination wall and base cabinets	123550
F2 8'-12' of tall storage cabinets or about 32' maximum of a combination storage cabinets	123550
F3 3' sink base cabinet	123550
F4 Mail cubicles for all staff	123200
F5 Reserved	
F6 Towel dispenser (optional)	102813
F7 4' tack board or marker board (optional)	101100
Fire Suppression:	
Fire suppression system	211000
Plumbing:	
Sink	224000
Plumbing connections	224000/221116/221119
HVAC:	
Supply/return air system	Div. 23
Independent temperature control	230923
Electrical:	
Single level switching	262726
Fluorescent lighting	265100
Illumination level: See Table 8600-5	
3 - 5 duplex receptacles	262726
Receptacle for copier	262726
Communications:	
T1 1 voice port and phone	271513/273123
Clock	275313
Central sound system	275123
Electronic Safety and Security:	
Life safety devices per code	283111

Miscellaneous:

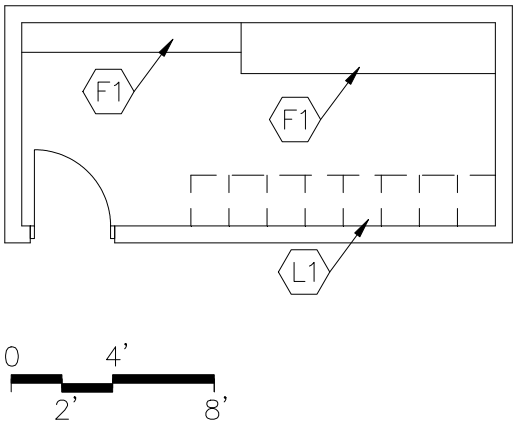
The following items are to be funded by the school district:

M1 Copier
M2 Undercounter refrigerator
M3 Microwave
M4 Coffee maker

NOTES:

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

150 SF



CAPACITY: N/A
SIZE: 150 - 200 SF

PROGRAM ACTIVITIES:
- Supplies, books, records, forms, and equipment storage

SPATIAL RELATIONSHIPS:
- Near mail/work/copy room
- Near vault/records storage

ENVIRONMENTAL CONSIDERATIONS:
N/A

NOTES:

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

ADMINISTRATIVE STORAGE
CT-AD-9

FINISHES[1]:	Spec. Ref.#
Flooring:	
Carpet, carpet tile, linoleum, ET, rubber***, or sheet vinyl***	096500 ***096813*** ***096816*** ***096516***
Base:	
Resilient base	096500
Ceiling:	
Suspended, acoustical	095113
Walls:	
Painted gypsum wallboard over metal studs	092116/099100

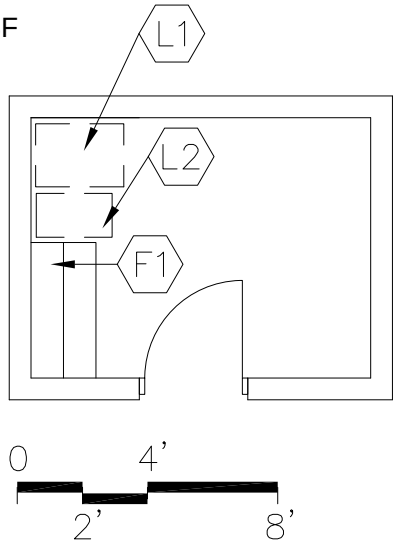
LOOSE FURNISHINGS:
L1 File cabinets

FEATURES[1]:	Spec. Ref.#
Fixed Items:	
F1 10'-20' of open shelving depth may vary (fixed or loose)	123550
Option: mobile storage shelving	105626
Fire Suppression:	
Fire suppression system	211000
Plumbing:	
N/A	
HVAC:	
To be determined by Design Professional	
Supplemental heat as required	Div. 23
Electrical:	
Single level switching	262726
Fluorescent lighting	265100
Illumination level: See Table 8600-***5***	
1 duplex receptacle	262726
Communications:	
N/A	
Electronic Safety and Security:	
N/A	
Miscellaneous:	
N/A	

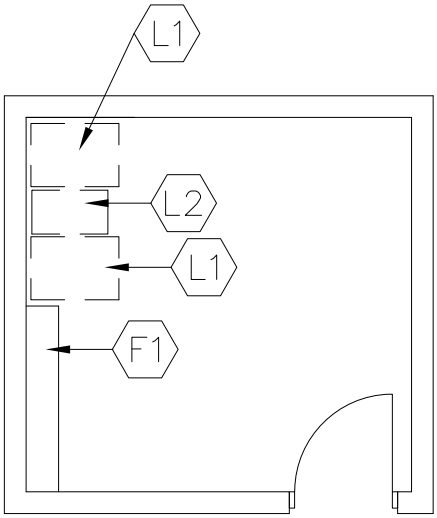
NOTES:

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

85 SF



140 SF



CAPACITY: N/A
SIZE: ***85 - 200*** SF

PROGRAM ACTIVITIES:
- Storage of records and security files in a secure area

SPATIAL RELATIONSHIPS:
- Access to guidance area
- Access to secretarial personnel

ENVIRONMENTAL CONSIDERATIONS:
N/A

NOTES:

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

VAULT/RECORDS
CT-AD-10

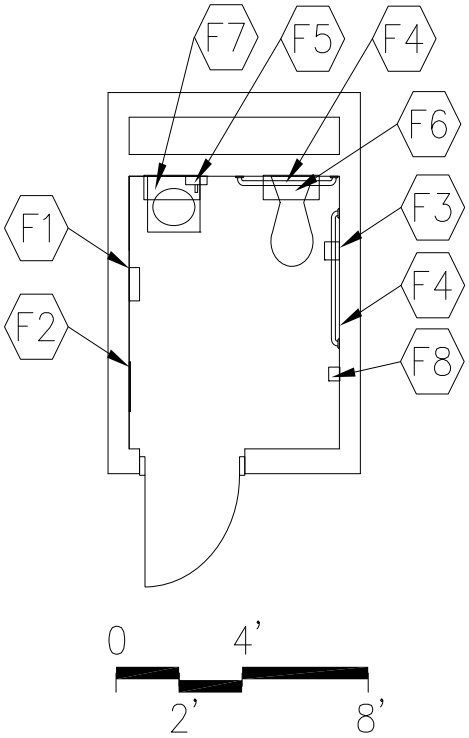
FINISHES[1]:	Spec. Ref.#
Flooring:	
Rubber, ***carpet, carpet tile***,	096500
linoleum, ET or sheet vinyl	***096813***
	096816
	096516
Base:	
Resilient base	096500
Ceiling:	
Rated 2-hour construction	---
Walls:	
Painted concrete masonry units or	042000/099100
painted gypsum wallboard	092116/099100
Rated 2-hour construction	

LOOSE FURNISHINGS:
L1 File cabinet
L2 Safe (loose or fixed)

FEATURES[1]:	Spec. Ref.#
Fixed Items:	
F1 3'-6' of open shelving, (depth may vary)(fixed or loose)	123550
Option: mobile storage shelving	105626
Fire Suppression:	
Fire suppression system	211000
Plumbing:	
N/A	
HVAC:	
To be determined by Design Professional	
Electrical:	
Single level switching	262726
Fluorescent lighting	265100
Illumination level: See Table 8600-***5***	
1 duplex receptacle	262726
Communications:	
N/A	
Electronic Safety and Security:	
N/A	
Miscellaneous:	
Wall, ceiling, and door construction to have a 2-hour fire rating	

NOTES:

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



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

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

SPATIAL RELATIONSHIPS:
- Located in the administrative area

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

NOTES:

RESTROOM
CT-AD-11

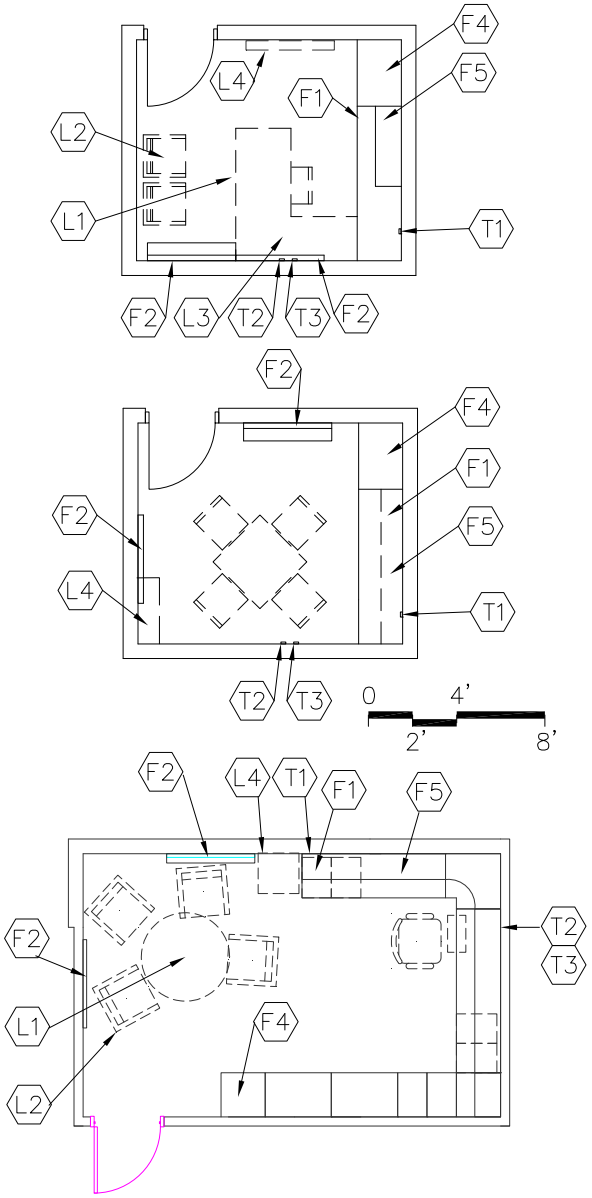
FINISHES[1]:	Spec. Ref.#
Flooring:	
ET, sheet vinyl, porcelain tile,	096516
ceramic mosaic tile, or	096500
resinous flooring	093000
	096723
Base:	
Resilient base	096500
Optional: ceramic mosaic tile,	093000
porcelain tile, resinous flooring,	096723
or integral vinyl cove base	
Ceiling:	
Suspended, acoustical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

LOOSE FURNISHINGS:
Wastebasket

FEATURES[1]:	Spec. Ref.#
Fixed Items:	
F1 Towel dispenser	102813
F2 24" x 60" mirror	102813
F3 Toilet tissue holder	102813
F4 36" and 42" grab bar	102813
F5 Soap dispenser	102813
F6 8” deep wall cabinet above toilet for supplies (optional)	102813
F7 Stainless steel shelf (optional)	102813
F8 Coat hook	102813
Fire Suppression:	
Fire suppression system	211000
Plumbing:	
Wall-mounted water closet	224000
Wall-mounted lavatory	224000
Plumbing connections	224000/221116/221119
HVAC:	
Exhaust air system	Div. 23
Supplemental heat as required	Div. 23
Electrical:	
Single level switching	262726
Fluorescent lighting	265100
Illumination level: See Table 8600-***5***	
1 duplex receptacle	262726
Communications::	
Central sound system	275123
Electronic Safety and Security:	
Life safety devices per code	283111
Miscellaneous:	
N/A	

NOTES:

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



COMBINATION GUIDANCE OFFICE AND STORAGE

CAPACITY: 1 - 3 persons
SIZE: 120 SF

PROGRAM ACTIVITIES:

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

SPATIAL RELATIONSHIPS:

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

ENVIRONMENTAL CONSIDERATIONS:

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

NOTES:

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

GUIDANCE COUNSELOR
CT-AD-12

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

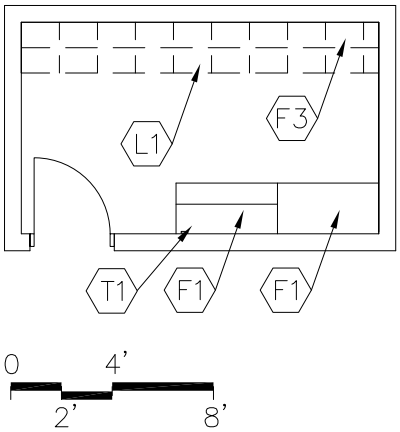
LOOSE FURNISHINGS:
- L1 Desk or table, with chair
- L2 Visitor chairs
- L3 Computer desk return
- L4 Bookcase (fixed or loose)
- Wastebasket

FEATURES[1]:	Spec. Ref.#
Fixed Items:	
F1 Work surface with file drawers	123550
F2 8'-12' combination marker board, tack board, tackable wall surface	101100
F3 Reserved	
F4 Tall wardrobe	123550
F5 Wall cabinets	123550
Fire Suppression:	
Fire suppression system	211000
Plumbing:	
N/A	
HVAC:	
Supply/return air system	Div. 23
Independent temperature control (coupled with similarly loaded adjacent spaces)	230923
Electrical:	
Single level switching	262726
Fluorescent lighting	265100
Illumination level: See Table 8600-5	
4 duplex receptacles	262726
Double duplex receptacle adjacent to each data and video port	262726
Communications:	
T1 1 ***projector*** video port	271543
T2 1 voice port and phone	271513/273123
T3 1 data port near workstation	271513
Central sound system	275123
Clock	275313
Electronic Safety and Security:	
Life safety devices per code	283111
Miscellaneous:	
N/A	

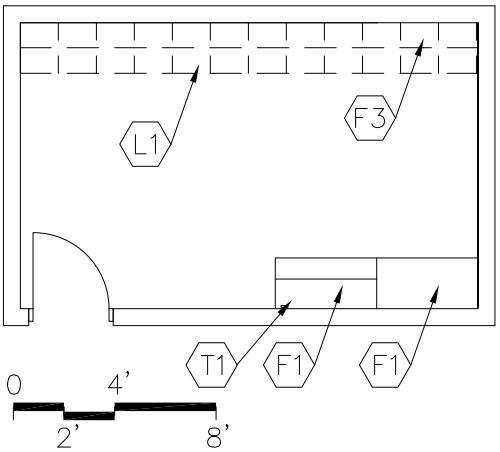
NOTES:

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

100 SF



150 SF



CAPACITY: N/A
SIZE: 100 - 150 SF

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

SPATIAL RELATIONSHIPS:
- Near guidance counselor's office
- Could be combined with guidance counselor's office

ENVIRONMENTAL CONSIDERATIONS:
N/A

NOTES:

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

GUIDANCE RECORDS/STORAGE
CT-AD-13

FINISHES[1]:	Spec. Ref.#
Flooring:	
Rubber***, carpet, carpet tile, linoleum, ET, or sheet vinyl***	096500 ***096813*** ***096816*** ***096516***
Base:	
Resilient base	096500
Ceiling:	
Rated 2-hour construction	---
Walls:	
Painted gypsum wallboard over metal studs or	092116/099100
Painted concrete masonry units	042000/099100
Rated 2-hour construction	

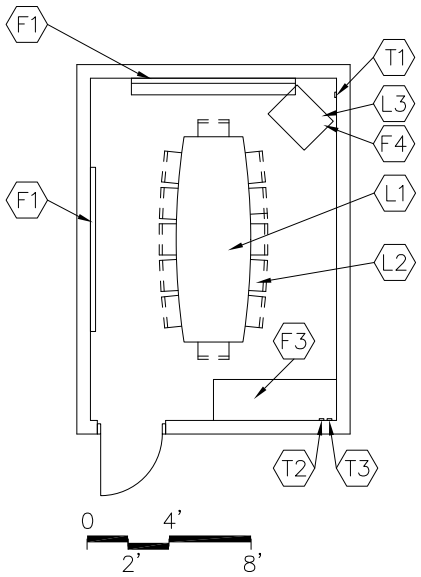
LOOSE FURNISHINGS:
L1 File cabinets

FEATURES[1]:	Spec. Ref.#
Fixed Items:	
F1 ***6'-10' combination wall and base cabinets and tall cabinets***	123550
F2 ***Reserved***	
Option: mobile storage shelving ***or file cabinets***	105626
F3 4'-10' shelving (optional)	123550
Fire Suppression:	
Fire suppression system	211000
Plumbing:	
N/A	
HVAC:	
To be determined by Design Professional	
Electrical:	
Single level switching	262726
Fluorescent lighting	265100
Illumination level: See Table 8600-***5***	
1 duplex receptacle	262726
Communications:	
T1 1 data port (optional)	271513
Electronic Safety and Security:	
Life safety devices per code	283111
Miscellaneous:	
Wall, ceiling, and door construction to have a 2-hour fire rating	

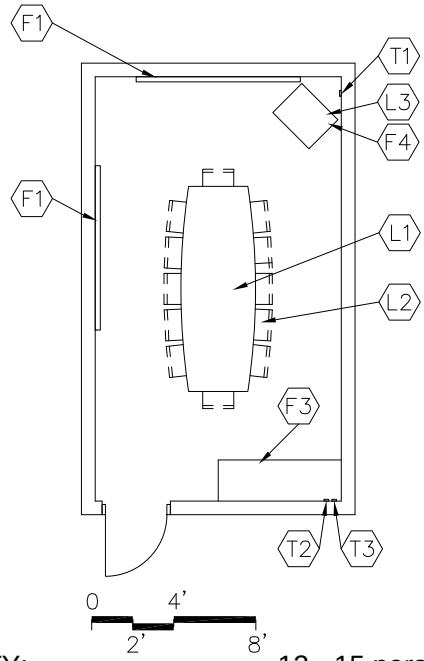
NOTES:

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

150 SF



250 SF



CAPACITY: 12 - 15 persons
SIZE: 150 - 250 SF

PROGRAM ACTIVITIES:
- Conferences with staff, students, parents, and other community groups

SPATIAL RELATIONSHIPS:
- Near guidance counselors office
- Near principal's office
- Near reception area
- Near guidance records/storage area

ENVIRONMENTAL CONSIDERATIONS:
- Environmental sound control -
  wall minimum STC 45
  ceiling minimum CAC 35, NRC 0.70
- Optional – window with integral blinds

NOTES:

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

GUIDANCE CONFERENCE
CT-AD-14

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

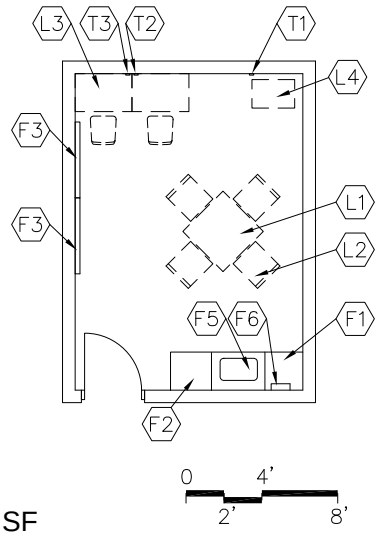
LOOSE FURNISHINGS:
L1 Conference table
L2 Chairs
L3 Monitor cart or cabinet (could be fixed casework)
Wastebasket

