

VOLUME TWO

Chapter 6: Career-Technical School

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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.

INTRODUCTION**CHAPTER 6: CAREER-TECHNICAL SCHOOL****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 overhead projectors in ceilings of spaces where required shall be carefully determined in relation to the projection surface. Provide a data drop next to the overhead projector for network connection. See spec 274119. Provide additional A/V connections at teacher workstation to allow connection of computer outputs, etc., that interfaces with the projector. See spec 271543. <i>Optional to provide data drop in classrooms. For extended learning areas (ELA), access to the data network is required.</i>
OPTIONS	<ol style="list-style-type: none"> 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

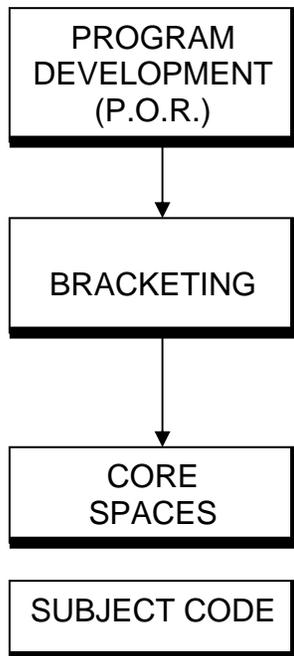
In order to accommodate school districts in meeting the unique requirements of its Career-Technical students, the OSFC has provided spaces that accommodate instructional and support activities. The layout and organization of those spaces is critical to the educational success of the school. Therefore, 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 designed



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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07.4840	2	J8	Health Support Pathway	6312-14
07.0913	2	J9	Health Unit Coordinator	6312-15
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01.0901	4	A2	Animal Science and Management (small animal)	6314-7
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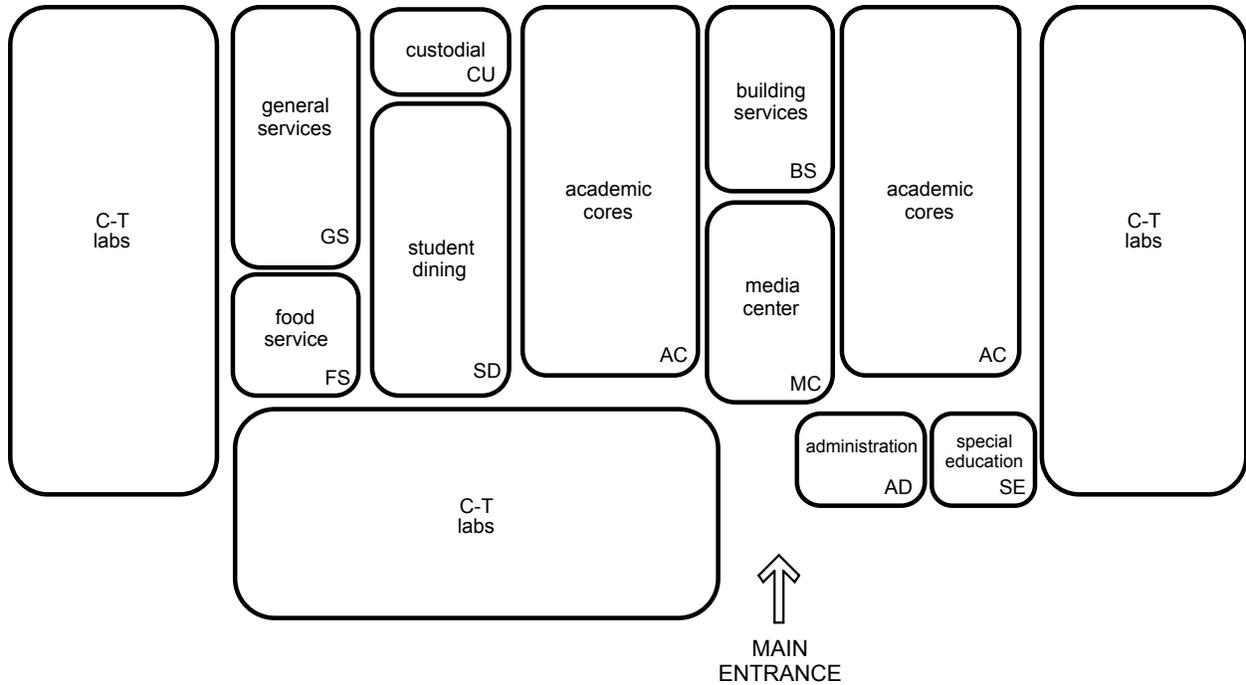
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CHAPTER 6: CAREER-TECHNICAL SCHOOL

INDEX BY CTE PROGRAM CODE

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17.1200	6	T7	Medium/Heavy Truck Technician	6316-29
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NOTES:

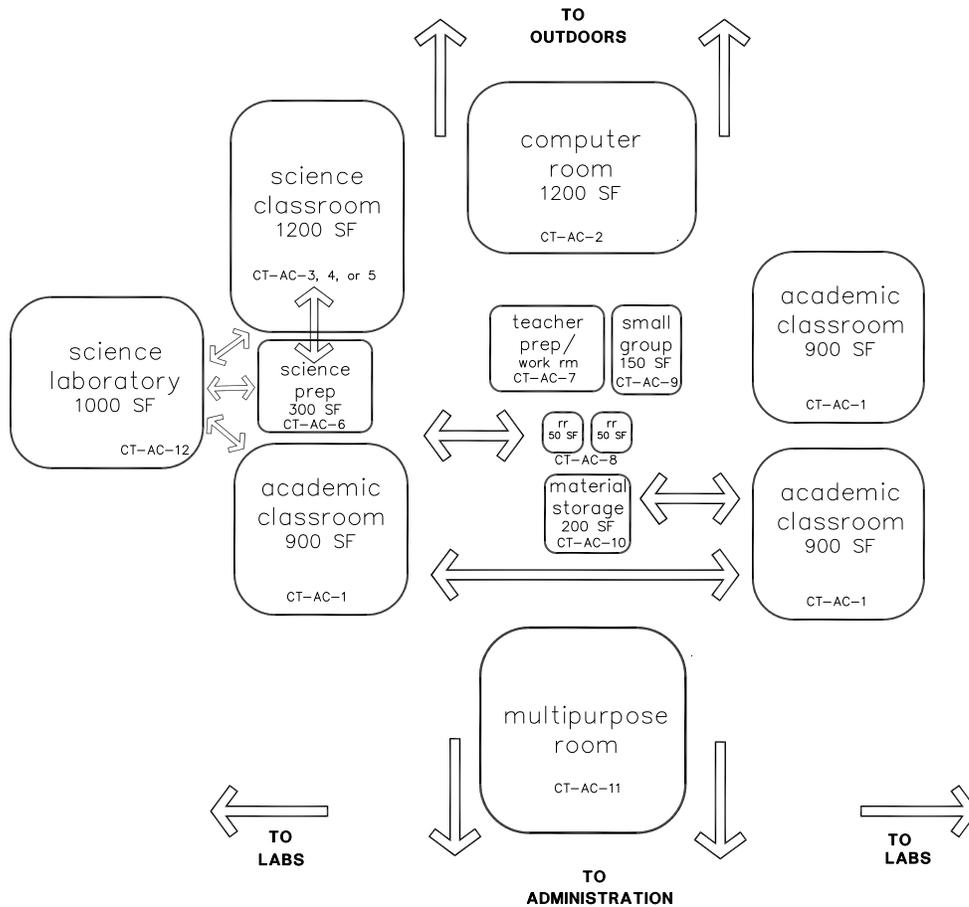
This is an example of how the spaces in a career-technical school could be arranged. This is meant only to demonstrate the relationships between various spaces of this area.

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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.

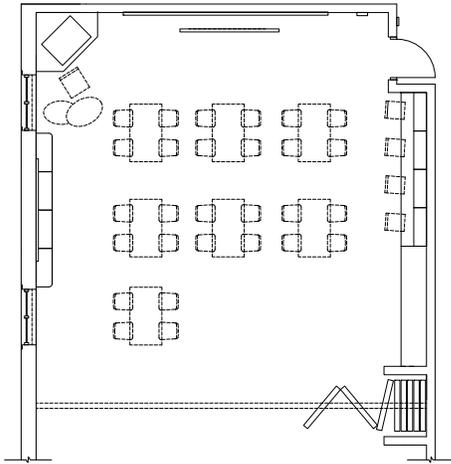
Following are the Academic core space:

- 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**

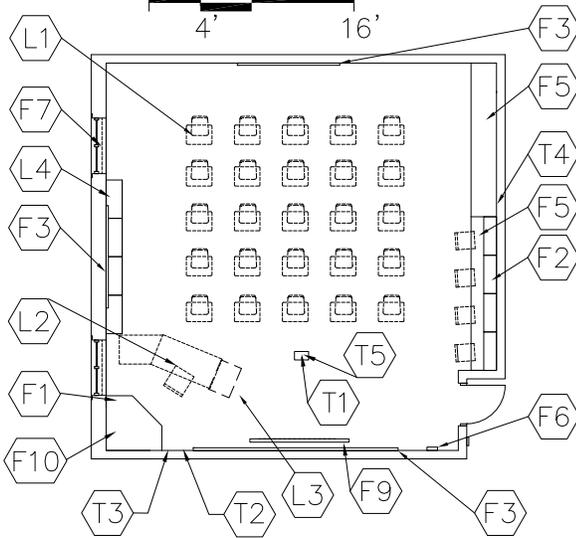
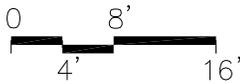
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**ACADEMIC CLASSROOM
CT-AC-1**

CHAPTER 6: CAREER-TECHNICAL SCHOOL



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**
CHAPTER 6: CAREER-TECHNICAL SCHOOL

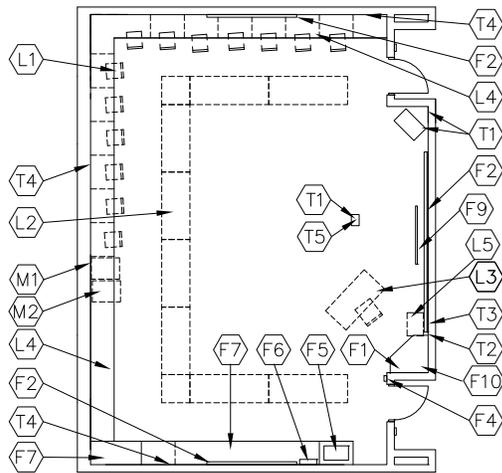
<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
<u>Flooring:</u>			
Carpet, carpet tile	096816	F1 Tall wardrobe with file drawers	123550
Optional: ET, sheet vinyl, linoleum, or rubber	096516 096500 096813	F2 Computer work surface (could be loose)	123550
		F3 20'-32' combination chalk/marker board, tack board and tackable wall surface	101100
<u>Base:</u>			
Resilient base	096500	F4 Reserved	
		F5 18'-24' combination base and wall cabinets	123550
<u>Ceiling:</u>			
Suspended, acoustical	095113	F6 Pencil sharpener support (<i>optional</i>)	062000
		F7 Windows with integral blinds	085113
<u>Walls:</u>			
Painted concrete masonry units	042000/099100	F8 Reserved	
		F9 Projection screen (optional)	115213
		F10 Technology support casework	123550
<u>LOOSE FURNISHINGS:</u>			
L1 Student desks and chairs		<u>Fire Suppression:</u>	
L2 Teacher desk or workstation/computer support and chair		Fire suppression system	211000
L3 File cabinet		<u>Plumbing:</u> N/A	
L4 9' of low bookcases (fixed or mobile) Wastebasket		<u>HVAC:</u>	
		Supply/return air system	Div. 23
		Independent temperature control	230923
		<u>Electrical:</u>	
		Fluorescent lighting:	265100
		Illumination level: See Table 8600-5	
		Multilevel switching	262726
		4 duplex receptacles	262726
		Double duplex receptacle adjacent to each data and video port	262726
		<u>Communications:</u>	
		T1 1 video port	271533/271543
		T2 1 voice port and phone	271513/ 273123
		T3 1 data port near teacher workstation	271513
		T4 4 data ports (minimum) for classroom technology	271513
		Clock	275313
		Central sound system	275123
		Sound reinforcement system	275127
		T5 Overhead projector	274119
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
<u>Miscellaneous:</u>			
		Pencil sharpener (optional)	
M1 Operable partitions between classrooms are optional	102226		

NOTES:

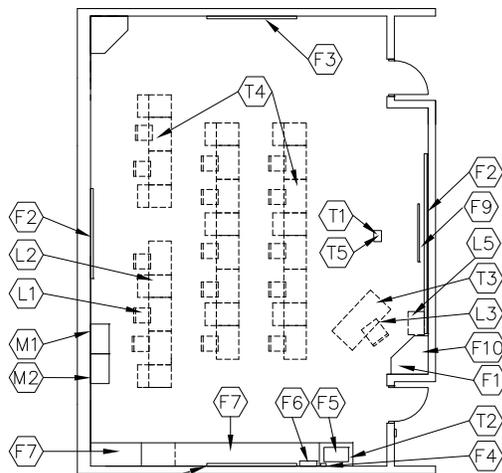
1. Finishes/Features: Refer to Chapter 9 for specification references.
2. Technology components may be placed in a separate small cabinet, or integrated in the other casework in the room.
3. Where appropriate, some casework may be mobile to add flexibility and become part of the loose furnishings.

**COMPUTER ROOM
CT-AC-2**

CHAPTER 6: CAREER-TECHNICAL SCHOOL



PERIMETER WORKSTATION LAYOUT



FREE-STANDING WORKSTATIONS



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**

CHAPTER 6: CAREER-TECHNICAL SCHOOL

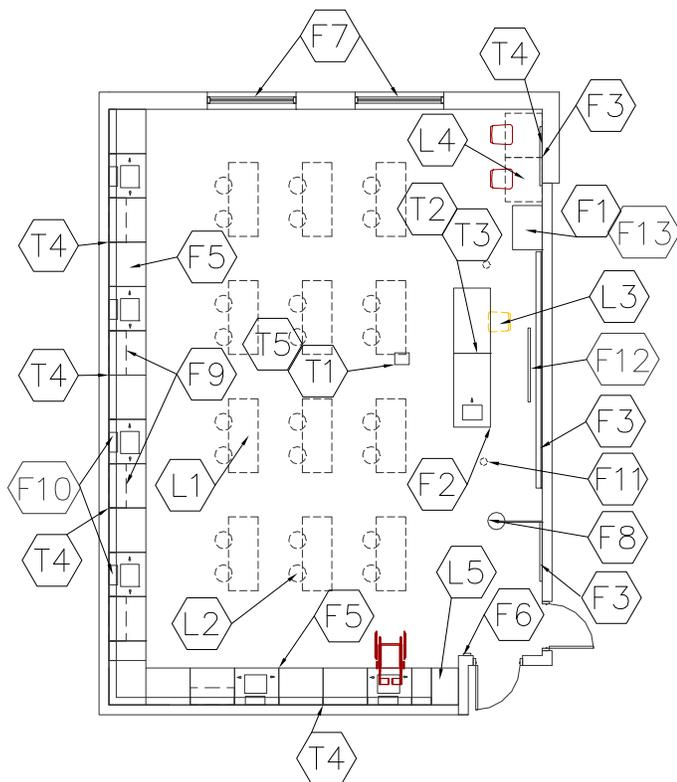
<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
<u>Flooring:</u>		<u>Fixed Items:</u>	
Carpet, carpet tile	096816	F1 Tall wardrobe with file drawers	123550
Optional: ET, sheet vinyl, linoleum, or rubber	096500 096516 096813	F2 16'-32' combination chalk/marker board, tack board & tackable wall surface	101100
		F3 Reserved	
		F4 Pencil sharpener support (<i>optional</i>)	062000
<u>Base:</u>		F5 3' sink base cabinet (optional)	123550
Resilient base	096500	F6 Towel dispenser (optional)	102813
		F7 9'-20' combination base and tall cabinets	123550
<u>Ceiling:</u>		F8 Reserved	
Suspended, acoustical	095113	F9 Projection screen (optional)	115213
		F10 Technology support casework	123550
<u>Walls:</u>		<u>Fire Suppression:</u>	
Painted concrete masonry units	042000/099100	Fire suppression system	211000
		<u>Plumbing:</u>	
		N/A	
<u>LOOSE FURNISHINGS:</u>		<u>HVAC:</u>	
L1 Student chairs		Supply/return air system	Div. 23
L2 Work tables		Independent temperature control	230923
L3 Teacher desk or workstation/computer support and chair		<u>Electrical:</u>	
L4 Computer workstation furniture		Fluorescent lighting: Parabolic lenses	265100
L5 File cabinet		illumination level: See Table 8600-5	
Wastebasket		Multilevel switching	262726
		4 duplex receptacles	262726
		Double duplex receptacle adjacent to each data and video port	262726
L4 could be fixed casework.		<u>Communications:</u>	
		T1 1 video port	271533/271543
		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 Overhead projector	274119
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
		<u>Miscellaneous:</u>	
		Pencil sharpener (optional)	
		The following items are to be funded by the school district:	
		M1 Classroom area network file server	
		M2 Printer	

NOTES:

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

**GENERAL SCIENCE/PHYSICS
CT-AC-3**

CHAPTER 6: CAREER-TECHNICAL SCHOOL



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.

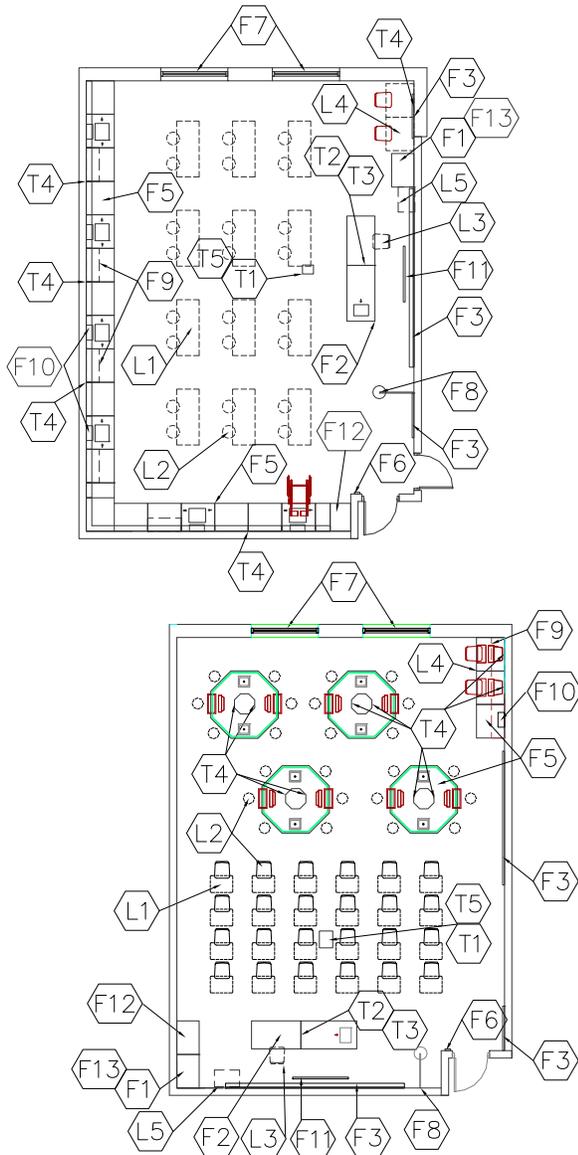
**GENERAL SCIENCE/PHYSICS
CT-AC-3**
CHAPTER 6: CAREER-TECHNICAL SCHOOL

<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
<u>Flooring:</u>		<u>Fixed Items:</u>	
Linoleum,	096500	F1 Tall wardrobe with file drawers	123553
rubber, ET, sheet vinyl,	096516	F2 Demonstration table/teacher desk	123553
polished concrete finishing	033510	F3 20'-32' combination chalk/marker board, tack board and tackable wall surface	101100
or colored concrete finishing	033519	F4 Reserved	
<u>Base:</u>		F5 40'-60' of lab casework with sinks	123553
Resilient base	096500	F6 Pencil sharpener support (optional)	062000
<u>Ceiling:</u>		F7 Windows with integral blinds	085113
Suspended, acoustical	095113	F8 Emergency shower/eyewash	224000
<u>Walls:</u>		F9 18'-24' of wall cabinets	123553
Painted concrete masonry units	042000/099100	F10 Towel dispensers (optional)	102813
		F11 2 eye hooks for demonstrations(optional)	055000
		F12 Projection screen (optional)	115213
		F13 Technology support casework	123553
		<u>Fire Suppression:</u>	
		Fire suppression system	211000
		<u>Plumbing:</u>	
		Plumbing connections	224000/221116/221119
		Emergency shower/eyewash connections	224000
		Gas connections (optional)	226313
		Master shutoff for gas	226313
		Compressed air connections(optional)	221500
		<u>HVAC:</u>	
		Supply/return air system	Div. 23
		Independent temperature control	230923
		Manual exhaust	Div. 23
		<u>Electrical:</u>	
		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
		<u>Communications:</u>	
		T1 1 video port	271533/271543
		T2 1 voice port and phone	271513/273123
		T3 1 data port at demonstration table	271513
		T4 4 data ports (minimum) for classroom technology	271513
		Clock	275313
		Central sound system	275123
		Sound reinforcement system	275127
		T5 Overhead projector	274119
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
		<u>LOOSE FURNISHINGS:</u>	
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.			
		<u>Miscellaneous:</u>	
		Pencil sharpener (optional)	

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.

CHAPTER 6: CAREER-TECHNICAL SCHOOL



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**
CHAPTER 6: CAREER-TECHNICAL SCHOOL

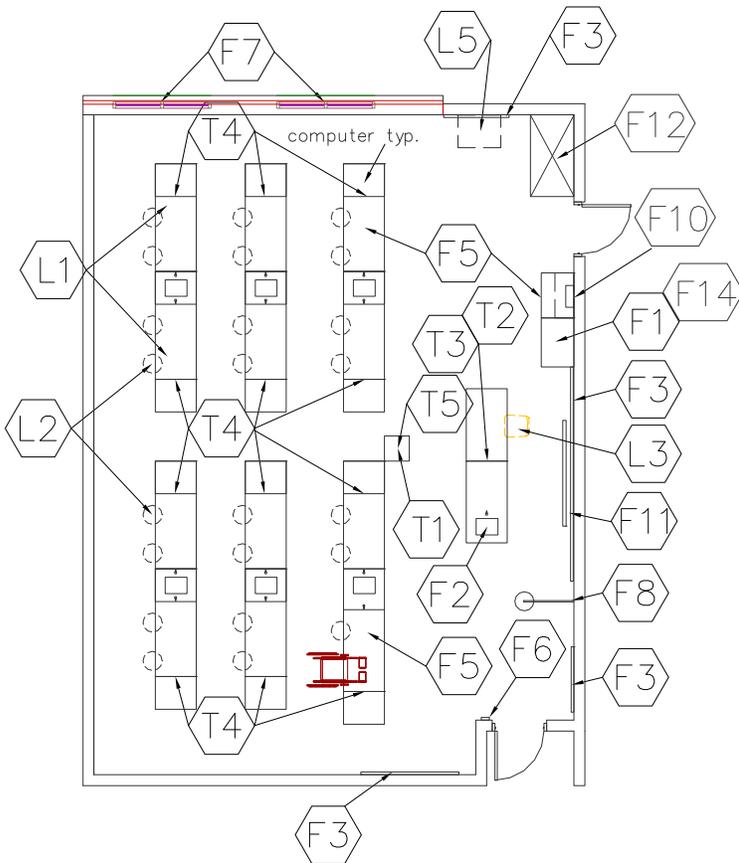
<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
<u>Flooring:</u>		<u>Fixed Items:</u>	
Linoleum,	096500	F1 Tall wardrobe with file drawers	123553
Rubber, ET, sheet vinyl,	096516	F2 Demonstration table/teacher desk	123553
polished concrete finishing, or	033510	F3 20'-32' combination chalk/marker board, tack board and tackable wall surface	101100
colored concrete finishing	033519	F4 Reserved	
		F5 40'-60' of lab casework with sinks	123553
		F6 Pencil sharpener support (optional)	062000
<u>Base:</u>		F7 Windows with integral blinds	085113
Resilient base	096500	F8 Emergency shower/eyewash	224000
		F9 18'-24' of wall cabinets (total)	123553
<u>Ceiling:</u>		F10 Towel dispensers (optional)	102813
Suspended, acoustical	095113	F11 Projection screen (optional)	115213
		F12 Tall cabinets (optional)	123550
<u>Walls:</u>		F13 Technology support casework	123550
Painted concrete masonry units	042000/099100	<u>Fire Suppression:</u>	
		Fire suppression system	211000
		<u>Plumbing:</u>	
		Plumbing connections	224000/221116/221119
<u>LOOSE FURNISHINGS:</u>		Emergency shower/eyewash connections	224000
L1 Student work tables		Master shut-off for gas	226313
L2 Student stools/chairs		Gas connections	226313
L3 Teacher chair or stool		Compressed air connections (optional)	221500
L4 Computer workstation furniture		Acid waste piping	221316
L5 File cabinet		Neutralization tank (optional)	221323
Wastebasket		<u>HVAC:</u>	
		Supply/return air system	Div. 23
		Independent temperature ctrl	230923
		Manual exhaust	Div. 23
		<u>Electrical:</u>	
		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
		<u>Communications:</u>	
		T1 1 video port	271533/271543
		T2 1 voice port and phone	271513/ 273123
		T3 1 data port at demonstration table	271513
		T4 4 data ports (minimum)for classroom technology	271513
		Central sound system	275123
		Clock	275313
		Sound reinforcement system	275127
		T5 Overhead projector	274119
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
<u>Miscellaneous:</u>			
Pencil sharpener (optional)			

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.

CHEMISTRY CT-AC-5

CHAPTER 6: CAREER-TECHNICAL SCHOOL



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:

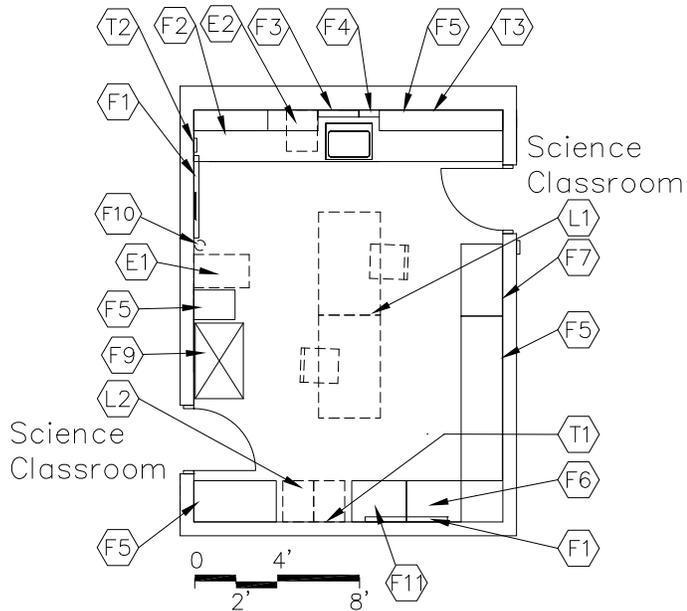
1. Loose furnishings shown represent one of many possible arrangements.
2. Science casework layout to be determined by the school district.
3. Depending upon the educational program of the district, a tall wardrobe may be placed in this classroom or could be placed in a teacher prep area/workroom.
4.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

**CHEMISTRY
CT-AC-5**
CHAPTER 6: CAREER-TECHNICAL SCHOOL

<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
<u>Flooring:</u>		<u>Fixed Items:</u>	
Vinyl sheet flooring, linoleum, rubber, ET,	096500	F1 Tall wardrobe with file drawers	123553
polished concrete finishing, or colored concrete finishing	096516 033510 033519	F2 Demonstration table/teacher desk	123553
		F3 20'-32' combination chalk/marker board, tack board and tackable wall surface	101100
		F4 Reserved	
		F5 40'-60' lab casework with sinks	123553
		F6 Pencil sharpener support (optional)	062000
<u>Base:</u>		F7 Windows with integral blinds	085113
Resilient base	096500	F8 Emergency shower/eyewash	224000
		F9 18'-24' of wall cabinets (optional)	123553
<u>Ceiling:</u>		F10 Towel dispensers (optional)	102813
Suspended, acoustical	095113	F11 Projection screen (optional)	115213
		F12 Fume hood	115313
<u>Walls:</u>		F13 Tall cabinet for microscopes(optional)	123550
Painted concrete masonry units	042000/099100	F14 Technology support casework	123550
		<u>Fire Suppression:</u>	
		Fire suppression system	211000
		<u>Plumbing:</u>	
		Plumbing connections 224000/221116/221111:	
		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
		<u>HVAC:</u>	
		Supply/return air system	Div. 23
		Independent temp control	230923
		Manual exhaust	Div. 23
		Exhaust for fume hood	Div. 23
		<u>Electrical:</u>	
		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
		<u>Communications:</u>	
		T1 1 video port	271533/271543
		T2 1 voice port and phone	271513/ 273123
		T3 1 data port at demonstration table	271513
		T4 4 data ports (minimum) for classroom technology	271513
		Central sound system	275123
		Clock	275313
		Sound reinforcement system	275127
		T5 Overhead projector	274119
<u>Electronic Safety and Security:</u>			
Life safety devices per code	283111		
<u>Miscellaneous:</u>			
Pencil sharpener (optional)			

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.

**SCIENCE PREP
CT-AC-6**
CHAPTER 6: CAREER-TECHNICAL SCHOOL


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.