FEATURES[1]:	Spec. Ref.#
Fixed Items:	
F1 10'-16' combination marker board, tack board, tackable wall surface	101100
F2 Reserved	
F3 4'-6' of base cabinets	123550
F4 Technology support casework (optional)	123550
Fire Suppression:	
Fire suppression system	211000
Plumbing:	
N/A	
HVAC:	
Supply/return air system	Div. 23
Independent temperature control	230923
Electrical:	
Multilevel switching	262726
Fluorescent lighting	265100
Illumination level: See Table 8600-5	
3 duplex receptacles	262726
Double duplex receptacle adjacent to each data and video port	262726
Communications:	
T1 1 ***projector*** video port and video display device	271543/274119
T2 1 voice port and phone	271513/273123
T3 1 data port	271513
Clock	275313
Central sound system	275123
Electronic Safety and Security:	
Life safety devices per code	283111
Miscellaneous:	
N/A	

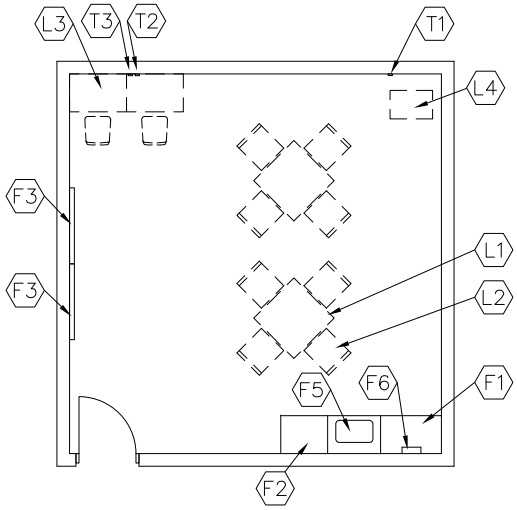
NOTES:

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

200 SF



400 SF



CAPACITY: 2 - 8 persons
SIZE: 200 - 400 SF

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

SPATIAL RELATIONSHIPS:
- Near administrative area

ENVIRONMENTAL CONSIDERATIONS:
- Environmental sound control -
  wall minimum STC 45
  ceiling minimum CAC 35, NRC 0.70
- Optional – window with integral blinds

NOTES:

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

PARENT/VOLUNTEER
CT-AD-15

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

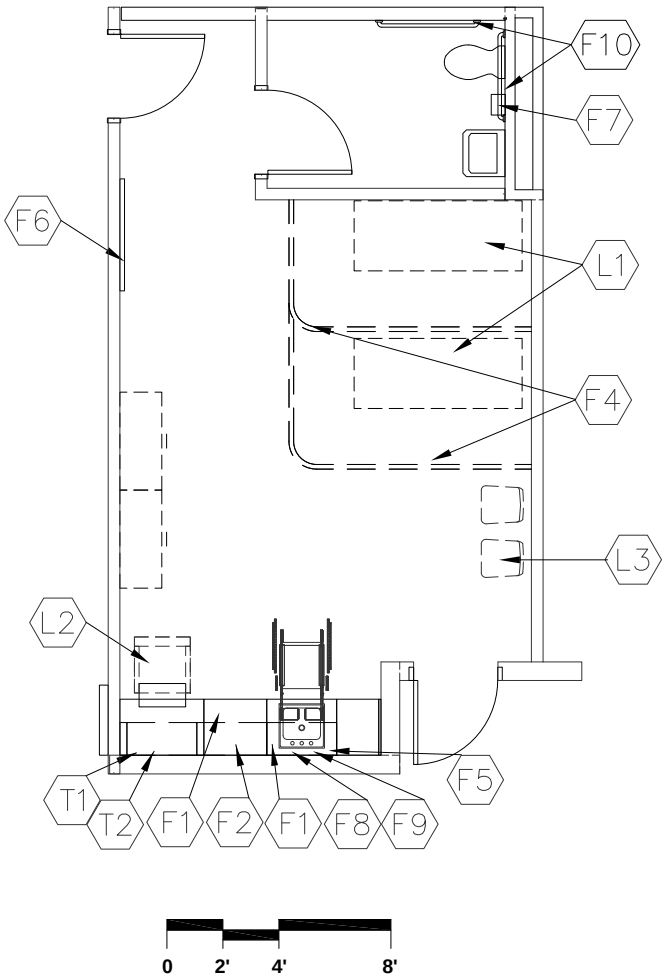
LOOSE FURNISHINGS:
- L1 Table
- L2 Chairs
- L3 Computer workstation furniture
- L4 Monitor cart
- Wastebasket

FEATURES[1]:	Spec. Ref.#
Fixed Items:	
F1 About 3' of base cabinets	123550
F2 Tall wardrobe or coat cabinet (optional)	123550
F3 8'-12' combination marker board, tack board, tackable wall surface	101100
F4 Reserved	
F5 3' sink base cabinet	123550
F6 Towel dispenser	102813
Pencil sharpener support (optional)	062000
Fire Suppression:	
Fire suppression system	211000
Plumbing:	
Sink	224000
Plumbing connections	224000/221116/221119
HVAC:	
Supply/return air system	Div. 15
Independent temperature control (coupled with similarly loaded adjacent spaces)	230923
Electrical:	
Single level switching	262726
Fluorescent lighting	265100
Illumination level: See Table 8600-5	
4 duplex receptacles	262726
Double duplex receptacle adjacent to each data and video port	262726
Communications:	
T1 1 ***projector*** video port and video display device	271543/274119
T2 1 voice port and phone	271513/273123
T3 1 data port near workstation	271513
Clock	275313
Central sound system	275123
Electronic Safety and Security:	
Life safety devices per code	283111
Miscellaneous:	
Pencil sharpener (optional)	

NOTES:

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

450 SF



CAPACITY: 2 - 3 patients
SIZE: Clinic…….***340 - 540*** SF
Restroom……60 SF
ANCILLARY SPACES: Secretarial Area CT-AD-2

PROGRAM ACTIVITIES:

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

SPATIAL RELATIONSHIPS:

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

ENVIRONMENTAL CONSIDERATIONS:

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

NOTES:

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

HEALTH CLINIC (includes restroom)
CT-AD-16

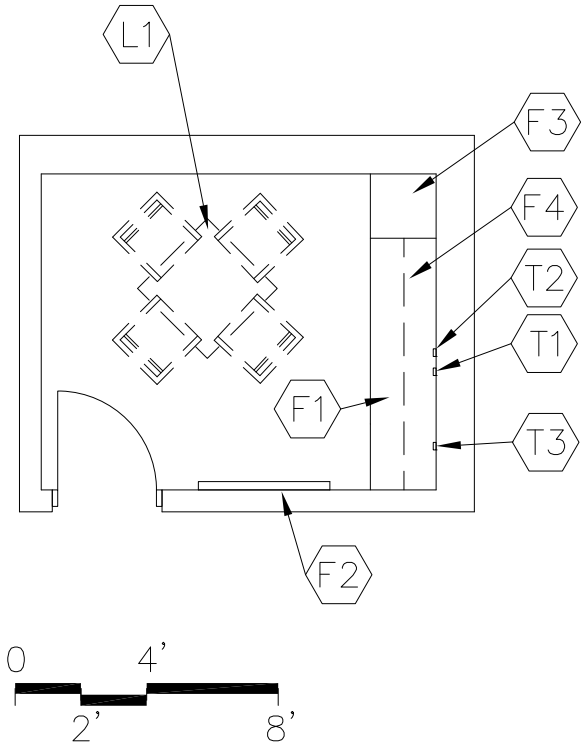
FINISHES[1]:	Spec. Ref.#
Flooring:	
Clinic: Linoleum,	096516
ET, sheet vinyl, or	096500
resinous flooring	096723
Restroom: ET, sheet vinyl, Resinous flooring, ceramic Mosaic tile, or porcelain tile	***093000***
Base:	
Resilient base, resinous flooring,	096500
or integral vinyl cover base	096730
Ceiling:	
Suspended, acoustical	095113
Walls:	
Painted gypsum wallboard over metal studs	092116/099100

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

EQUIPMENT
E1 Refrigerator with ice making capabilities

FEATURES[1]:	Spec. Ref.#
Fixed Items:	
F1 ***8'-1' combination base and wall cabinets, lockable***	123550
F2 3' sink base cabinet	123550
F3 ***Reserved***	
F4 Cubicle curtain and track	102123
F5 Towel dispenser	102813
F6 4' of tack board	101100
F7 Sanitary napkin dispenser/disposal	102813
F8 Soap dispenser	102813
F9 24" x 60" mirror	102813
F10 36" and 42" grab bars	102813
Fire Suppression:	
Fire suppression system	211000
Plumbing:	
Sink - with goose neck	224000
Plumbing connections	224000/221116/221119
HVAC:	
Supply/return air system	Div. 23
Independent temperature control	230923
Exhaust directly to exterior	
Electrical:	
Single level switching with dimmer	262726
Fluorescent lighting	265100
Illumination level: See Table 8600-***5***	
2 duplex receptacles	262726
Double duplex receptacle adjacent to each data port	262726
Receptacle for refrigerator	262726
Emergency lighting	265100
Communications:	
T1 1 voice port and phone	271513/***273123***
T2 1 data port near workstation	271523
Clock	275313
Central sound system	275123
Electronic Safety and Security:	
Life safety devices per code	283111
Miscellaneous:	
N/A	

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



APACITY: 1 - 3 persons
SIZE: 120 SF

PROGRAM ACTIVITIES:

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

SPATIAL RELATIONSHIPS:

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

ENVIRONMENTAL CONSIDERATIONS:

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

NOTES:

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

ITINERANT PERSONNEL

CT-AD-17

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

LOOSE FURNISHINGS:

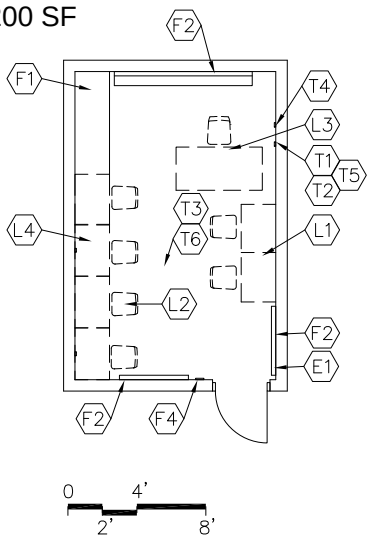
L1 Table and chairs
Wastebasket

FEATURES[1]:	Spec. Ref.#
Fixed Items:	
F1 Work surface with file drawers(optional)	123550
F2 4' of tack board or tackable wall surface	101100
F3 Tall wardrobe (optional)	123550
F4 Wall cabinets	123550
Fire Suppression:	
Fire suppression system	211000
Plumbing:	
N/A	
HVAC:	
Supply/return air system	Div. 23
Independent temperature control (coupled with similarly loaded adjacent spaces)	230923
Electrical:	
Single level switching	262726
Fluorescent lighting	265100
Illumination level: See Table 8600-5	
4 duplex receptacles	262726
Double duplex receptacle adjacent to data and video port	262726
Communications:	
T1 1 voice port and phone	271513/273123
T2 1 data port	271513
T3 1 ***projector*** video port	271543
Central sound system	275123
Clock	275313
Electronic Safety and Security:	
Life safety devices per code	283111
Miscellaneous:	
N/A	

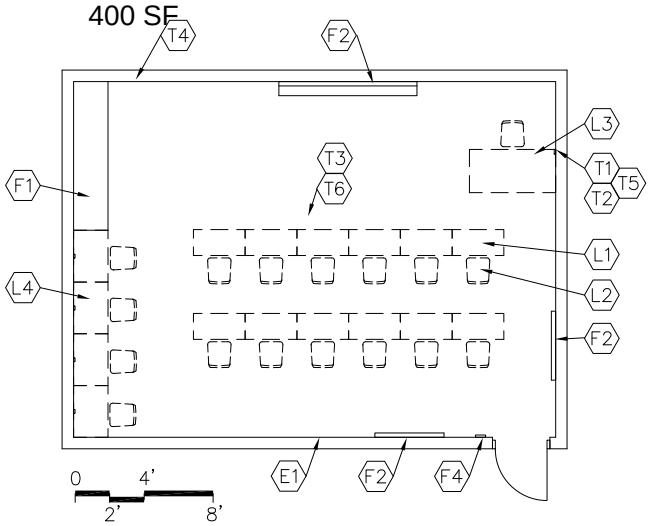
NOTES:

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

200 SF



400 SF



CAPACITY: 5 - 8 students
SIZE: 200 - 400 SF

PROGRAM ACTIVITIES:

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

SPATIAL RELATIONSHIPS:

- Near principal's office
- Near secretarial area

ENVIRONMENTAL CONSIDERATIONS:

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

NOTES:

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

IN-SCHOOL SUSPENSION
CT-AD-18

FINISHES[1]:	Spec. Ref.#
Flooring:	
Carpet, carpet tile, ET, linoleum, sheet vinyl, or rubber	096816 096500 096516 096813
Base:	
Resilient base	096500
Ceiling:	
Suspended, acoustical	095113
Walls:	
Painted concrete masonry units	042000/092113

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

Electronic Safety and Security:	
Life safety devices per code	283111

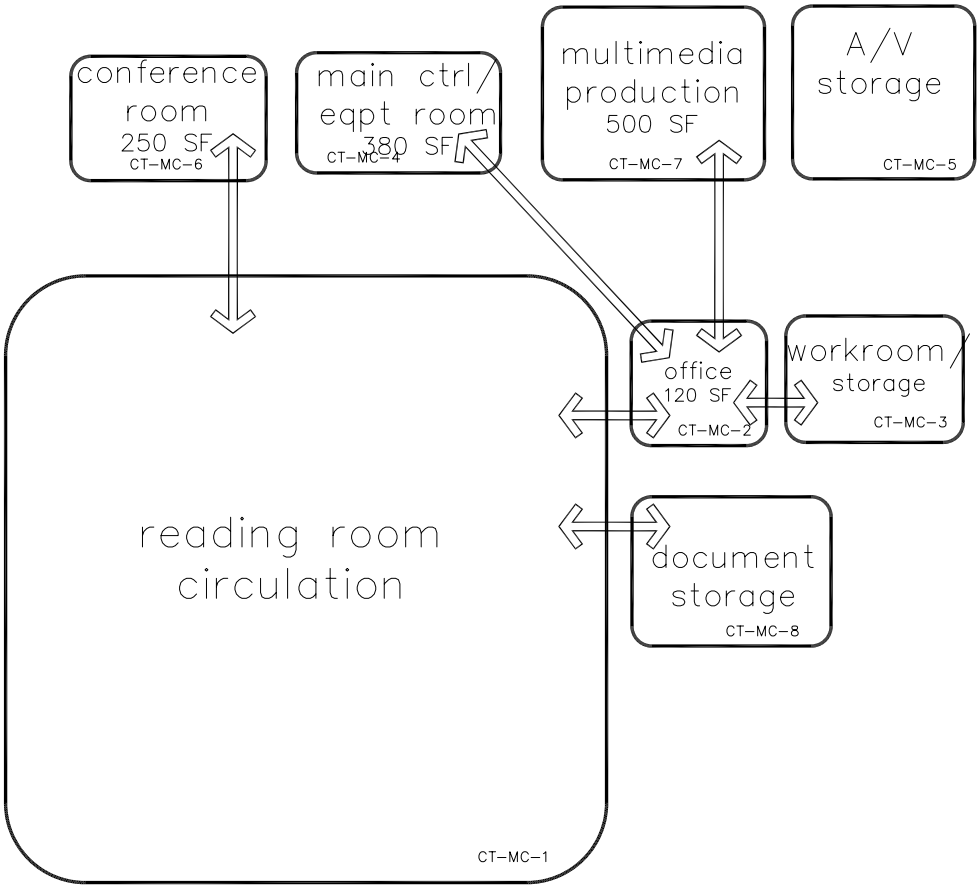
Miscellaneous:
Pencil sharpener (optional)

E1 Duplex receptacle with dedicated circuit for wireless devices

FEATURES[1]:	Spec. Ref.#
Fixed Items:	
F1 3'-4' of base cabinets (optional)	123550
F2 10'-16' combination marker board, tack board, tackable wall surface	101100
F3 Reserved	
F4 Pencil sharpener support (optional)	062000
Fire Suppression:	
Fire suppression system	211000
Plumbing:	
N/A	
HVAC:	
Supply/return air system	Div. 23
Independent temperature control	230923
Electrical:	
Single level switching	262726
Fluorescent lighting	265100
Illumination level: See Table 8600-5	
4 duplex receptacles	262726
Double duplex receptacle adjacent to each data and video port	262726
Communications:	
T1 1 voice port and phone	271513/273123
T2 1 data port near teacher workstation	271513
T3 ***Wireless access point cable above ceiling***	271513
T4 1 ***projector*** video port	271543
Clock	275313
Central sound system	275123
T5 Classroom technology center video port	***271543, 274116, 274119, 275127***
T6 Wireless access point (WAP) as determined by Design – refer to Note 2	***272133***

NOTES:

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



NOTE:

This is an example of how the media center spaces in a career-technical school could be arranged. This is only meant to demonstrate the relationships between various areas of the building.