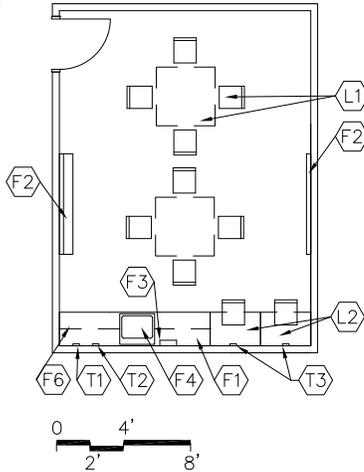
**SCIENCE PREP
CT-AC-6**
CHAPTER 6: CAREER-TECHNICAL SCHOOL

<u>FINISHES¹:</u>	<u>Spec. Ref.#</u>	<u>FEATURES¹:</u>	<u>Spec. Ref.#</u>
<u>Flooring:</u>		<u>Fixed Items:</u>	
Vinyl sheet flooring, linoleum, rubber, ET,	096516	F1 4' of tack board	101100
polished concrete finishing, or	096500	F2 8'-15' of lab station with sink	123553
colored concrete finishing	033510	F3 Drying rack with pegs (optional)	123553
	033519	F4 Towel dispenser (optional)	102813
		F5 16'-31' combination wall cabinets and tall cabinets	123553
<u>Base:</u>		F6 Storage cabinets for acids, Ventilated (optional)	123553
Resilient base	096500	F7 Storage cabinets for flammables(optional)	123553
<u>Ceiling:</u>		F8 Reserved	
Suspended, acoustical	095113	F9 Fume hood (optional)	123553
<u>Walls:</u>		F10 Emergency eyewash (if applicable)	224000
Painted concrete masonry units	042000/099100	F11 Chemical storage cabinets with acid resistant lining	123553
		<u>Fire Suppression:</u>	
		Fire suppression system	211000
		<u>Plumbing:</u>	
		Plumbing connections	224000/221116/221119
<u>LOOSE FURNISHINGS:</u>		Acid waste system	Div. 23
L1 Work tables with chemical-resistant top		Gas connections	226313
L2 2 file cabinets		Compressed air connections(optional)	221500
Wastebasket		Access to neutralization tank	221323
<u>EQUIPMENT</u>		<u>HVAC:</u>	
E1 Refrigerator/freezer (optional)		Supply/return air system	Div. 23
E2 Dishwasher (optional)		Independent temperature control	230923
		Manual exhaust	Div. 23
		24 hour exhaust for acid storage cabinet	Div. 23
		<u>Electrical:</u>	
		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
		<u>Communications:</u>	
		T1 1 video port	271533/271543
		T2 1 voice port and phone	271513/ 273123
		T3 1 data port	271513
		Clock	275313
		Central sound system	275123
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
		<u>Miscellaneous:</u>	
		Fume hood through wall if adjacent to chemistry	
<u>NOTES:</u>			
1. Finishes/Features: Refer to Chapter 9 for specification references.			

**TEACHER PREP/WORKROOM
CT-AC-7**

CHAPTER 6: CAREER-TECHNICAL SCHOOL

300 SF



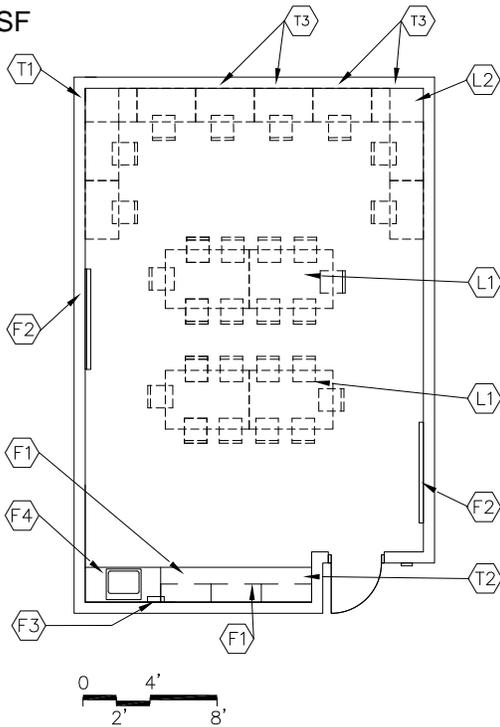
PROGRAM ACTIVITIES:

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

SPATIAL RELATIONSHIPS:

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

600 SF



ENVIRONMENTAL CONSIDERATIONS:

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

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

NOTES:

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

**TEACHER PREP/WORKROOM
CT-AC-7**
CHAPTER 6: CAREER-TECHNICAL SCHOOL

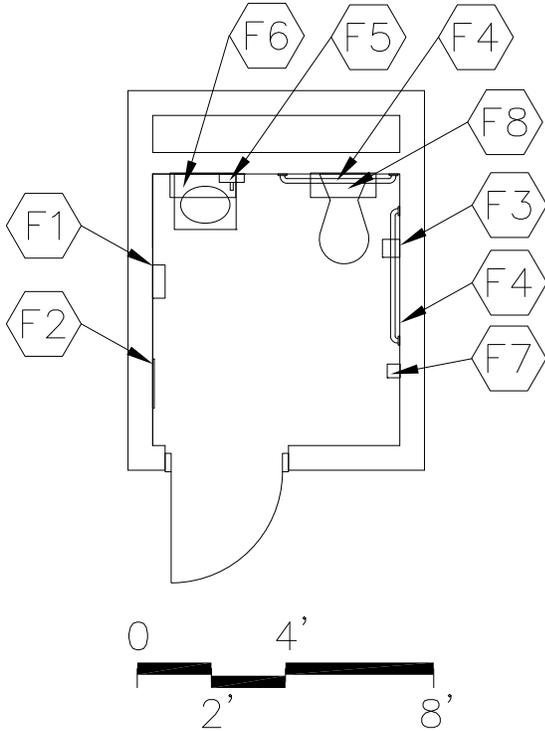
	Spec. Ref.#		Spec. Ref.#
<u>FINISHES¹:</u>		<u>FEATURES¹:</u>	
Flooring:		<u>Fixed Items²:</u>	
Carpet, carpet tile, ET, linoleum, vinyl sheet, or rubber	096816 096500 096516 096813	F1 12'-18' combination base & wall cabinets (some could be bookcases)	123550
Base:		F2 10'-16' combination chalk/marker board, tack board & tackable wall surface	101100
Resilient base	096500	F3 Towel dispenser (optional)	102813
Ceiling:		F4 3' sink base cabinet	123550
Suspended, acoustical	095113	<u>Fire Suppression:</u>	
Walls:		Fire suppression systems	211000
Painted concrete masonry units	042000/099100	<u>Plumbing:</u>	
		Sink	224000
		Plumbing connections	224000/221116/221119
<u>LOOSE FURNISHINGS:</u>		<u>HVAC:</u>	
L1 Tables and chairs		Supply/return air system	Div. 23
L2 Computer workstation furniture		Independent temperature control	230923
Wastebasket		<u>Electrical:</u>	
L2 could be fixed casework.		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
		<u>Communications:</u>	
		T1 1 video port	271533/271543
		T2 1 voice port and phone	271513/ 273123
		T3 2 – 8 data ports near workstations	271513
		Clock	275313
		Central sound system	275123
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
		<u>Miscellaneous:</u>	
		Copier by school district	

NOTES:

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

**INDIVIDUAL RESTROOM
CT-AC-8**

CHAPTER 6: CAREER-TECHNICAL SCHOOL



PROGRAM ACTIVITIES:

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

SPATIAL RELATIONSHIPS:

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

ENVIRONMENTAL CONSIDERATIONS:

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

CAPACITY: 1 person
SIZE: 60 SF

NOTES:

**INDIVIDUAL RESTROOM
CT-AC-8**
CHAPTER 6: CAREER-TECHNICAL SCHOOL

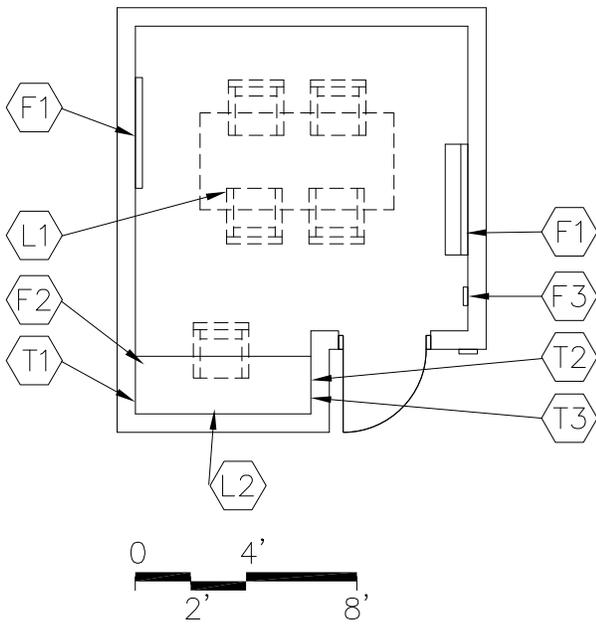
<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
Flooring:		<u>Fixed Items:</u>	
Linoleum, rubber, ET, or sheet vinyl	096516 096500	F1 Towel dispenser	102813 102813
Optional: Ceramic mosaic tile, porcelain tile, or resinous flooring	093000 096723	F2 24" x 60" mirror	102813
		F3 Toilet tissue holder	102813
		F4 36" and 42" grab bar	102813
		F5 Soap dispenser	102813
		F6 Shelf above sink (optional)	102813
		F7 Coat hook	102813
		F8 Cabinet above toilet (optional)	102813
Base:		<u>Fire Suppression:</u>	
Resilient base	096500	Fire suppression system	211000
Optional: Ceramic mosaic tile, Porcelain tile, resinous flooring, or integral vinyl cove base	093000 096723		
Ceiling:		<u>Plumbing:</u>	
Suspended, acoustical	095113	Wall-mounted water closet	224000
		Wall-mounted lavatory	224000
		Plumbing connections	224000/221116/221119
Walls:		<u>HVAC:</u>	
Painted concrete masonry units	042000/099100	Exhaust air system	Div. 23
		Supplemental heat as required	Div. 23
<u>LOOSE FURNISHINGS:</u>		<u>Electrical:</u>	
Wastebasket		Single level switching	262726
		Fluorescent lighting	265100
		Illumination level: See Table 8600-5	
		1 duplex receptacle	262726
		<u>Communications:</u>	
		Central sound system	275123
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
		<u>Miscellaneous:</u>	
		N/A	

NOTES:

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

**SMALL GROUP ROOM
CT-AC-9**

CHAPTER 6: CAREER-TECHNICAL SCHOOL



PROGRAM ACTIVITIES:

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

SPATIAL RELATIONSHIPS:

- Near academic core classrooms

ENVIRONMENTAL CONSIDERATIONS:

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

CAPACITY: 4 - 5 students
 SIZE: 150 SF

NOTES:

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

**SMALL GROUP ROOM
CT-AC-9**
CHAPTER 6: CAREER-TECHNICAL SCHOOL

<u>FINISHES¹:</u>	Spec. <u>Ref.#</u>	<u>FEATURES¹:</u>	Spec. <u>Ref.#</u>
<u>Flooring:</u>		<u>Fixed Items:</u>	
Carpet, carpet tile	096816	F1 8'-12' combination chalk/marker board, tack board & tackable wall surface	101100
Optional: ET, sheet vinyl, linoleum, or rubber	096500 096516 096813	F2 4'-6' of work surface (optional)	123550
		F3 Pencil sharpener support (optional)	062000
<u>Base:</u>		<u>Fire Suppression:</u>	
Resilient base	096500	Fire suppression system	211000
<u>Ceiling:</u>		<u>Plumbing:</u>	
Suspended, acoustical	095113	N/A	
<u>Walls:</u>		<u>HVAC:</u>	
Painted concrete masonry units	042000/099100	Supply/return air system	Div. 23
		Independent temperature control (coupled with similarly loaded adjacent spaces)	230923
<u>LOOSE FURNISHINGS:</u>		<u>Electrical:</u>	
L1 Work tables and chairs		Fluorescent lighting:	265100
L2 Computer workstation furniture		Illumination level: See Table 8600-5	
Wastebasket		4 duplex receptacles	262726
		Double duplex receptacle adjacent to each data and video port	262726
		<u>Communications:</u>	
		T1 1 video port	271533/271543
		T2 1 voice port	271513/ 273123
		T3 1 data port	271513
		Clock	275313
		Central sound system	275123
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
		<u>Miscellaneous:</u>	
		Pencil sharpener (optional)	
		Interior window(optional)	081113/088000

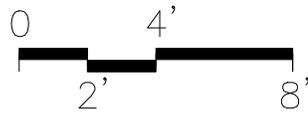
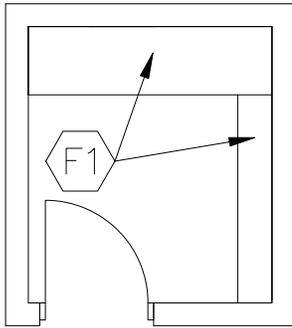
NOTES:

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

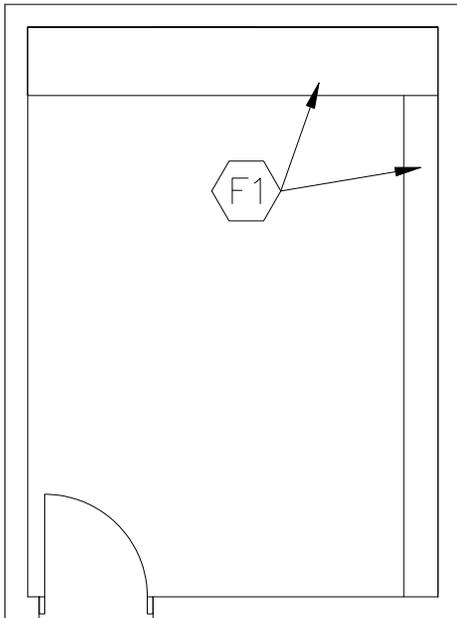
**MATERIAL STORAGE
CT-AC-10**

CHAPTER 6: CAREER-TECHNICAL SCHOOL

50 SF



120 SF



PROGRAM ACTIVITIES:

- Storage of supplies, textbooks, and equipment

SPATIAL RELATIONSHIPS:

- Near teacher prep workroom

ENVIRONMENTAL CONSIDERATIONS:

N/A

CAPACITY:

N/A

SIZE:

50 - 120 SF

NOTES:

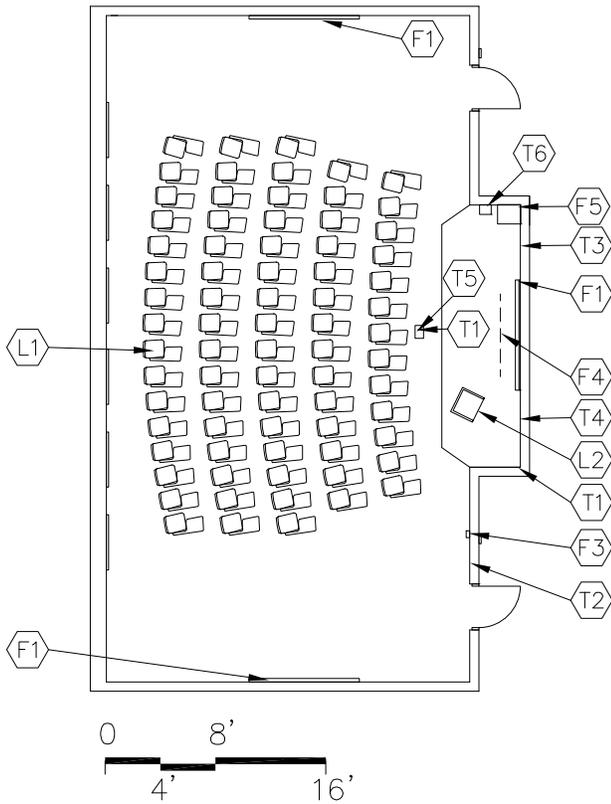
**MATERIAL STORAGE
CT-AC-10**

CHAPTER 6: CAREER-TECHNICAL SCHOOL

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

NOTES:

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



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**

CHAPTER 6: CAREER-TECHNICAL SCHOOL

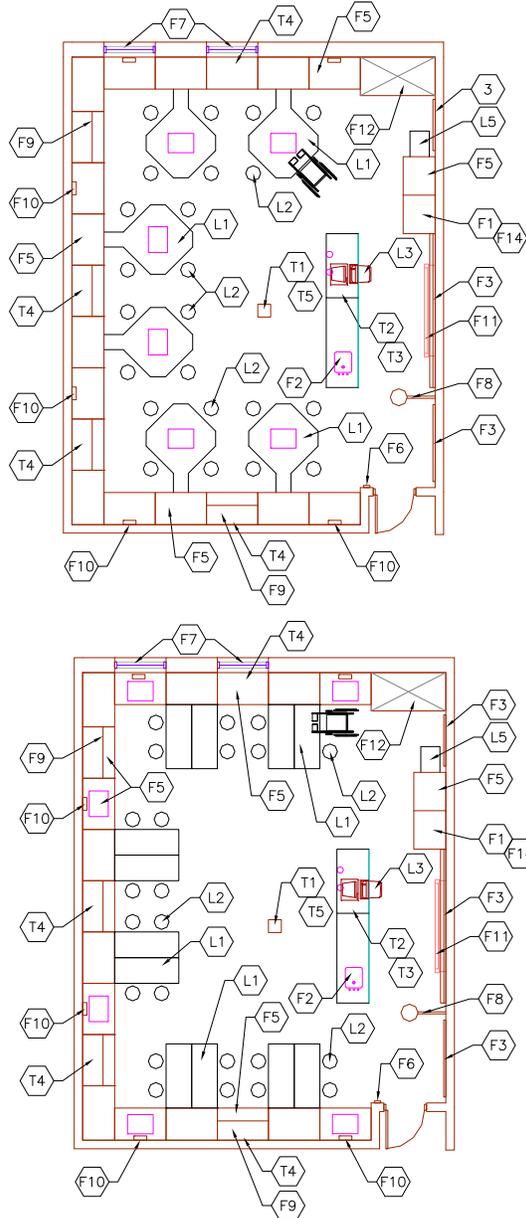
	Spec. Ref.#		Spec. Ref.#
<u>FINISHES¹:</u>		<u>FEATURES¹:</u>	
Flooring:		<u>Fixed Items:</u>	
Carpet, carpet tile, <i>linoleum, rubber, ET, or sheet vinyl</i>	096816 096813 096500 096516	F1 16'-28' combination chalk/marker board, tack board & tackable wall surface	101100
		F2 Reserved	
		F3 Pencil sharpener support (<i>optional</i>)	062000
Base:		F4 Projection screen (optional)	115213
Resilient base	096500	F5 Technology support casework	123550
		<u>Fire Suppression:</u>	
Ceiling:		Fire suppression system	211000
Suspended, acoustical	095113	<u>Plumbing:</u>	
		N/A	
Walls:		<u>HVAC:</u>	
Painted concrete masonry units	042000/099100	Supply/return air system	Div. 23
Acoustical wall treatment	098000	Independent temperature control	230923
<u>LOOSE FURNISHINGS:</u>		<u>Electrical:</u>	
L1 Student desks and chairs		Fluorescent lighting:	265100
L2 Podium / console (optional)		Illumination level: See Table 8600-5	
Portable risers		Multilevel switching	262726
Wastebasket		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
		<u>Communications:</u>	
		T1 2 video ports	271533/271543
		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 Overhead projector	274119
		T6 Student Dining/Cafeteria sound reinforcement system	275122
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
		<u>Miscellaneous:</u>	
		Pencil sharpener (optional)	

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.

SCIENCE LABORATORY CT-AC-12

CHAPTER 6: CAREER-TECHNICAL SCHOOL



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**
CHAPTER 6: CAREER-TECHNICAL SCHOOL

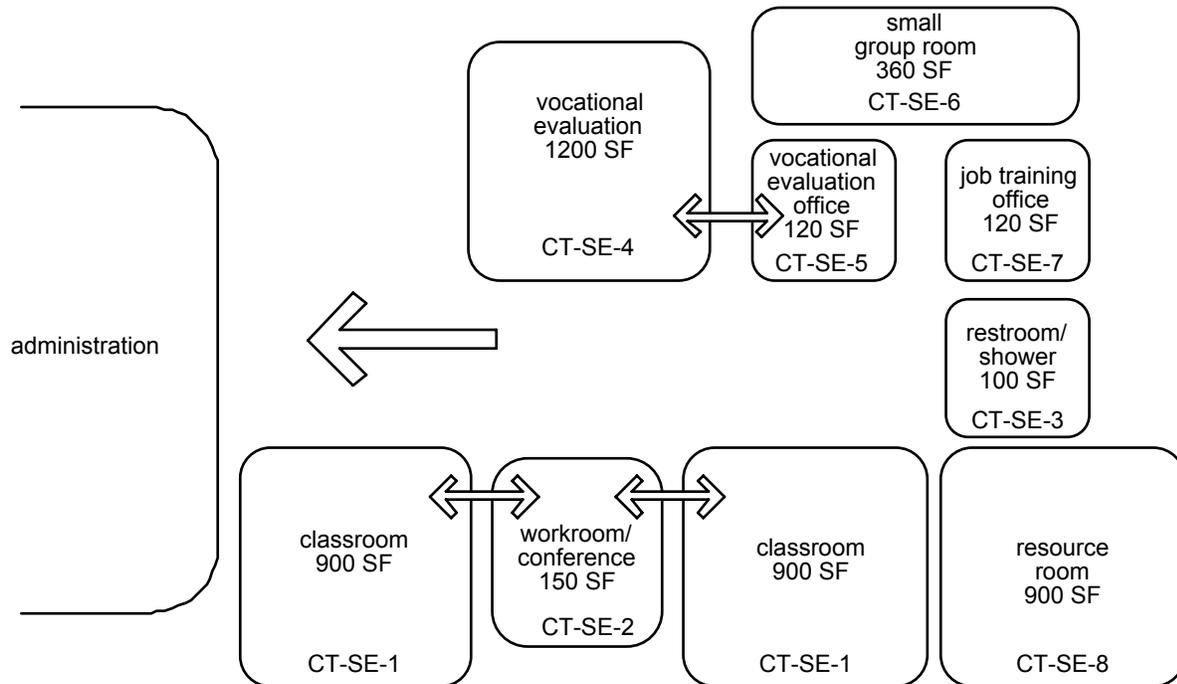
<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
<u>Flooring:</u>		<u>Fixed Items:</u>	
Vinyl sheet flooring, linoleum, rubber, ET	096500 096516	F1 Tall wardrobe with file drawers	123553
		F2 Demonstration table/teacher desk	123553
		F3 14'-22' combination chalk/marker board, tack board & tackable wall surface	101100
		F4 Reserved	
<u>Base:</u>		F5 40'-60' lab casework with sinks	123553
Resilient base	096500	F6 Pencil sharpener support (optional)	062000
		F7 Windows with integral blinds	085113
<u>Ceiling:</u>		F8 Emergency shower/eyewash	224000
Suspended, acoustical	095113	F9 18'-24' of wall cabinets (optional)	123553
		F10 Towel dispensers (optional)	102813
<u>Walls:</u>		F11 Projection screen (optional)	115213
Painted concrete masonry units	042000/099100	F12 Fume hood	115313
		F13 Tall cabinet for microscopes(optional)	123550
		F14 Technology support casework	123550
		<u>Fire Suppression:</u>	
		Fire suppression system	211000
<u>LOOSE FURNISHINGS:</u>		<u>Plumbing:</u>	
L1 Student work tables		Plumbing connections 224000/221116/221119	
L2 Student stools/chairs		Emergency shower/eyewash connections	224000
L3 Teacher chair or stool		Master shut-off for gas	226313
L4 Computer workstation furniture		Gas connections	226313
L5 File cabinet		Compressed air connections (optional)	221500
Wastebasket		Acid waste piping	221316
		Neutralization tank	221323
L4 Could be fixed casework		<u>HVAC:</u>	
		Supply/return air system	Div. 23
		Independent temp control	230923
		Manual exhaust	Div. 23
		Exhaust for fume hood	Div. 23
		<u>Electrical:</u>	
		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
		<u>Communications:</u>	
		T1 1 video port	271533/271543
		T2 1 voice port and phone	271513/273123
		T3 1 data port at demonstration table	271513
		T4 4 data ports (min.) for classroom technology	271513
		Central sound system	275123
		Clock	275313
		Sound reinforcement system	275127
		T5 Overhead projector	274119
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111

NOTES:

1. Finishes/Features: Refer to Chapter 9 for specification references.
2. Technology components may be placed in a separate small cabinet, or integrated in the other casework in the room.
3. Master gas shutoff valve shall be clearly labeled, easily accessible, and immediately operable by staff.

SPECIAL EDUCATION/STUDENT SERVICES SPACES

CHAPTER 6: CAREER-TECHNICAL SCHOOL

CT-SE**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:

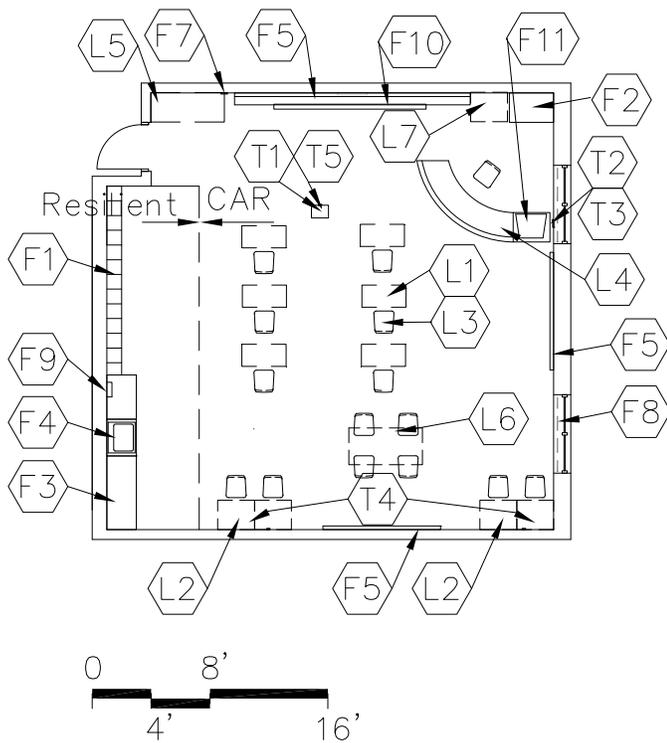
- CT-SE-1 Classroom
- CT-SE-2 Workroom/Conference
- CT-SE-3 Restroom/Shower
- CT-SE-4 Career Technical Evaluation
- CT-SE-5 Career Technical Evaluation Office
- CT-SE-6 Small Group Room
- CT-SE-7 Job Training Office
- CT-SE-8 Resource Room

SPECIAL EDUCATION/STUDENT SERVICES SPACES
CT-SE

CHAPTER 6: CAREER-TECHNICAL SCHOOL

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CHAPTER 6: CAREER-TECHNICAL SCHOOL



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**
CHAPTER 6: CAREER-TECHNICAL SCHOOL

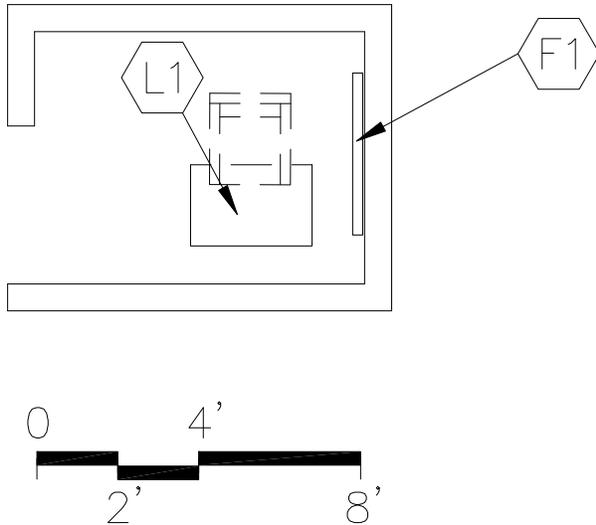
<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
<u>Flooring:</u>		<u>Fixed Items:</u>	
Combination carpet, carpet tile with resilient options	096816 096500	F1 Open casework – student coats and personal items with wall cabinets above	123550 123550
Optional: All ET, sheet vinyl, linoleum, or rubber	096516 096813	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 chalk/marker board, tack board and tackable wall surface	101100
<u>Base:</u>		F6 Reserved	
Resilient base	096500	F7 Pencil sharpener support (optional)	062000
		F8 Windows with integral blinds	085113
<u>Ceiling:</u>		F9 Towel dispenser (optional)	102813
Suspended, acoustical	095113	F10 Projection screen (optional)	115213
		F11 Technology support casework	123550
<u>Walls:</u>		F12 Mirror (optional)	102813
Painted concrete masonry units	042000/099100	F13 Tall storage cabinet(optional)	123550
		<u>Fire Suppression:</u>	
		Fire suppression system	211000
<u>LOOSE FURNISHINGS:</u>		<u>Plumbing:</u>	
L1 Student desks/tables		Sink with drinking fountain	224000
L2 Computer workstation furniture		Plumbing connections	224000/221116/221119
L3 Student chairs		<u>HVAC:</u>	
L4 Teacher workstations/computer support and chair		Supply/return air system	Div. 23
L5 8'-10' of low bookcases (fixed or mobile)		Independent temperature control	230923
L6 Reading table		<u>Electrical:</u>	
L7 File cabinet		Fluorescent lighting	265100
Wastebasket		Illumination level: See Table 8600-5	
		Multilevel switching	262726
		4 duplex receptacles	262726
		Double duplex receptacle adjacent to each data and video port	262726
<u>EQUIPMENT(optional)</u>		<u>Communications:</u>	
E1 Washer and dryer		T1 1 video port	271533/271543
E2 Small refrigerator		T2 1 voice port and phone	271513/ 273123
E3 Range		T3 1 data port	
E4 Oven		near teacher workstation	271513
E5 Microwave		T4 4 data ports (minimum) for classroom technology	271513
		Clock	275313
		Sound reinforcement system	275127
		Central sound system	275123
		T5 Overhead projector	274119
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
		<u>Miscellaneous:</u>	
		Pencil sharpener (optional)	

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.

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

CHAPTER 6: CAREER-TECHNICAL SCHOOL



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**

CAPACITY: 1 - 2 persons
SIZE: 150 SF

NOTES:

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

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

CHAPTER 6: CAREER-TECHNICAL SCHOOL

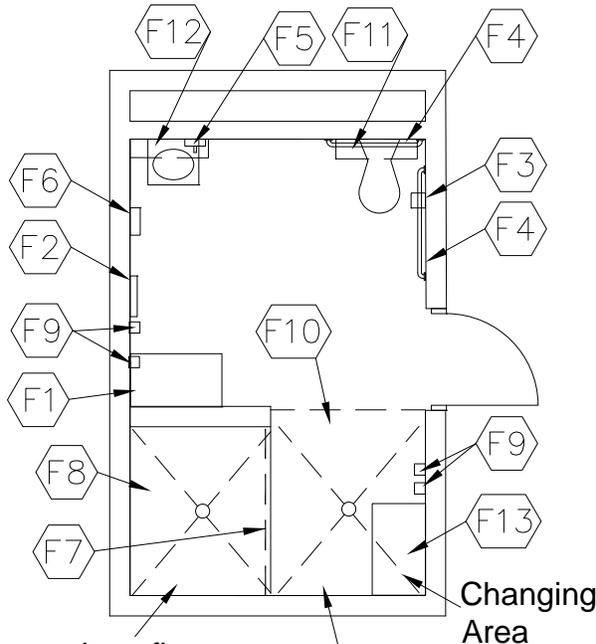
<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
<u>Flooring:</u>		<u>Fixed Items:</u>	
Carpet, carpet tile, ET, linoleum, or sheet vinyl	096816 096500 096516 096813	F1 4' of tack board (optional)	101100
<u>Base:</u>		<u>Fire Suppression:</u>	
Resilient base	096500	Fire suppression system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

NOTES:

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

**RESTROOM/Shower
CT-SE-3**

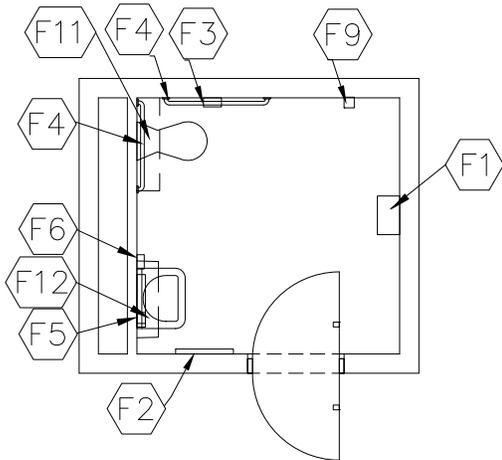
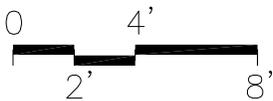
CHAPTER 6: CAREER-TECHNICAL SCHOOL



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

Drying Area;
5' x 5' sloped floor

Changing Area



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**
CHAPTER 6: CAREER-TECHNICAL SCHOOL

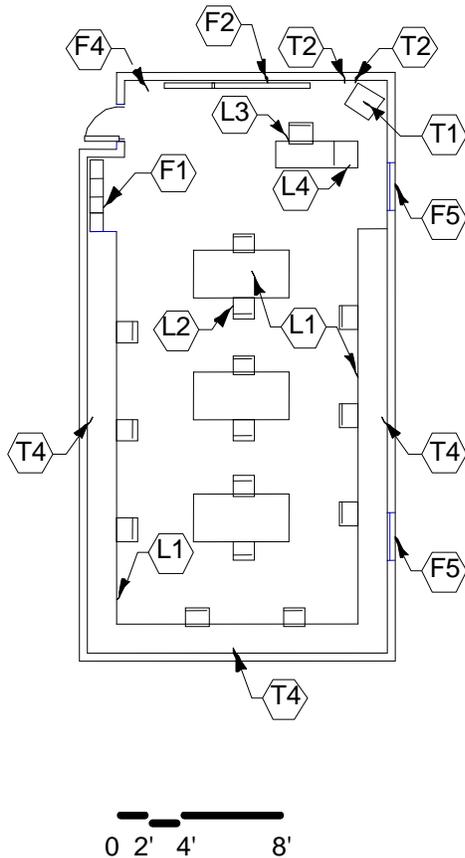
<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
<u>Flooring:</u>		<u>Fixed Items:</u>	
Restroom: ET, vinyl sheet flooring,	096500	F1 Base cabinets	123550
porcelain tile, or ceramic tile	093000	F2 24" x 60" mirror	102813
Shower: Ceramic mosaic tile, or porcelain tile		F3 Toilet tissue holder	102813
		F4 36" and 42" grab bar	102813
		F5 Soap dispenser	102813
		F6 Towel dispenser	102813
<u>Base:</u>		F7 Shower curtain and rod	102813
Restroom: Resilient base,	096500	F8 ADA shower accessories	102813
integral vinyl cove base,	093000	F9 (2) hooks	102813
porcelain tile, or ceramic tile		F10 Cubicle curtain (optional)	102813
Shower: Ceramic mosaic tile base or porcelain tile		F11 8" deep wall cabinet above toilet	102813
		F12 Shelf (optional)	102813
		F13 Changing station or fold-down adult changing station	123550
<u>Ceiling:</u>		<u>Fire Suppression:</u>	
Restroom: Suspended, acoustical	095113	Fire suppression system	211000
Shower: Painted portland cement plaster or	092400/099100		
interior finish system	092513	<u>Plumbing:</u>	
<u>Walls:</u>		Wall-mounted water closet	224000
Epoxy painted concrete		Wall-mounted lavatory	224000
masonry units	042000/099100	ADA shower controls and head	224000
or ceramic wall tile in shower	093000	Plumbing connections	224000/221116/221119
and latex paint in restroom	099100		
<u>LOOSE FURNISHINGS:</u>		<u>HVAC:</u>	
Wastebasket		Exhaust air system	Div. 23
		Supplemental heat as required	Div. 23
		<u>Electrical:</u>	
		Single level switching	262726
		Fluorescent lighting	265100
		Illumination level: See Table 8600-5	
		1 duplex receptacle	262726
		<u>Communications:</u>	
		Central sound system	275123
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
		<u>Miscellaneous:</u>	
		N/A	

NOTES:

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

CAREER TECHNICAL EVALUATION CT-SE-4

CHAPTER 6: CAREER-TECHNICAL SCHOOL



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**
CHAPTER 6: CAREER-TECHNICAL SCHOOL

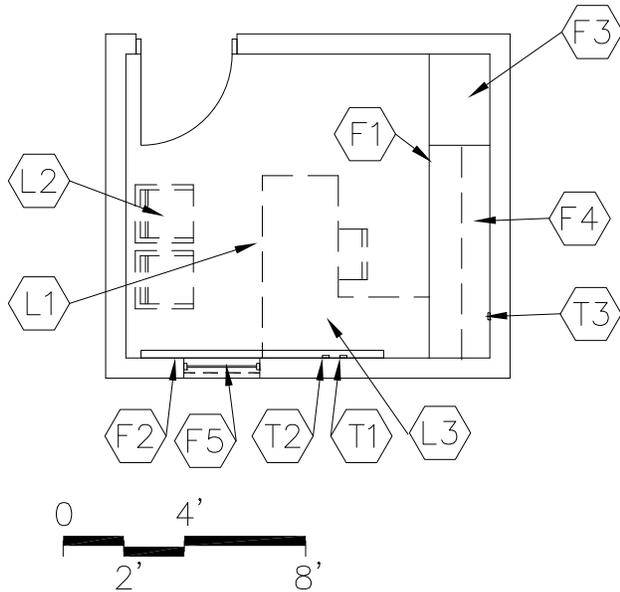
<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
Flooring:		<u>Fixed Items:</u>	
Carpet, carpet tile	096816	F1 Open casework - coats	123550
	096813	F2 8'-12' of chalk/marker board, tack board, or tackable wall surface	101000
Base:		F3 Reserved	
Resilient base	096500	F4 Pencil sharpener support (<i>optional</i>)	062000
Ceiling:		F5 Windows with integral blinds	085113
Suspended, acoustical	095113	<u>Fire Suppression:</u>	
Walls:		Fire suppression system	211000
Painted concrete masonry units	042000 / 099100	<u>Plumbing:</u>	
Optional: Gypsum drywall on metal studs	092116 / 099100	N/A	
<u>LOOSE FURNISHINGS:</u>		<u>HVAC:</u>	
L1 Student desk/tables		Supply/return air system	Div. 23
L2 Student chairs		Independent temperature control	230923
L3 Teacher desk and chair		<u>Electrical:</u>	
L4 Desk height file cabinet		Fluorescent lighting	265100
Wastebasket		Illumination level: See Table 8600-5	
		Multilevel switching	262726
		4 duplex receptacles	262726
		Double duplex receptacle adjacent to each data and video port	262726
		<u>Communications:</u>	
		T1 1 video port and video display device	271533/271543
		T2 1 voice port and phone	271513/ 273123
		T3 1 data port	
		near teacher workstation	271513
		T4 6 data ports (minimum)	271513
		Central sound system	275123
		Clock	275313
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
		<u>Miscellaneous:</u>	
		Pencil sharpener (optional)	

NOTES:

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

**CAREER TECHNICAL EVALUATION OFFICE
CT-SE-5**

CHAPTER 6: CAREER-TECHNICAL SCHOOL



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

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

NOTES:

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

**CAREER TECHNICAL EVALUATION OFFICE
CT-SE-5**
CHAPTER 6: CAREER-TECHNICAL SCHOOL

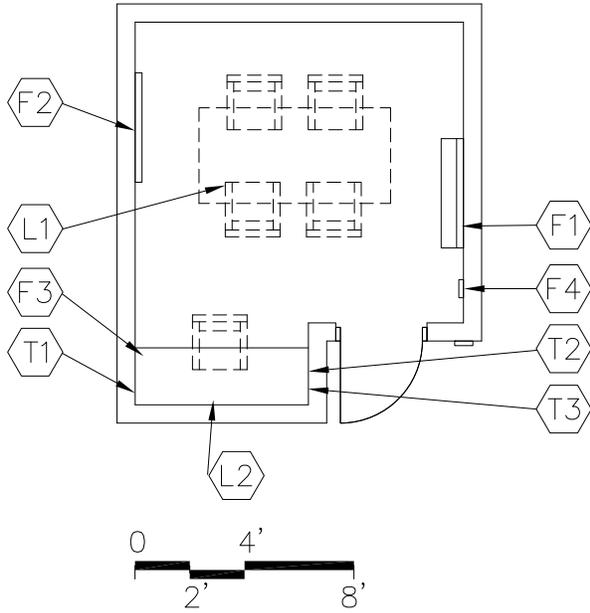
<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
Flooring:		<u>Fixed Items:</u>	
Carpet or Carpet Tile	096816	F1 Work surface with file drawers	123550
	096813	F2 4' of tack board	101100
		or tackable wall surface	
Base:		F3 Tall wardrobe	123550
Resilient base	096500	F4 Wall cabinets above work surface	123550
		F5 Window with integral blind	085116
Ceiling:		<u>Fire Suppression:</u>	
Suspended, acoustical	095113	Fire suppression system	211000
Walls:		<u>Plumbing:</u>	
Painted gypsum wallboard		N/A	
over metal studs	092116/099100		
<u>LOOSE FURNISHINGS:</u>		<u>HVAC:</u>	
L1 Desk and chair		Supply/return air system	Div. 23
L2 Visitor chairs		Independent temperature control	230923
L3 Computer desk return		(coupled with similarly loaded	
Wastebasket		adjacent spaces)	
		<u>Electrical:</u>	
		Single level switching	262726
		Fluorescent lighting	265100
		Illumination level: See Table 8600-5	
		4 duplex receptacles	262726
		Double duplex receptacle adjacent	
		to data and video port	262726
		<u>Communications:</u>	
		T1 1 voice port and phone	271513/ 273123
		T2 1 data port near workstation	271513
		T3 1 video port	271533/271543
		Central sound system	275123
		Clock	275313
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
		<u>Miscellaneous:</u>	
		N/A	

NOTES:

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

**SMALL GROUP ROOM
CT-SE-6**

CHAPTER 6: CAREER-TECHNICAL SCHOOL



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

CAPACITY: 4 - 5 students
 SIZE: 360 SF

NOTES:

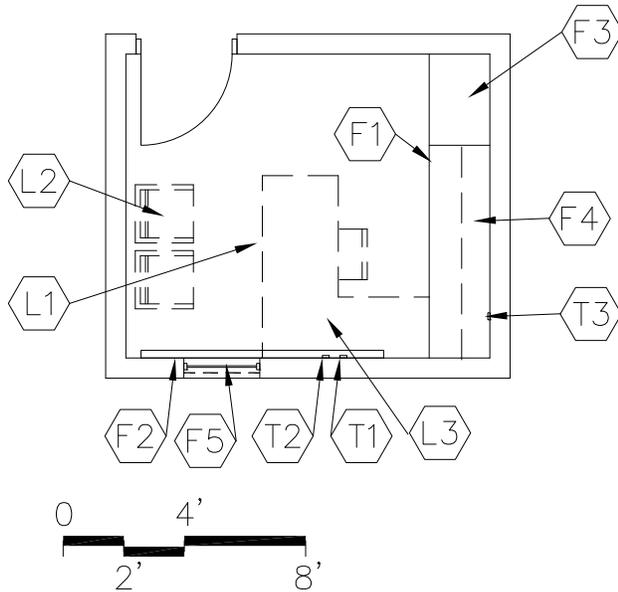
1. Loose furnishings shown represent one of many possible arrangements.

**SMALL GROUP ROOM
CT-SE-6**
CHAPTER 6: CAREER-TECHNICAL SCHOOL

<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
<u>Flooring:</u>		<u>Fixed Items:</u>	
Carpet, carpet tile	096816	F1 8'-10' of chalk/marker board, tack board, or tackable wall surface	101100
Optional: ET, sheet vinyl, linoleum, or rubber	096500 096516 096813	F2 Reserved	101100
		F3 4'-6' of work surface (optional)	123550
		F4 Pencil sharpener support (optional)	062000
<u>Base:</u>		<u>Fire Suppression:</u>	
Resilient base	096500	Fire suppression system	211000
<u>Ceiling:</u>		<u>Plumbing:</u>	
Suspended, acoustical	095113	N/A	
<u>Walls:</u>		<u>HVAC:</u>	
Painted concrete masonry units	042000/099100	Supply/return air system	Div. 23
		Independent temperature control (coupled with similarly loaded adjacent spaces)	230923
<u>LOOSE FURNISHINGS:</u>		<u>Electrical:</u>	
L1 Work tables and chairs		Fluorescent lighting:	265100
L2 Computer workstation furniture		Illumination level: See Table 8600-5	
Wastebasket		4 duplex receptacles	262726
		Double duplex receptacle adjacent to each data and video port	262726
		<u>Communications:</u>	
		T1 1 video port	271533/271543
		T2 1 voice port	271513/ 273123
		T3 1 data port	271513
		Clock	275313
		Central sound system	275123
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
		<u>Miscellaneous:</u>	
		Interior window(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.

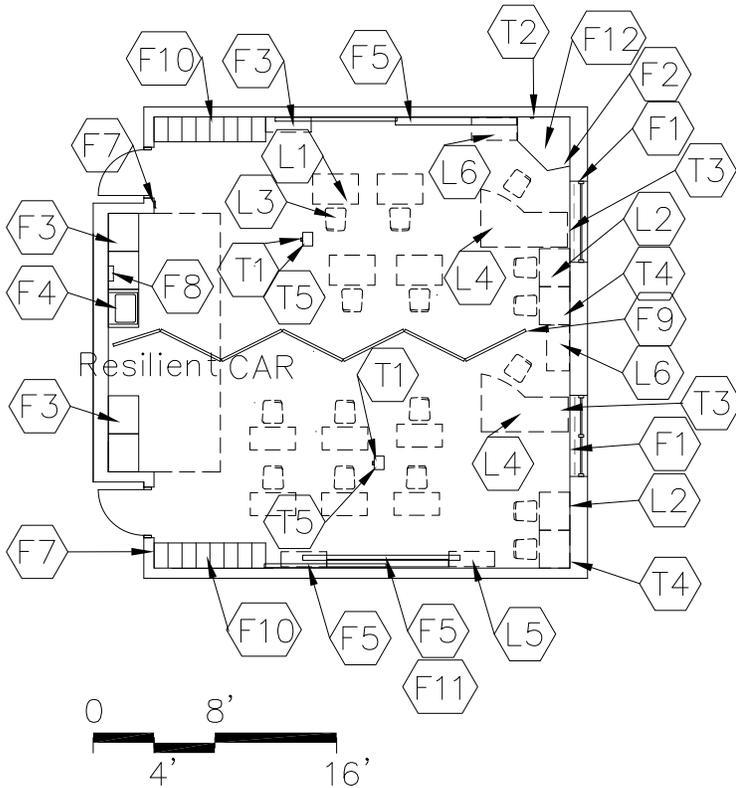
**JOB TRAINING OFFICE
CT-SE-7**
CHAPTER 6: CAREER-TECHNICAL SCHOOL

<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
Flooring:		<u>Fixed Items:</u>	
Carpet or Carpet Tile	096816	F1 Work surface with file drawers	123550
	096813	F2 4' of tack board	101100
		or tackable wall surface	
Base:		F3 Tall wardrobe	123550
Resilient base	096500	F4 Wall cabinets above work surface	123550
		F5 Window with integral blind	085116
Ceiling:		<u>Fire Suppression:</u>	
Suspended, acoustical	095113	Fire suppression system	211000
Walls:		<u>Plumbing:</u>	
Painted gypsum wallboard		N/A	
over metal studs	092116/099100		
<u>LOOSE FURNISHINGS:</u>		<u>HVAC:</u>	
L1 Desk and chair		Supply/return air system	Div. 23
L2 Visitor chairs		Independent temperature control	230923
L3 Computer desk return		(coupled with similarly loaded	
Wastebasket		adjacent spaces)	
		<u>Electrical:</u>	
		Single level switching	262726
		Fluorescent lighting	265100
		Illumination level: See Table 8600-5	
		4 duplex receptacles	262726
		Double duplex receptacle adjacent	
		to data and video port	262726
		<u>Communications:</u>	
		T1 1 voice port and phone	271513/ 273123
		T2 1 data port near workstation	271513
		T3 1 video port	271533/271543
		Central sound system	275123
		Clock	275313
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
		<u>Miscellaneous:</u>	
		N/A	

NOTES:

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

CHAPTER 6: CAREER-TECHNICAL SCHOOL



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

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

NOTES:

1. Loose furnishings shown represent one of many possible arrangements.
2. Depending upon the educational program of the district, a tall wardrobe may be located in this 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**

CHAPTER 6: CAREER-TECHNICAL SCHOOL

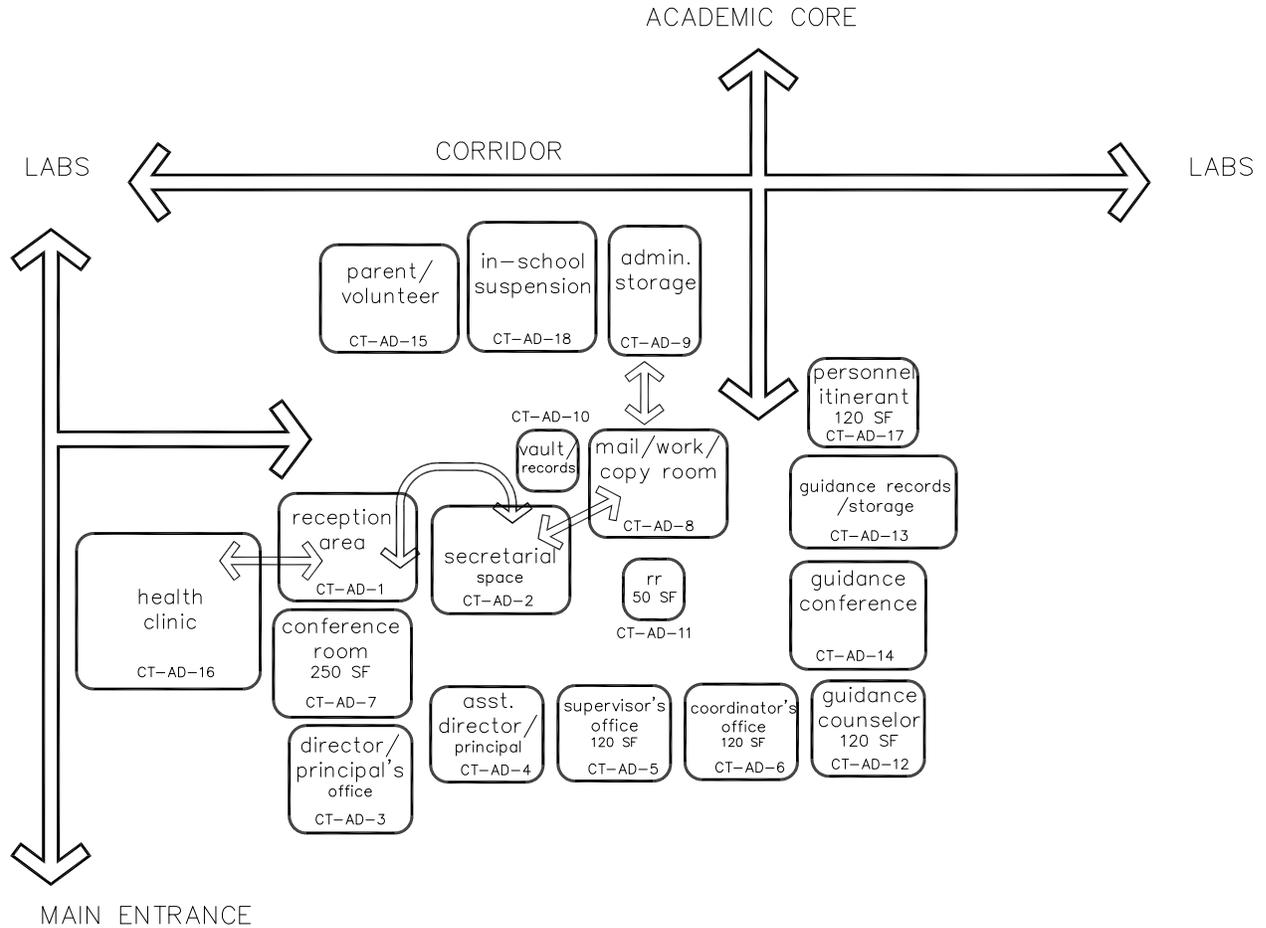
<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
<u>Flooring:</u>		<u>Fixed Items:</u>	
Combination carpet, carpet tile with resilient options	096816 096500	F1 Windows with integral blinds	085113
Option: All ET, sheet vinyl, linoleum, or rubber	096516	F2 Tall wardrobe with file drawers	123550
		F3 8'-12' of base cabinets	123550
		F4 3' sink base cabinet	123550
		F5 20'-32' combination chalk/marker board, tack board, tackable wall surface	101100
<u>Base:</u>		F6 Reserved	
Resilient base	096500	F7 Pencil sharpener support (optional)	062000
		F8 Towel dispenser (optional)	102813
<u>Ceiling:</u>		F9 Operable partition (optional)	102226
Suspended, acoustical	095113	F10 Open casework coats and personal storage w/wall cabinets above	123550
		F11 Projection screen (optional)	115213
<u>Walls:</u>		F12 Technology support casework	123550
Painted concrete masonry units	042000/099100	F13 Mirror (optional)	102813
		F14 Mobile storage cabinet (optional)	123550
<u>LOOSE FURNISHINGS:</u>		<u>Fire Suppression:</u>	
L1 Student desks/tables		Fire suppression system	211000
L2 Computer workstation furniture		<u>Plumbing:</u>	
L3 Student chairs		Sink	224000
L4 Teacher desk /computer support and chair		Plumbing connections	224000/221116/221119
L5 Mobile bookcases or storage unit		<u>HVAC:</u>	
L6 File cabinet		Supply/return air system	Div. 23
Wastebasket		Independent temperature control	230923
		<u>Electrical:</u>	
		Fluorescent lighting	265100
		Illumination level: See Table 8600-5	
		Multilevel switching	262726
		4 duplex receptacles	262726
		Double duplex receptacle adjacent to each data and video port	262726
		<u>Communications:</u>	
		T1 1 video port	271533/271543
		T2 1 voice port and phone	271513/ 273123
		T3 1 data port near each teacher workstation	271513
		T4 4 data ports (min.) for classroom technology	271513
		Clock	275313
		Sound reinforcement system	275127
		Central sound system	275123
		T5 Overhead projector	274119
<u>Miscellaneous:</u>		<u>Electronic Safety and Security:</u>	
Pencil sharpener (optional)		Life safety devices per code	283111

NOTES:

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

**ADMINISTRATIVE SPACES
CT-AD**

CHAPTER 6: CAREER-TECHNICAL SCHOOL



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:

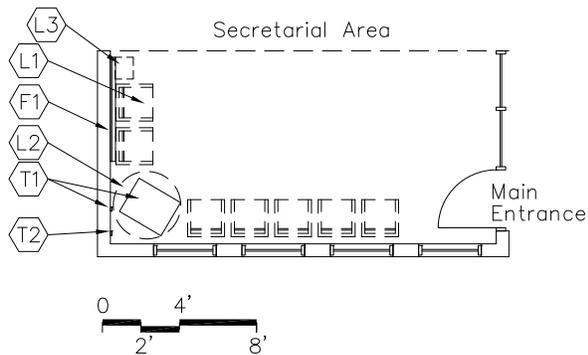
CT-AD-1	Reception Area	CT-AD-10	Vault/Records
CT-AD-2	Secretarial Space	CT-AD-11	Restroom
CT-AD-3	Director/Principal's Office	CT-AD-12	Guidance Counselor
CT-AD-4	Assistant Director/Principal's Office	CT-AD-13	Guidance Records/Storage
CT-AD-5	Supervisor's Office	CT-AD-14	Guidance Conference
CT-AD-6	Coordinator's Office	CT-AD-15	Parent/Volunteer
CT-AD-7	Conference Room	CT-AD-16	Health Clinic (<i>includes restroom</i>)
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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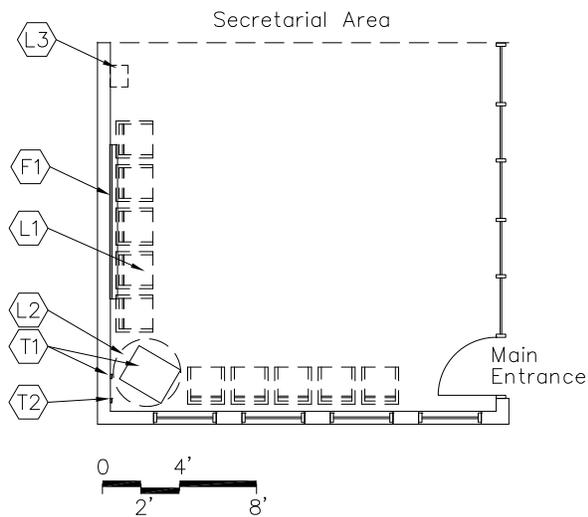
**RECEPTION AREA
CT-AD-1**

CHAPTER 6: CAREER-TECHNICAL SCHOOL

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**
CHAPTER 6: CAREER-TECHNICAL SCHOOL

	Spec. Ref.#		Spec. Ref.#
<u>FINISHES¹:</u>		<u>FEATURES¹:</u>	
Flooring:		<u>Fixed Items:</u>	
Carpet or Carpet Tile	096816 096813	F1 Tack board or tackable wall surface (optional)	101100
Base:		<u>Fire Suppression:</u>	
Resilient base	096500	Fire suppression system	211000
Ceiling:		<u>Plumbing:</u>	
Suspended, acoustical	095113	N/A	
Walls:		<u>HVAC:</u>	
Painted gypsum wallboard over metal studs	092116/099100	Supply/return air system	Div. 23
<u>LOOSE FURNISHINGS:</u>		Independent temperature control	230923
L1 Visitor chairs		<u>Electrical:</u>	
L2 End table		Single level switching	262726
L3 Racks for forms (optional)		Fluorescent lighting	265100
Wastebasket		Illumination level: See Table 8600-5	
		2 duplex receptacles	262726
		Double duplex receptacle adjacent to video port	262726
		Means of egress lighting per code	265100
		<u>Communications:</u>	
		T1 1 video port, monitor, and brackets	271533/271543/274119
		T2 1 voice port and phone	271513/ 273123
		Clock	275313
		Central sound system	275123
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
		<u>Miscellaneous:</u>	
		Interior windows	081113/088000

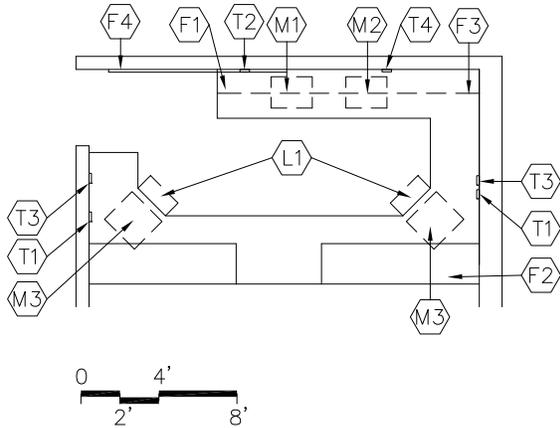
NOTES:

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

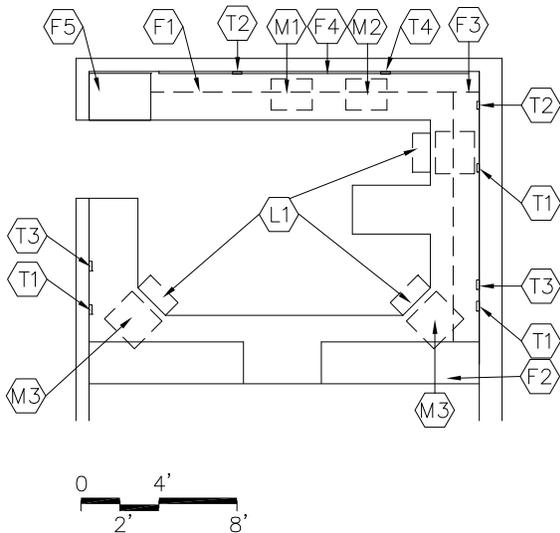
**SECRETARIAL AREA
CT-AD-2**

CHAPTER 6: CAREER-TECHNICAL SCHOOL

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**
CHAPTER 6: CAREER-TECHNICAL SCHOOL