Following are the Media Center space plates:

CT-MC-1 Reading Room/Circulation
CT-MC-2 Media Specialist Office
CT-MC-3 Workroom/Storage
CT-MC-4 ***Main Control/Equipment Room***
CT-MC-5 A/V Storage
CT-MC-6 Conference Room
CT-MC-7 Multimedia Production Room
CT-MC-8 Document Storage

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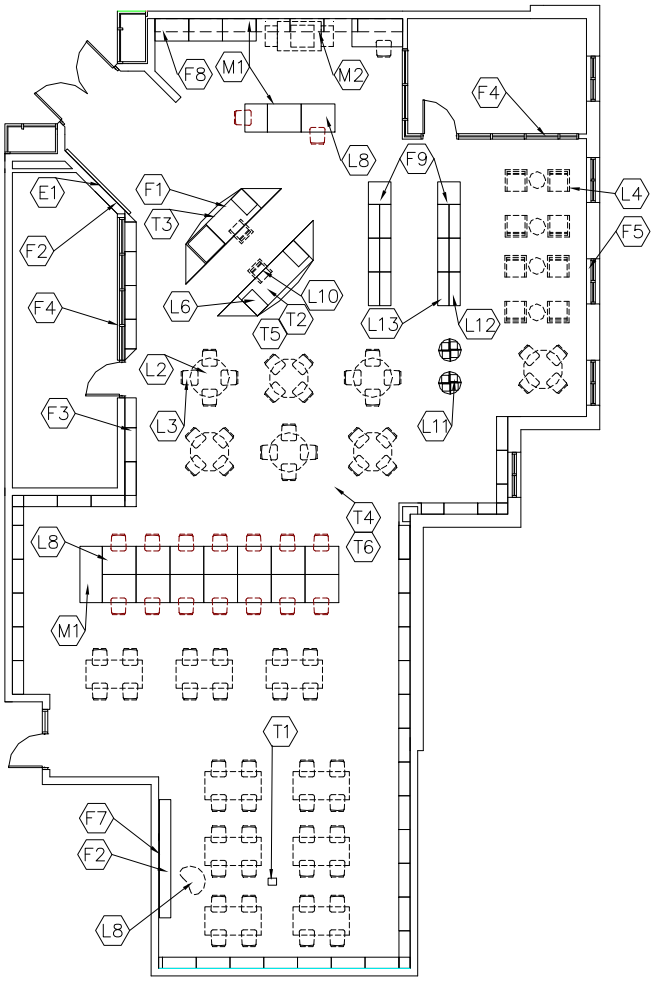


CAPACITY: 10% of student capacity
SIZE: 10% of student capacity multiplied by 35 SF per student

PROGRAM ACTIVITIES:

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

SPATIAL RELATIONSHIPS:

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

ENVIRONMENTAL CONSIDERATIONS:

- Natural light opening with an operable vent
- Environmental sound control -
  wall only minimum STC 45
  ceiling minimum CAC 35, NRC 0.70
- Visual awareness of space to students and staff through transparency to corridor

NOTES:

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

READING ROOM/CIRCULATION

CT-MC-1

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

LOOSE FURNISHINGS[2]:

- L1 Mobile book carts
- L2 Student tables
- L3 Student chairs
- L4 Casual seating chairs
- L5 Study carrels (optional)
- L6 (3) Desk height file cabinets
- L7 Atlas stand (optional)
- L8 Computer workstation furniture
- L9 Dictionary stand (optional)
- L10 Circulation desk task chair
- L11 Paperback book racks
- L12 Newspaper racks
- L13 Magazine display
  Wastebaskets

Electronic Safety and Security:	
Life safety devices per code	283111

Miscellaneous:

Pencil sharpener (optional)

The following items are to be funded by the owner:

- M1 2 printers: 1 at circulation desk and 1 in student work area
- M2 Copier

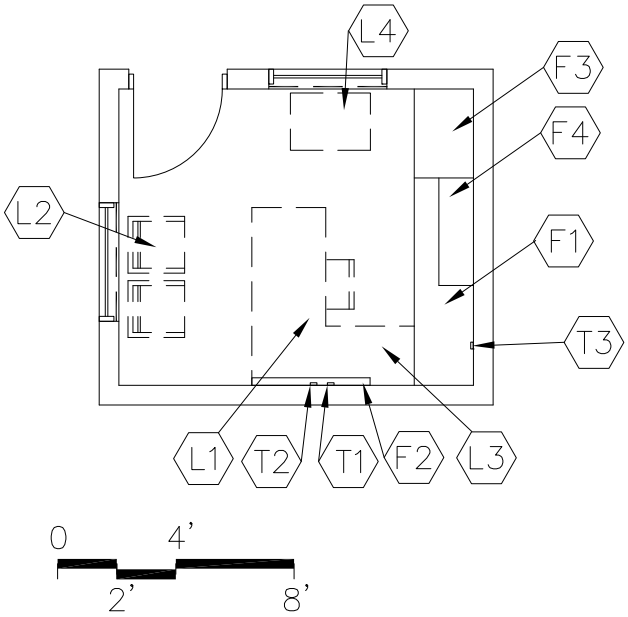
E1 Duplex receptacle with dedicated circuit for wireless devices

FEATURES[1]:		Spec. Ref.#
Fixed Items:		
F1	Circulation desk casework	123550
F2	12'-20' combination marker board, tack board, tackable wall surface	101100
F3	Library book shelving (see notes)	115123
F4	Interior windows	081113/088000
F5	Windows with integral blinds or shades	085113
F6	Pencil sharpener support (optional)	062000
F7	Projection screen (optional)	115213
F8	Technology support casework	123550
F9	Search station terminals	123550
	Roller window shades (optional)	122413
Fire Suppression:		
	Fire suppression system	211000
Plumbing:		
	N/A	
HVAC:		
	Supply/return air system	Div. 23
	Independent temperature control	230923
Electrical:		
	Fluorescent lighting:	265100
	Illumination level: See Table 8600-5	
	Multilevel switching	262726
	10 duplex receptacles	262726
	Double duplex receptacle adjacent to each data and video port	262726
	Emergency lighting per code	265100
	Means of egress lighting per code	265100
Communications:		
T1	1 ***projector*** video port and video display device	271543/274119
T2	1 voice port and phone at circulation desk	271513/273123
T3	2 data ports for media center automation system	271513
T4	***Wireless access point cable above ceiling***	271513
	Clock	275313
	Central sound system	275123
T5	***Classroom technology center video port***	***271543, 274116, 274119, 275127***
T6	***Wireless access point (WAP) as determined by Design – refer to Note 6.***	***272133***

NOTES:

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

MEDIA SPECIALIST OFFICE
CT-MC-2



CAPACITY: 1 - 3 persons
SIZE: 120 SF

PROGRAM ACTIVITIES:
- Media specialist to conduct duties

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

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

NOTES:

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

MEDIA SPECIALIST OFFICE

CT-MC-2

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

LOOSE FURNISHINGS:

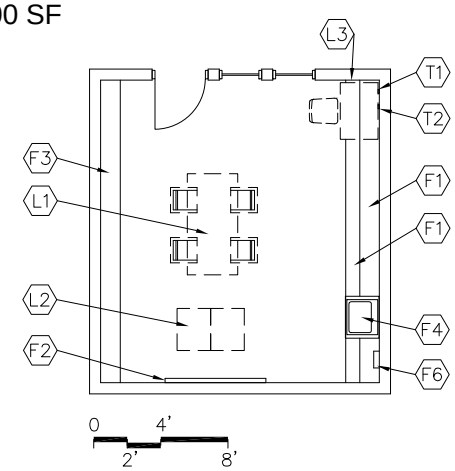
L1 Desk and chair
L2 Visitor chairs
L3 Computer desk return
L4 File cabinet
Wastebasket

FEATURES[1]:	Spec. Ref.#
Fixed Items:	
F1 Work surface with file drawers	123550
F2 4' of tack board or tackable wall surface	101100
F3 Tall wardrobe	123550
F4 Wall cabinets	123550
F5 Bookcases (optional)	123550
Fire Suppression:	
Fire suppression system	211000
Plumbing:	
N/A	
HVAC:	
Supply/return air system	Div. 23
Independent temperature control (coupled with similarly loaded adjacent spaces)	230923
Electrical:	
Single level switching	262726
Fluorescent lighting	265100
Illumination level: See Table 8600-5	
4 duplex receptacles	262726
Double duplex receptacle adjacent to data and video port	262726
Communications:	
T1 1 voice port and phone	271513/273123
T2 1 data port near workstation	271513
T3 1 ***projector*** video port	271543
Central sound system	275123
Clock	275313
Electronic Safety and Security:	
Life safety devices per code	283111
Miscellaneous:	
Interior window	081113/088000

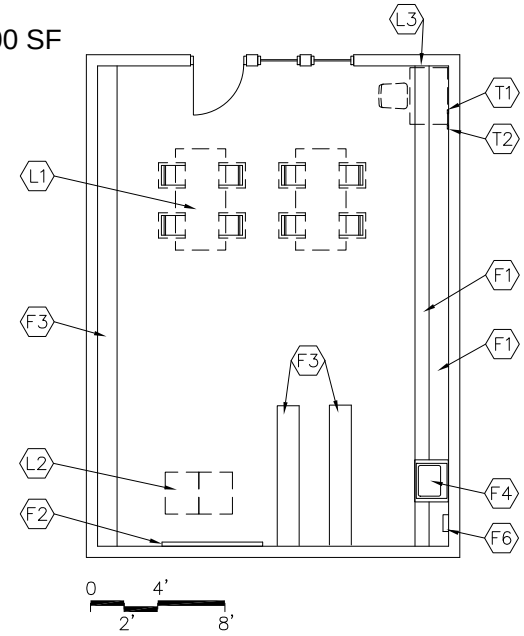
NOTES:

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

300 SF



500 SF



CAPACITY: 2 - 8 staff
SIZE: 300 - 500 SF

PROGRAM ACTIVITIES:

- Space for receiving, processing, and repairing media material

SPATIAL RELATIONSHIPS:

- Near reading room/circulation
- Near media specialist office

ENVIRONMENTAL CONSIDERATIONS:

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

NOTES:

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

WORKROOM/STORAGE
CT-MC-3

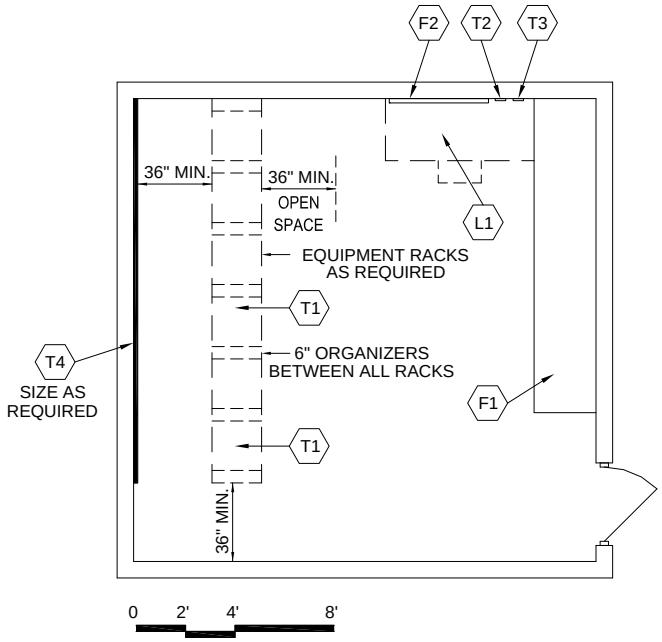
FINISHES[1]:	Spec. Ref.#
Flooring:	
Linoleum, rubber***, ET or sheet***	096500
Vinyl	***096516***
Option: Carpet, carpet tile	***096813***
	096816
Base:	
Resilient base	096500
Ceiling:	
Suspended, acoustical	095113
Walls:	
Painted concrete masonry units	042000/099100

LOOSE FURNISHINGS:
L1 Table and chairs
L2 Book trucks
L3 Computer workstation
Wastebasket

FEATURES[1]:	Spec. Ref.#
Fixed Items[2]:	
F1 ***26'-50' combination base, wall and tall cabinets***	123550
F2 4'-8' of tack board ***or marker board***	101100
F3 16'-60' of bookcases	123550
F4 3' sink base cabinet	123550
F5 ***Reserved***	
F6 Towel dispenser	102813
Fire Suppression:	
Fire suppression system	211000
Plumbing:	
Sink	224000
Plumbing connections	224000/221116/221119
HVAC:	
Supply/return air system	Div. 23
Independent temperature control (coupled with similarly loaded adjacent spaces)	230923
Electrical:	
Single level switching	262726
Fluorescent lighting	265100
Illumination level: See Table 8600-***5***	
3 duplex receptacles	262726
Double duplex receptacle adjacent to each data port	262726
Communications:	
T1 1 voice port and phone	271513/***273123***
T2 1 data port	271513
Clock	275313
Central sound system	275123
Electronic Safety and Security:	
Life safety devices per code	283111
Miscellaneous:	
Interior window	081113/088000

NOTES:

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



PROGRAM ACTIVITIES:

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

SPATIAL RELATIONSHIPS:

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

ENVIRONMENTAL CONSIDERATIONS:

- Ventilation and cooling of heat-generating electronic equipment

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

CAPACITY: N/A

SIZE: ***(Baseline) (Minimum)*** 300 - 400 SF

ER Utilized for local serving zone – add minimum 80 SF

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

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

NOTES:

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

MAIN CONTROL / EQUIPMENT ROOM

CT-MC-4

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

LOOSE FURNISHINGS:

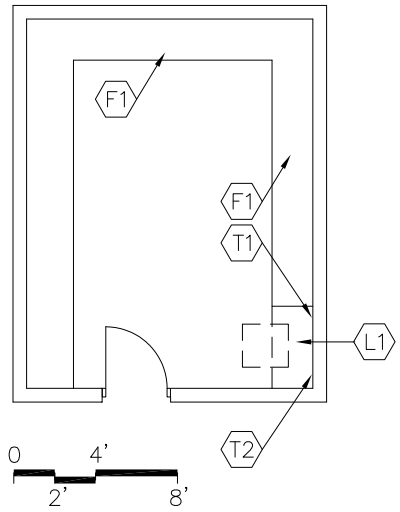
L1 Desk and chair
Wastebasket

FEATURES[1]:	Spec. Ref.#
Fixed Items:	
F1 8'-16' of open shelving, depth may vary (fixed or loose)	123550
F2 4' of tack board or marker board	101100
Fire Suppression:	
Fire suppression system	211000
Plumbing:	
N/A	
HVAC:	
Independent, packaged system	Div. 23
Electrical:	
Single level switching	262726
Fluorescent lighting	265100
Illumination level: See Table 8600-5	
3 duplex receptacles	262726
Duplex receptacle for electronic systems	262726
Telecommunications Grounding	270526/260526
Standby Power	263213/263600
Communications:	
T1 Technology Equipment	
Central sound system	275123
Telephone wiring	271313/271513
Integrated telephone system	273123
Video wiring	271543
Digital on demand delivery system	274125
Local area network wiring	271513/271323
Local area network electronics	272100/272133
Grounding & Infrastructure Equipment	270526/271100
T2 1 voice port and phone	271513/273123
T3 1 data port near workstation	271513
T4 1/4" plywood back board	271313
Electronic Safety and Security:	
Life safety devices per code	283111
Security system	281300/281600/282300
Miscellaneous:	
Provide distribution equipment with an equipment electrical ground.	

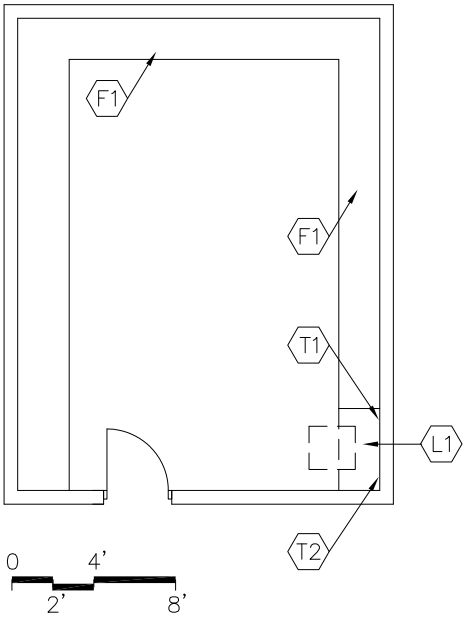
NOTES:

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

250 SF



350 SF



CAPACITY: N/A
SIZE: 250 - 350 SF

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

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

ENVIRONMENTAL CONSIDERATIONS:
N/A

NOTES:

A/V STORAGE
CT-MC-5

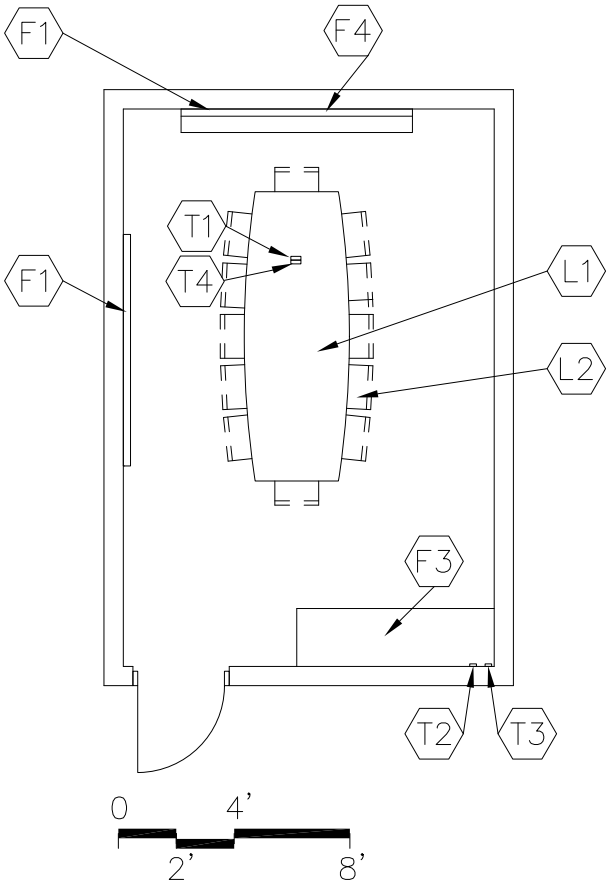
FINISHES[1]:	Spec. Ref.#
Flooring:	
Rubber	096500
Base:	
Resilient base	096500
Ceiling:	
Suspended, acoustical	095113
Walls:	
Painted concrete masonry units	042000/099100

LOOSE FURNISHINGS:
L1 Desk and chair
Wastebasket

FEATURES[1]:	Spec. Ref.#
Fixed Items[3]:	
F1 8' – 26' of open shelving, depths may vary (fixed or loose)	123550
Option: mobile storage shelving	105626
Fire Suppression:	
Fire suppression system	211000
Plumbing:	
N/A	
HVAC:	
To be determined by Design Professional	
Electrical:	
Single level switching	262726
Fluorescent lighting	265100
Illumination level: See Table 8600-***5***	
4 duplex receptacles (minimum)	262726
Communications:	
T1 1 voice port and phone	271513/***273123***
T2 1 data port near workstation	271513
Central sound system	275123
Electronic Safety and Security:	
N/A	
Miscellaneous:	
N/A	

NOTES:

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



CAPACITY: 8 - 12 persons
SIZE: 250 SF

PROGRAM ACTIVITIES:
- Used primarily by students for group projects

SPATIAL RELATIONSHIPS:
- Near reading room/circulation

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

NOTES:

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

CONFERENCE ROOM
CT-MC-6

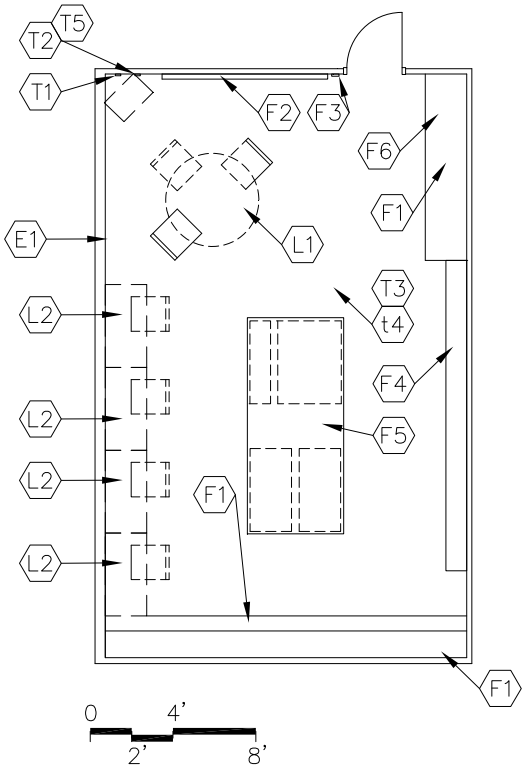
FINISHES[1]:	Spec. Ref.#
Flooring:	
Carpet or Carpet Tile	096816 096813
Base:	
Resilient base	096500
Ceiling:	
Suspended, acoustical	095113
Walls:	
Painted concrete masonry units	042000/099100

LOOSE FURNISHINGS:
L1 Conference table
L2 Chairs
Wastebasket

FEATURES[1]:	Spec. Ref.#
Fixed Items[2]:	
F1 14'-18' combination marker board, tack board and tackable wall surface	101100
F2 Reserved	
F3 4'-6' of base cabinets (optional) (fixed or mobile)	123550
F4 Projection screen (optional)	115213
Fire Suppression:	
Fire suppression system	211000
Plumbing:	
N/A	
HVAC:	
Supply/return air system	Div. 23
Independent temperature control	230923
Electrical:	
Multilevel switching	262726
Fluorescent lighting	265100
Illumination level: See Table 8600-5	
3 duplex receptacles	262726
Double duplex receptacle adjacent to each data and video port	262726
Communications:	
T1 1 ***projector*** video port	271543
T2 1 voice port and phone	271513/273123
T3 1 data port	271513
T4 ***Ultra-short throw interactive*** projector	274119
Clock	275313
Central sound system	275123
Electronic Safety and Security:	
Life safety devices per code	283111
Miscellaneous:	
N/A	

NOTES:
1. Finishes/Features: Refer to Chapter 9 for specification references.
2. Ranges shown indicate quantities for the smallest and largest possible room size.
3. Fixed casework and loose furnishings can be also all fixed or all loose.