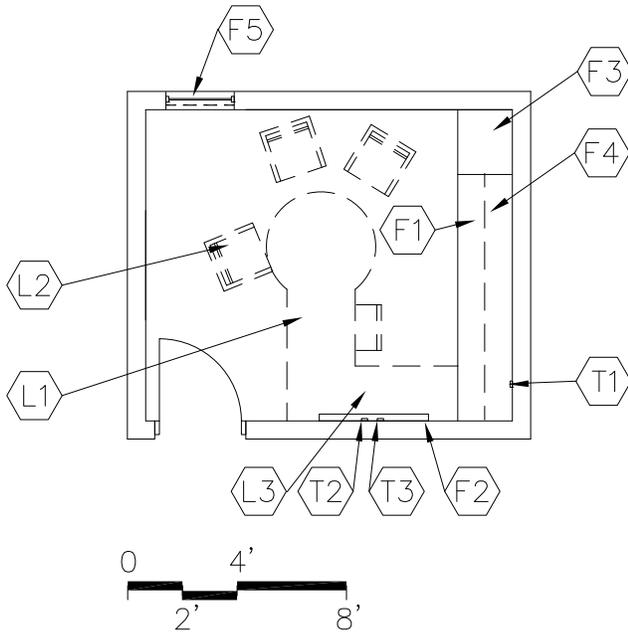
<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
<u>Flooring:</u>		<u>Fixed Items²:</u>	
Carpet or Carpet Tile	096816 096813	F1 24' - 60' of work surface with file drawers	123550 123550
<u>Base:</u>		F2 42" high counter top with portion of counter 34" high or lower	123550
Resilient base	096500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

NOTES:

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

**DIRECTOR / PRINCIPAL'S OFFICE
CT-AD-3**

CHAPTER 6: CAREER-TECHNICAL SCHOOL



PROGRAM ACTIVITIES:

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

SPATIAL RELATIONSHIPS:

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

ENVIRONMENTAL CONSIDERATIONS:

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

CAPACITY: 1 - 4 persons
SIZE: 150 SF

NOTES:

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

**DIRECTOR / PRINCIPAL'S OFFICE
CT-AD-3**
CHAPTER 6: CAREER-TECHNICAL SCHOOL

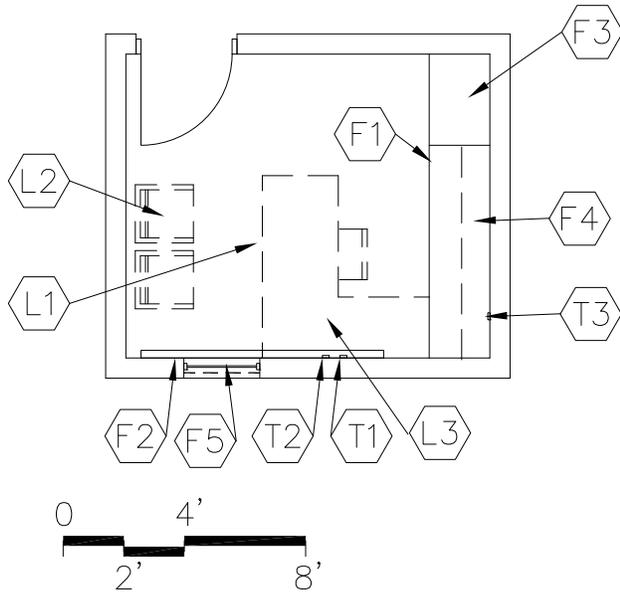
<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
<u>Flooring:</u>		<u>Fixed Items:</u>	
Carpet or Carpet Tile	096816	F1 Work surface with file drawers	123550
	096813	F2 4' of tack board or tackable wall surface	101100
<u>Base:</u>		F3 Tall wardrobe (optional)	123550
Resilient base	096500	F4 Wall cabinets above work surface	123550
<u>Ceiling:</u>		F5 Window with integral blind	085116
Suspended, acoustical	095113	<u>Fire Suppression:</u>	
<u>Walls:</u>		Fire suppression system	211000
Painted gypsum wallboard over metal studs	092116 / 099100	<u>Plumbing:</u>	
<u>LOOSE FURNISHINGS:</u>		N/A	
L1 Desk and chair		<u>HVAC:</u>	
L2 Visitor chairs		Supply/return air system	Div. 23
L3 Computer desk return Wastebasket		Independent temperature control (coupled with similarly loaded adjacent spaces)	230923
		<u>Electrical:</u>	
		Single level switching	262726
		Fluorescent lighting	265100
		Illumination level: See Table 8600-5	
		4 duplex receptacles	262726
		Double duplex receptacle adjacent to each data and video port	262726
		<u>Communications:</u>	
		T1 1 video port	271533/271543
		T2 1 voice port and phone	271513/ 273123
		T3 1 data port near workstation	271513
		Central sound system	275123
		Clock	275313
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
		<u>Miscellaneous:</u>	
		N/A	

NOTES:

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

**ASSISTANT DIRECTOR / PRINCIPAL'S OFFICE
CT-AD-4**

CHAPTER 6: CAREER-TECHNICAL SCHOOL



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

CAPACITY: 1 - 3 persons
SIZE: 120 SF

NOTES:

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

**ASSISTANT DIRECTOR / PRINCIPAL'S OFFICE
CT-AD-4**
CHAPTER 6: CAREER-TECHNICAL SCHOOL

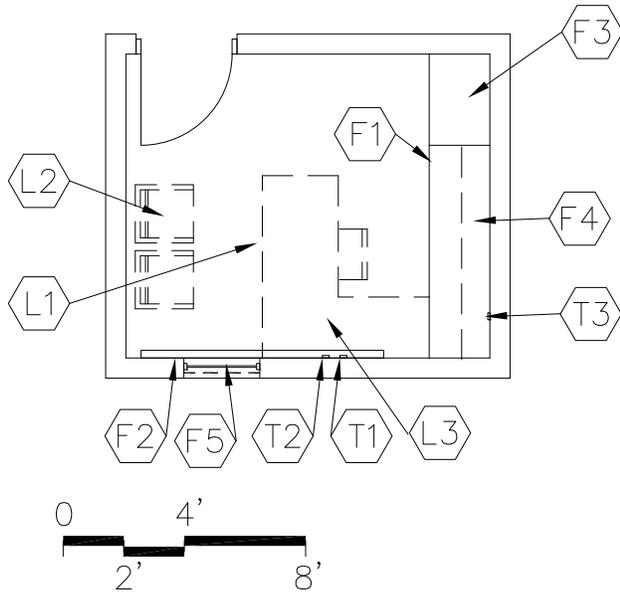
<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
Flooring:		<u>Fixed Items:</u>	
Carpet or Carpet Tile	096816	F1 Work surface with file drawers	123550
	096813	F2 4' of tack board	101100
		or tackable wall surface	
Base:		F3 Tall wardrobe	123550
Resilient base	096500	F4 Wall cabinets above work surface	123550
		F5 Window with integral blind	085116
Ceiling:		<u>Fire Suppression:</u>	
Suspended, acoustical	095113	Fire suppression system	211000
Walls:		<u>Plumbing:</u>	
Painted gypsum wallboard		N/A	
over metal studs	092116/099100		
<u>LOOSE FURNISHINGS:</u>		<u>HVAC:</u>	
L1 Desk and chair		Supply/return air system	Div. 23
L2 Visitor chairs		Independent temperature control	230923
L3 Computer desk return		(coupled with similarly loaded	
Wastebasket		adjacent spaces)	
		<u>Electrical:</u>	
		Single level switching	262726
		Fluorescent lighting	265100
		Illumination level: See Table 8600-5	
		4 duplex receptacles	262726
		Double duplex receptacle adjacent	
		to data and video port	262726
		<u>Communications:</u>	
		T1 1 voice port and phone	271513/ 273123
		T2 1 data port near workstation	271513
		T3 1 video port	271533/271543
		Central sound system	275123
		Clock	275313
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
		<u>Miscellaneous:</u>	
		N/A	

NOTES:

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

**SUPERVISOR'S OFFICE
CT-AD-5**

CHAPTER 6: CAREER-TECHNICAL SCHOOL



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**
CHAPTER 6: CAREER-TECHNICAL SCHOOL

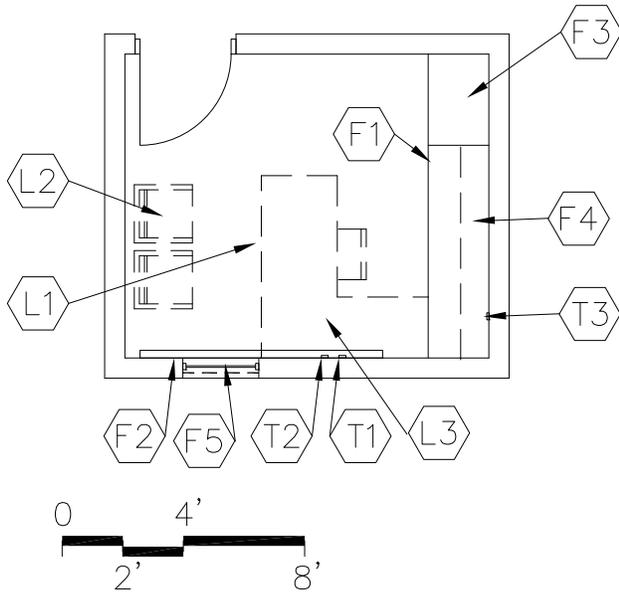
<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
Flooring:		<u>Fixed Items:</u>	
Carpet or Carpet Tile	096816	F1 Work surface with file drawers	123550
	096813	F2 4' of tack board	101100
		or tackable wall surface	
Base:		F3 Tall wardrobe	123550
Resilient base	096500	F4 Wall cabinets above work surface	123550
		F5 Window with integral blind	085116
Ceiling:		<u>Fire Suppression:</u>	
Suspended, acoustical	095113	Fire suppression system	211000
Walls:		<u>Plumbing:</u>	
Painted gypsum wallboard		N/A	
over metal studs	092116/099100		
<u>LOOSE FURNISHINGS:</u>		<u>HVAC:</u>	
L1 Desk and chair		Supply/return air system	Div. 23
L2 Visitor chairs		Independent temperature control	230923
L3 Computer desk return		(coupled with similarly loaded	
Wastebasket		adjacent spaces)	
		<u>Electrical:</u>	
		Single level switching	262726
		Fluorescent lighting	265100
		Illumination level: See Table 8600-5	
		4 duplex receptacles	262726
		Double duplex receptacle adjacent	
		to data and video port	262726
		<u>Communications:</u>	
		T1 1 voice port and phone	271513/ 273123
		T2 1 data port near workstation	271513
		T3 1 video port	271533/271543
		Central sound system	275123
		Clock	275313
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
		<u>Miscellaneous:</u>	
		N/A	

NOTES:

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

**COORDINATOR'S OFFICE
CT-AD-6**

CHAPTER 6: CAREER-TECHNICAL SCHOOL



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**
CHAPTER 6: CAREER-TECHNICAL SCHOOL

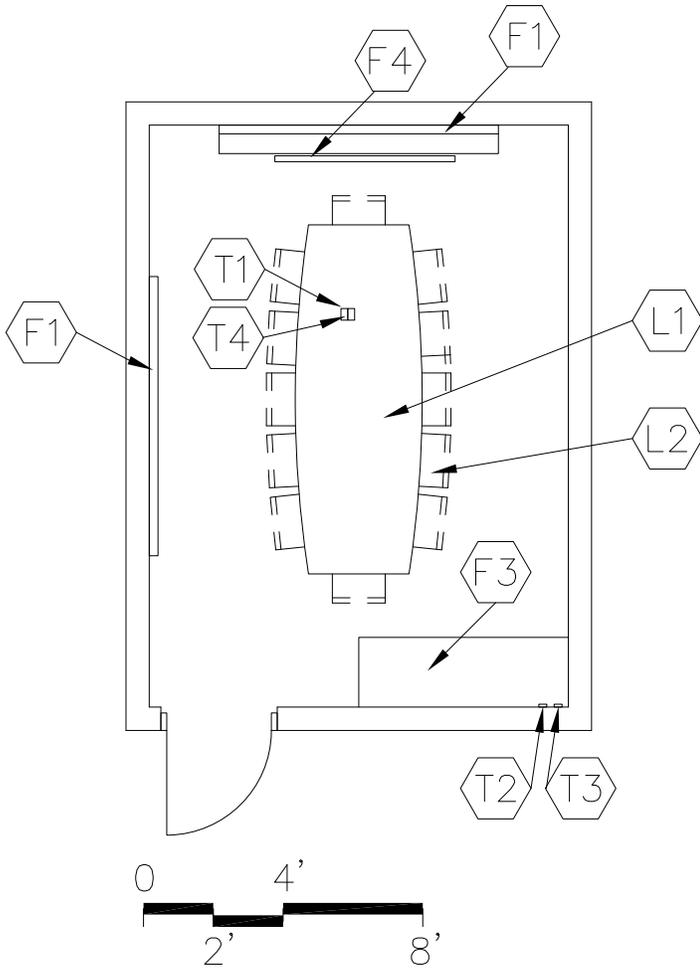
<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
Flooring:		<u>Fixed Items:</u>	
Carpet or Carpet Tile	096816	F1 Work surface with file drawers	123550
	096813	F2 4' of tack board	101100
		or tackable wall surface	
Base:		F3 Tall wardrobe	123550
Resilient base	096500	F4 Wall cabinets above work surface	123550
		F5 Window with integral blind	085116
Ceiling:		<u>Fire Suppression:</u>	
Suspended, acoustical	095113	Fire suppression system	211000
Walls:		<u>Plumbing:</u>	
Painted gypsum wallboard		N/A	
over metal studs	092116/099100		
<u>LOOSE FURNISHINGS:</u>		<u>HVAC:</u>	
L1 Desk and chair		Supply/return air system	Div. 23
L2 Visitor chairs		Independent temperature control	230923
L3 Computer desk return		(coupled with similarly loaded	
Wastebasket		adjacent spaces)	
		<u>Electrical:</u>	
		Single level switching	262726
		Fluorescent lighting	265100
		Illumination level: See Table 8600-5	
		4 duplex receptacles	262726
		Double duplex receptacle adjacent	
		to data and video port	262726
		<u>Communications:</u>	
		T1 1 voice port and phone	271513/ 273123
		T2 1 data port near workstation	271513
		T3 1 video port	271533/271543
		Central sound system	275123
		Clock	275313
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
		<u>Miscellaneous:</u>	
		N/A	

NOTES:

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

**CONFERENCE ROOM
CT-AD-7**

CHAPTER 6: CAREER-TECHNICAL SCHOOL



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

CAPACITY: 12 – 15 persons
SIZE: 250 SF

NOTES:

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

**CONFERENCE ROOM
CT-AD-7**

CHAPTER 6: CAREER-TECHNICAL SCHOOL

<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
Flooring:		<u>Fixed Items:</u>	
Carpet or Carpet Tile	096816	F1 16' combination of chalk/marker board, tackboard, tackable wall surface or media display cabinet	101100
	096813		
Base:		F2 Reserved	
Resilient base	096500	F3 4'-6' of base cabinets (optional)	123550
		F4 Projection screen (optional)	115213
Ceiling:		<u>Fire Suppression:</u>	
Suspended, acoustical	095113	Fire suppression system	211000
Walls:		<u>Plumbing:</u>	
Painted gypsum wallboard over metal studs	092116/099100	N/A	
<u>LOOSE FURNISHINGS:</u>		<u>HVAC:</u>	
L1 Conference table		Supply/return air system	Div. 23
L2 Chairs		Independent temperature control	230923
Wastebasket		<u>Electrical:</u>	
		Multilevel switching	262726
		Fluorescent lighting	265100
		Illumination level: See Table 8600-5	
		3 duplex receptacles	262726
		Double duplex receptacle adjacent to each data and video port	262726
		<u>Communications:</u>	
		T1 1 video port and video display device	
			271533/271543/274119
		T2 1 voice port and phone	271533/ 273123
		T3 1 data port	271513
		T4 Overhead projector	274119
		Clock	275313
		Central sound system	275123
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
		<u>Miscellaneous:</u>	
		N/A	

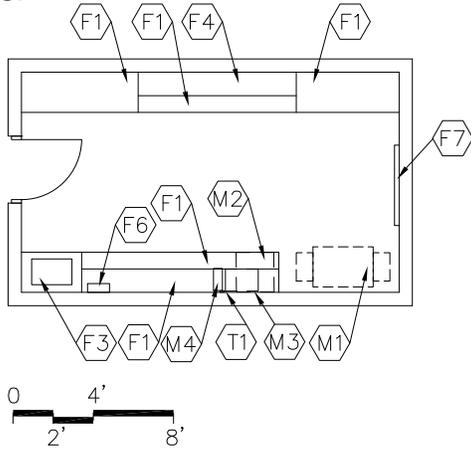
NOTES:

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

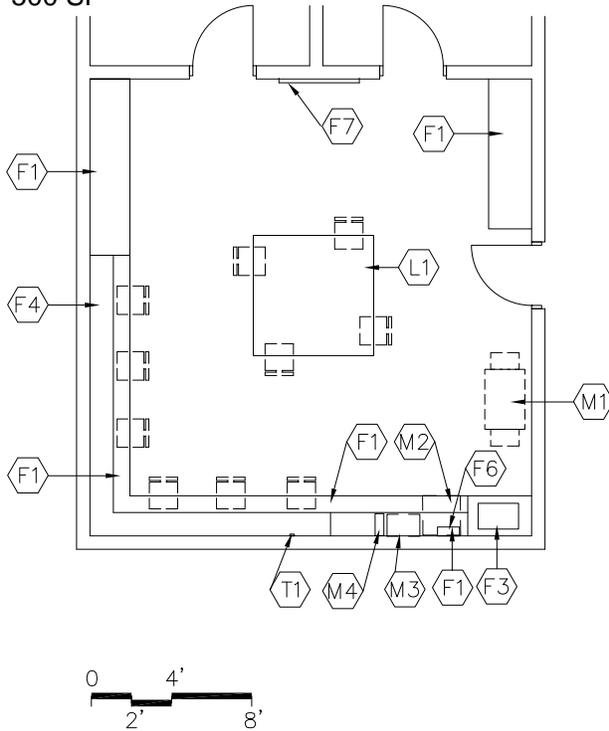
**MAIL/WORK/COPY ROOM
CT-AD-8**

CHAPTER 6: CAREER-TECHNICAL SCHOOL

200 SF



500 SF



CAPACITY:
SIZE:

N/A
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**
CHAPTER 6: CAREER-TECHNICAL SCHOOL

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

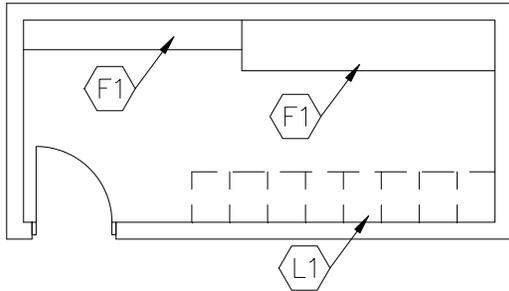
NOTES:

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

**ADMINISTRATIVE STORAGE
CT-AD-9**

CHAPTER 6: CAREER-TECHNICAL SCHOOL

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**
CHAPTER 6: CAREER-TECHNICAL SCHOOL

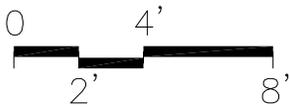
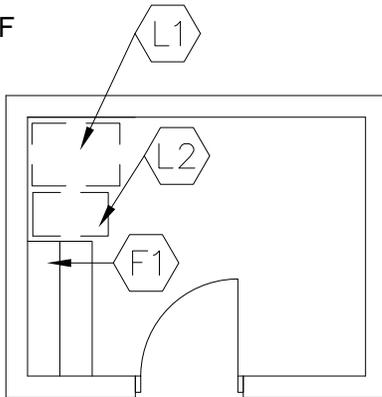
<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
Flooring:		<u>Fixed Items:</u>	
Carpet, carpet tile, linoleum, ET,	096500	F1 10'-20' of open shelving	
rubber, or sheet vinyl	096813	depth may vary (fixed or loose)	123550
	096816	Option: mobile storage shelving	105626
	096516		
Base:		<u>Fire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

NOTES:

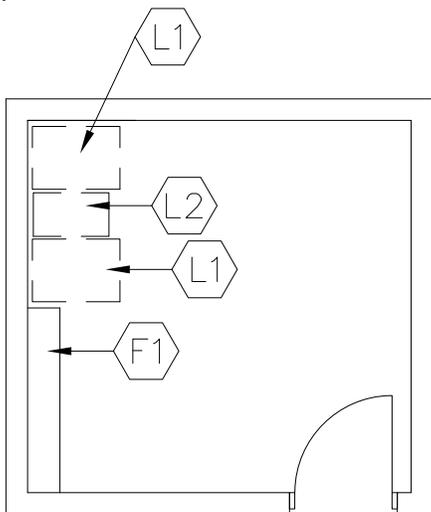
1. Finishes/Features: Refer to Chapter 9 for specification references.

CHAPTER 6: CAREER-TECHNICAL SCHOOL

85 SF



140 SF



**CAPACITY:
SIZE:**

**N/A
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:

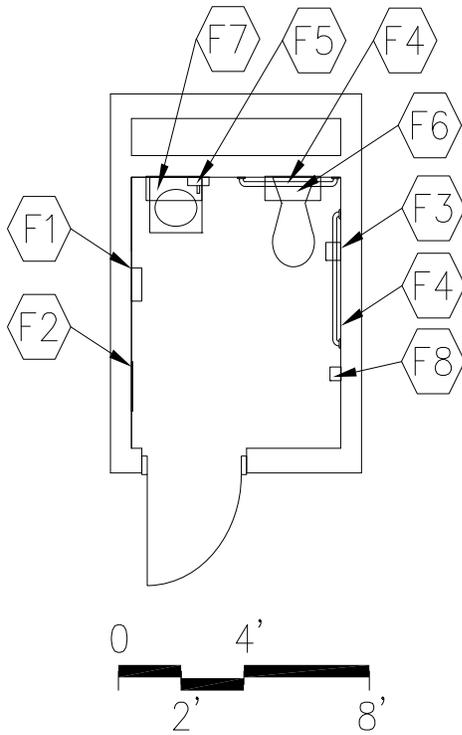
1. Loose furnishings shown represent one of many possible arrangements.

**VAULT/RECORDS
CT-AD-10**
CHAPTER 6: CAREER-TECHNICAL SCHOOL

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

NOTES:

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



PROGRAM ACTIVITIES:

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

SPATIAL RELATIONSHIPS:

- Located in the administrative area

ENVIRONMENTAL CONSIDERATIONS:

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

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

NOTES:

**RESTROOM
CT-AD-11**
CHAPTER 6: CAREER-TECHNICAL SCHOOL

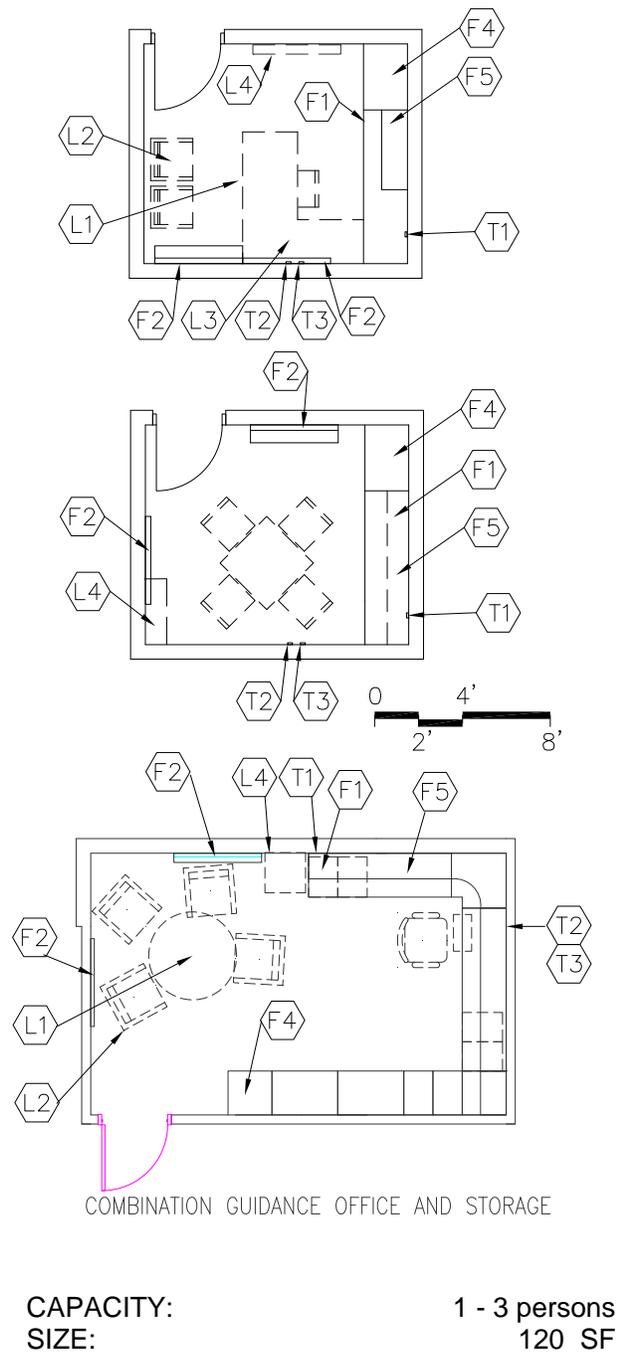
<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
<u>Flooring:</u>		<u>Fixed Items:</u>	
ET, sheet vinyl, porcelain tile,	096516	F1 Towel dispenser	102813
ceramic mosaic tile, or	096500	F2 24" x 60" mirror	102813
resinous flooring	093000	F3 Toilet tissue holder	102813
	096723	F4 36" and 42" grab bar	102813
		F5 Soap dispenser	102813
<u>Base:</u>		F6 8" deep wall cabinet above toilet for supplies (optional)	102813
Resilient base	096500	F7 Stainless steel shelf (optional)	102813
Optional: ceramic mosaic tile,	093000	F8 Coat hook	102813
porcelain tile, resinous flooring, or integral vinyl cove base	096723		
<u>Ceiling:</u>		<u>Fire Suppression:</u>	
Suspended, acoustical	095113	Fire suppression system	211000
<u>Walls:</u>		<u>Plumbing:</u>	
Painted concrete masonry units	042000/099100	Wall-mounted water closet	224000
Optional: moisture & abuse-resistant gypsum wall board	092116/099100	Wall-mounted lavatory	224000
		Plumbing connections	224000/221116/221119
<u>LOOSE FURNISHINGS:</u>		<u>HVAC:</u>	
Wastebasket		Exhaust air system	Div. 23
		Supplemental heat as required	Div. 23
		<u>Electrical:</u>	
		Single level switching	262726
		Fluorescent lighting	265100
		Illumination level: See Table 8600-5	
		1 duplex receptacle	262726
		<u>Communications:::</u>	
		Central sound system	275123
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
		<u>Miscellaneous:</u>	
		N/A	

NOTES:

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

**GUIDANCE COUNSELOR
CT-AD-12**

CHAPTER 6: CAREER-TECHNICAL SCHOOL



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**
CHAPTER 6: CAREER-TECHNICAL SCHOOL

<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
<u>Flooring:</u>		<u>Fixed Items:</u>	
Carpet or Carpet Tile	096816	F1 Work surface with file drawers	123550
	096813	F2 8'-12' combination chalk/marker board, tack board, tackable wall surface	101100
<u>Base:</u>		F3 Reserved	
Resilient base	096500	F4 Tall wardrobe	123550
<u>Ceiling:</u>		F5 Wall cabinets	123550
Suspended, acoustical	095113	<u>Fire Suppression:</u>	
<u>Walls:</u>		Fire suppression system	211000
Painted gypsum wallboard over metal studs	092116/099100	<u>Plumbing:</u>	
<u>LOOSE FURNISHINGS:</u>		N/A	
L1 Desk or table, with chair		<u>HVAC:</u>	
L2 Visitor chairs		Supply/return air system	Div. 23
L3 Computer desk return		Independent temperature control (coupled with similarly loaded adjacent spaces)	230923
L4 Bookcase (fixed or loose)		<u>Electrical:</u>	
Wastebasket		Single level switching	262726
		Fluorescent lighting	265100
		Illumination level: See Table 8600-5	
		4 duplex receptacles	262726
		Double duplex receptacle adjacent to each data and video port	262726
		<u>Communications:</u>	
		T1 1 video port	271533/271543
		T2 1 voice port and phone	271513/ 273123
		T3 1 data port near workstation	271513
		Central sound system	275123
		Clock	275313
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
		<u>Miscellaneous:</u>	
		N/A	

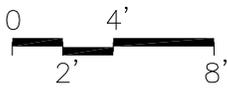
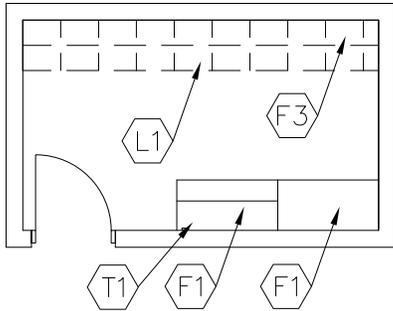
NOTES:

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

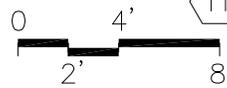
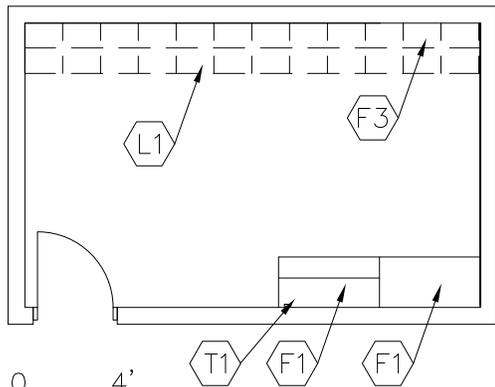
**GUIDANCE RECORDS/STORAGE
CT-AD-13**

CHAPTER 6: CAREER-TECHNICAL SCHOOL

100 SF



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

**CAPACITY:
SIZE:**

N/A
100 - 150 SF

NOTES:

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

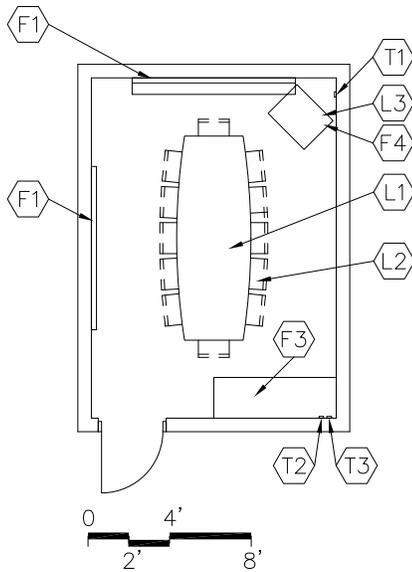
**GUIDANCE RECORDS/STORAGE
CT-AD-13**
CHAPTER 6: CAREER-TECHNICAL SCHOOL

<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
<u>Flooring:</u>		<u>Fixed Items:</u>	
Rubber, carpet, carpet tile, linoleum, ET, or sheet vinyl	096500 096813 096816 096516	F1 6'-10' combination wall and base cabinets and tall cabinets	123550
		F2 Reserved	
<u>Base:</u>		Option: mobile storage shelving or file cabinets	105626
Resilient base	096500	F3 4'-10' shelving (optional)	123550
<u>Ceiling:</u>		<u>Fire Suppression:</u>	
Rated 2-hour construction	---	Fire suppression system	211000
<u>Walls:</u>		<u>Plumbing:</u>	
Painted gypsum wallboard over metal studs or	092116/099100	N/A	
Painted concrete masonry units	042000/099100	<u>HVAC:</u>	
Rated 2-hour construction		To be determined by Design Professional	
<u>LOOSE FURNISHINGS:</u>		<u>Electrical:</u>	
L1 File cabinets		Single level switching	262726
		Fluorescent lighting	265100
		Illumination level: See Table 8600-5	
		1 duplex receptacle	262726
		<u>Communications:</u>	
		T1 1 data port (optional)	271513
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
		<u>Miscellaneous:</u>	
		Wall, ceiling, and door construction to have a 2-hour fire rating	

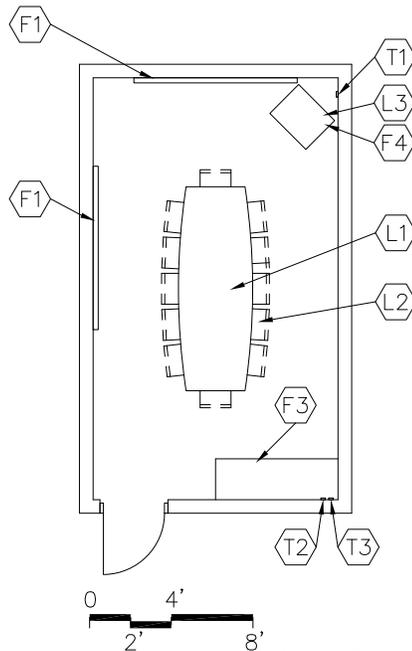
NOTES:

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

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**
CHAPTER 6: CAREER-TECHNICAL SCHOOL

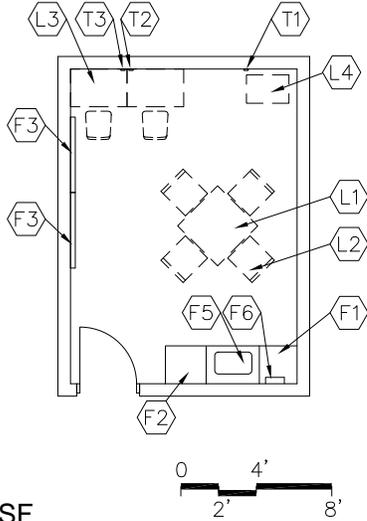
<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
<u>Flooring:</u>		<u>Fixed Items:</u>	
Carpet or Carpet Tile	096816	F1 10'-16' combination chalk/marker board, tack board, tackable wall surface	101100
	096813	F2 Reserved	
<u>Base:</u>		F3 4'-6' of base cabinets	123550
Resilient base	096500	F4 Technology support casework (optional)	123550
<u>Ceiling:</u>		<u>Fire Suppression:</u>	
Suspended, acoustical	095113	Fire suppression system	211000
<u>Walls:</u>		<u>Plumbing:</u>	
Painted gypsum wallboard over metal studs	092116/099100	N/A	
<u>LOOSE FURNISHINGS:</u>		<u>HVAC:</u>	
L1 Conference table		Supply/return air system	Div. 23
L2 Chairs		Independent temperature control	230923
L3 Monitor cart or cabinet (could be fixed casework)		<u>Electrical:</u>	
Wastebasket		Multilevel switching	262726
		Fluorescent lighting	265100
		Illumination level: See Table 8600-5	
		3 duplex receptacles	262726
		Double duplex receptacle adjacent to each data and video port	262726
		<u>Communications:</u>	
		T1 1 video port and video display device	
		271533/271543/274119	
		T2 1 voice port and phone	271513/ 273123
		T3 1 data port	271513
		Clock	275313
		Central sound system	275123
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
		<u>Miscellaneous:</u>	
		N/A	

NOTES:

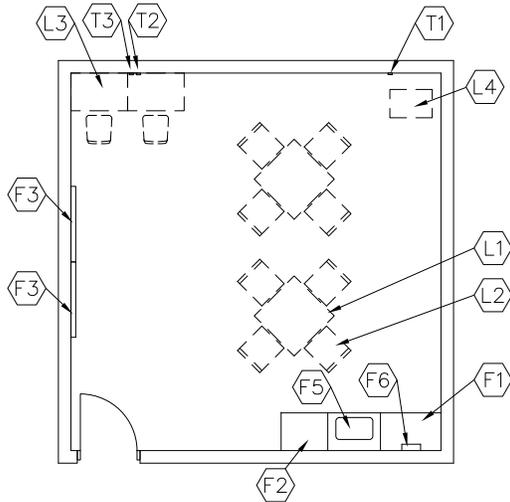
1. Finishes/Features: Refer to Chapter 9 for specification references.
2. Fixed casework and loose furnishings can be also either all fixed or all loose.

CHAPTER 6: CAREER-TECHNICAL SCHOOL

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**

CHAPTER 6: CAREER-TECHNICAL SCHOOL

<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
<u>Flooring:</u>		<u>Fixed Items:</u>	
Carpet or Carpet Tile	096816	F1 About 3' of base cabinets	123550
	096813	F2 Tall wardrobe or coat cabinet (optional)	123550
<u>Base:</u>		F3 8'-12' combination chalk/marker board, tack board, tackable wall surface	101100
Resilient base	096500	F4 Reserved	
<u>Ceiling:</u>		F5 3' sink base cabinet	123550
Suspended, acoustical	095113	F6 Towel dispenser	102813
<u>Walls:</u>		Pencil sharpener support (<i>optional</i>)	062000
Painted gypsum wallboard over metal studs	092116/099100	<u>Fire Suppression:</u>	
		Fire suppression system	211000
<u>LOOSE FURNISHINGS:</u>		<u>Plumbing:</u>	
L1 Table		Sink	224000
L2 Chairs		Plumbing connections	224000/221116/221119
L3 Computer workstation furniture			
L4 Monitor cart		<u>HVAC:</u>	
Wastebasket		Supply/return air system	Div. 15
		Independent temperature control (coupled with similarly loaded adjacent spaces)	230923
		<u>Electrical:</u>	
		Single level switching	262726
		Fluorescent lighting	265100
		Illumination level: See Table 8600-5	
		4 duplex receptacles	262726
		Double duplex receptacle adjacent to each data and video port	262726
		<u>Communications:</u>	
		T1 1 video port and video display device	271533/271543/274119
		T2 1 voice port and phone	271513/ 273123
		T3 1 data port near workstation	271513
		Clock	275313
		Central sound system	275123
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
		<u>Miscellaneous:</u>	
		Pencil sharpener (optional)	

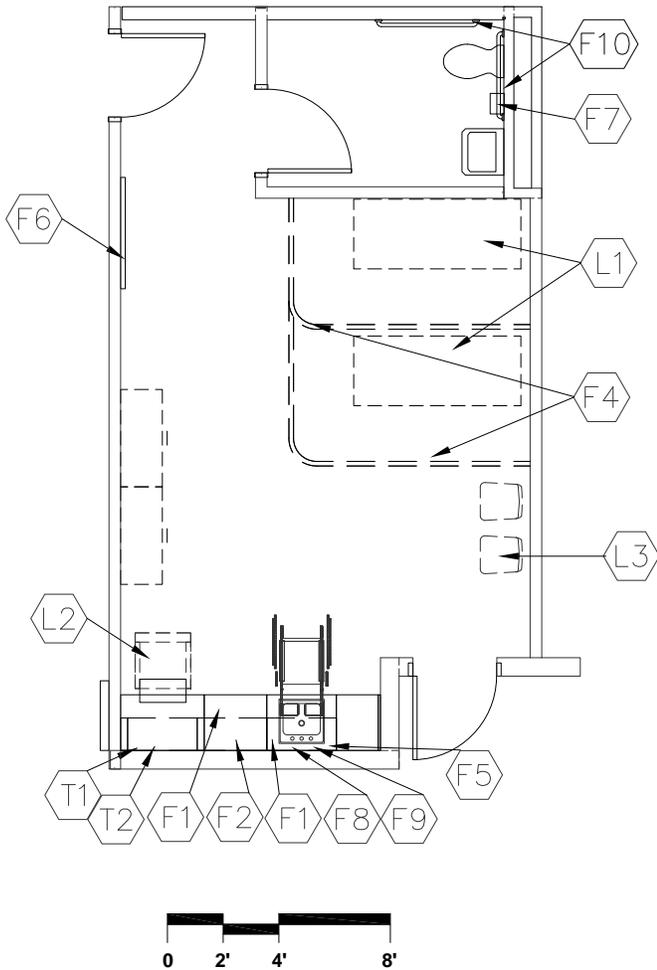
NOTES:

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

**HEALTH CLINIC (includes restroom)
CT-AD-16**

CHAPTER 6: CAREER-TECHNICAL SCHOOL

450 SF



PROGRAM ACTIVITIES:

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

SPATIAL RELATIONSHIPS:

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

ENVIRONMENTAL CONSIDERATIONS:

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

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

NOTES:

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

**HEALTH CLINIC (includes restroom)
CT-AD-16**

CHAPTER 6: CAREER-TECHNICAL SCHOOL

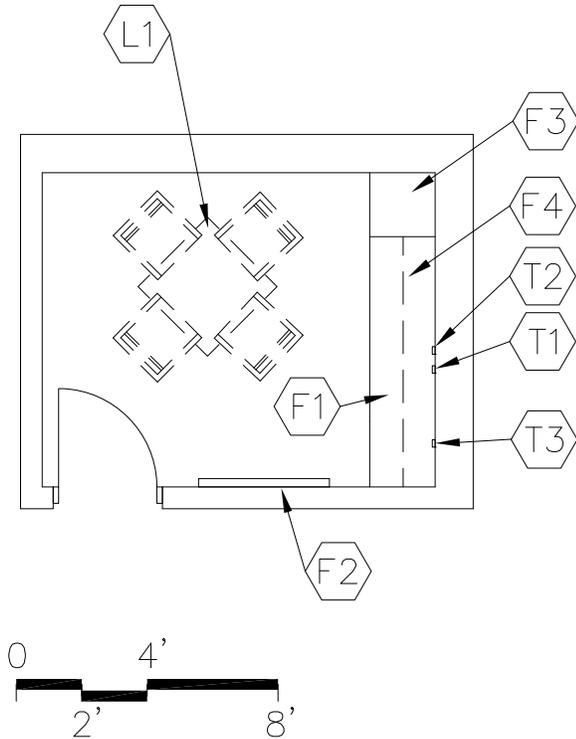
<u>FINISHES</u> ¹ :	Spec. Ref.#	<u>FEATURES</u> ¹ :	Spec. Ref.#
Flooring:		<u>Fixed Items:</u>	
<u>Clinic:</u> Linoleum,	096516	F1 8'-1' combination base and wall	
ET, sheet vinyl, or	096500	cabinets, lockable	123550
resinous flooring	096723	F2 3' sink base cabinet	123550
<u>Restroom:</u> <i>ET, sheet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

NOTES:

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

**ITINERANT PERSONNEL
CT-AD-17**

CHAPTER 6: CAREER-TECHNICAL SCHOOL



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:

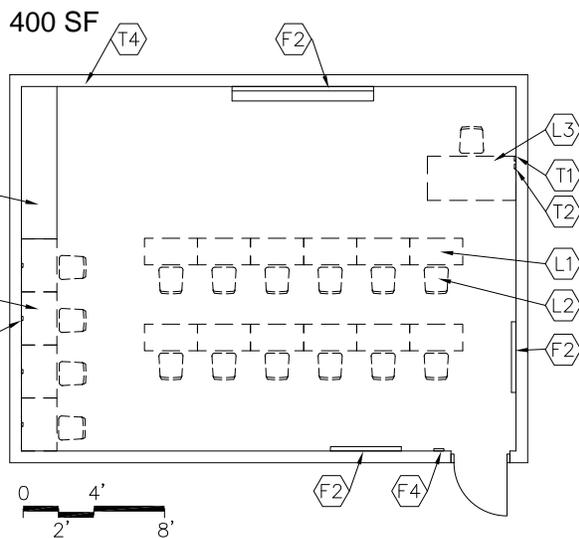
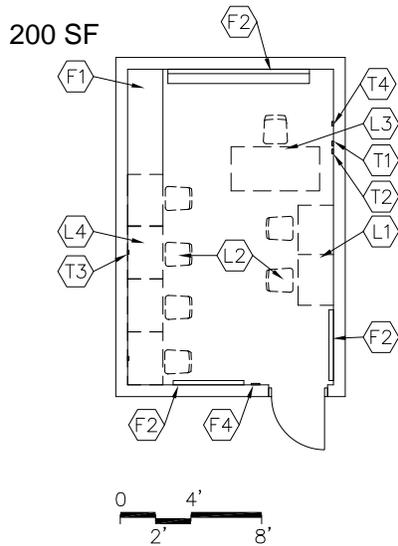
1. Loose furnishings shown represent one of many possible arrangements.

**ITINERANT PERSONNEL
CT-AD-17**
CHAPTER 6: CAREER-TECHNICAL SCHOOL

	Spec. Ref.#		Spec. Ref.#
<u>FINISHES¹:</u>		<u>FEATURES¹:</u>	
Flooring:		<u>Fixed Items:</u>	
Carpet or Carpet Tile	096816	F1 Work surface with file drawers(optional)	123550
	096813	F2 4' of tack board	101100
		or tackable wall surface	
Base:		F3 Tall wardrobe (optional)	123550
Resilient base	096500	F4 Wall cabinets	123550
Ceiling:		<u>Fire Suppression:</u>	
Suspended, acoustical	095113	Fire suppression system	211000
Walls:		<u>Plumbing:</u>	
Painted gypsum wallboard		N/A	
over metal studs	092116/099100		
<u>LOOSE FURNISHINGS:</u>		<u>HVAC:</u>	
L1 Table and chairs		Supply/return air system	Div. 23
Wastebasket		Independent temperature control	230923
		(coupled with similarly loaded	
		adjacent spaces)	
		<u>Electrical:</u>	
		Single level switching	262726
		Fluorescent lighting	265100
		Illumination level: See Table 8600-5	
		4 duplex receptacles	262726
		Double duplex receptacle adjacent	
		to data and video port	262726
		<u>Communications:</u>	
		T1 1 voice port and phone	271513/ 273123
		T2 1 data port	271513
		T3 1 video port	271533/271543
		Central sound system	275123
		Clock	275313
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
		<u>Miscellaneous:</u>	
		N/A	

NOTES:

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



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**
CHAPTER 6: CAREER-TECHNICAL SCHOOL

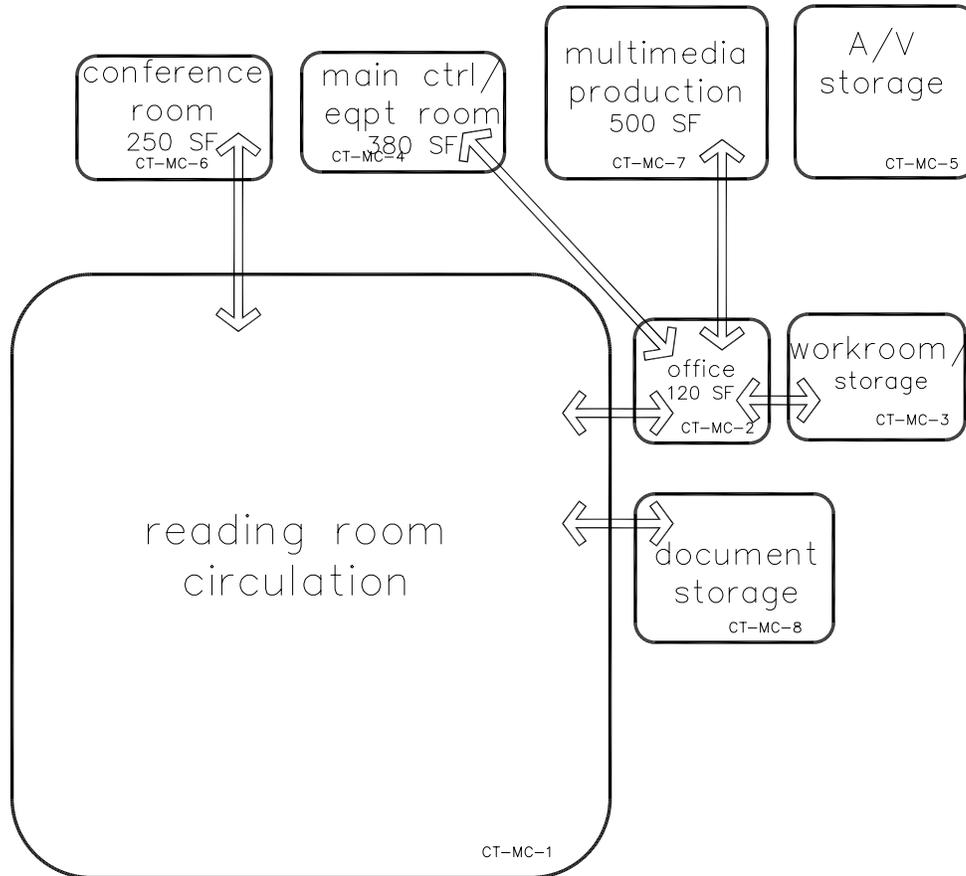
<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
<u>Flooring:</u>		<u>Fixed Items:</u>	
Carpet, carpet tile, ET, linoleum, sheet vinyl, or rubber	096816 096500 096516 096813	F1 3'-4' of base cabinets (optional)	123550
		F2 10'-16' combination chalk/marker board, tack board, tackable wall surface	101100
		F3 Reserved	
<u>Base:</u>		F4 Pencil sharpener support (optional)	062000
Resilient base	096500	<u>Fire Suppression:</u>	
		Fire suppression system	211000
<u>Ceiling:</u>		<u>Plumbing:</u>	
Suspended, acoustical	095113	N/A	
<u>Walls:</u>		<u>HVAC:</u>	
Painted concrete masonry units	042000/092113	Supply/return air system	Div. 23
		Independent temperature control	230923
<u>LOOSE FURNISHINGS:</u>		<u>Electrical:</u>	
L1 Student carrels and/or desks		Single level switching	262726
L2 Student chairs		Fluorescent lighting	265100
L3 Teacher workstation and chair		Illumination level: See Table 8600-5	
L4 Computer workstation furniture		4 duplex receptacles	262726
Wastebasket		Double duplex receptacle adjacent to each data and video port	262726
		<u>Communications:</u>	
		T1 1 voice port and phone	271513/ 273123
		T2 1 data port near teacher workstation	271513
		T3 2 data ports (minimum) for classroom technology	271513
		T4 1 video port	271533/271543
		Clock	275313
		Central sound system	275123
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
		<u>Miscellaneous:</u>	
		Pencil sharpener (optional)	

NOTES:

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

MEDIA CENTER SPACES CT-MC

CHAPTER 6: CAREER-TECHNICAL SCHOOL



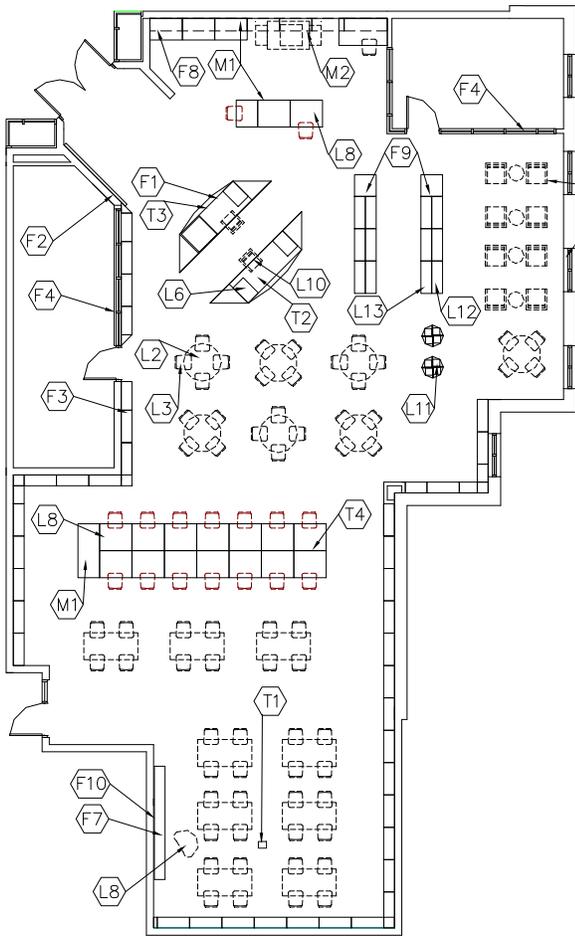
NOTE:

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:

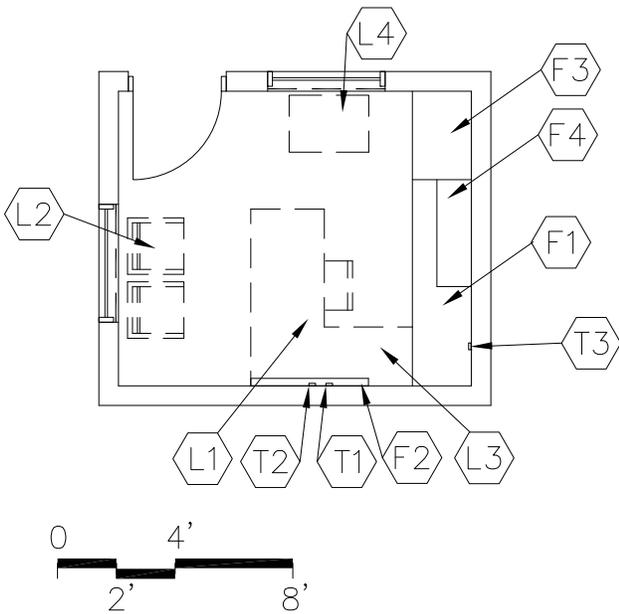
- Natural light opening with an operable vent
- Environmental sound control - wall **only** minimum STC **45**
ceiling minimum CAC 35, NRC 0.70
- Visual awareness of space to students and staff through transparency to corridor

NOTES:

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

**MEDIA SPECIALIST OFFICE
CT-MC-2**

CHAPTER 6: CAREER-TECHNICAL SCHOOL



PROGRAM ACTIVITIES:

- Media specialist to conduct duties

SPATIAL RELATIONSHIPS:

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

ENVIRONMENTAL CONSIDERATIONS:

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

CAPACITY: 1 - 3 persons
SIZE: 120 SF

NOTES:

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

**MEDIA SPECIALIST OFFICE
CT-MC-2**
CHAPTER 6: CAREER-TECHNICAL SCHOOL

<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
<u>Flooring:</u>		<u>Fixed Items:</u>	
Carpet or Carpet Tile	096816	F1 Work surface with file drawers	123550
	096813	F2 4' of tack board or tackable wall surface	101100
<u>Base:</u>		F3 Tall wardrobe	123550
Resilient base	096500	F4 Wall cabinets	123550
<u>Ceiling:</u>		F5 Bookcases (optional)	123550
Suspended, acoustical	095113	<u>Fire Suppression:</u>	
<u>Walls:</u>		Fire suppression system	211000
Painted concrete masonry units	042000/099100	<u>Plumbing:</u>	
		N/A	
<u>LOOSE FURNISHINGS:</u>		<u>HVAC:</u>	
L1 Desk and chair		Supply/return air system	Div. 23
L2 Visitor chairs		Independent temperature control (coupled with similarly loaded adjacent spaces)	230923
L3 Computer desk return		<u>Electrical:</u>	
L4 File cabinet		Single level switching	262726
Wastebasket		Fluorescent lighting	265100
		Illumination level: See Table 8600-5	
		4 duplex receptacles	262726
		Double duplex receptacle adjacent to data and video port	262726
		<u>Communications:</u>	
		T1 1 voice port and phone	271513/ 273123
		T2 1 data port near workstation	271513
		T3 1 video port	271533/271543
		Central sound system	275123
		Clock	275313
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
		<u>Miscellaneous:</u>	
		Interior window	081113/088000

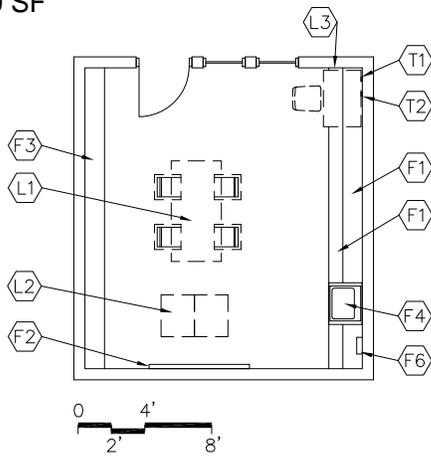
NOTES:

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.

**WORKROOM/STORAGE
CT-MC-3**

CHAPTER 6: CAREER-TECHNICAL SCHOOL

300 SF



PROGRAM ACTIVITIES:

- Space for receiving, processing, and repairing media material

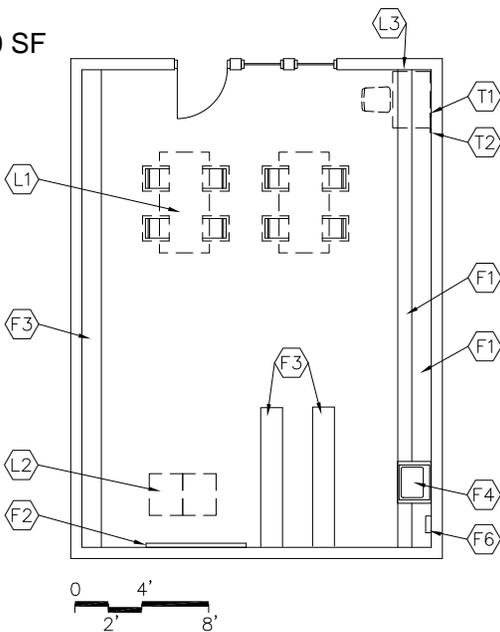
SPATIAL RELATIONSHIPS:

- 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

500 SF



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

NOTES:

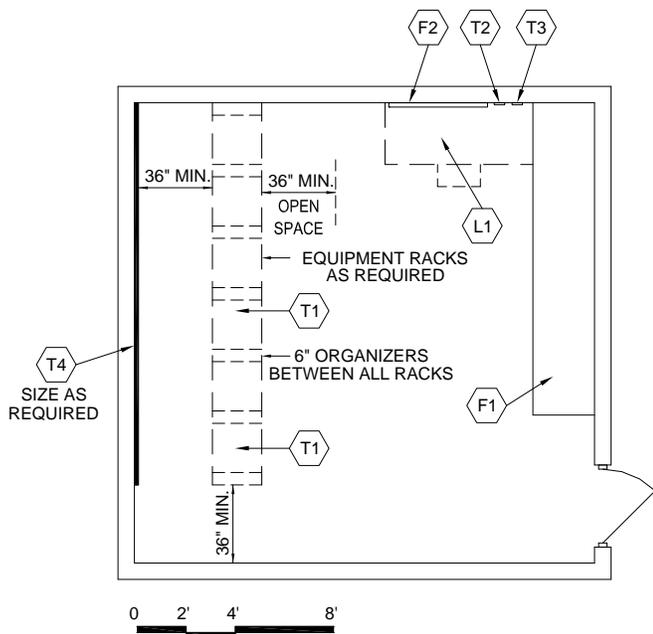
1. Loose furnishings shown represent one of many possible arrangements.

**WORKROOM/STORAGE
CT-MC-3**
CHAPTER 6: CAREER-TECHNICAL SCHOOL

<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
<u>Flooring:</u>		<u>Fixed Items²:</u>	
Linoleum , rubber, <i>ET or sheet</i>	096500	F1 26'-50' combination base, wall	123550
Vinyl	096516	and tall cabinets	
Option: Carpet, carpet tile	096813	F2 4'-8' of tack board or marker board	101100
	096816	F3 16'-60' of bookcases	123550
		F4 3' sink base cabinet	123550
<u>Base:</u>		F5 Reserved	
Resilient base	096500	F6 Towel dispenser	102813
<u>Ceiling:</u>		<u>Fire Suppression:</u>	
Suspended, acoustical	095113	Fire suppression system	211000
<u>Walls:</u>		<u>Plumbing:</u>	
Painted concrete masonry units		Sink	224000
	042000/099100	Plumbing connections	224000/221116/221119
<u>LOOSE FURNISHINGS:</u>		<u>HVAC:</u>	
L1 Table and chairs		Supply/return air system	Div. 23
L2 Book trucks		Independent temperature control	230923
L3 Computer workstation		(coupled with similarly loaded	
Wastebasket		adjacent spaces)	
		<u>Electrical:</u>	
		Single level switching	262726
		Fluorescent lighting	265100
		Illumination level: See Table 8600-5	
		3 duplex receptacles	262726
		Double duplex receptacle adjacent to	
		each data port	262726
		<u>Communications:</u>	
		T1 1 voice port and phone	271513/ 273123
		T2 1 data port	271513
		Clock	275313
		Central sound system	275123
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
		<u>Miscellaneous:</u>	
		Interior window	081113/088000

NOTES:

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



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

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.