500 SF



CAPACITY: 5 - 7 persons
SIZE: 500 - 800 SF

PROGRAM ACTIVITIES:

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

SPATIAL RELATIONSHIPS:

- Near workroom/storage
- Near media center

ENVIRONMENTAL CONSIDERATIONS:

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

NOTES:

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

MULTIMEDIA PRODUCTION ROOM

CT-MC-7

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

LOOSE FURNISHINGS:

L1 Tables and chairs/stools

L2 Computer workstation furniture

Wastebasket

Electronic Safety and Security:	
Life safety devices per code	283111

Miscellaneous:

Pencil sharpener (optional)

Interior windows for supervision (optional) 081113/088000

The following items to be provided by the school district:

Copier, scanner, printers, binders, laminators

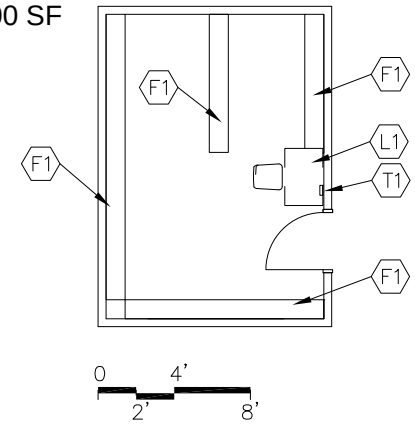
E1 Duplex receptacle with dedicated circuit for wireless devices

FEATURES[1]:	Spec. Ref.#
Fixed Items[2]:	
F1 15'-45' combination base, wall and tall cabinets	123550
F2 4'-8' of tack board or marker board	101100
F3 Pencil sharpener support (optional)	062000
F4 4' - 16' of tall bookcases	123550
F5 Work surface	123550
F6 Technology support casework (if applicable)	123550
Fire Suppression:	
Fire suppression system	211000
Plumbing:	
N/A	
HVAC:	
Supply/return air system	Div. 23
Independent temperature control	230923
Electrical:	
Multilevel switching	262726
Fluorescent lighting	265100
Illumination level: See Table 8600-5	
4 duplex receptacles	262726
Double duplex receptacle adjacent to each data and video port	262726
Communications:	
T1 1 ***projector*** video port and video display device	271543/274119
T2 1 voice port and phone	271513/273123
T3 ***Wireless access point cable above ceiling***	271513
Clock	275313
Central sound system	275123
T4 Wireless access point (WAP) as determined by Design – refer to Note 3	***272133***
T5 Classroom technology center video port	***271543, 274116, 274119, 275127***

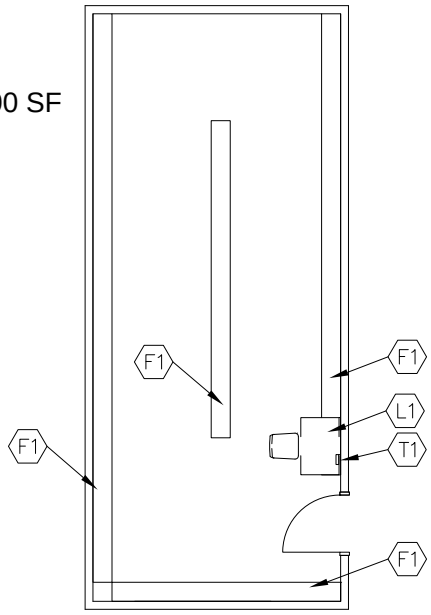
NOTES:

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

200 SF



400 SF



CAPACITY: N/A
SIZE: 200 - ***500*** SF

PROGRAM ACTIVITIES:
- Secured storage for documents, including newspapers, periodicals, microfilm and microfiche

SPATIAL RELATIONSHIPS:
- Near reading room/circulation

ENVIRONMENTAL CONSIDERATIONS:
N/A

NOTES:

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

DOCUMENT STORAGE

CT-MC-8

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

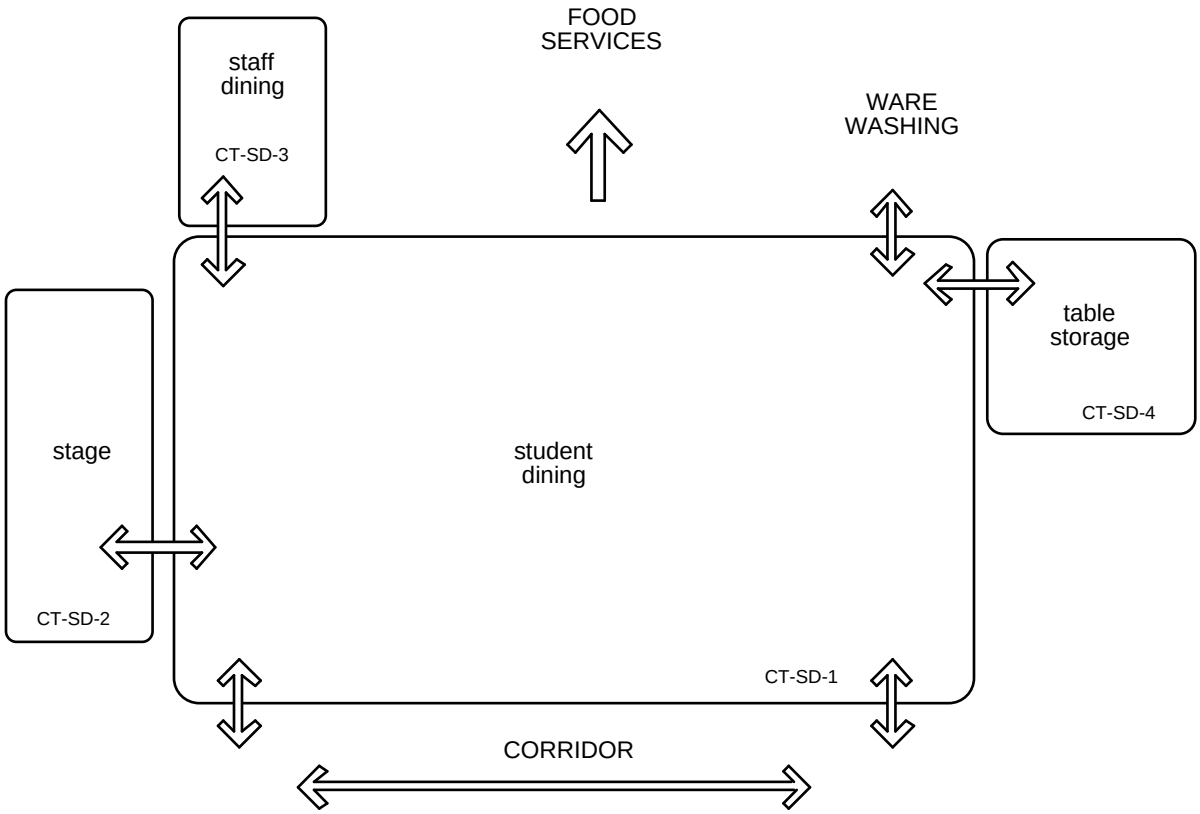
LOOSE FURNISHINGS:

L1 Computer worksurface

FEATURES:	Spec. Ref.#
Fixed Items[2]:	
F1 36' – 80' of open shelving (fixed or loose)	123550
Option: mobile storage shelving	105626
Fire Suppression:	
Fire suppression system	211000
Plumbing:	
N/A	
HVAC:	
To be determined by Design Professional	
Supplemental heat as required	Div. 23
Electrical:	
Fluorescent lighting:	265100
Illumination level: See Table 8600-***5***	
Single level switching	262726
2 duplex receptacles	262726
Communications:	
T1 1 data port (optional)	271523
Electronic Safety and Security:	
N/A	
Miscellaneous:	
N/A	

NOTES:

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



NOTE:

This is an example of how the student dining spaces in a career-technical school could be arranged. This is only meant to demonstrate the relationships between various areas of the building.

Following are the Administrative space plates for the following rooms:

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

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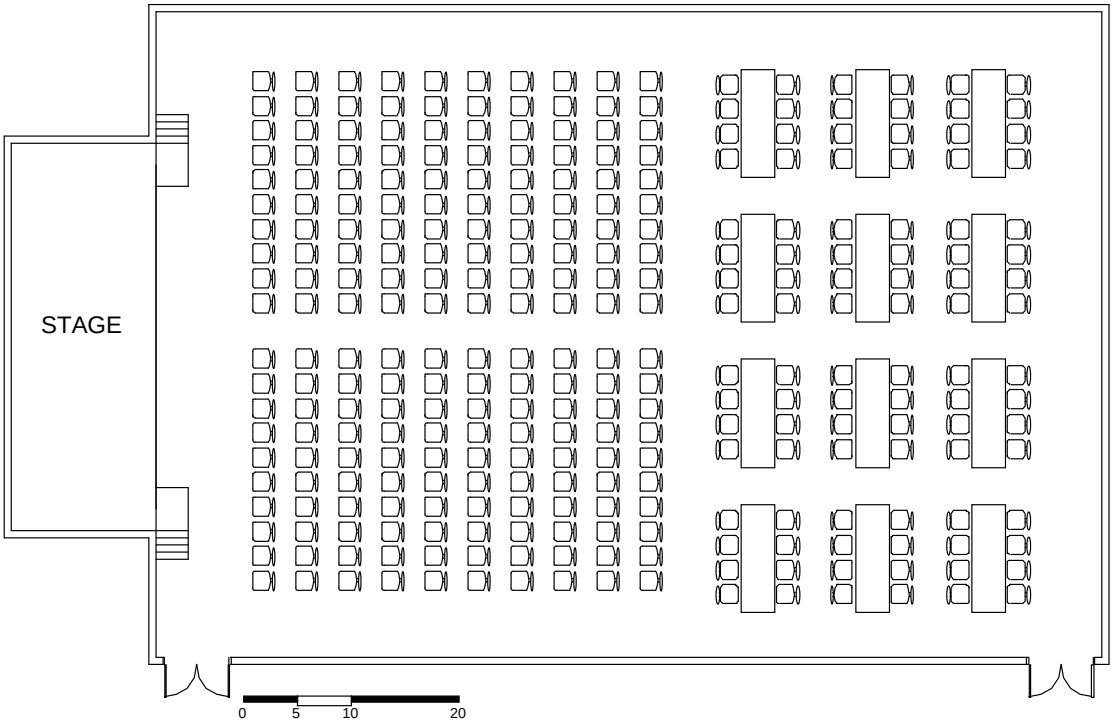


CAPACITY: 1/3 of student capacity

SIZE: 1/3 of student capacity multiplied by 17.5 SF per student or 3,000 SF whichever is greater

ANCILLARY SPACES: Kitchen,CT-FS-1
Stage, CT-SD-2
Staff Dining, CT-SD-3
Table Storage, CT-SD-4

PROGRAM ACTIVITIES:
- Student dining
- Large group instruction, meetings and banquets
- Special activities
- Refreshment area for school activities

SPATIAL RELATIONSHIPS:
- Adjacent to kitchen

ENVIRONMENTAL CONSIDERATIONS:
- Uniform non-glare lighting
- Environmental sound control - walls and ceiling to be designed for auditorium-type acoustics sound system
- Flexibility of space
- Access capability
- Environmental sound control wall minimum STC ***60***

NOTES:

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

STUDENT DINING
CT-SD-1

FINISHES[1]:	Spec. Ref.#
Flooring:	
Linoleum, rubber, ET,	096500
sheet vinyl, porcelain tile,	096516
resinous flooring	033519
polished concrete finishing,	033510
or colored concrete finishing	096723
Base:	
Resilient base	096500
Option: Porcelain tile base	093000
Ceiling[3]:	
Suspended, acoustical	095113
Painted exposed structure	099100
Reflector panels	098000
Walls:	
Painted concrete masonry units	042000/099100
Diffusing block on 2 walls (minimum) or	042000
Acoustic treatment (varies with geometry of room)	098000

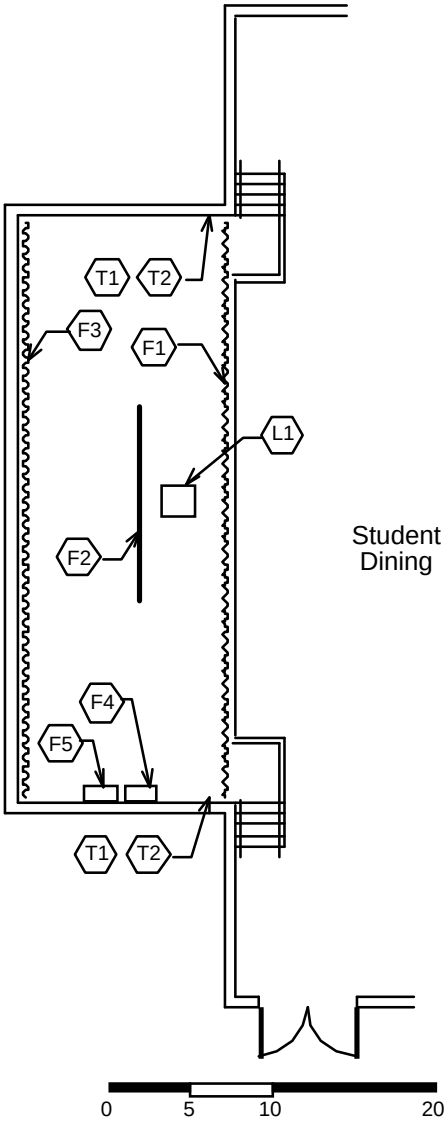
LOOSE FURNISHINGS:

L1 Tables
L2 Folding or high-density stack chairs for large assembly use
Waste receptacles
Recycling bins
Carts for chairs

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

FEATURES[1]:	Spec. Ref.#
Fixed Items:	
N/A	
Fire Suppression:	
Fire suppression system	211000
Plumbing:	
N/A	
HVAC:	
Supply/return air system	Div. 23
Independent temperature control	230923
Electrical:	
High intensity discharge lighting or fluorescent lighting	265100
Dimmable quartz lighting	265100
Illumination level: see table 8600-6	
Multilevel switching with dimming	262726
6 duplex receptacles	262726
Double duplex receptacle adjacent to each data and video port	262726
Emergency lighting per code	265100
Means of egress lighting per code	265100
Telecommunications Grounding	270526/260526
Communications:	
T1 2 voice ports	271513/273123
T2 2 ***projector*** video ports	271543
T3 2 data ports (minimum)	271513
Clocks	275313
Central sound system	275123
Student dining/auditeria sound system	275121
T4 ***Ultra-short throw interactive*** projector	274119
Electronic Safety and Security:	
Life safety devices per code	283111
Miscellaneous:	
N/A	

NOTES:
1. Finishes/Features: Refer to Chapter 9 for specification references.
2. Other types of ceiling may be appropriate based on the actual facility design. High ceilings are appropriate for auditorium-type of acoustics.
3. Ceiling height to be 18'0" AFF minimum.



CAPACITY: N/A

SIZE: student capacity multiplied by 1.5 SF or 800 SF, whichever is larger

ANCILLARY SPACES:
Student Dining, CT-SD-1

PROGRAM ACTIVITIES:
- Presentations

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

ENVIRONMENTAL CONSIDERATIONS:
- Access capability
- Sound system

NOTES:

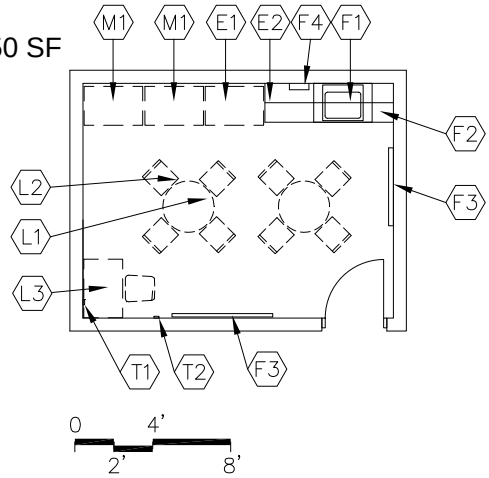
STAGE
CT-SD-2

FINISHES[1]:	Spec. Ref.#
Flooring:	
Stage: Softwood or combination hardwood and softwood	096400
Stairs: Carpet, rubber, wood, or carpet tile	096816 096813
Base:	
Ventilated resilient base	096400
Ceiling:	
Painted exposed structure	099100
Walls:	
Painted concrete masonry units	042000/099100
LOOSE FURNISHINGS:	
L1 Podium	

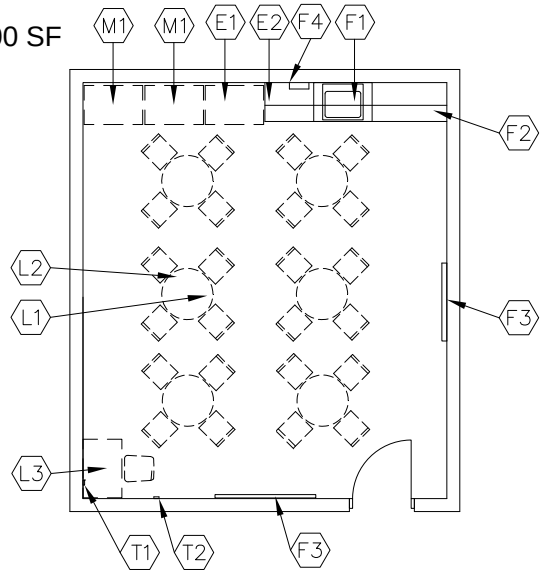
FEATURES[1]:	Spec. Ref.#
Fixed Items:	
F1 Front curtain, track, and valance	116143
F2 Projection screen	116143
F3 Rear curtain	116143
F4 Sound control console	275121
F5 Lighting control console	265100
Fire Suppression:	
Fire suppression system	211000
Plumbing:	
N/A	
HVAC:	
Supply/return air system	Div. 23
Independent temperature control	230923
Electrical:	
Fluorescent lighting:	265100
Illumination level: See Table 8600-6	
Single level switching	262726
6 duplex receptacles	262726
Double duplex receptacle adjacent to each data and video port	262726
Emergency lighting per code	265100
Means of egress lighting per code	265100
Telecommunications Grounding	270526/260526
Communications:	
T1 2 ***projector*** video ports	271543
T2 2 data ports	271513
Student dining/auditeria sound system[2]	275121
Central sound system	275123
Electronic Safety and Security:	
Life safety devices per code	283111
Miscellaneous:	
N/A	

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

450 SF



700 SF



CAPACITY: 8 – 24 staff
SIZE: 450 – ***1,200*** SF
ANCILLARY SPACES: Student Dining
CT-SD-1

PROGRAM ACTIVITIES:
- Space for staff dining

SPATIAL RELATIONSHIPS:
- Near student dining
- Near food services

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

NOTES:

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

STAFF DINING
CT-SD-3

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

LOOSE FURNISHINGS:
L1 Tables
L2 Chairs
L3 Computer workstation
Waste receptacle

EQUIPMENT:
E1 Refrigerator
E2 Microwave

FEATURES[1]:	Spec. Ref.#
Fixed Items:	
F1 3' sink base cabinet with wall cabinet	123550
F2 About 8' of base and wall cabinets	123550
F3 8'-10' combination marker board, tack board, tackable wall surface	101100
F4 Towel dispenser	102813
Fire Suppression:	
Fire suppression system	211000
Plumbing:	
Sink	224000
Plumbing connections	224000/221116/221119
HVAC:	
Supply/return air system	Div. 23
Independent temperature control	230923
Electrical:	
Single level switching	262726
Fluorescent lighting	265100
Illumination level: See Table 8600-6	
4 duplex receptacles	262726
Double duplex receptacle adjacent to each video port	262726
Receptacles for vending machines, refrigerator, and microwave	262726
Communications:	
T1 1 ***projector*** video port	271543
T2 1 voice port and phone	271513/273123
Clock	275313
Central sound system	275123
Electronic Safety and Security:	
Life safety devices per code	283111

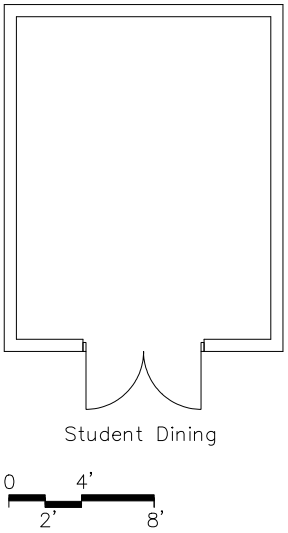
Miscellaneous:
The following items are to be funded by the school district:
M1 Vending machines

NOTES:

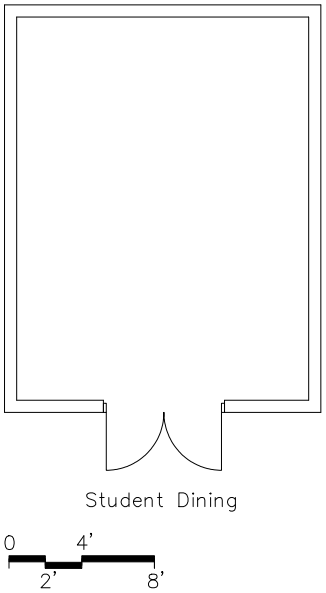
1. Finishes/Features: Refer to Chapter 9 for specification references.

TABLE STORAGE
CT-SD-4

400 SF



550 SF



CAPACITY:	N/A
SIZE:	400 - ***700*** SF
ANCILLARY SPACES:	Student Dining CT-SD-1

PROGRAM ACTIVITIES:
- Storage for tables and chairs

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

ENVIRONMENTAL CONSIDERATIONS:
N/A

NOTES:

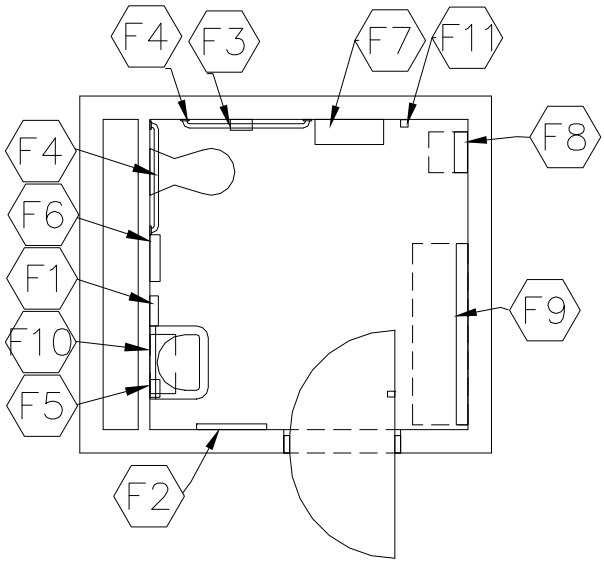
TABLE STORAGE
CT-SD-4

FINISHES[1]:	Spec. Ref.#
Flooring:	
Sealed concrete	093000
Base:	
No base	
Ceiling:	
Exposed structure	
Option: Rated gypsum wallboard	092116
Walls:	
Unpainted concrete masonry units	042000
LOOSE FURNISHINGS:	
N/A	

FEATURES[1]:	Spec. Ref.#
Fixed Items:	
N/A	
Fire Suppression:	
Fire suppression system	211000
Plumbing:	
N/A	
HVAC:	
Exhaust air system	Div. 23
Supplemental heat as required	Div. 23
Electrical:	
Single level switching	262726
Fluorescent lighting	265100
Illumination level: See Table 8600-***6***	
1 duplex receptacle	262726
Communications:	
N/A	
Electronic Safety and Security:	
N/A	
Miscellaneous:	
N/A	

NOTES:

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



CAPACITY: 2 people
SIZE: 80 SF

PROGRAM ACTIVITIES:

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

SPATIAL RELATIONSHIPS:

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

ENVIRONMENTAL CONSIDERATIONS:

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

NOTES:

FAMILY RESTROOM

CT-SD-5

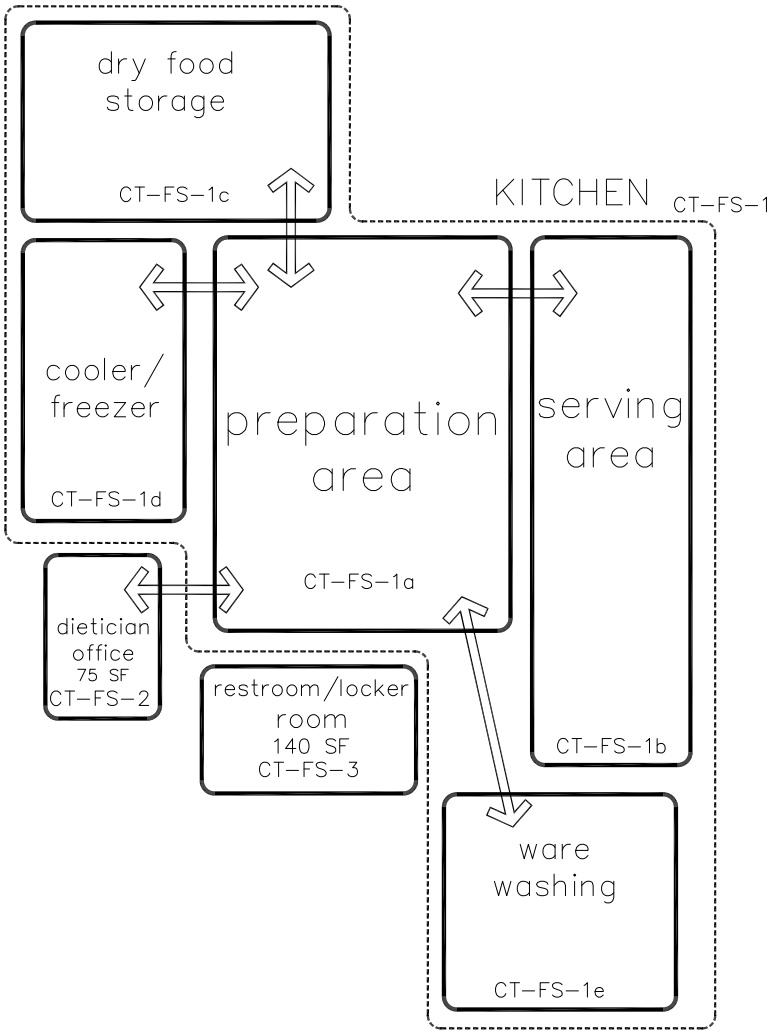
FINISHES[1]:	Spec. Ref.#
Flooring:	
ET or sheet vinyl	096516
	096500
Optional: Ceramic mosaic tile, porcelain tile, or resinous flooring	093000 096723
Base:	
Resilient base	096500
Optional: Ceramic mosaic tile, porcelain tile, resinous flooring flooring, or integral vinyl cove base	093000 096723
Ceiling: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

LOOSE FURNISHINGS:
Wastebasket

FEATURES[1]:	Spec. Ref.#
Fixed Items:	
F1 Towel dispenser	102813
F2 24" x 60" mirror	102813
F3 Toilet tissue holder	102813
F4 36" and 42" grab bar	102813
F5 Soap dispenser	102813
F6 Sanitary napkin dispenser/disposal	102813
F7 Folding utility shelf	102813
F8 Mounted child seat	102813
F9 Adult/child changing station	102813
F10 16” x 24” mirror with shelf	102813
F11 Coat hooks	102813
Fire Suppression:	
Fire suppression system	211000
Plumbing:	
Wall-mounted water closet	224000
Wall-mounted lavatory	224000
Plumbing connections	224000/221116/221119
HVAC:	
Exhaust air system	Div. 23
Supplemental heat as required	Div. 23
Electrical:	
Single level switching	262726
Fluorescent lighting	265100
Illumination level: See Table 8600-***5***	
1 duplex receptacle	262726
Communications:	
Central sound system	275123
Electronic Safety and Security:	
Life safety devices per code	283111
Miscellaneous:	
N/A	

NOTES:

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



NOTES:

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

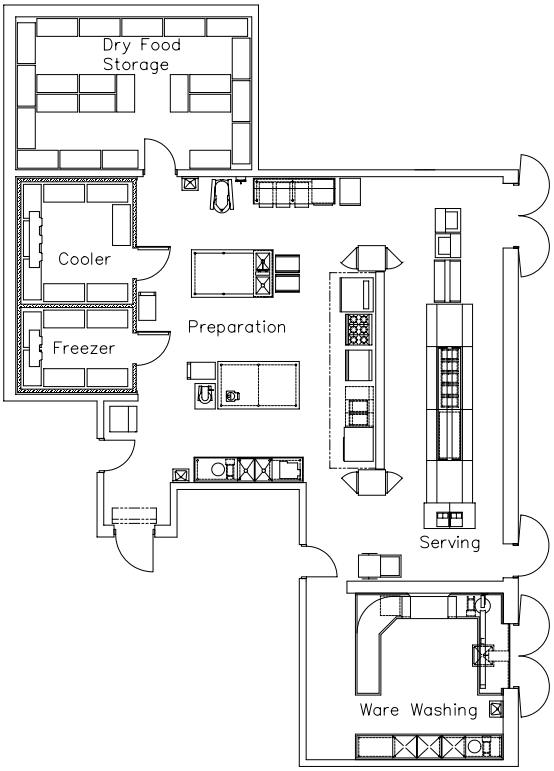
Following are the Food Service space plates:

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

KITCHEN
CT-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 CT-SD-1
Loading/Receiving Area CT-GS-7

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

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

ENVIRONMENTAL CONSIDERATIONS:
- Compliance with State Board of Health requirements

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

NOTES:

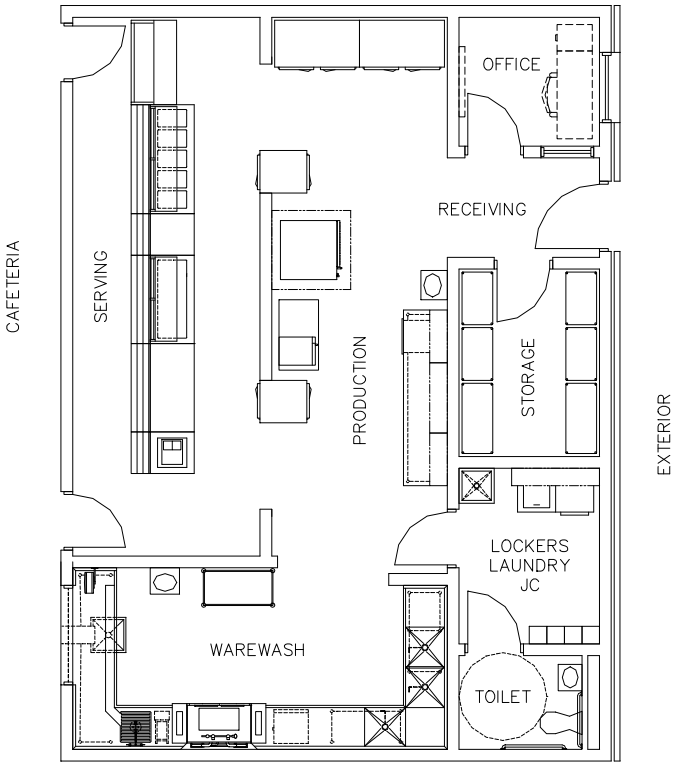
This kitchen layout is to be used only for a central kitchen operation.

This space consists of various areas:

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

Additional areas to be added:

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



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

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

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

ENVIRONMENTAL CONSIDERATIONS:
- Compliance with State Board of Health requirements

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

NOTES:

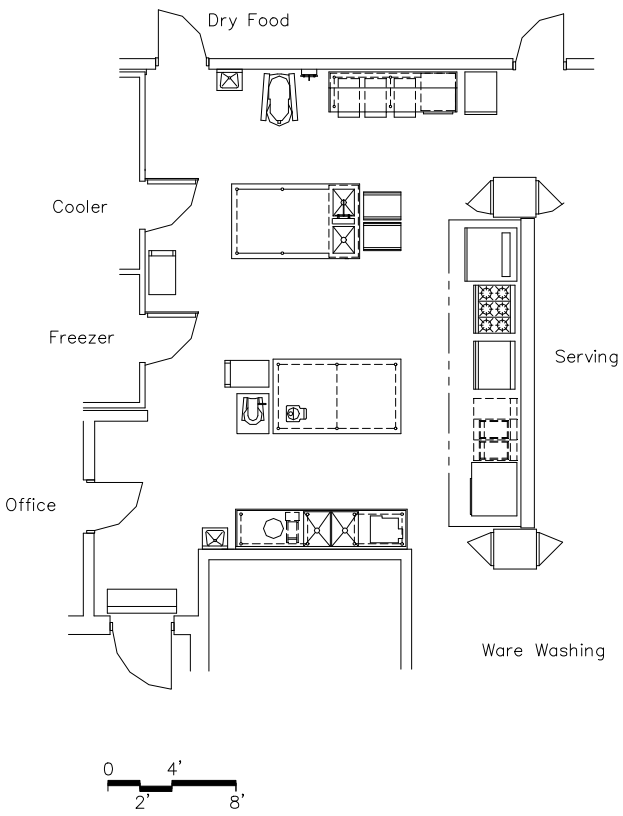
WARMING KITCHEN
CT-FS-0

FINISHES[1]:	Spec. Ref.#
Flooring:	
Quarry tile ***or***	093000
resinous flooring	***096723***
Base:	
Quarry tile base ***or integral base***	093000
Ceiling:	
Cleanable, suspended, acoustical	095113
Walls:	
Epoxy-painted concrete masonry units	042000/099100
Option: Ceramic wall tile or	093000
latex paint	099100

LOOSE FURNISHINGS:
N/A

FEATURES[1]:	Spec. Ref.#
Fixed Items:	
Food service equipment	114000
Fire Suppression:	
Fire suppression system	211000
Plumbing:	
Connections to food service eqpt.	224000
Plumbing connections	224000/221116/221119
Hand washing lavatory	224000
Gas connections	226313
HVAC:	
Supply/return air system	Div. 23
Independent temperature control	230923
Kitchen canopy exhaust system	233800
Electrical:	
Dual level switching	262726
Fluorescent lighting	265100
Illumination level: See Table 8600-***6***	
10 duplex receptacles	262726
Duplex receptacle at each cash register	262726
Emergency lighting	265100
Connections to food service eqpt.	262726
Means of egress lighting per code	265100
Communications:	
1 voice port and phone	271513/***273123***
1 data port at cash register(s)	271513
Clock	275313
Central sound system	275123
Electronic Safety and Security:	
Life safety devices per code	283111
Miscellaneous:	
N/A	

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



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

PROGRAM ACTIVITIES:

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

SPATIAL RELATIONSHIPS:

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

ENVIRONMENTAL CONSIDERATIONS:

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

NOTES:

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

KITCHEN - Preparation Area

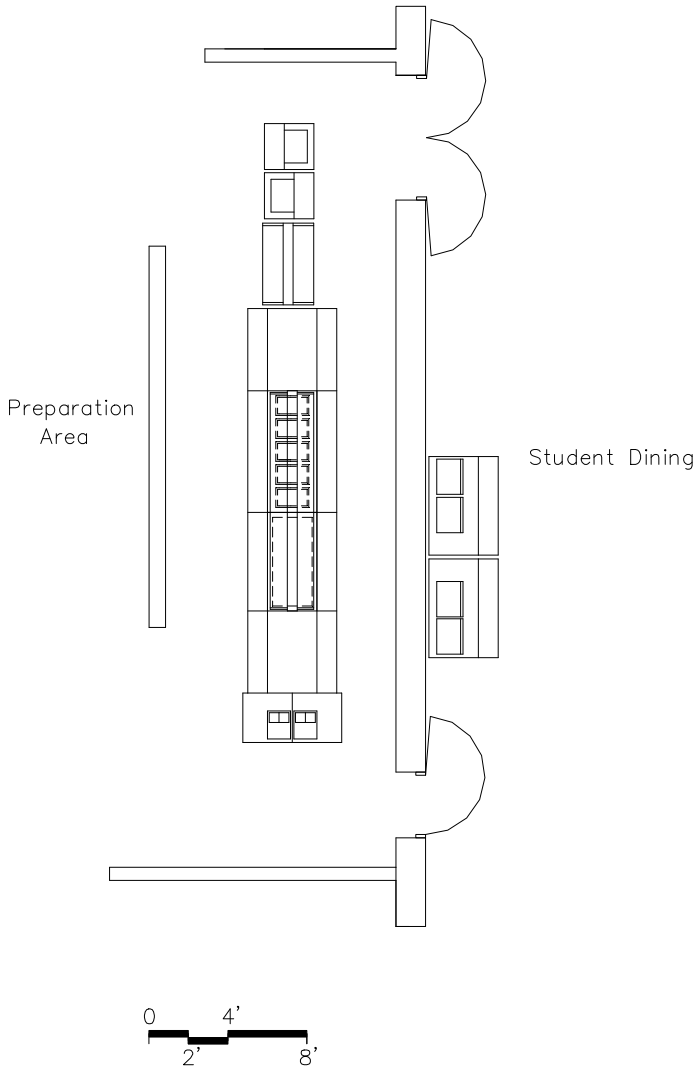
CT-FS-1a

FINISHES[1]:	Spec. Ref.#
Flooring:	
Quarry tile ***or***	093000
resinous flooring	***096723***
Base:	
Quarry tile base ***or integral base***	093000
Ceiling:	
Cleanable, suspended, acoustical	095113
Walls:	
Epoxy-painted concrete masonry units	042000/099100
Option: ceramic wall tile	093000
or latex paint	099100
LOOSE FURNISHINGS:	
N/A	