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**

CHAPTER 6: CAREER-TECHNICAL SCHOOL

<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
Flooring:		<u>Fixed Items:</u>	
ET or sheet vinyl	096500	F1 8'-16' of open shelving, depth may vary (fixed or loose)	123550
Base:		F2 4' of tack board or marker board (optional)	101100
Resilient base	096500	<u>Fire Suppression:</u>	
Ceiling:		Fire suppression system	211000
Suspended, acoustical	095113	<u>Plumbing:</u>	
Walls:		N/A	
Painted concrete masonry units	042000/099100	<u>HVAC:</u>	
<u>LOOSE FURNISHINGS:</u>		Independent, packaged system	Div. 23
L1 Desk and chair		<u>Electrical:</u>	
Wastebasket		Single level switching	262726
		Fluorescent lighting	265100
		Illumination level: See Table 8600-5	
		3 duplex receptacles	262726
		Duplex receptacle for electronic systems	262726
		Telecommunications Grounding	270526/260526
		Standby Power	263213/263600
		<u>Communications:</u>	
		T1 Technology Equipment	
		Central sound system	275123
		Telephone wiring	271313/271513
		Integrated telephone system	273123
		Video wiring	271333/271533/271543
		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
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
		Security system	281300/281600/282300
		<u>Miscellaneous:</u>	
		Provide distribution equipment with an equipment electrical ground.	

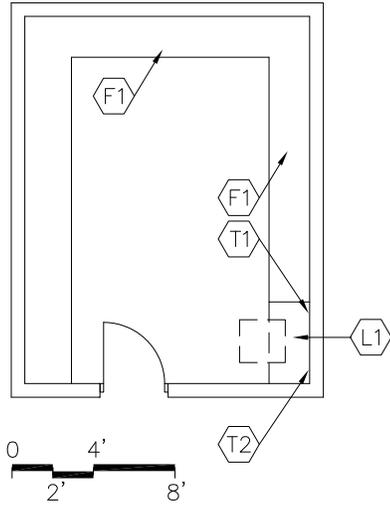
NOTES:

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

**A/V STORAGE
CT-MC-5**

CHAPTER 6: CAREER-TECHNICAL SCHOOL

250 SF



PROGRAM ACTIVITIES:

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

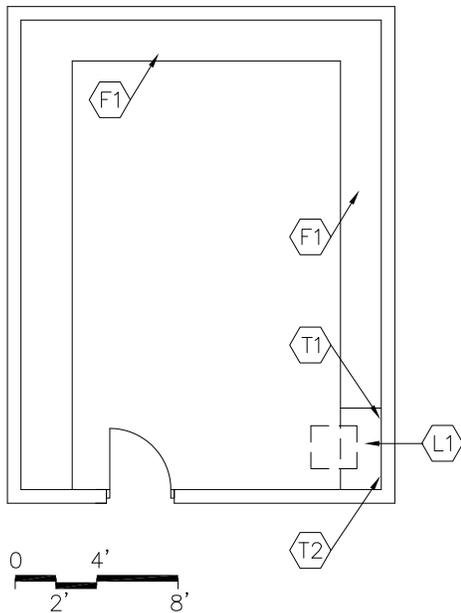
SPATIAL RELATIONSHIPS:

- Near media specialist office
- Near workroom/storage

ENVIRONMENTAL CONSIDERATIONS:

N/A

350 SF



CAPACITY:

N/A

SIZE:

250 - 350 SF

NOTES:

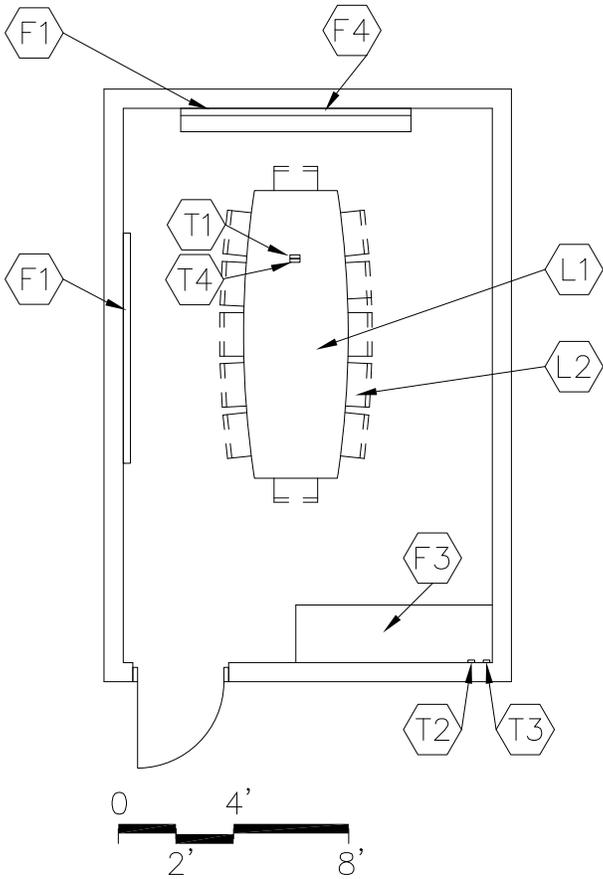
A/V STORAGE
CT-MC-5

CHAPTER 6: CAREER-TECHNICAL SCHOOL

	Spec. Ref.#		Spec. Ref.#
<u>FINISHES¹:</u>		<u>FEATURES¹:</u>	
Flooring:		<u>Fixed Items³:</u>	
Rubber	096500	F1 8' – 26' of open shelving, depths may vary (fixed or loose)	123550
Base:		Option: mobile storage shelving	105626
Resilient base	096500	<u>Fire Suppression:</u>	
Ceiling:		Fire suppression system	211000
Suspended, acoustical	095113	<u>Plumbing:</u>	
Walls:		N/A	
Painted concrete masonry units	042000/099100	<u>HVAC:</u>	
<u>LOOSE FURNISHINGS:</u>		To be determined by Design Professional	
L1 Desk and chair		<u>Electrical:</u>	
Wastebasket		Single level switching	262726
		Fluorescent lighting	265100
		Illumination level: See Table 8600-5	
		4 duplex receptacles (minimum)	262726
		<u>Communications:</u>	
		T1 1 voice port and phone	271513/ 273123
		T2 1 data port near workstation	271513
		Central sound system	275123
		<u>Electronic Safety and Security:</u>	
		N/A	
		<u>Miscellaneous:</u>	
		N/A	

NOTES:

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



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**
CHAPTER 6: CAREER-TECHNICAL SCHOOL

<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
<u>Flooring:</u>		<u>Fixed Items²:</u>	
Carpet or Carpet Tile	096816	F1 14'-18' combination chalk/marker board, tack board and tackable wall surface	101100
	096813		
<u>Base:</u>		F2 Reserved	
Resilient base	096500	F3 4'-6' of base cabinets (optional) (fixed or mobile)	123550
<u>Ceiling:</u>		F4 Projection screen (optional)	115213
Suspended, acoustical	095113		
<u>Walls:</u>		<u>Fire Suppression:</u>	
Painted concrete masonry units	042000/099100	Fire suppression system	211000
<u>LOOSE FURNISHINGS:</u>		<u>Plumbing:</u>	
L1 Conference table		N/A	
L2 Chairs		<u>HVAC:</u>	
Wastebasket		Supply/return air system	Div. 23
		Independent temperature control	230923
		<u>Electrical:</u>	
		Multilevel switching	262726
		Fluorescent lighting	265100
		Illumination level: See Table 8600-5	
		3 duplex receptacles	262726
		Double duplex receptacle adjacent to each data and video port	262726
		<u>Communications:</u>	
		T1 1 video port	271533/271543
		T2 1 voice port and phone	271513/ 273123
		T3 1 data port	271513
		T4 Overhead projector	274119
		Clock	275313
		Central sound system	275123
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
		<u>Miscellaneous:</u>	
		N/A	

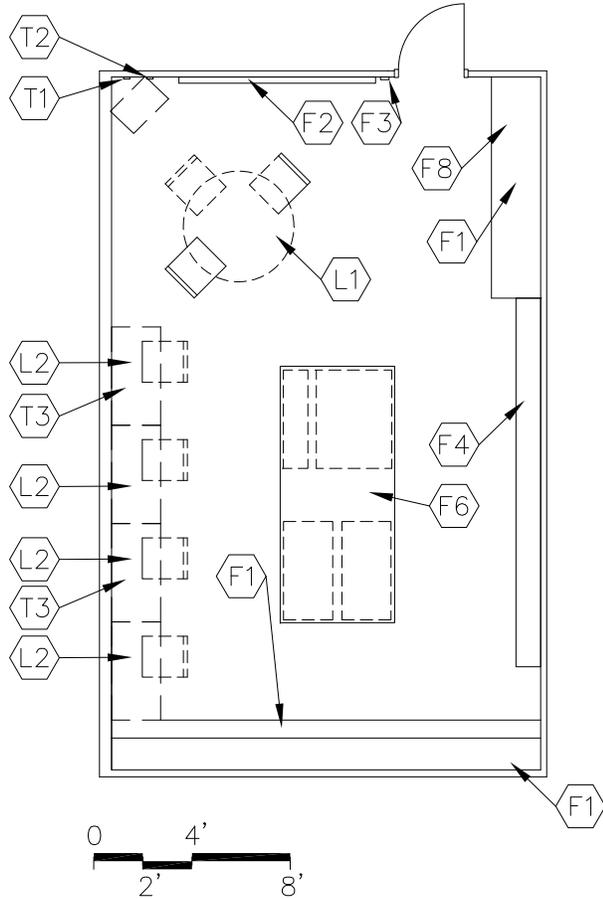
NOTES:

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

**MULTIMEDIA PRODUCTION ROOM
CT-MC-7**

CHAPTER 6: CAREER-TECHNICAL SCHOOL

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**
CHAPTER 6: CAREER-TECHNICAL SCHOOL

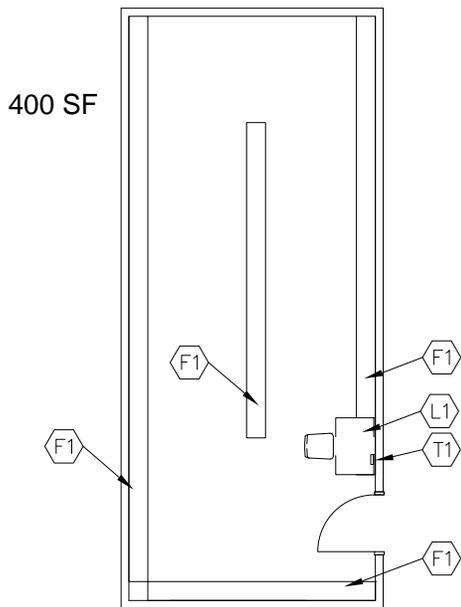
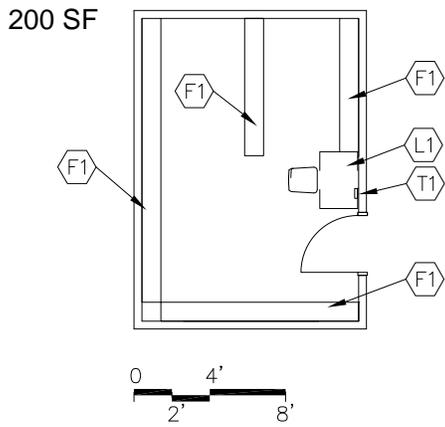
<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
Flooring:		<u>Fixed Items²:</u>	
Linoleum,	096500	F1 15'-45' combination base, wall and	
ET, sheet vinyl, or rubber	096516	tall cabinets	123550
Base:		F2 4'-8' of tack board or marker board	101100
Resilient base	096500	F3 Pencil sharpener support (optional)	062000
Ceiling:		F4 4' - 16' of tall bookcases	123550
Suspended, acoustical	095113	F5 Reserved	
Walls:		F6 Work surface	123550
Painted concrete masonry units	042000/099100	F7 Reserved	
		F8 Technology support casework (if applicable)	123550
<u>LOOSE FURNISHINGS:</u>		<u>Fire Suppression:</u>	
L1 Tables and chairs/stools		Fire suppression system	211000
L2 Computer workstation furniture		<u>Plumbing:</u>	
Wastebasket		N/A	
		<u>HVAC:</u>	
		Supply/return air system	Div. 23
		Independent temperature control	230923
		<u>Electrical:</u>	
		Multilevel switching	262726
		Fluorescent lighting	265100
		Illumination level: See Table 8600-5	
		4 duplex receptacles	262726
		Double duplex receptacle adjacent to each data and video port	262726
		<u>Communications:</u>	
		T1 1 video port and video display device	
			271533/271543/274119
		T2 1 voice port and phone	271513/ 273123
		T3 4 data ports	271513
		Clock	275313
		Central sound system	275123
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
		<u>Miscellaneous:</u>	
		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	

NOTES:

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

**DOCUMENT STORAGE
CT-MC-8**

CHAPTER 6: CAREER-TECHNICAL SCHOOL



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**
CHAPTER 6: CAREER-TECHNICAL SCHOOL

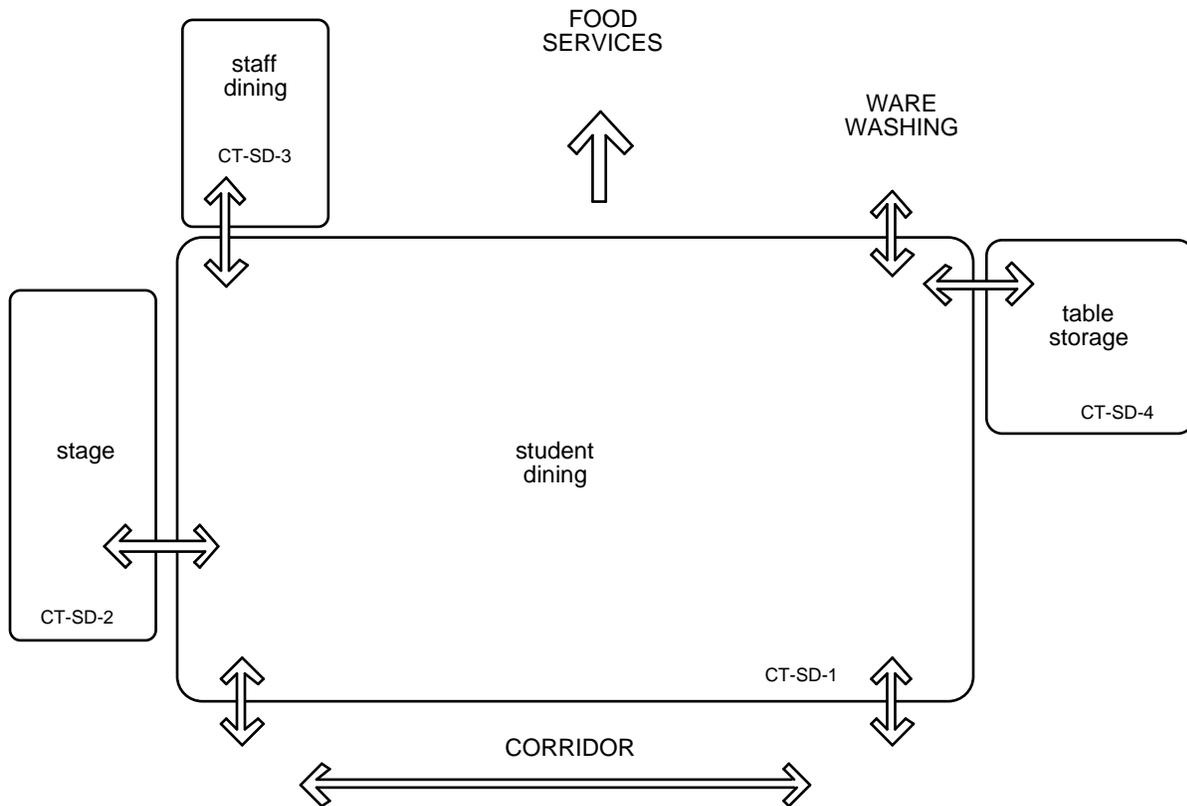
	Spec. Ref.#		Spec. Ref.#
<u>FINISHES</u>¹:		<u>FEATURES:</u>	
Flooring:		<u>Fixed Items</u>²:	
Rubber, <i>linoleum, ET, or sheet vinyl flooring</i>	096500 096516	F1 36' – 80' of open shelving (fixed or loose)	123550
		Option: mobile storage shelving	105626
Base:			
Resilient base	096500	<u>Fire Suppression:</u>	
Ceiling:		Fire suppression system	211000
Suspended, acoustical	095113	<u>Plumbing:</u>	
Walls:		N/A	
Painted concrete masonry units	042000/099100	<u>HVAC:</u>	
		To be determined by Design Professional	
<u>LOOSE FURNISHINGS:</u>		Supplemental heat as required	Div. 23
L1 Computer worksurface		<u>Electrical:</u>	
		Fluorescent lighting:	265100
		Illumination level: See Table 8600-5	
		Single level switching	262726
		2 duplex receptacles	262726
		<u>Communications:</u>	
		T1 1 data port (optional)	271523
		<u>Electronic Safety and Security:</u>	
		N/A	
		<u>Miscellaneous:</u>	
		N/A	

NOTES:

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

STUDENT DINING SPACES CT-SD

CHAPTER 6: CAREER-TECHNICAL SCHOOL



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.

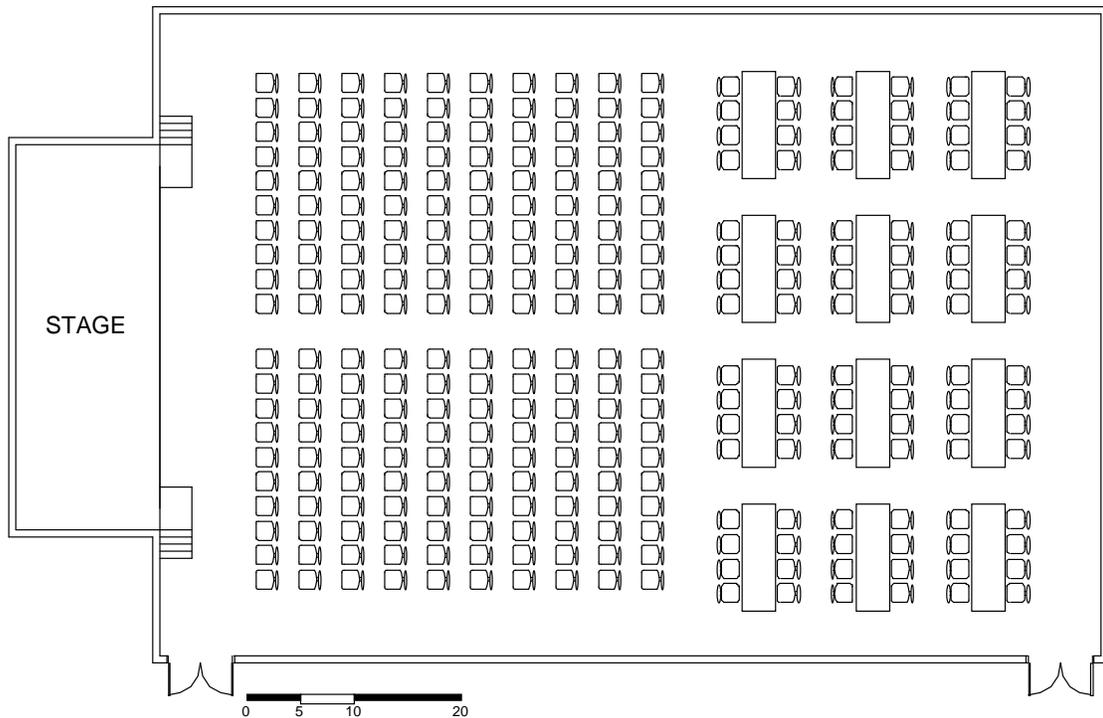
Following are the Administrative space plates for the following rooms:

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

**STUDENT DINING SPACES
CT-SD**

CHAPTER 6: CAREER-TECHNICAL SCHOOL

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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:

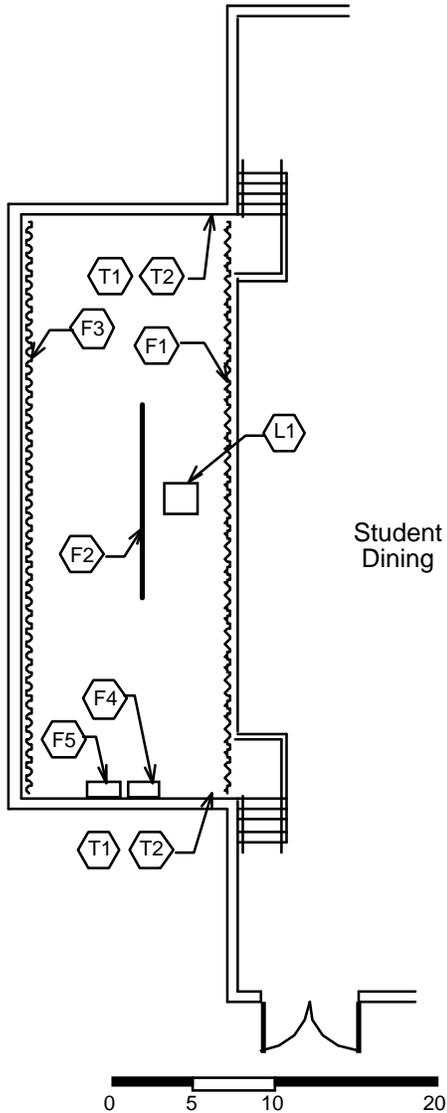
1. Loose furnishings shown represent one of many possible arrangements.

**STUDENT DINING
CT-SD-1**
CHAPTER 6: CAREER-TECHNICAL SCHOOL

<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
<u>Flooring:</u>		<u>Fixed Items:</u>	
Linoleum, rubber, ET ,	096500	N/A	
sheet vinyl, porcelain tile,	096516		
resinous flooring	033519	<u>Fire Suppression:</u>	
polished concrete finishing,	033510	Fire suppression system	211000
or colored concrete finishing	096723	<u>Plumbing:</u>	
<u>Base:</u>		N/A	
Resilient base	096500	<u>HVAC:</u>	
Option: Porcelain tile base	093000	Supply/return air system	Div. 23
<u>Ceiling³:</u>		Independent temperature control	230923
Suspended, acoustical	095113	<u>Electrical:</u>	
Painted exposed structure	099100	High intensity discharge lighting	265100
Reflector panels	098000	or fluorescent lighting	
<u>Walls:</u>		Dimmable quartz lighting	265100
Painted concrete masonry units	042000/099100	illumination level: see table 8600-6	
Diffusing block on 2 walls		Multilevel switching with dimming	262726
(minimum) or	042000	6 duplex receptacles	262726
Acoustic treatment	098000	Double duplex receptacle adjacent to	
(varies with geometry of room)		each data and video port	262726
<u>LOOSE FURNISHINGS:</u>		Emergency lighting per code	265100
L1 Tables		Means of egress lighting per code	265100
L2 Folding or high-density stack chairs		Telecommunications Grounding	270526/260526
for large assembly use		<u>Communications:</u>	
Waste receptacles		T1 2 voice ports	271513/ 273123
Recycling bins		T2 2 video ports	271533/271543
Carts for chairs		T3 2 data ports (minimum)	271513
		Clocks	275313
		Central sound system	275123
		Student dining/auditeria sound system	275121
		T4 Overhead projector	274119
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
		<u>Miscellaneous:</u>	
		N/A	

NOTES:

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



PROGRAM ACTIVITIES:

- Presentations

SPATIAL RELATIONSHIPS:

- Adjacent to student dining
- Near food services

ENVIRONMENTAL CONSIDERATIONS:

- Access capability
- Sound system

CAPACITY: N/A
SIZE: student capacity multiplied by 1.5 SF or 800 SF, whichever is larger

ANCILLARY SPACES:
 Student Dining, CT-SD-1

NOTES:

**STAGE
CT-SD-2**
CHAPTER 6: CAREER-TECHNICAL SCHOOL

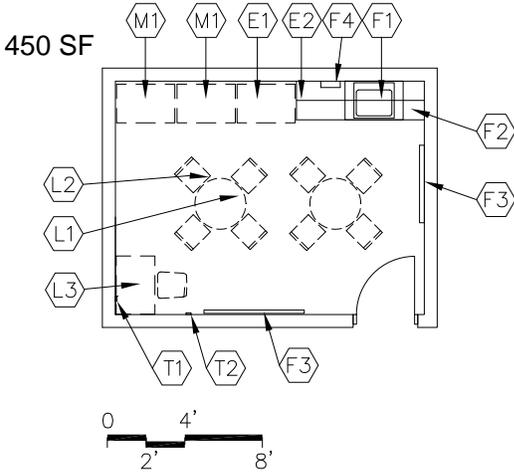
<u>FINISHES</u> ¹ :	Spec. Ref.#	<u>FEATURES</u> ¹ :	Spec. Ref.#
<u>Flooring:</u>		<u>Fixed Items:</u>	
Stage: Softwood or combination hardwood and softwood	096400	F1 Front curtain, track, and valance	116143
Stairs: Carpet, rubber, wood, or carpet tile	096816 096813	F2 Projection screen	116143
		F3 Rear curtain	116143
		F4 Sound control console	275121
		F5 Lighting control console	265100
<u>Base:</u>		<u>Fire Suppression:</u>	
Ventilated resilient base	096400	Fire suppression system	211000
<u>Ceiling:</u>		<u>Plumbing:</u>	
Painted exposed structure	099100	N/A	
<u>Walls:</u>		<u>HVAC:</u>	
Painted concrete masonry units	042000/099100	Supply/return air system	Div. 23
		Independent temperature control	230923
<u>LOOSE FURNISHINGS:</u>		<u>Electrical:</u>	
L1 Podium		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
		<u>Communications:</u>	
		T1 2 video ports	271533/271543
		T2 2 data ports	271513
		Student dining/auditeria sound system ²	275121
		Central sound system	275123
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
		<u>Miscellaneous:</u>	
		N/A	

NOTES:

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

**STAFF DINING
CT-SD-3**

CHAPTER 6: CAREER-TECHNICAL SCHOOL



PROGRAM ACTIVITIES:

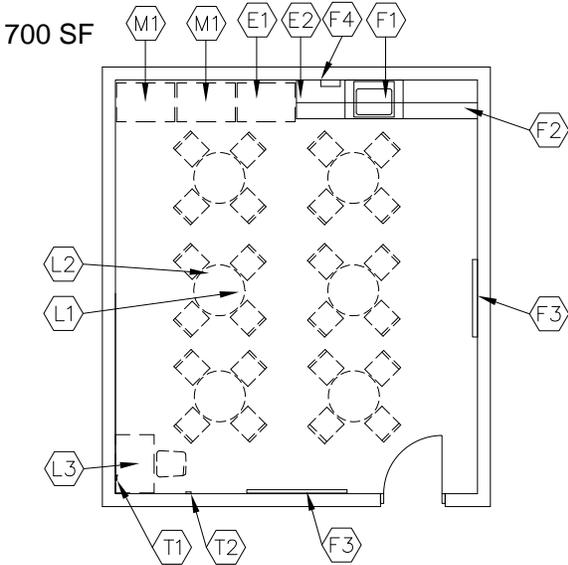
- Space for staff dining

SPATIAL RELATIONSHIPS:

- Near student dining
- Near food services

ENVIRONMENTAL CONSIDERATIONS:

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



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

NOTES:

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

STAFF DINING
CT-SD-3

CHAPTER 6: CAREER-TECHNICAL SCHOOL

<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
<u>Flooring:</u>		<u>Fixed Items:</u>	
Linoleum, rubber, ET,	096500	F1 3' sink base cabinet with wall cabinet	123550
sheet vinyl, porcelain tile,	096516	F2 About 8' of base and wall cabinets	123550
or resinous flooring	093000	F3 8'-10' combination chalk/marker	101100
	096723	board, tack board, tackable wall surface	
		F4 Towel dispenser	102813
<u>Base:</u>		<u>Fire Suppression:</u>	
Resilient base	096500	Fire suppression system	211000
Optional: porcelain tile base	093000		
<u>Ceiling:</u>		<u>Plumbing:</u>	
Suspended, acoustical	095113	Sink	224000
		Plumbing connections	224000/221116/221119
<u>Walls:</u>		<u>HVAC:</u>	
Painted, concrete masonry units	042000/099100	Supply/return air system	Div. 23
		Independent temperature control	230923
<u>LOOSE FURNISHINGS:</u>		<u>Electrical:</u>	
L1 Tables		Single level switching	262726
L2 Chairs		Fluorescent lighting	265100
L3 Computer workstation		Illumination level: See Table 8600-6	
Waste receptacle		4 duplex receptacles	262726
		Double duplex receptacle adjacent to	
		each video port	262726
		Receptacles for vending machines,	
		refrigerator, and microwave	262726
<u>EQUIPMENT:</u>		<u>Communications:</u>	
E1 Refrigerator		T1 1 video port	271533/271543
E2 Microwave		T2 1 voice port and phone	271513/ 273123
		Clock	275313
		Central sound system	275123
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
		<u>Miscellaneous:</u>	
		The following items are to be funded by the school district:	
		M1 Vending machines	

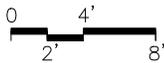
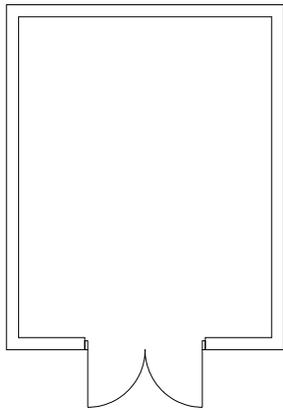
NOTES:

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

**TABLE STORAGE
CT-SD-4**

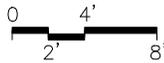
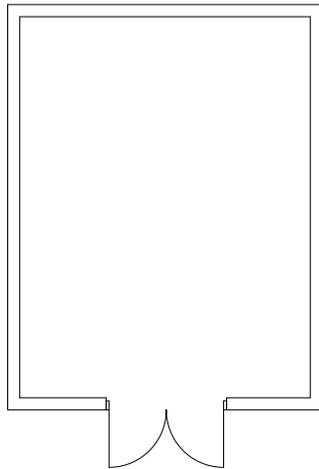
CHAPTER 6: CAREER-TECHNICAL SCHOOL