FEATURES[1]:	Spec. Ref.#
Fixed Items:	
Food service equipment	114000
Fire Suppression:	
Fire suppression system	211000
Plumbing:	
Connections to food service equipment	224000
Plumbing connections	224000/221116/221119
Hand washing lavatory	224000
Gas connections	226313
HVAC:	
Supply/return air system	Div. 23
Independent temperature control	230923
Kitchen canopy exhaust system	233800
Electrical:	
Dual level switching	262726
Fluorescent lighting	265100
Illumination level: See Table 8600-***6***	
4 duplex receptacles	262726
Emergency lighting	265100
Connections to food service equipment	262726
Means of egress lighting per code	265100
Communications:	
1 voice port and phone	271513/***273123***
Clock	275313
Central sound system	275123
Electronic Safety and Security:	
Life safety devices per code	283111
Miscellaneous:	
N/A	

NOTES:

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



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

PROGRAM ACTIVITIES:
- Space for serving of food

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

ENVIRONMENTAL CONSIDERATIONS:
- Cleanable building services

NOTES:

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

KITCHEN - Serving Area

CT-FS-1b

FINISHES[1]:	Spec. Ref.#
Flooring:	
Quarry tile	093000
Optional: porcelain tile ***or resinous flooring***	***096723***
Base:	
Quarry tile base	093000
Optional: porcelain tile base ***or integral base***	
Ceiling:	
Cleanable, suspended, acoustical	095113
Walls:	
Epoxy-painted concrete masonry units	042000/099100
Ceramic wall tile	093000
or latex paint	099100

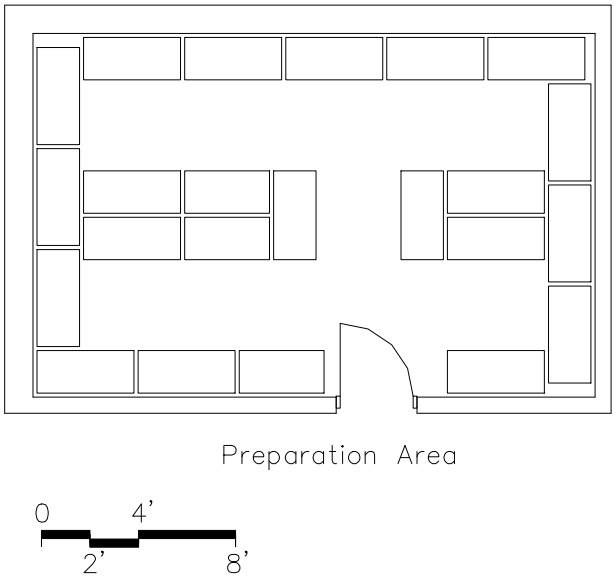
LOOSE FURNISHINGS:

N/A

FEATURES[1]:	Spec. Ref.#
Fixed Equipment:	
Food service equipment	114000
Fire Suppression:	
Fire suppression system	211000
Plumbing:	
Connections to food service equipment	224000
HVAC:	
Supply/return air system	Div. 23
Electrical:	
Dual level switching	262726
Fluorescent lighting	265100
Illumination level: See Table 8600-***6***	
4 duplex receptacles	262726
Connections to food service equipment	262726
Emergency lighting	265100
Means of egress lighting per code	265100
Duplex receptacle at each cash register	262726
Communications::	
Data port(s) at cash register(s)	271513
Clock	275313
Central sound system	275123
1 voice port and phone	271513/***273123***
Electronic Safety and Security:	
Life safety devices per code	283111
Miscellaneous:	
N/A	

NOTES:

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



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

PROGRAM ACTIVITIES:

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

SPATIAL RELATIONSHIPS:

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

ENVIRONMENTAL CONSIDERATIONS:

- Continuous conditioning of air
- Cleanable building surfaces

NOTES:

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

KITCHEN - Dry Food Storage

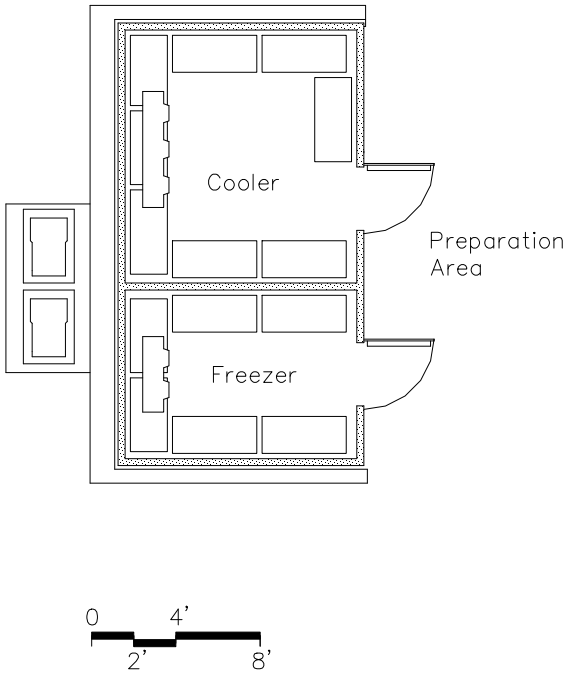
CT-FS-1c

FINISHES[1]:	Spec. Ref.#
Flooring:	
Linoleum, ET, or sheet vinyl	096500
Option: Quarry tile ***or***	093000
resinous flooring	096516
	096723
Base:	
Resilient base	096500
Option: Quarry tile	093000
Ceiling:	
Cleanable, suspended, acoustical	095113
Walls:	
Epoxy-painted concrete masonry units	042000/099100
Option: Ceramic wall tile	093000
or latex paint	099100
LOOSE FURNISHINGS:	
N/A	

FEATURES[1]:	Spec. Ref.#
Fixed Items:	
Food service equipment	114000
Fire Suppression:	
Fire suppression system	211000
Plumbing:	
N/A	
HVAC:	
Exhaust air system	Div. 23
Supply/return air system	Div. 23
Electrical:	
Single level switching	262726
Fluorescent lighting	265100
Illumination level: See Table 8600-***6***	
1 duplex receptacle	262726
Communications:	
N/A	
Electronic Safety and Security:	
Life safety devices per code	283111
Miscellaneous:	
N/A	

NOTES:

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



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

PROGRAM ACTIVITIES:
- Space for refrigerated storage of perishable products

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

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

NOTES:

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

KITCHEN - Cooler/Freezer

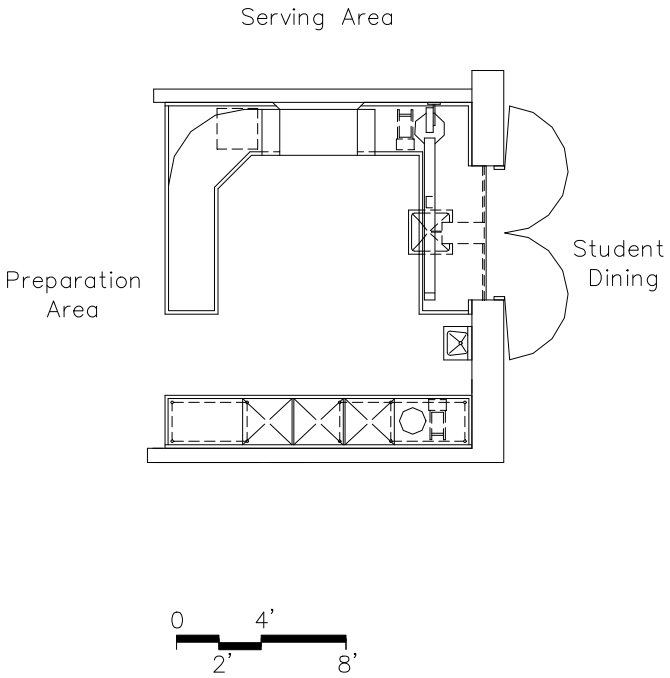
CT-FS-1d

FINISHES[1]:	Spec. Ref.#
Flooring:	
Quarry tile ***or***	093000
resinous flooring	***096723***
Base:	
Quarry tile base ***or integral base***	093000
Ceiling:	
Manufactured insulated panel	114000
Walls:	
Manufactured insulated panel	114000
LOOSE FURNISHINGS:	
N/A	

FEATURES[1]:	Spec. Ref.#
Fixed Items:	
Food service equipment	114000
Fire Suppression:	
Fire suppression system	211000
Plumbing:	
N/A	
HVAC:	
Exhaust air system for compressors	Div. 23
Electrical:	
Single level switching	262726
Incandescent lighting	265100
Illumination level: See Table 8600-***6***	
Electrical connections to freezer/cooler refrigeration equipment	262726
Communications:	
N/A	
Electronic Safety and Security:	
N/A	
Miscellaneous:	
N/A	

NOTES:

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



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

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

SPATIAL RELATIONSHIPS:
- Adjacent to student dining

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

NOTES:

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

KITCHEN - Ware Washing

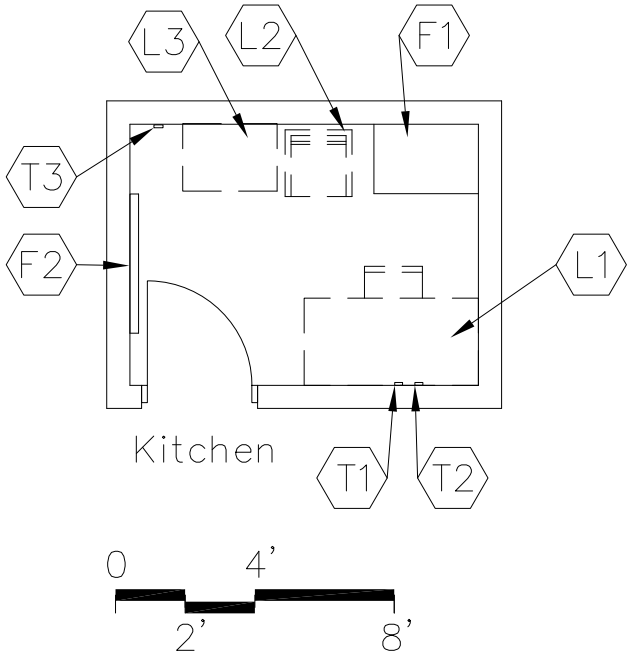
CT-FS-1e

FINISHES[1]:	Spec. Ref.#
Flooring:	
Quarry tile ***or resinous flooring***	093000 ***096723***
Base:	
Quarry tile base ***or integral base***	093000
Ceiling:	
Cleanable, suspended, acoustical	095113
Walls:	
Epoxy-painted concrete masonry units	***042000***/099100
Option: Ceramic wall tile	093000
or latex paint	099100
LOOSE FURNISHINGS:	
N/A	

FEATURES[1]:	Spec. Ref.#
Fixed Items:	
Food service equipment	114000
Fire Suppression:	
Fire suppression system	211000
Plumbing:	
Lavatory	224000
Connections to food service equipment	224000
HVAC:	
Supply/return air system	Div. 23
Independent temperature control	230923
Exhaust hood system	Div. 23
Electrical:	
Dual level switching	262726
Fluorescent lighting	265100
Illumination level: See Table 8600-***6***	
1 duplex receptacle	262726
Connections to food service equipment	262726
Communications:	
Central sound system	275123
Electronic Safety and Security:	
Life safety devices per code	283111
Miscellaneous:	
N/A	

NOTES:

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



PROGRAM ACTIVITIES:

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

SPATIAL RELATIONSHIPS:

- Adjacent to kitchen

ENVIRONMENTAL CONSIDERATIONS:

- 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 CT-FS-1

NOTES:

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

DIETICIAN'S OFFICE

CT-FS-2

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

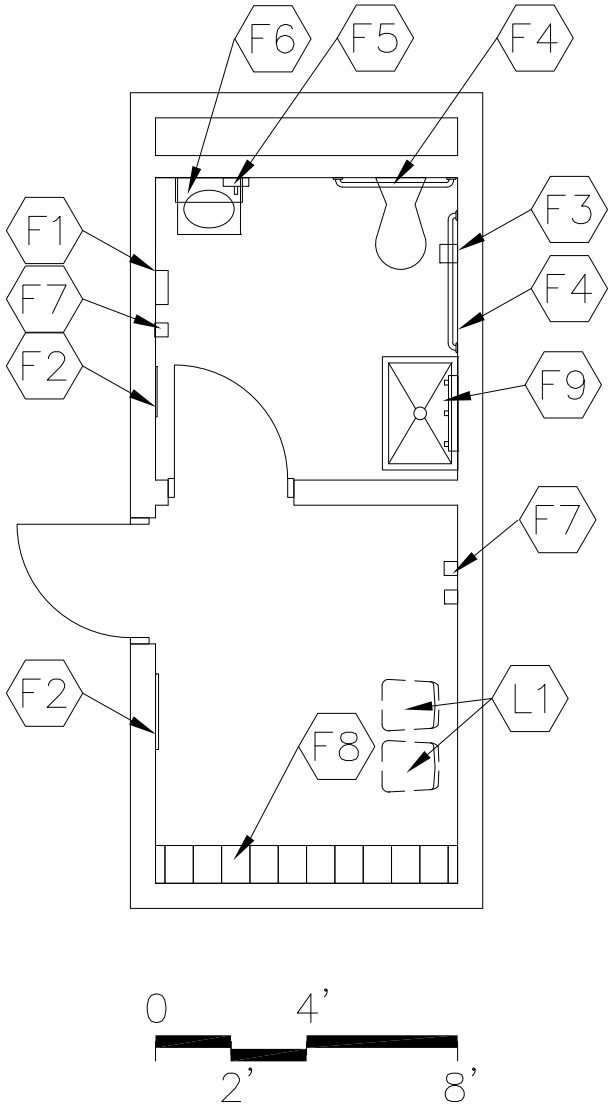
LOOSE FURNISHINGS:

L1 Desk and chair
L2 Visitor chair
L3 File cabinet
Wastebasket

FEATURES[1]:	Spec. Ref.#
Fixed Items:	
F1 Tall wardrobe (optional)	123550
F2 4' of tack board	101100
Fire Suppression:	
Fire suppression system	211000
Plumbing:	
N/A	
HVAC:	
Supply/return air system	Div. 23
Independent temperature control (coupled with similarly loaded adjacent spaces)	230923
Electrical:	
Single level switching	262726
Fluorescent lighting	265100
Illumination level: See Table 8600-6	
4 duplex receptacles	262726
Double duplex receptacle adjacent to data and video port	262726
Communications:	
T1 1 voice port and phone	271513/273123
T2 1 data port near workstation	271513
T3 1 ***projector*** video port	271543
Central sound system	275123
Clock	275313
Electronic Safety and Security:	
Life safety devices per code	283111
Miscellaneous:	
Interior window (optional)	081113/088000

NOTES:

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



CAPACITY: 2 persons
SIZE: 140 SF
ANCILLARY SPACES:

PROGRAM ACTIVITIES:
- Personal and health needs for food service staff

SPATIAL RELATIONSHIPS:
- Adjacent to kitchen

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

NOTES:

RESTROOM / LOCKER ROOM

CT-FS-3

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

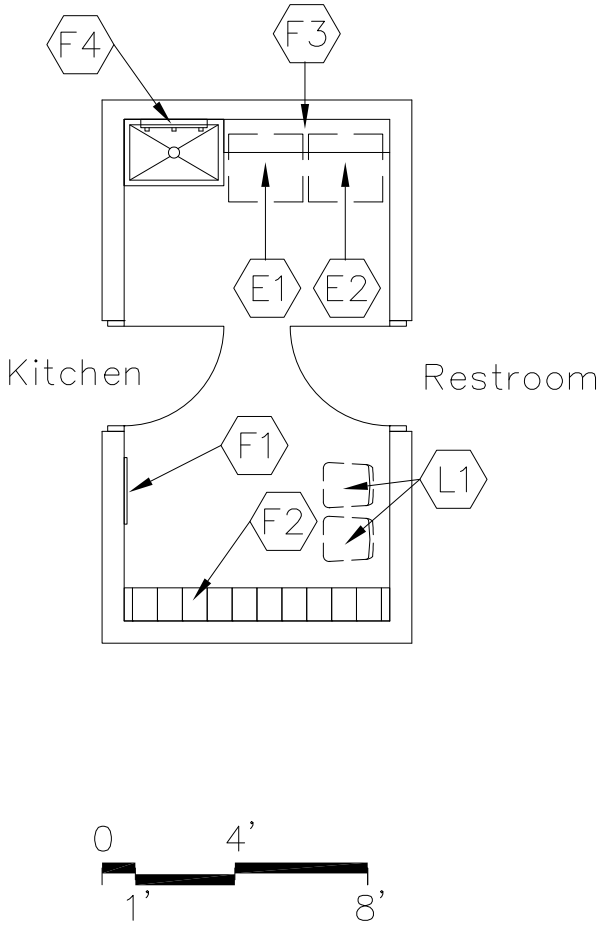
LOOSE FURNISHINGS:

L1 Chairs
Wastebasket

FEATURES[1]:	Spec. Ref.#
Fixed Items:	
F1 Towel dispenser	102813
F2 2, 24" x 60" mirrors	102813
F3 Toilet tissue holder	102813
F4 36" and 42" grab bar	102813
F5 Soap dispenser	102813
F6 Mirror with shelf above sink(optional)	102813
F7 Coat hooks	102813
F8 Lockers 12” x 12” x 60”	105113
F9 Mop holder	102813
Fire Suppression:	
Fire suppression system	211000
Plumbing:	
Wall-mounted water closet	224000
Wall-mounted lavatory	224000
Floor service sink	224000
Plumbing connections	224000/221116/221119
HVAC:	
Exhaust air system	Div. 23
Supplemental heat as required	Div. 23
Electrical:	
Single level switching	262726
Fluorescent lighting	265100
Illumination level: See Table 8600-***6***	
2 duplex receptacles	262726
Communications:	
Central sound system	275123
Electronic Safety and Security:	
Life safety devices per code	283111
Miscellaneous:	
N/A	

NOTES:

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



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

PROGRAM ACTIVITIES:

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

SPATIAL RELATIONSHIPS:

- Adjacent to kitchen
- Adjacent to restroom

ENVIRONMENTAL CONSIDERATIONS:

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

NOTES:

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

LOCKER ROOM

CT-FS-4

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

LOOSE FURNISHINGS:

L1 Chairs
Wastebasket

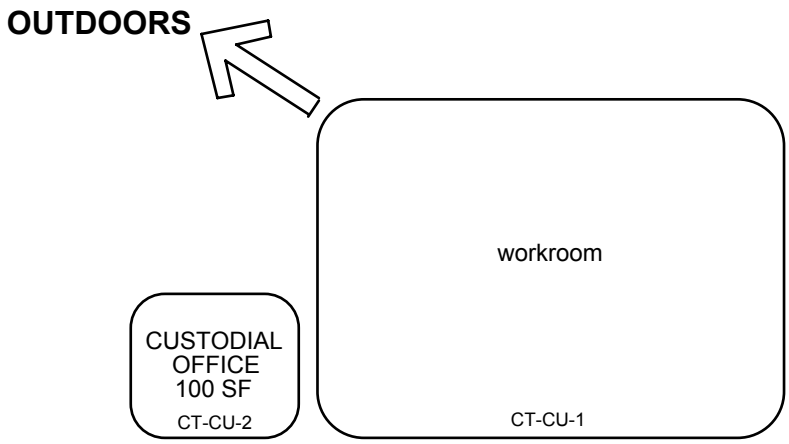
EQUIPMENT:

E1 Washer
E2 Dryer

FEATURES[1]:	Spec. Ref.#
Fixed Items:	
F1 24" x 60" mirror (optional)	102813
F2 Lockers 12" x 12" x 60"	105113
F3 6' of wall cabinets or shelf (optional)	123550
F4 Mop holder	102813
Fire Suppression:	
Fire suppression system	211000
Plumbing:	
Plumbing connections	224000/221116/221119
Floor service sink	224000
Washer connection	224000
HVAC:	
Exhaust air system	Div. 23
Supplemental heat as required	Div. 23
Dryer vent system	Div. 23
Electrical:	
Single level switching	262726
Fluorescent lighting	265100
Illumination level: See Table 8600-***6***	
1 duplex receptacle	262726
Connections for washer and dryer	262726
Communications:	
Central sound system	275123
Clock	275313
Electronic Safety and Security:	
Life safety devices per code	283111
Miscellaneous:	
Provide storage cabinet for supplies if required by governing agency.	

NOTES:

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



NOTES:

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

Following are the Custodial space plates:

CT-CU-1 Workroom
CT-CU-2 Custodial Office

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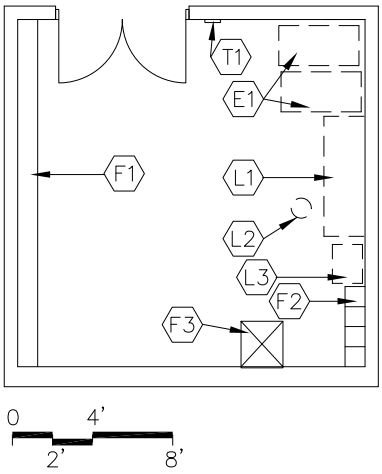
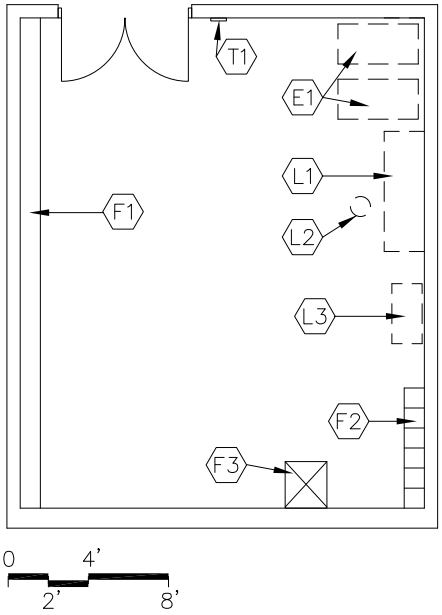
200 SF



400 SF



CAPACITY: N/A
SIZE: 200 - ***800*** SF

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

SPATIAL RELATIONSHIPS:
- Near central storage area
- Near custodial office

ENVIRONMENTAL CONSIDERATIONS:
N/A

NOTES:

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

WORKROOM
CT-CU-1

FINISHES[1]:	Spec. Ref.#
Flooring:	
Polished concrete finishing,	033510
colored concrete finishing, or	033519
sealed concrete	***093000***
Base:	
Resilient base	096500
Ceiling:	
Suspended, acoustical	095113
Walls:	
Painted concrete masonry units	042000/099100

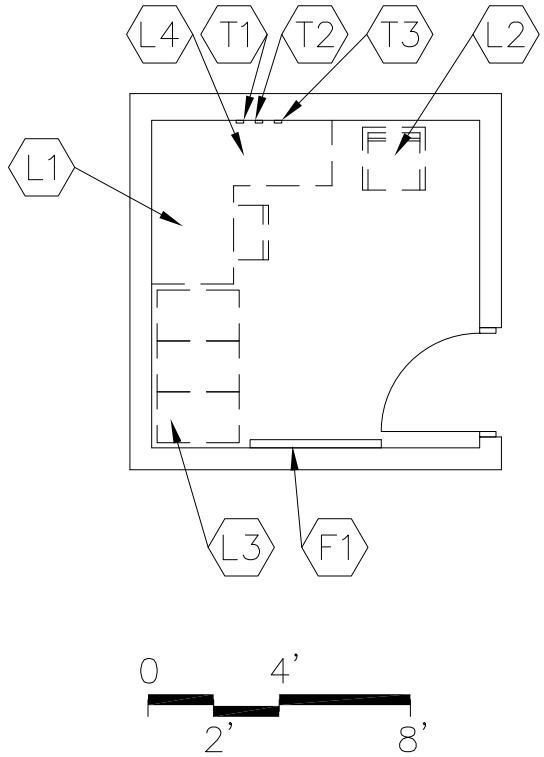
LOOSE FURNISHINGS:
L1 Workbench
L2 Stool
L3 Tool cabinet
Waste receptacles

EQUIPMENT:
E1 Recycling bins

FEATURES[1]:	Spec. Ref.#
Fixed Items[2]:	
F1 10' - 24' of open shelving, depths can vary (fixed or loose)	123550
F2 4 - 6 lockers	105113
F3 Mop holder	102813
Fire Suppression:	
Fire suppression system	211000
Plumbing:	
Floor service sink	224000
HVAC:	
Supply/return air system	Div. 23
Independent temperature control	230923
Electrical:	
Fluorescent lighting	265100
Illumination level: See Table 8600-***6***	
Single level switching	262726
4 duplex receptacles (minimum)	262726
Electrical receptacles for custodial equipment	262726
Communications:	
T1 1 voice port and phone	271513/***273123***
Central sound system	275123
Clock	275313
Electronic Safety and Security:	
Life safety devices per code	283111
Miscellaneous:	
N/A	

NOTES:

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



PROGRAM ACTIVITIES:

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

SPATIAL RELATIONSHIPS:

- Near custodial workroom

ENVIRONMENTAL CONSIDERATIONS:

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

CAPACITY: N/A
SIZE: 100 ***- 400*** SF

NOTES:

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

CUSTODIAL OFFICE

CT-CU-2

FINISHES[1]:	Spec. Ref.#
Flooring:	
Linoleum,	096500
ET, sheet vinyl,	096516
polished concrete finishing,	033510
colored concrete finishing, or	033519
resinous flooring	***096723***
Base:	
Resilient base	096500
Ceiling:	
Suspended, acoustical	095113
Walls:	
Painted concrete masonry units	042000/099100

LOOSE FURNISHINGS:

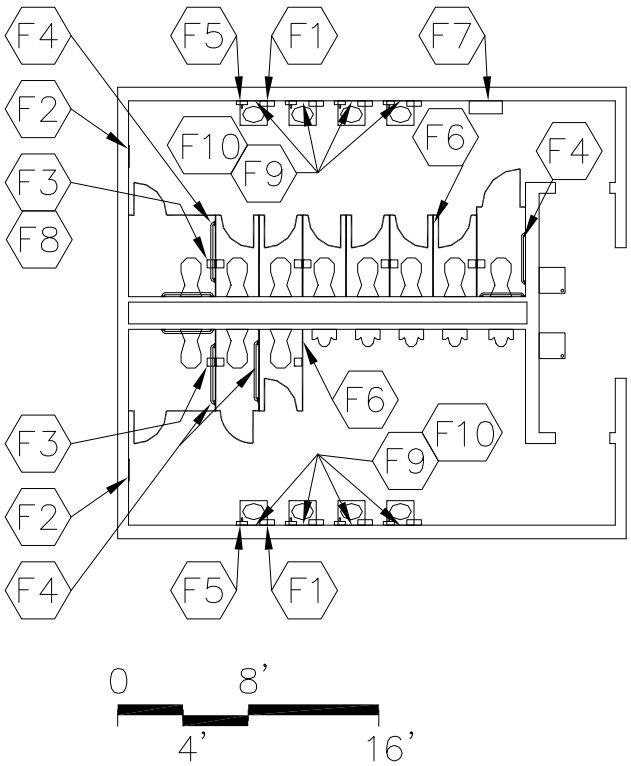
L1 Desk and chair
L2 Visitor chair
L3 File cabinets
L4 Computer desk return
Wastebasket

FEATURES[1]:	Spec. Ref.#
Fixed Items:	
F1 4' of tack board (optional)	101100
Fire Suppression:	
Fire suppression system	211000
Plumbing:	
N/A	
HVAC:	
Supply/return air system	Div. 23
Independent temperature control (coupled with similarly loaded adjacent spaces)	230923
Electrical:	
Single level switching	262726
Fluorescent lighting	265100
Illumination level: See Table 8600-***6***	
4 duplex receptacles	262726
Double duplex receptacle adjacent to data and modem port	262726
Communications:	
T1 Modem port for temperature controls computer	271523
T2 1 voice port and phone	271513/***273123***
T3 1 data port near workstation	271513
Central sound system	275123
Clock	275313
Electronic Safety and Security:	
Life safety devices per code	283111
Miscellaneous:	
Interior window (optional)	081113/088000

NOTES:

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

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



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

PROGRAM ACTIVITIES

- Personal and health needs for the general public
- Groups of restrooms should be located in several areas throughout the building

SPATIAL RELATIONSHIPS:

- Near student dining area
- Near public use areas, such as media center and gymnasium
- Near academic core area

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 ***CT-GS-8***.

LARGE GROUP RESTROOMS

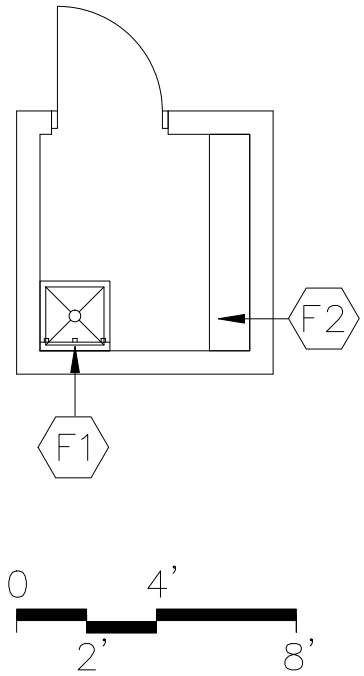
CT-GS-1

FINISHES[1]:	Spec. Ref.#
Flooring:	
Ceramic mosaic tile	093000
Optional: porcelain tile,	093000
rubber, resinous flooring, or	096723
unbacked sheet vinyl with welded seams	***096500***
Base:	
Ceramic mosaic tile base	093000
Optional: structural glazed tile,	096616
porcelain tile base,	093000
resinous flooring, or	096723
integral tile base	***096500***
Ceiling:	
Suspended, acoustical	095113
Option: Abuse resistant gypsum wallboard	092116
Walls:	
Painted concrete masonry unit	042000/099100
LOOSE FURNISHINGS:	
Waste Receptacles	

FEATURES[1]:	Spec. Ref.#
Fixed Items:	
F1 Towel dispensers	102813
F2 24" x 60" mirror	102813
F3 Toilet tissue holders	102813
F4 36" and 42" grab bar	102813
F5 Soap dispensers	102813
F6 Toilet partitions	102113
F7 Sanitary product dispenser	102813
F8 Sanitary product receptacles	102813
F9 16" x 24" mirrors with shelf (optional)	102813
F10 Shelves (optional)	123550
Fire Suppression:	
Fire suppression system	211000
Plumbing:	
Wall-mounted water closets	224000
Wall-mounted urinals	224000
Wall-mounted lavatories or wash fountains	224000
Wall hydrants	224000
Plumbing connections	224000/221116/221119
Floor drains	Div. 22
Drinking water cooler	224000
HVAC:	
Exhaust air system	Div. 23
Supplemental heat as required	Div. 23
Electrical:	
Single level switching	262726
Fluorescent lighting	265100
Illumination level: See Table 8600-***5***	
1 duplex receptacle	262726
Emergency lighting	265100
Communications:	
Central sound system	275123
Electronic Safety and Security:	
Life safety devices per code	283111
Miscellaneous:	
N/A	

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

CUSTODIAL CLOSET
CT-GS-2



CAPACITY: N/A
SIZE: 50 SF

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

SPATIAL RELATIONSHIPS:
- Near large group restrooms

ENVIRONMENTAL CONSIDERATIONS:
N/A

NOTES:

CUSTODIAL CLOSET
CT-GS-2

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

LOOSE FURNISHINGS:
Shelving (optional)

FEATURES[1]:	Spec. Ref.#
Fixed Items:	
F1 Mop holder	102813
F2 Fixed or loose shelving (optional)	123550
Fire Suppression:	
Fire suppression system	211000
Plumbing:	
Service sink or floor drain sink	224000
Plumbing connections	224000/221116/221119
HVAC:	
Exhaust air system	Div. 23
Electrical:	
Single level switching	262726
Fluorescent lighting	265100
Illumination level: See Table 8600-***5***	
1 duplex receptacle	262726

Communications:
N/A

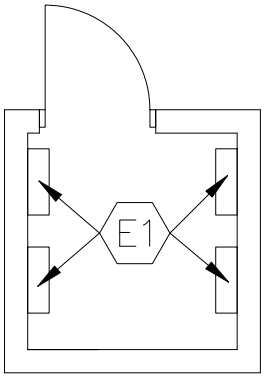
Electronic Safety and Security:
N/A

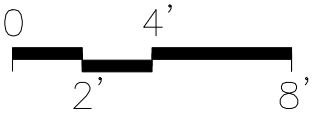
Miscellaneous:
N/A

NOTES:

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

Space to be determined by Design Professional.





CAPACITY: N/A
SIZE: 50 SF

PROGRAM ACTIVITIES:
- Space for electrical wiring and panels

SPATIAL RELATIONSHIPS:
N/A

ENVIRONMENTAL CONSIDERATIONS:
N/A

NOTES:

ELECTRICAL CLOSET

CT-GS-3

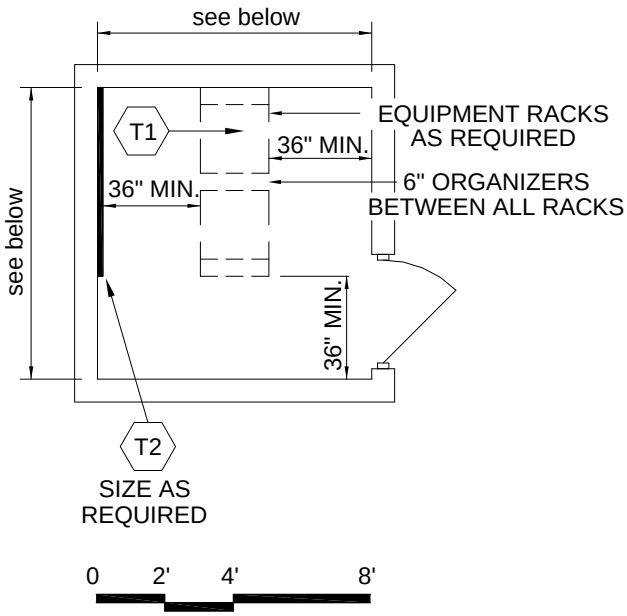
FINISHES[1]:	Spec. Ref.#
Flooring:	
Sealed concrete	033000
Base:	
No base	
Ceiling:	
Exposed structure	---
Walls:	
Unpainted concrete masonry units	042000

LOOSE FURNISHINGS:
N/A

FEATURES[1]:	Spec. Ref.#
Fixed Items:	
N/A	
Fire Suppression:	
Fire suppression system	211000
Plumbing:	
N/A	
HVAC:	
To be determined by Design Professional	
Electrical:	
Single level switching	262726
Fluorescent lighting	265100
Illumination level: See Table 8600-***6***	
1 duplex receptacle	262726
E1 Electrical switchboard	262413/262416
Communications:	
N/A	
Electronic Safety and Security:	
N/A	
Miscellaneous:	
N/A	

NOTES:

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



CAPACITY: N/A

SIZE:

TR Serving Zone > 188 ports:
minimum 10 ft. x 12 ft.
TR Serving Zone of 96-188 ports:
minimum 8 ft. x 10 ft.
TR Serving Zone of < 96 ports:
minimum 8 ft. x 8 ft.

PROGRAM ACTIVITIES:

- Space for technology needs

SPATIAL RELATIONSHIPS:
N/A

ENVIRONMENTAL CONSIDERATIONS:
N/A

NOTES:

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

TELECOMMUNICATIONS ROOM

CT-GS-4

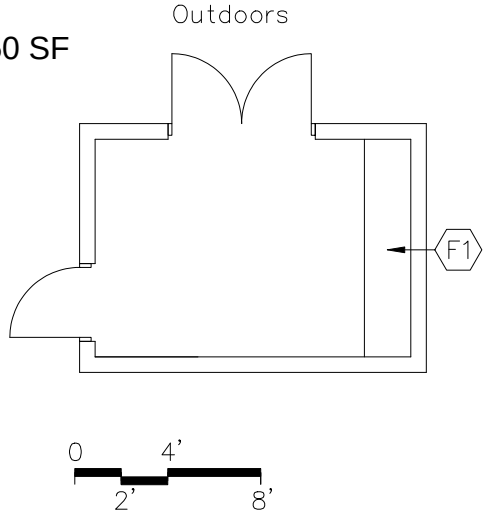
FINISHES[1]:	Spec. Ref.#
Flooring:	
Sealed concrete,	033000
polished concrete finishing, or	033510
colored concrete finishing	033519
Base:	
No base	
Ceiling:	
Exposed structure	---
Walls:	
Unpainted concrete masonry units	042000
LOOSE FURNISHINGS	
N/A	

FEATURES[1]:	Spec. Ref.#
Fixed Items:	
N/A	
Fire Suppression:	
Fire suppression system	211000
Plumbing:	
N/A	
HVAC:	
Cooling and Exhaust air system	Div. 23
Electrical:	
Single level switching	262726
Fluorescent lighting	265100
Illumination level: See Table 8600-6	
1 duplex receptacle	262726
Receptacles for data equipment	262726
Telecommunications Grounding	270526/260526
Standby power	263213/263600
Communications:	
T1 Technology equipment	
Central sound system	275123
Telephone Wiring	271313/271513
Integrated Telephone System	273123
Video Wiring	271543
Digital on Demand Delivery System	274125
Local Area Network Wiring	271513/271323
Local Area Network Electronics	272100/273123
Grounding & Infrastructure Equipment	270526/271100
T2 1/4” plywood back board	271313
Electronic Safety and Security:	
Security System	281300/281600/282300
Miscellaneous:	
N/A	

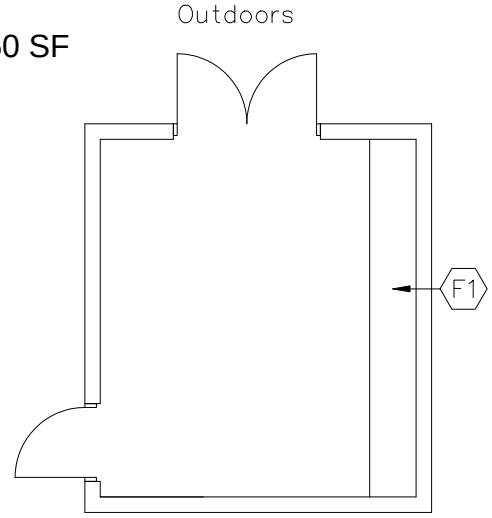
NOTES:

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

150 SF



250 SF



CAPACITY: N/A
SIZE: 150 - 500 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

CT-GS-5

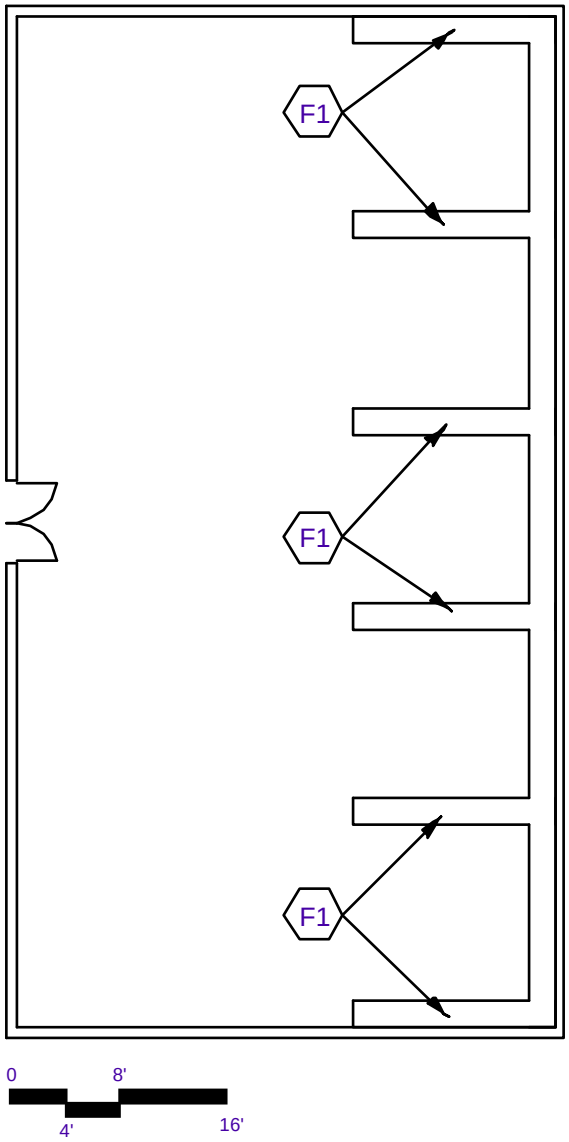
FINISHES[1]:	Spec. Ref.#
Flooring:	
Sealed concrete	033000
Base:	
No base	
Ceiling:	
Exposed structure	---
Walls:	
Unpainted concrete masonry units	042000
LOOSE FURNISHINGS	
N/A	

FEATURES[1]:	Spec. Ref.#
Fixed Items[2]:	
F1 8'-20' of open shelving , depths may vary (fixed or loose)	123550
Fire Suppression:	
Fire suppression system	211000
Plumbing:	
N/A	
HVAC:	
Exhaust air system	Div. 23
Supplemental heat as required	Div. 23
Electrical:	
Single level switching	262726
Fluorescent lighting	265100
Illumination level: See Table 8600-***6***	
Duplex receptacles	262726
Communications:	
N/A	
Electronic Safety and Security:	
Life safety devices per code	283111
Miscellaneous:	
N/A	

NOTES:

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

CENTRAL STORAGE / DISTRIBUTION CENTER
CT-GS-6



CAPACITY: N/A
SIZE: 1000 - 1667 SF

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

SPATIAL RELATIONSHIPS:
- Near loading/receiving area
- Direct access to building circulation

ENVIRONMENTAL CONSIDERATIONS:
N/A

NOTES:

CENTRAL STORAGE / DISTRIBUTION AREA

CT-GS-6

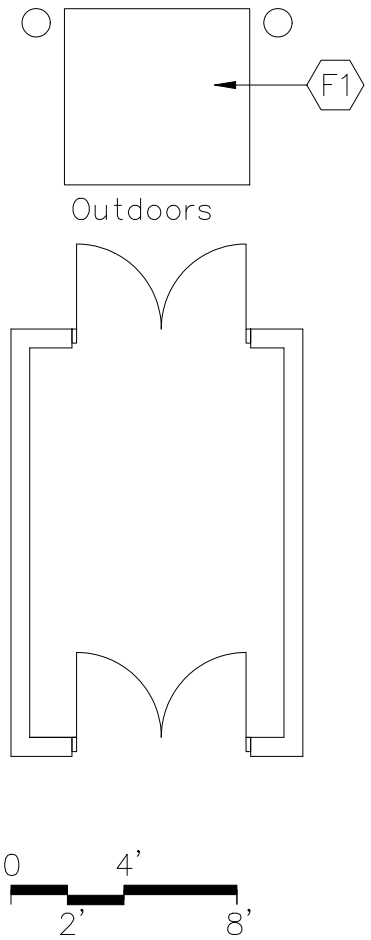
FINISHES[1]:	Spec. Ref.#
Flooring:	
Sealed concrete	033000
Base:	
No base	
Ceiling:	
Exposed structure	---
Walls:	
Unpainted concrete masonry units	042000
LOOSE FURNISHINGS:	
N/A	

FEATURES[1]:	Spec. Ref.#
Fixed Items[2]:	
F1 26' - 32' of open shelving (total), depths may vary (fixed or loose)	123550
Option: mobile storage shelving	105626
Fire Suppression:	
Fire suppression system	211000
Plumbing:	
N/A	
HVAC:	
Exhaust air system	Div. 23
Supplemental heat as required	Div. 23
Electrical:	
Single level switching	262726
Fluorescent lighting	265100
Illumination level: See Table 8600-***6***	
Duplex receptacles	262726
Communications:	
N/A	
Electronic Safety and Security:	
Life safety devices per code	283111
Miscellaneous:	
N/A	

NOTES:

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

Recycling space to be determined by Design Professional.



CAPACITY: N/A
SIZE: 120 SF

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

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

ENVIRONMENTAL CONSIDERATIONS:
N/A

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

NOTES:

LOADING/RECEIVING AREA

CT-GS-7

FINISHES[1]:	Spec. Ref.#
Flooring:	
Sealed concrete	033000
Base:	
No base	
Ceiling:	
Exposed structure	
Walls:	
Epoxy-painted concrete masonry units	042000 / 099100

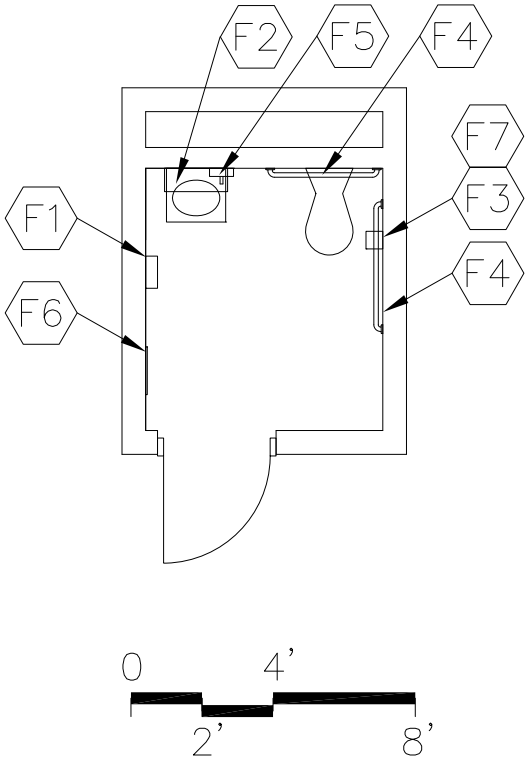
LOOSE FURNISHINGS

N/A

FEATURES[1]:	Spec. Ref.#
Fixed Items:	
F1 Loading dock leveler and dock bumpers	111300
Fire Suppression:	
Fire suppression system	211000
Plumbing:	
N/A	
HVAC:	
Exhaust air system	Div. 23
Supplemental heat as required	Div. 23
Electrical:	
Single level switching	262726
Fluorescent lighting	265100
Illumination level: See Table 8600-***6***	
Duplex receptacles	262726
Communications:	
Central sound system	275123
Electronic Safety and Security:	
N/A	
Miscellaneous:	
N/A	

NOTES:

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



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

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

SPATIAL RELATIONSHIPS:
- Near academic area

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

NOTES:

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

RESTROOM
CT-GS-8

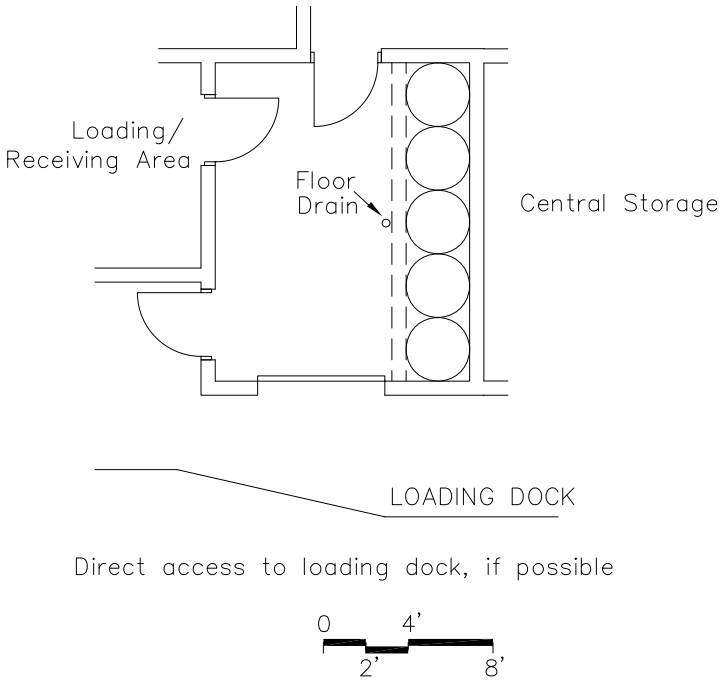
FINISHES[1]:	Spec. Ref.#
Flooring:	
ET or sheet vinyl	096516
	096500
Optional: quarry tile, or	093000
resinous flooring	096723
Base:	
Resilient base	096500
Optional: quarry tile, resinous	093000
flooring, or integral vinyl cove base	096723
Ceiling:	
Suspended, acoustical	095113
Walls:	
Painted concrete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

LOOSE FURNISHINGS:
Wastebasket

FEATURES[1]:	Spec. Ref.#
Fixed Items:	
F1 Towel dispenser	102813
F2 Mirror with shelf above sink(optional)	102813
F3 Toilet tissue holder	102813
F4 36" and 42" grab bar	102813
F5 Soap dispenser	102813
F6 Sanitary product dispenser	102813
F7 Sanitary product receptacle	102813
Fire Suppression:	
Fire suppression system	211000
Plumbing:	
Wall-mounted water closet	224000
Wall-mounted lavatory	224000
Plumbing connections	224000/221116/221119
HVAC:	
Exhaust air system	Div. 23
Supplemental heat as required	Div. 23
Electrical:	
Single level switching	262726
Fluorescent lighting	265100
Illumination level: See Table 8600-***5***	
1 duplex receptacle	262726
Communications:	
Central sound system	275123
Electronic Safety and Security:	
Life safety devices per code	283111
Miscellaneous:	
N/A	

NOTES:

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



CAPACITY: N/A
SIZE: 80 - 160 SF

PROGRAM ACTIVITIES:
- Provide recyclable collection for paper, cardboard, glass, plastics and metals.

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

ENVIRONMENTAL CONSIDERATIONS:
N/A

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

NOTES:

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

RECYCLING ROOM

CT-GS-9

FINISHES[1]:	Spec. Ref.#
Flooring:	
Sealed concrete	033000
Base:	
No base	
Ceiling:	
Exposed structure	
Walls:	
Epoxy-painted concrete masonry units	042000 / 099100

LOOSE FURNISHINGS

N/A

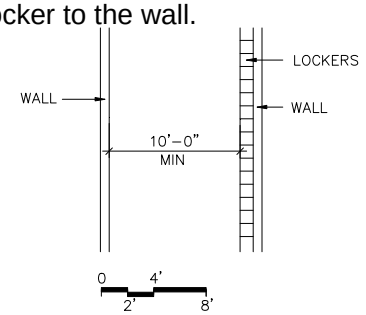
FEATURES[1]:	Spec. Ref.#
Fixed Items:	
Fire Suppression:	
Fire suppression system	211000
Plumbing:	
Floor drain	
HVAC:	
Exhaust air system	Div. 23
Supplemental heat as required	Div. 23
Electrical:	
Single level switching	262726
Fluorescent lighting	265100
Illumination level: See Table 8600-6	
Duplex receptacles	262726
Communications:	
N/A	
Electronic Safety and Security:	
N/A	
Miscellaneous:	
N/A	

NOTES:

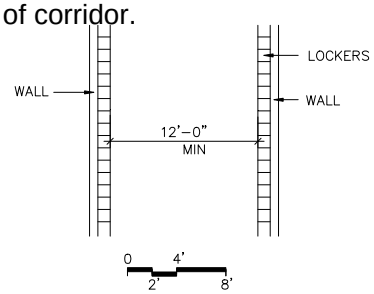
1. Finishes/Features: Refer to Chapter 9 for specification references.

- Corridors shall be a minimum of 8 feet wide if no lockers are located in the corridor.

- Corridors shall be a minimum of 10 feet wide if lockers are located on one side of the corridor. The corridor width is from the face of the locker to the wall.



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



- Instructional and activity areas shall be accessible by corridors without passing through another instructional or activity area.

- The corridors are to meet the existing requirements of applicable codes

- Stairs, ramps, and elevators are included under the corridor category.

- It is recommended that stairs in multi-story buildings not be enclosed unless required by code.

CAPACITY: Based on size of program area
SIZE: See Chapter 2

PROGRAM ACTIVITIES:
- Circulation space

SPATIAL RELATIONSHIPS:
N/A

ENVIRONMENTAL CONSIDERATIONS:
N/A

VESTIBULES
- Area of vestibules to be included within area allotted for corridors.

- Width of vestibules can be no less than minimum width of adjacent corridor.

- Minimum corridor length to be 8'-0" between doors.

- Vestibules are to be provided at major entrances/exits and may be eliminated at minor entrances/exits as determined by the Design Professional.

- Provide automatic door operator on one leaf of main entrance/exit door and related vestibule door.

- Provide a five-step or fifteen foot walk off mat extending from main outside entry doors into the building and as wide as the entry doors.

- Option – entrance floor grilles.
  See Chapter 9, Section 124816.

- ***Lockers are not part of the construction factor, but are a part of the circulation/corridor factor.***

NOTES:

CORRIDORS

CT-BS-1

FINISHES[1]:	Spec. Ref.#
Flooring[2]:	
Linoleum, ET, sheet vinyl,	096516
Carpet, carpet tile, rubber,	096500
polished concrete finishing,	096816
or colored concrete finishing	096813
	033510
	033519
Base:	
Resilient base	096500
Optional: structural glazed tile	042000
Ceiling:	
Suspended, acoustical	095113
Option in vestibules: Abuse resistant gypsum wallboard	092113
Walls:	
Painted concrete masonry units	042000/099100
LOOSE FURNISHINGS:	
Recycling bins and waste receptacles	
Fixed or loose benches	

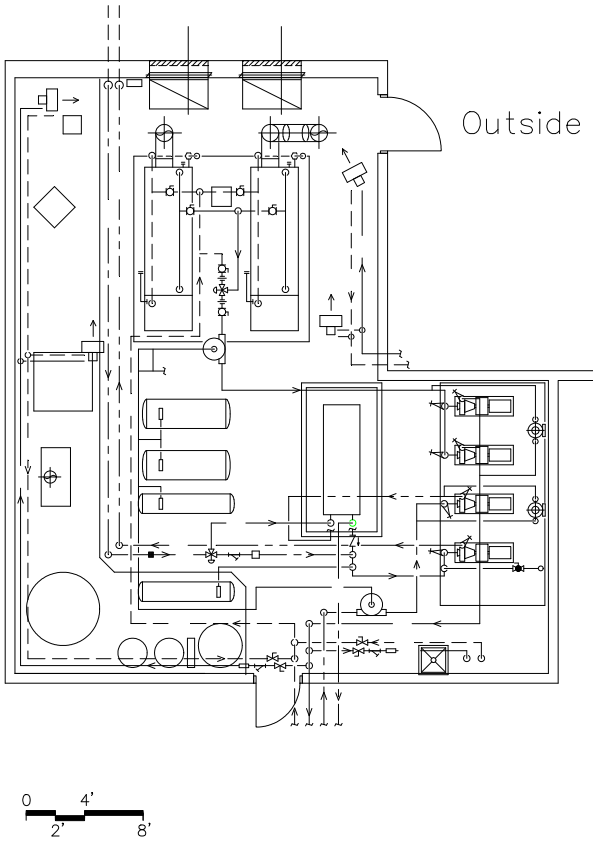
NOTE: At entries adjacent to dining/ commons area, match dining/commons flooring.

FEATURES[1]:	Spec. Ref.#
Fixed Items:	
Corridor lockers	105113
Fire extinguishers and cabinets	104400
Recessed vinyl floor mats or surface mats	124813
Tack board or tackable wall surface	101100
Fire Suppression:	
N/A	
Plumbing:	
Drinking water coolers	224000
HVAC:	
Supply/return air system	Div. 23
Temperature control from adjacent instructional spaces	230923
Electrical:	
Dual level switching	262726
Fluorescent lighting	265100
Illumination level: See Table 8600-6	
Duplex receptacles	262726
Double duplex receptacle adjacent to each video port	262726
Means of egress lighting per code	265100
Emergency lighting	265100
Communications:	
Video ports	271543
Data ports	271523
Pay phone terminals	271513/273113
Central sound system	275123
Clocks	275313
Wireless access points	271523/272100/272133
Electronic Safety and Security:	
Life safety devices per code	283111
Security System	281300/281600/282300
Miscellaneous:	
Display cases and Directory	

NOTES:

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

Space to be determined by Design Professional.



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

PROGRAM ACTIVITIES:
- Space for mechanical and electrical equipment

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

ENVIRONMENTAL CONSIDERATIONS:
- Environmental sound control
  wall minimum STC 60
  ceiling minimum CAC 35, NRC 0.70

NOTES:

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

MECHANICAL/ELECTRICAL SPACE/DECKS

CT-BS-2

FINISHES[1]:	Spec. Ref.#
Flooring:	
Sealed concrete	033000
Base:	
No base	
Ceiling:	
Exposed structure	---
Walls: (note 2)	
Unpainted concrete masonry units	042000
LOOSE FURNISHINGS:	
N/A	

FEATURES[1]:	Spec. Ref.#
Fixed Items:	
To be determined by Design Professional	
Fire Suppression:	
To be determined by Design Professional	
Plumbing:	
To be determined by Design Professional	
HVAC:	
To be determined by Design Professional	
Electrical:	
Single level switching	262726
Fluorescent lighting	265100
Illumination level: See Table 8600-***6***	
Others as determined by Design Professional	
Communications:	
Central sound system	275123
Voice port and phone	271513/***273123***
Electronic Safety and Security:	
To be determined by Design Professional	
Miscellaneous:	
N/A	

NOTES:

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