400 SF



Student Dining

550 SF



Student Dining

CAPACITY:
SIZE:
ANCILLARY SPACES:

N/A
400 - **700** SF
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**
CHAPTER 6: CAREER-TECHNICAL SCHOOL

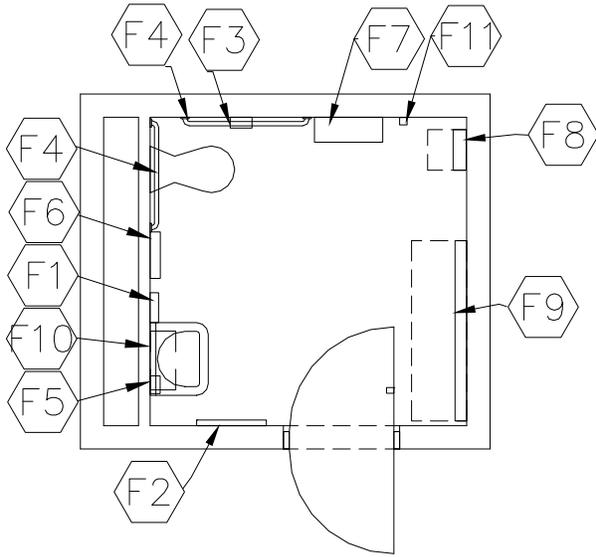
<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
Flooring:		<u>Fixed Items:</u>	
Sealed concrete	093000	N/A	
Base:		<u>Fire Suppression:</u>	
No base		Fire suppression system	211000
Ceiling:		<u>Plumbing:</u>	
Exposed structure		N/A	
Option: Rated gypsum wallboard	092116	<u>HVAC:</u>	
Walls:		Exhaust air system	Div. 23
Unpainted concrete masonry units	042000	Supplemental heat as required	Div. 23
<u>LOOSE FURNISHINGS:</u>		<u>Electrical:</u>	
N/A		Single level switching	262726
		Fluorescent lighting	265100
		Illumination level: See Table 8600-6	
		1 duplex receptacle	262726
		<u>Communications:</u>	
		N/A	
		<u>Electronic Safety and Security:</u>	
		N/A	
		<u>Miscellaneous:</u>	
		N/A	

NOTES:

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

**FAMILY RESTROOM
CT-SD-5**

CHAPTER 6: CAREER-TECHNICAL SCHOOL



PROGRAM ACTIVITIES:

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

SPATIAL RELATIONSHIPS:

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

ENVIRONMENTAL CONSIDERATIONS:

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

CAPACITY: 2 people
SIZE: 80 SF

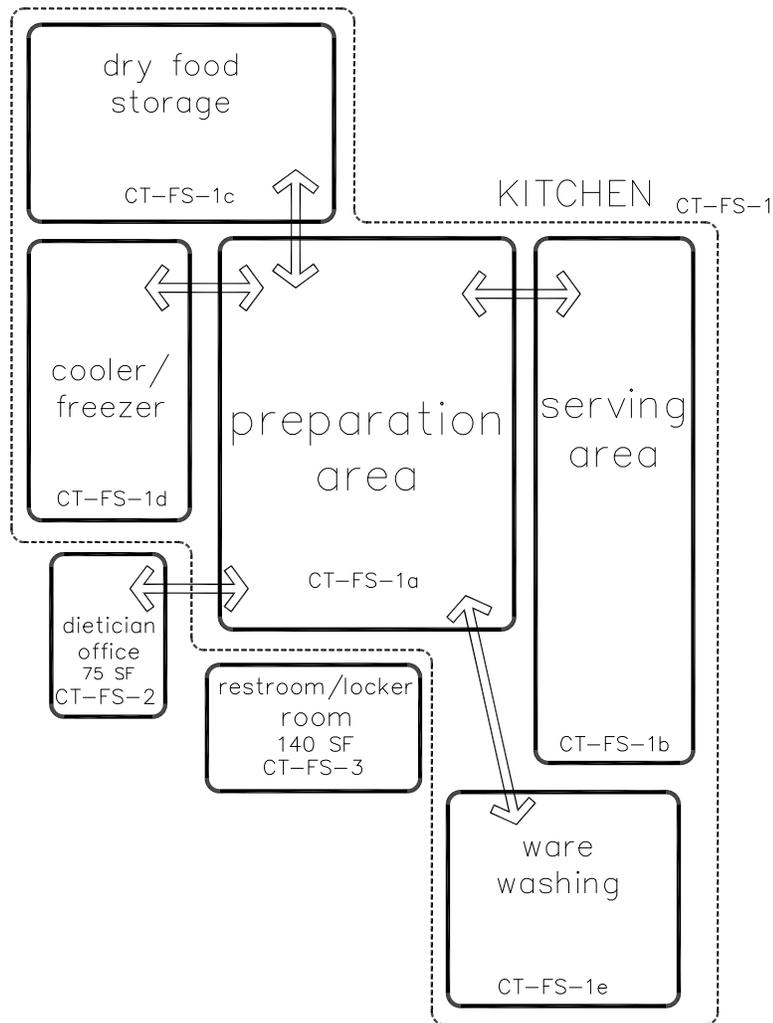
NOTES:

**FAMILY RESTROOM
CT-SD-5**
CHAPTER 6: CAREER-TECHNICAL SCHOOL

<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
<u>Flooring:</u>		<u>Fixed Items:</u>	
ET or sheet vinyl	096516	F1 Towel dispenser	102813
	096500	F2 24" x 60" mirror	102813
Optional: Ceramic mosaic tile,	093000	F3 Toilet tissue holder	102813
porcelain tile, or	096723	F4 36" and 42" grab bar	102813
resinous flooring		F5 Soap dispenser	102813
		F6 Sanitary napkin dispenser/disposal	102813
<u>Base:</u>		F7 Folding utility shelf	102813
Resilient base	096500	F8 Mounted child seat	102813
Optional: Ceramic mosaic tile,	093000	F9 Adult/child changing station	102813
porcelain tile, resinous flooring	096723	F10 16" x 24" mirror with shelf	102813
flooring, or integral vinyl cove base		F11 Coat hooks	102813
		<u>Fire Suppression:</u>	
<u>Ceiling:</u>		Fire suppression system	211000
Suspended, acoustical	095113		
		<u>Plumbing:</u>	
<u>Walls:</u>		Wall-mounted water closet	224000
Painted concrete masonry units	042000/099100	Wall-mounted lavatory	224000
		Plumbing connections	224000/221116/221119
<u>LOOSE FURNISHINGS:</u>		<u>HVAC:</u>	
Wastebasket		Exhaust air system	Div. 23
		Supplemental heat as required	Div. 23
		<u>Electrical:</u>	
		Single level switching	262726
		Fluorescent lighting	265100
		Illumination level: See Table 8600-5	
		1 duplex receptacle	262726
		<u>Communications:</u>	
		Central sound system	275123
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
		<u>Miscellaneous:</u>	
		N/A	

NOTES:

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



NOTES:

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

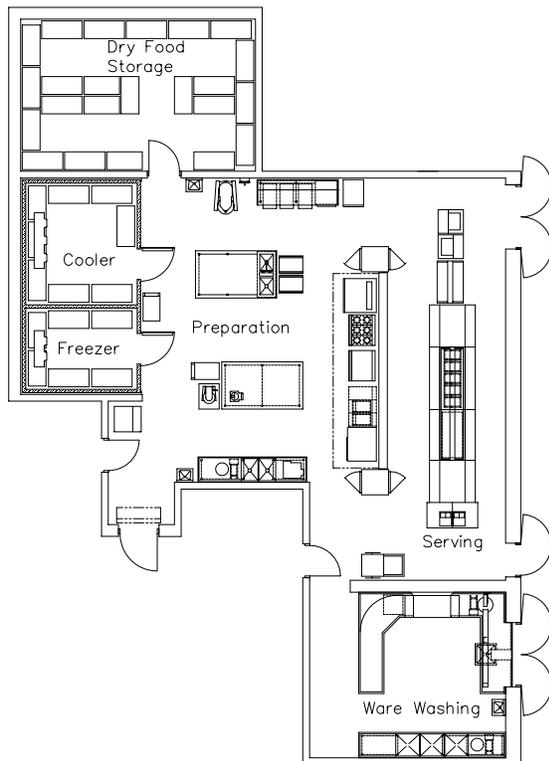
CT-FS-0	Warming Kitchen
CT-FS-1	Kitchen
CT-FS-1a	Preparation Area
CT-FS-1b	Serving Area
CT-FS-1c	Dry Food Storage
CT-FS-1d	Cooler/Freezer
CT-FS-1e	Ware Washing
CT-FS-2	Custodial Closet
CT-FS-3	Dietician Office
CT-FS-4	Restroom/Locker Room

**KITCHEN
CT-FS-1**
CHAPTER 6: CAREER-TECHNICAL SCHOOL

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.

**WARMING KITCHEN
CT-FS-0**

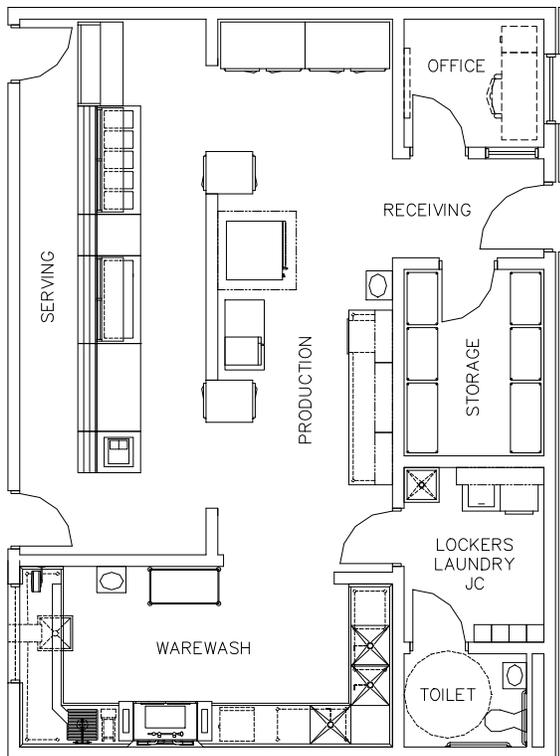
CHAPTER 6: CAREER-TECHNICAL SCHOOL

This space consists of various areas:

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

Additional areas to be added:

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



PROGRAM ACTIVITIES:

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

SPATIAL RELATIONSHIPS:

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

ENVIRONMENTAL CONSIDERATIONS:

- Compliance with State Board of Health requirements

MISCELLANEOUS:

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

CAPACITY: 3 - 7 persons

SIZE: Student capacity multiplied by 2.0 SF per student

ANCILLARY SPACES: Student Dining CT-SD-1
Loading/Receiving Area CT-GS-7

NOTES:

**WARMING KITCHEN
CT-FS-0**
CHAPTER 6: CAREER-TECHNICAL SCHOOL

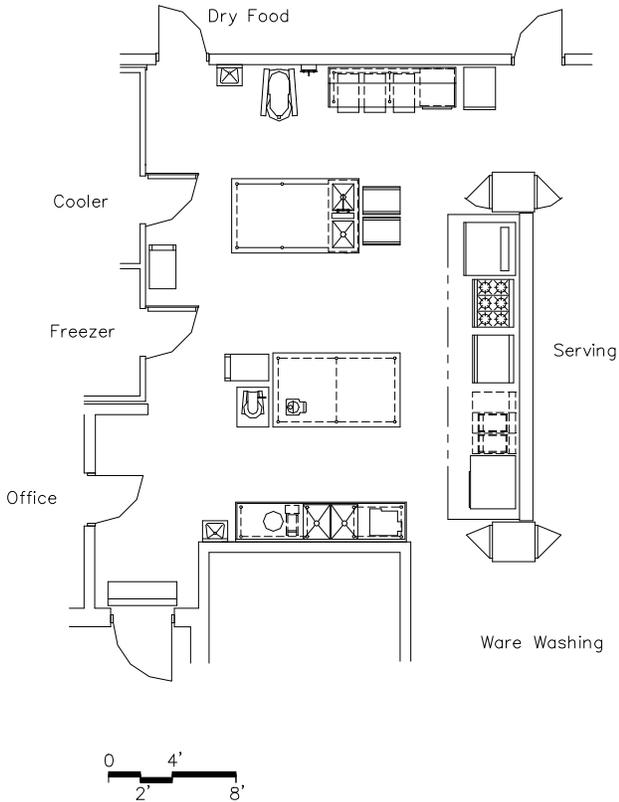
<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
<u>Flooring:</u>		<u>Fixed Items:</u>	
Quarry tile <i>or</i> resinous flooring	093000 096723	Food service equipment	114000
<u>Base:</u>		<u>Fire Suppression:</u>	
Quarry tile base <i>or</i> integral base	093000	Fire suppression system	211000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

NOTES:

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

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

CHAPTER 6: CAREER-TECHNICAL SCHOOL



PROGRAM ACTIVITIES:

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

SPATIAL RELATIONSHIPS:

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

ENVIRONMENTAL CONSIDERATIONS:

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

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

NOTES:

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

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

CHAPTER 6: CAREER-TECHNICAL SCHOOL

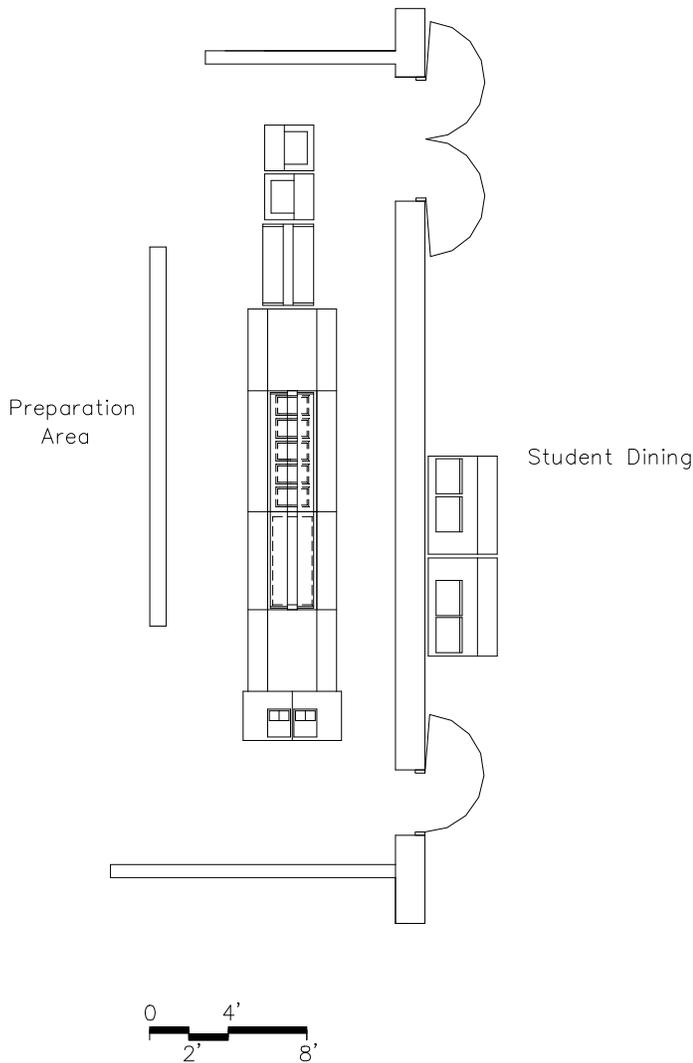
<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
Flooring:		<u>Fixed Items:</u>	
Quarry tile <i>or</i> resinous flooring	093000 096723	Food service equipment	114000
Base:		<u>Fire Suppression:</u>	
Quarry tile base <i>or</i> integral base	093000	Fire suppression system	211000
Ceiling:		<u>Plumbing: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

NOTES:

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

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

CHAPTER 6: CAREER-TECHNICAL SCHOOL



PROGRAM ACTIVITIES:

- Space for serving of food

SPATIAL RELATIONSHIPS:

- Adjacent to student dining
- Adjacent to preparation area

ENVIRONMENTAL CONSIDERATIONS:

- Cleanable building services

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

NOTES:

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

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

CHAPTER 6: CAREER-TECHNICAL SCHOOL

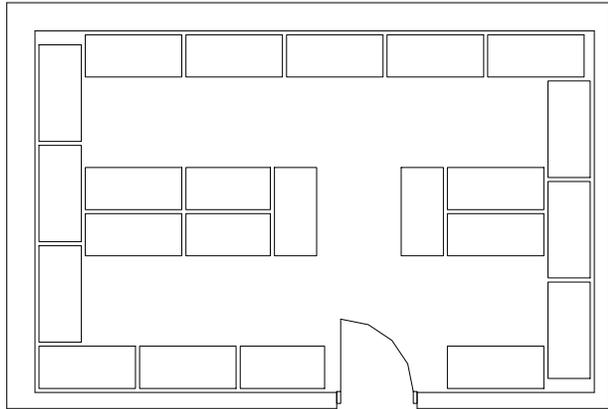
<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
Flooring:		Fixed Equipment:	
Quarry tile	093000	Food service equipment	114000
Optional: porcelain tile <i>or</i> <i>resinous flooring</i>	096723	<u>Fire Suppression:</u>	
Base:		Fire suppression system	211000
Quarry tile base	093000	<u>Plumbing: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

NOTES:

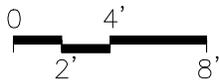
1. Finishes/Features: Refer to Chapter 9 for specification references and refer to Chapter 10 for a list of possible food service equipment.

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

CHAPTER 6: CAREER-TECHNICAL SCHOOL



Preparation Area



PROGRAM ACTIVITIES:

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

SPATIAL RELATIONSHIPS:

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

ENVIRONMENTAL CONSIDERATIONS:

- Continuous conditioning of air
- Cleanable building surfaces

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

NOTES:

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

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

CHAPTER 6: CAREER-TECHNICAL SCHOOL

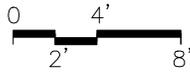
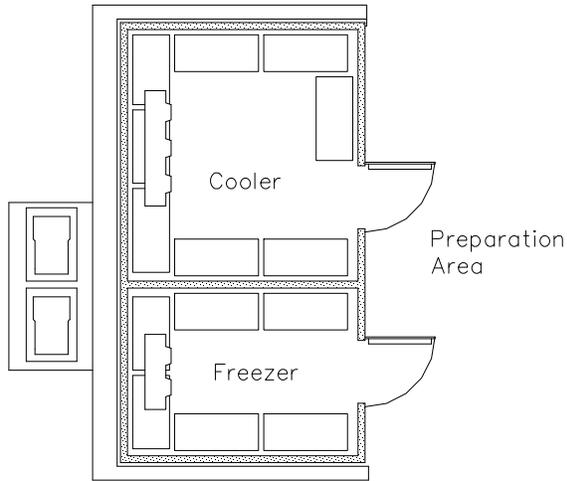
<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
<u>Flooring:</u>		<u>Fixed Items:</u>	
Linoleum, ET, or sheet vinyl	096500	Food service equipment	114000
Option: Quarry tile or resinous flooring	093000 096516 096723	<u>Fire Suppression:</u>	
		Fire suppression system	211000
<u>Base:</u>		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

NOTES:

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

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

CHAPTER 6: CAREER-TECHNICAL SCHOOL



PROGRAM ACTIVITIES:

- Space for refrigerated storage of perishable products

SPATIAL RELATIONSHIPS:

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

ENVIRONMENTAL CONSIDERATIONS:

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

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

NOTES:

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

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

CHAPTER 6: CAREER-TECHNICAL SCHOOL

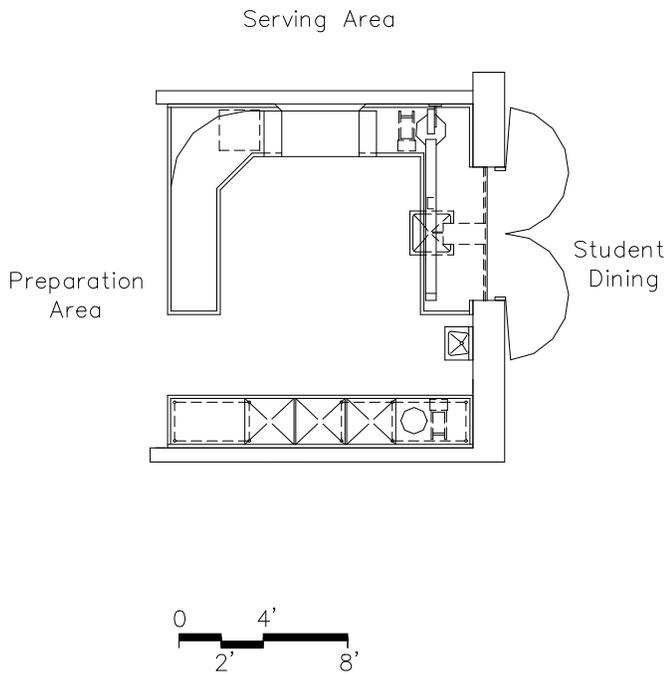
<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
Flooring:		<u>Fixed Items:</u>	
Quarry tile <i>or</i> resinous flooring	093000 096723	Food service equipment	114000
Base:		<u>Fire Suppression:</u>	
Quarry tile base <i>or</i> integral base	093000	Fire suppression system	211000
Ceiling:		<u>Plumbing: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

NOTES:

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

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

CHAPTER 6: CAREER-TECHNICAL SCHOOL



PROGRAM ACTIVITIES:

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

SPATIAL RELATIONSHIPS:

- Adjacent to student dining

ENVIRONMENTAL CONSIDERATIONS:

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

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

NOTES:

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

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

CHAPTER 6: CAREER-TECHNICAL SCHOOL

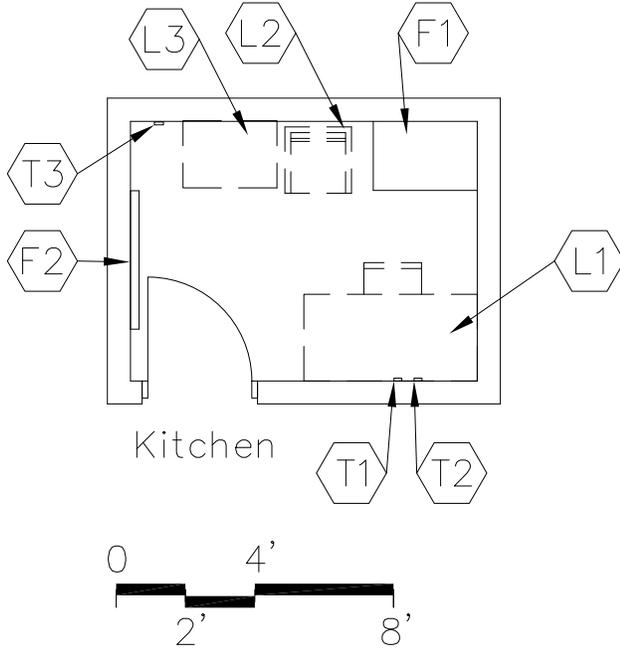
<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
<u>Flooring:</u>		<u>Fixed Items:</u>	
Quarry tile <i>or resinous flooring</i>	093000 096723	Food service equipment	114000
<u>Base:</u>		<u>Fire Suppression:</u>	
Quarry tile base <i>or integral base</i>	093000	Fire suppression system	211000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

NOTES:

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

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

CHAPTER 6: CAREER-TECHNICAL SCHOOL



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**
CHAPTER 6: CAREER-TECHNICAL SCHOOL

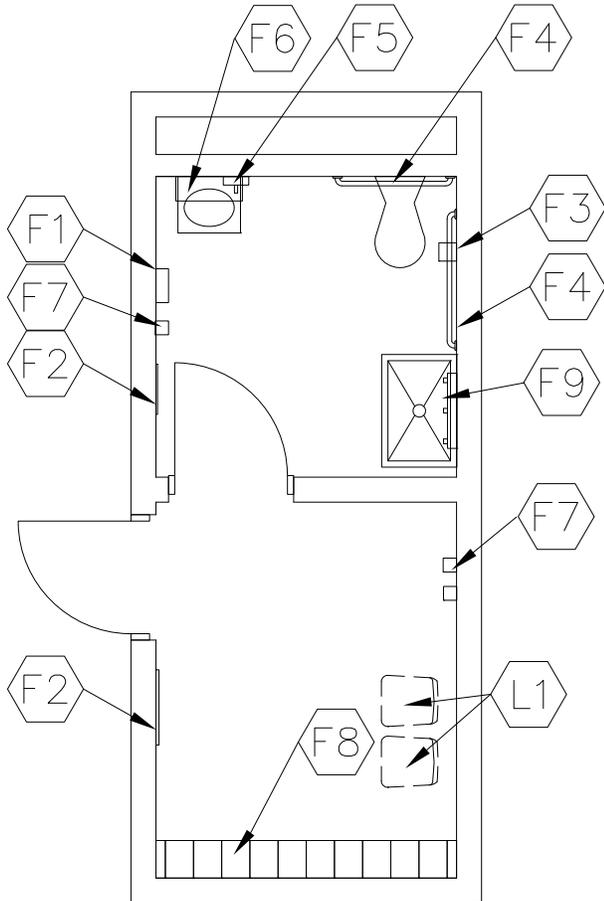
	Spec. Ref.#		Spec. Ref.#
<u>FINISHES¹:</u>		<u>FEATURES¹:</u>	
Flooring:		<u>Fixed Items:</u>	
Linoleum, ET, or sheet vinyl	096500	F1 Tall wardrobe (optional)	123550
	096516	F2 4' of tack board	101100
Option: Quarry tile, or resinous flooring	093000 096723	<u>Fire Suppression:</u>	
		Fire suppression system	211000
Base:		<u>Plumbing:</u>	
Resilient base	096500	N/A	
Option: Quarry tile	093000		
Ceiling:		<u>HVAC:</u>	
Suspended, acoustical	095113	Supply/return air system	Div. 23
		Independent temperature control (coupled with similarly loaded adjacent spaces)	230923
Walls:		<u>Electrical:</u>	
Painted concrete masonry units	042000/099100	Single level switching	262726
		Fluorescent lighting	265100
<u>LOOSE FURNISHINGS:</u>		Illumination level: See Table 8600-6	
L1 Desk and chair		4 duplex receptacles	262726
L2 Visitor chair		Double duplex receptacle adjacent to data and video port	262726
L3 File cabinet			
Wastebasket		<u>Communications:</u>	
		T1 1 voice port and phone	271513/ 273123
		T2 1 data port near workstation	271513
		T3 1 video port	271533/271543
		Central sound system	275123
		Clock	275313
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
		<u>Miscellaneous:</u>	
		Interior window (optional)	081113/088000

NOTES:

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

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

CHAPTER 6: CAREER-TECHNICAL SCHOOL



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**

CHAPTER 6: CAREER-TECHNICAL SCHOOL

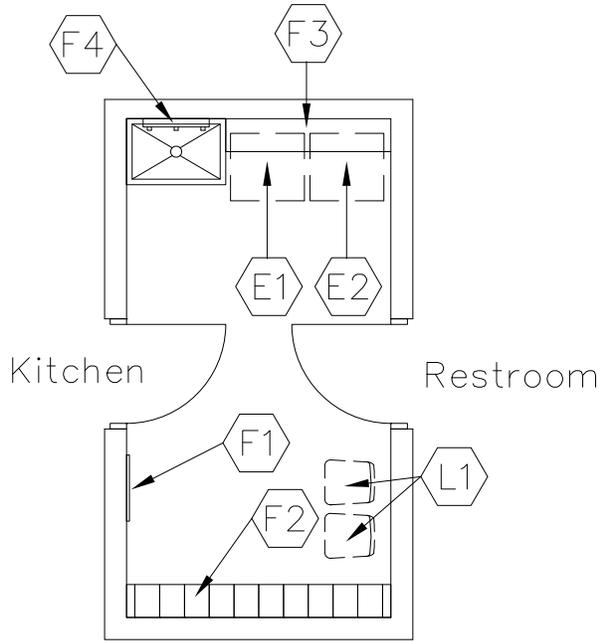
<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
<u>Flooring:</u>		<u>Fixed Items:</u>	
ET or sheet vinyl,	096516	F1 Towel dispenser	102813
	096500	F2 2, 24" x 60" mirrors	102813
Optional: quarry tile or resinous flooring	093000 096723	F3 Toilet tissue holder	102813
		F4 36" and 42" grab bar	102813
		F5 Soap dispenser	102813
<u>Base:</u>		F6 Mirror with shelf above sink(optional)	102813
Resilient base	096500	F7 Coat hooks	102813
Optional: quarry tile, integral vinyl cove base, or resinous flooring	093000 096723	F8 Lockers 12" x 12" x 60"	105113
		F9 Mop holder	102813
<u>Ceiling:</u>		<u>Fire Suppression:</u>	
Suspended, acoustical	095113	Fire suppression system	211000
<u>Walls:</u>		<u>Plumbing:</u>	
Painted concrete masonry units	042000/099100	Wall-mounted water closet	224000
		Wall-mounted lavatory	224000
		Floor service sink	224000
		Plumbing connections	224000/221116/221119
<u>LOOSE FURNISHINGS:</u>		<u>HVAC:</u>	
L1 Chairs		Exhaust air system	Div. 23
Wastebasket		Supplemental heat as required	Div. 23
		<u>Electrical:</u>	
		Single level switching	262726
		Fluorescent lighting	265100
		Illumination level: See Table 8600-6	
		2 duplex receptacles	262726
		<u>Communications:</u>	
		Central sound system	275123
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
		<u>Miscellaneous:</u>	
		N/A	

NOTES:

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

**LOCKER ROOM
CT-FS-4**

CHAPTER 6: CAREER-TECHNICAL SCHOOL



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

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

NOTES:

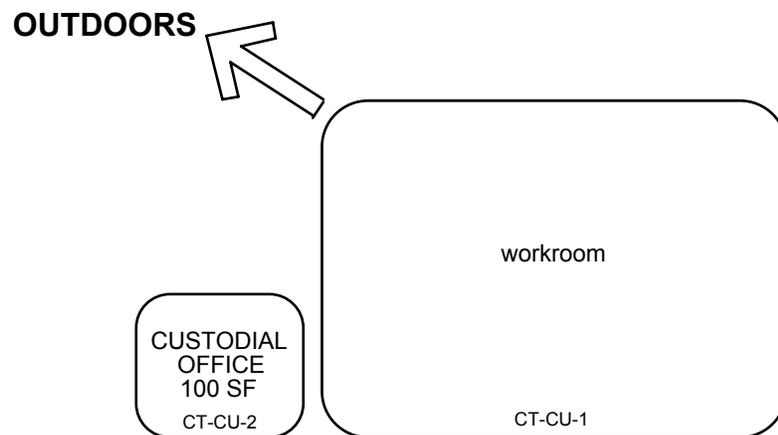
1. Loose furnishings shown represent one of many possible arrangements.

**LOCKER ROOM
CT-FS-4**
CHAPTER 6: CAREER-TECHNICAL SCHOOL

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

NOTES:

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



NOTES:

This is an example of how the custodial spaces in 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:

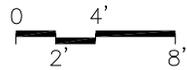
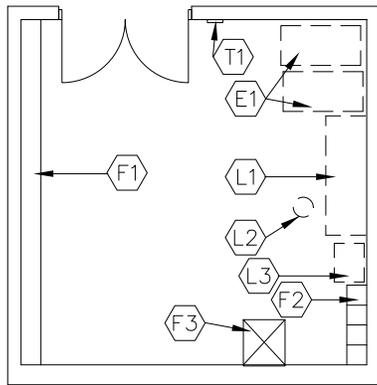
- CT-CU-1 Workroom
- CT-CU-2 Custodial Office

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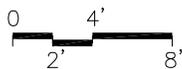
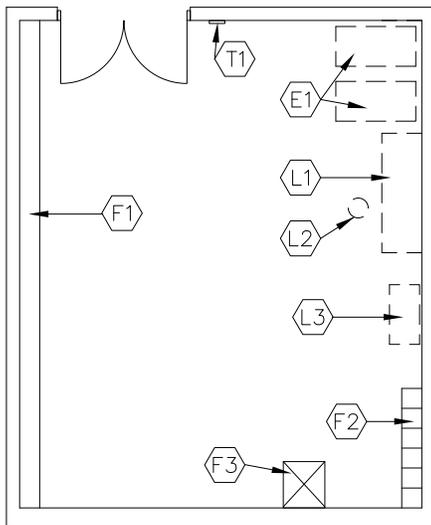
**WORKROOM
CT-CU-1**

CHAPTER 6: CAREER-TECHNICAL SCHOOL

200 SF



400 SF



CAPACITY:
SIZE:

N/A
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**
CHAPTER 6: CAREER-TECHNICAL SCHOOL

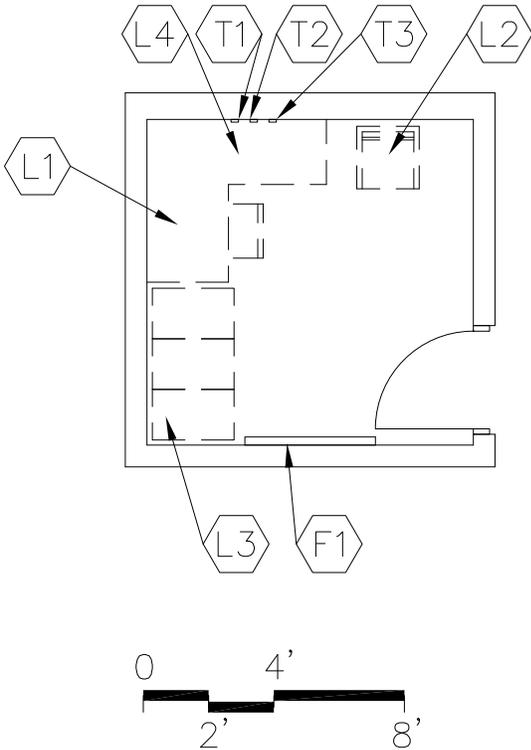
<u>FINISHES¹:</u>	Spec. <u>Ref.#</u>	<u>FEATURES¹:</u>	Spec. <u>Ref.#</u>
<u>Flooring:</u>		<u>Fixed Items²:</u>	
Polished concrete finishing,	033510	F1 10' - 24' of open shelving,	123550
colored concrete finishing, or	033519	depths can vary (fixed or loose)	
sealed concrete	093000	F2 4 - 6 lockers	105113
		F3 Mop holder	102813
<u>Base:</u>		<u>Fire Suppression:</u>	
Resilient base	096500	Fire suppression system	211000
<u>Ceiling:</u>		<u>Plumbing:</u>	
Suspended, acoustical	095113	Floor service sink	224000
<u>Walls:</u>		<u>HVAC:</u>	
Painted concrete masonry units	042000/099100	Supply/return air system	Div. 23
		Independent temperature control	230923
<u>LOOSE FURNISHINGS:</u>		<u>Electrical:</u>	
L1 Workbench		Fluorescent lighting	265100
L2 Stool		Illumination level: See Table 8600-6	
L3 Tool cabinet		Single level switching	262726
Waste receptacles		4 duplex receptacles (minimum)	262726
		Electrical receptacles for custodial equipment	262726
<u>EQUIPMENT:</u>		<u>Communications:</u>	
E1 Recycling bins		T1 1 voice port and phone	271513/ 273123
		Central sound system	275123
		Clock	275313
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
		<u>Miscellaneous:</u>	
		N/A	

NOTES:

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

**CUSTODIAL OFFICE
CT-CU-2**

CHAPTER 6: CAREER-TECHNICAL SCHOOL



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**
CHAPTER 6: CAREER-TECHNICAL SCHOOL

	Spec. Ref.#		Spec. Ref.#
<u>FINISHES¹:</u>		<u>FEATURES¹:</u>	
Flooring:		<u>Fixed Items:</u>	
Linoleum,	096500	F1 4' of tack board (optional)	101100
ET, sheet vinyl,	096516		
polished concrete finishing,	033510	<u>Fire Suppression:</u>	
colored concrete finishing, or	033519	Fire suppression system	211000
resinous flooring	096723		
Base:		<u>Plumbing:</u>	
Resilient base	096500	N/A	
Ceiling:		<u>HVAC:</u>	
Suspended, acoustical	095113	Supply/return air system	Div. 23
		Independent temperature control	230923
		(coupled with similarly loaded	
		adjacent spaces)	
Walls:		<u>Electrical:</u>	
Painted concrete masonry units	042000/099100	Single level switching	262726
		Fluorescent lighting	265100
		Illumination level: See Table 8600-6	
<u>LOOSE FURNISHINGS:</u>		4 duplex receptacles	262726
L1 Desk and chair		Double duplex receptacle adjacent to	
L2 Visitor chair		data and modem port	262726
L3 File cabinets			
L4 Computer desk return		<u>Communications:</u>	
Wastebasket		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
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
		<u>Miscellaneous:</u>	
		Interior window (optional)	081113/088000

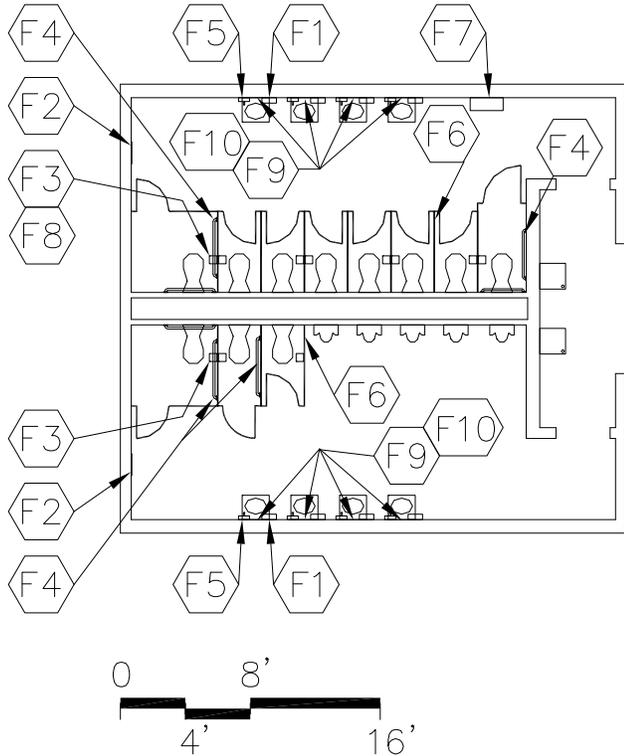
NOTES:

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

**LARGE GROUP RESTROOMS
CT-GS-1**

CHAPTER 6: CAREER-TECHNICAL SCHOOL

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**.

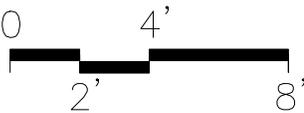
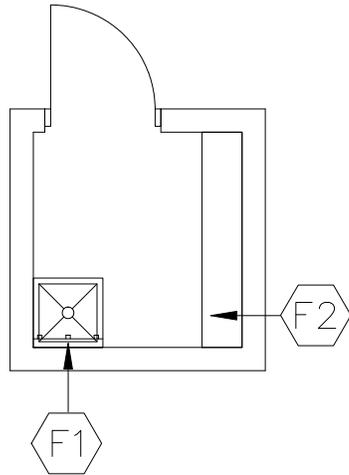
**LARGE GROUP RESTROOMS
CT-GS-1**

CHAPTER 6: CAREER-TECHNICAL SCHOOL

<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
<u>Flooring:</u>		<u>Fixed Items:</u>	
Ceramic mosaic tile	093000	F1 Towel dispensers	102813
Optional: porcelain tile, rubber, resinous flooring, or <i>unbacked sheet vinyl with welded seams</i>	093000 096723 096500	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
<u>Base:</u>		F7 Sanitary product dispenser	102813
Ceramic mosaic tile base	093000	F8 Sanitary product receptacles	102813
Optional: structural glazed tile, porcelain tile base, resinous flooring, or <i>integral tile base</i>	096616 093000 096723 096500	F9 16" x 24" mirrors with shelf (optional)	102813
		F10 Shelves (optional)	123550
<u>Ceiling:</u>		<u>Fire Suppression:</u>	
Suspended, acoustical	095113	Fire suppression system	211000
Option: Abuse resistant gypsum wallboard	092116	<u>Plumbing:</u>	
		Wall-mounted water closets	224000
<u>Walls:</u>		Wall-mounted urinals	224000
Painted concrete masonry unit	042000/099100	Wall-mounted lavatories or wash fountains	224000
		Wall hydrants	224000
		Plumbing connections	224000/221116/221119
		Floor drains	Div. 22
		Drinking water cooler	224000
<u>LOOSE FURNISHINGS:</u>		<u>HVAC:</u>	
Waste Receptacles		Exhaust air system	Div. 23
		Supplemental heat as required	Div. 23
		<u>Electrical:</u>	
		Single level switching	262726
		Fluorescent lighting	265100
		Illumination level: See Table 8600-5	
		1 duplex receptacle	262726
		Emergency lighting	265100
		<u>Communications:</u>	
		Central sound system	275123
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
		<u>Miscellaneous:</u>	
		N/A	

NOTES:

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



PROGRAM ACTIVITIES:

- Space for storage of custodial supplies throughout the building

SPATIAL RELATIONSHIPS:

- Near large group restrooms

ENVIRONMENTAL CONSIDERATIONS:

N/A

CAPACITY:
SIZE:

N/A
50 SF

NOTES:

**CUSTODIAL CLOSET
CT-GS-2**
CHAPTER 6: CAREER-TECHNICAL SCHOOL

<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
Flooring:		<u>Fixed Items:</u>	
Sealed concrete	033000	F1 Mop holder	102813
		F2 Fixed or loose shelving (optional)	123550
Base:		<u>Fire Suppression:</u>	
Resilient base	096500	Fire suppression system	211000
Ceiling:		<u>Plumbing:</u>	
Cleanable, suspended, acoustical	095113	Service sink or floor drain sink	224000
Walls:		Plumbing connections	224000/221116/221119
Painted concrete masonry units	042000/099100	<u>HVAC:</u>	
		Exhaust air system	Div. 23
<u>LOOSE FURNISHINGS:</u>		<u>Electrical:</u>	
Shelving (optional)		Single level switching	262726
		Fluorescent lighting	265100
		Illumination level: See Table 8600-5	
		1 duplex receptacle	262726
		<u>Communications:</u>	
		N/A	
		<u>Electronic Safety and Security:</u>	
		N/A	
		<u>Miscellaneous:</u>	
		N/A	

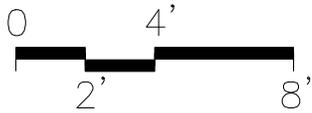
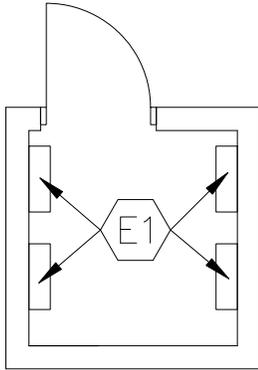
NOTES:

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

**ELECTRICAL CLOSET
CT-GS-3**

CHAPTER 6: CAREER-TECHNICAL SCHOOL

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



PROGRAM ACTIVITIES:

- Space for electrical wiring and panels

SPATIAL RELATIONSHIPS:

N/A

ENVIRONMENTAL CONSIDERATIONS:

N/A

**CAPACITY:
SIZE:**

N/A
50 SF

NOTES:

**ELECTRICAL CLOSET
CT-GS-3**

CHAPTER 6: CAREER-TECHNICAL SCHOOL

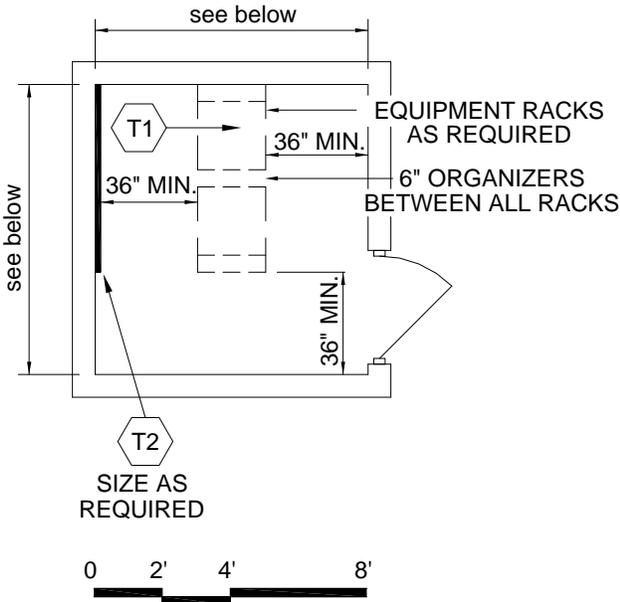
<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
Flooring: Sealed concrete	033000	<u>Fixed Items:</u> N/A	
Base: No base		<u>Fire Suppression:</u> Fire suppression system	211000
Ceiling: Exposed structure	---	<u>Plumbing:</u> N/A	
Walls: Unpainted concrete masonry units	042000	<u>HVAC:</u>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

NOTES:

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

**TELECOMMUNICATIONS ROOM
CT-GS-4**

CHAPTER 6: CAREER-TECHNICAL SCHOOL



PROGRAM ACTIVITIES:

- Space for technology needs

SPATIAL RELATIONSHIPS:

N/A

ENVIRONMENTAL CONSIDERATIONS:

N/A

CAPACITY:

N/A

SIZE:

TR Serving Zone > 188 ports:

minimum 10 ft. x 12 ft.

TR Serving Zone of 96-188 ports:

minimum 8 ft. x 10 ft.

TR Serving Zone of < 96 ports:

minimum 8 ft. x 8 ft.

NOTES:

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

**TELECOMMUNICATIONS ROOM
CT-GS-4**
CHAPTER 6: CAREER-TECHNICAL SCHOOL

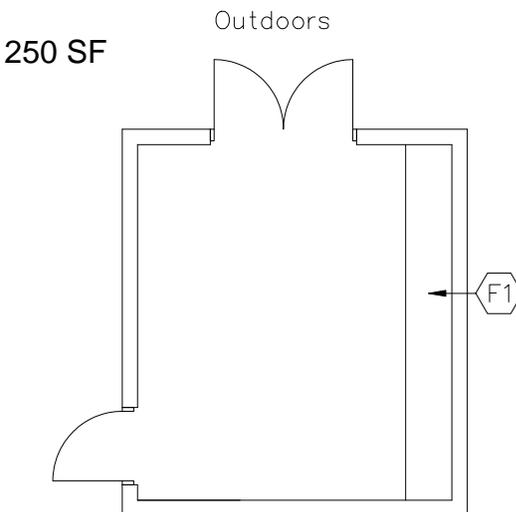
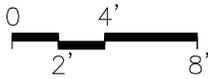
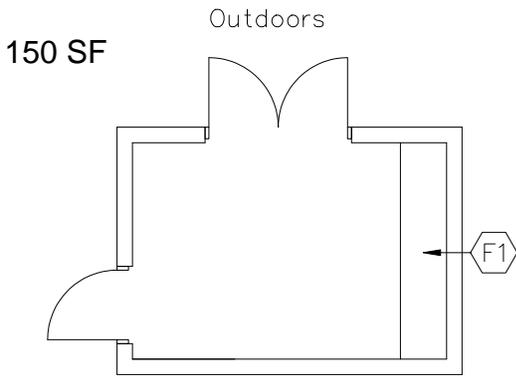
<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
Flooring:		<u>Fixed Items:</u>	
Sealed concrete,	033000	N/A	
polished concrete finishing, or	033510		
colored concrete finishing	033519	<u>Fire Suppression:</u>	
Base:		Fire suppression system	211000
No base		<u>Plumbing:</u>	
Ceiling:		N/A	
Exposed structure	---	<u>HVAC:</u>	
Walls:		Cooling and Exhaust air system	Div. 23
Unpainted concrete masonry units	042000	<u>Electrical:</u>	
<u>LOOSE FURNISHINGS</u>		Single level switching	262726
N/A		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
		<u>Communications:</u>	
		T1 Technology equipment	
		Central sound system	275123
		Telephone Wiring	271313/271513
		Integrated Telephone System	273123
		Video Wiring	271333/271533/271543
		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
		<u>Electronic Safety and Security:</u>	
		Security System	281300/281600/282300
		<u>Miscellaneous:</u>	
		N/A	

NOTES:

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

**STORAGE AREA
CT-GS-5**

CHAPTER 6: CAREER-TECHNICAL SCHOOL



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**
CHAPTER 6: CAREER-TECHNICAL SCHOOL

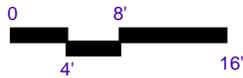
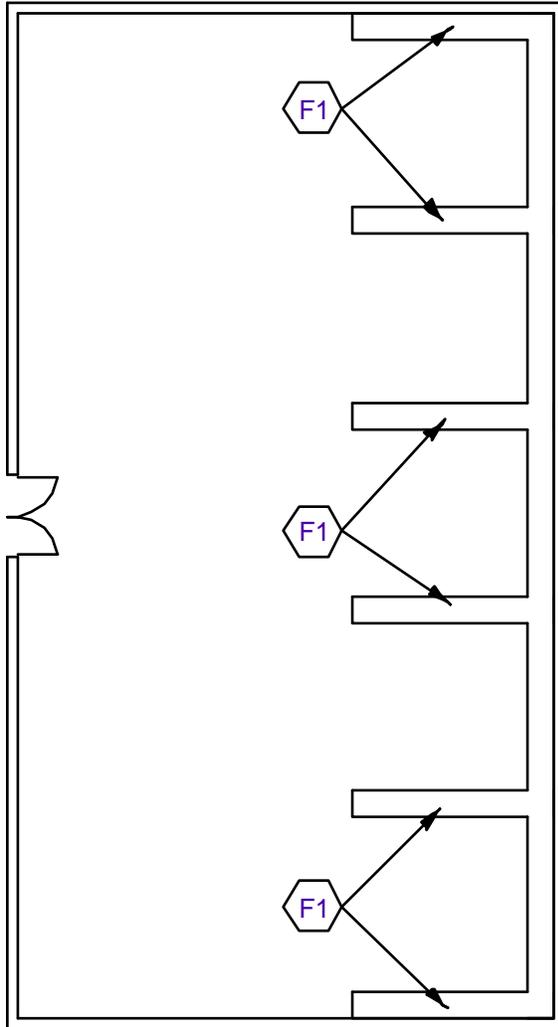
<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
Flooring:		<u>Fixed Items²:</u>	
Sealed concrete	033000	F1 8'-20' of open shelving , depths may vary (fixed or loose)	123550
Base:		<u>Fire Suppression:</u>	
No base		Fire suppression system	211000
Ceiling:		<u>Plumbing:</u>	
Exposed structure	---	N/A	
Walls:		<u>HVAC:</u>	
Unpainted concrete masonry units	042000	Exhaust air system	Div. 23
<u>LOOSE FURNISHINGS</u>		Supplemental heat as required	Div. 23
N/A		<u>Electrical:</u>	
		Single level switching	262726
		Fluorescent lighting	265100
		Illumination level: See Table 8600-6	
		Duplex receptacles	262726
		<u>Communications:</u>	
		N/A	
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
		<u>Miscellaneous:</u>	
		N/A	

NOTES:

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

**CENTRAL STORAGE / DISTRIBUTION CENTER
CT-GS-6**

CHAPTER 6: CAREER-TECHNICAL SCHOOL



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**
CHAPTER 6: CAREER-TECHNICAL SCHOOL

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

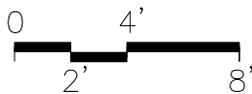
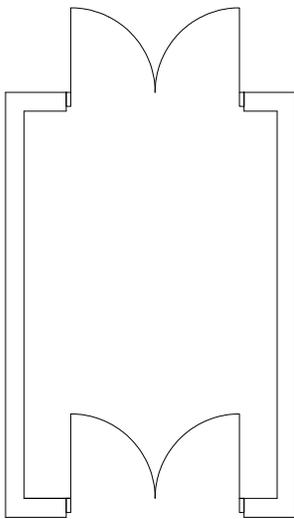
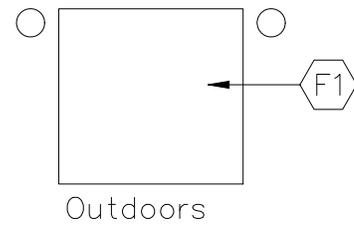
NOTES:

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

**LOADING/RECEIVING AREA
CT-GS-7**

CHAPTER 6: CAREER-TECHNICAL SCHOOL

Recycling space to be determined by Design Professional.



CAPACITY:
SIZE:

N/A
120 SF

PROGRAM ACTIVITIES:

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

SPATIAL RELATIONSHIPS:

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

ENVIRONMENTAL CONSIDERATIONS:

N/A

MISCELLANEOUS:

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

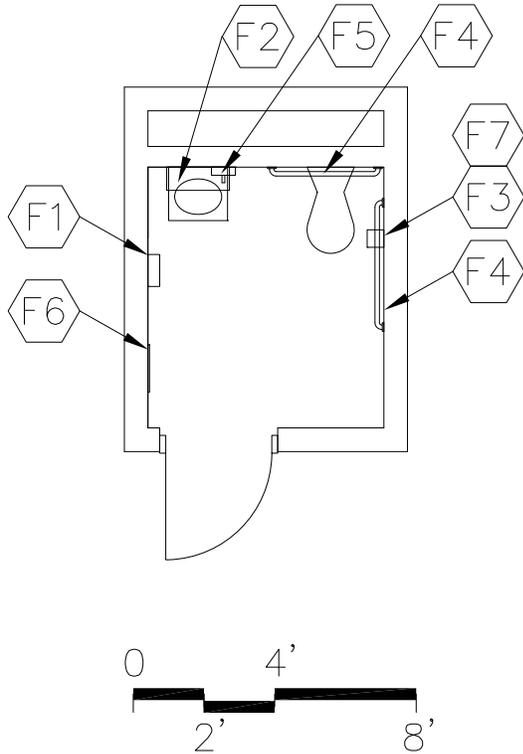
NOTES:

**LOADING/RECEIVING AREA
CT-GS-7**
CHAPTER 6: CAREER-TECHNICAL SCHOOL

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

NOTES:

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



PROGRAM ACTIVITIES:

- Personal and health needs for the building occupants

SPATIAL RELATIONSHIPS:

- Near academic area

ENVIRONMENTAL CONSIDERATIONS:

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

CAPACITY: 1 person
 SIZE: 60 SF
 ANCILLARY SPACES:

NOTES:

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

**RESTROOM
CT-GS-8**

CHAPTER 6: CAREER-TECHNICAL SCHOOL

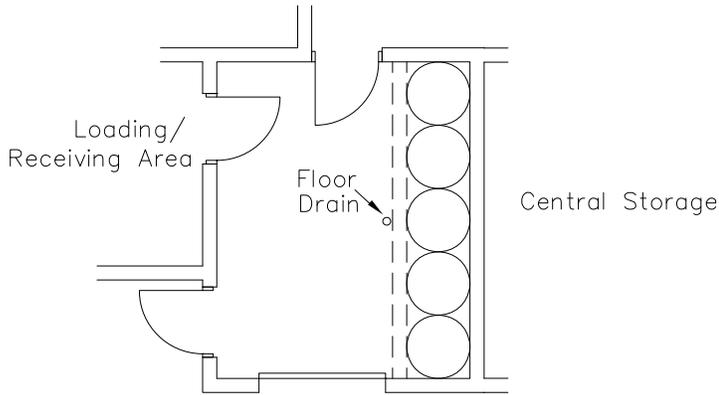
<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
<u>Flooring:</u>		<u>Fixed Items:</u>	
ET or sheet vinyl	096516	F1 Towel dispenser	102813
	096500	F2 Mirror with shelf above sink(optional)	102813
Optional: quarry tile, or	093000	F3 Toilet tissue holder	102813
resinous flooring	096723	F4 36" and 42" grab bar	102813
		F5 Soap dispenser	102813
<u>Base:</u>		F6 Sanitary product dispenser	102813
Resilient base	096500	F7 Sanitary product receptacle	102813
Optional: quarry tile, resinous	093000		
flooring, or integral vinyl cove base	096723	<u>Fire Suppression:</u>	
		Fire suppression system	211000
<u>Ceiling:</u>		<u>Plumbing:</u>	
Suspended, acoustical	095113	Wall-mounted water closet	224000
		Wall-mounted lavatory	224000
<u>Walls:</u>		Plumbing connections	224000/221116/221119
Painted concrete masonry units	042000/099100		
<u>LOOSE FURNISHINGS:</u>		<u>HVAC:</u>	
Wastebasket		Exhaust air system	Div. 23
		Supplemental heat as required	Div. 23
		<u>Electrical:</u>	
		Single level switching	262726
		Fluorescent lighting	265100
		Illumination level: See Table 8600-5	
		1 duplex receptacle	262726
		<u>Communications:</u>	
		Central sound system	275123
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
		<u>Miscellaneous:</u>	
		N/A	

NOTES:

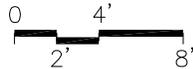
1. Finishes/Features: Refer to Chapter 9 for specification references.
2. F6 and F7 required for female restroom only.

**RECYCLING ROOM
CT-GS-9**

CHAPTER 6: CAREER-TECHNICAL SCHOOL



Direct access to loading dock, if possible



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

CHAPTER 6: CAREER-TECHNICAL SCHOOL

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

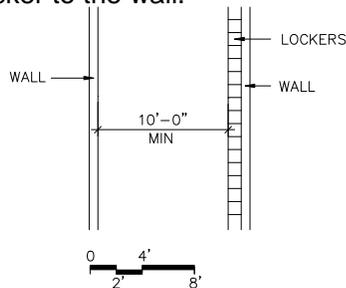
NOTES:

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

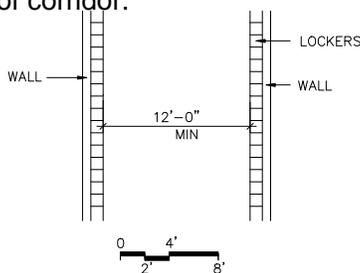
**CORRIDORS
CT-BS-1**

CHAPTER 6: CAREER-TECHNICAL SCHOOL

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



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



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

CAPACITY: Based on size of program area
 SIZE: 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**
CHAPTER 6: CAREER-TECHNICAL SCHOOL

<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
<u>Flooring²:</u>		<u>Fixed Items:</u>	
Linoleum, ET, sheet vinyl,	096516	Corridor lockers	105113
Carpet, carpet tile , rubber,	096500	Fire extinguishers and cabinets	104400
polished concrete finishing,	096816	Recessed vinyl floor mats or	
or colored concrete finishing	096813	surface mats	124813
	033510	Tack board or tackable wall surface	101100
	033519		
<u>Base:</u>		<u>Fire Suppression:</u>	
Resilient base	096500	N/A	
Optional: structural glazed tile	042000	<u>Plumbing:</u>	
<u>Ceiling:</u>		Drinking water coolers	224000
Suspended, acoustical	095113	<u>HVAC:</u>	
Option in vestibules: Abuse resistant		Supply/return air system	Div. 23
gypsum wallboard	092113	Temperature control from	
<u>Walls:</u>		adjacent instructional spaces	230923
Painted concrete masonry units		<u>Electrical:</u>	
	042000/099100	Dual level switching	262726
<u>LOOSE FURNISHINGS:</u>		Fluorescent lighting	265100
Recycling bins and waste receptacles		illumination level: See Table 8600-6	
Fixed or loose benches		Duplex receptacles	262726
		Double duplex receptacle adjacent to	
		each video port	262726
		Means of egress lighting per code	265100
		Emergency lighting	265100
<u>NOTE: At entries adjacent to dining/ commons area, match dining/commons flooring.</u>		<u>Communications:</u>	
		Video ports	271533/271543
		Data ports	271523
		Pay phone terminals	271513/273113
		Central sound system	275123
		Clocks	275313
		Wireless access points	
			271523/272100/272133
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
		Security System	281300/281600/282300
		<u>Miscellaneous:</u>	
		Display cases and Directory	

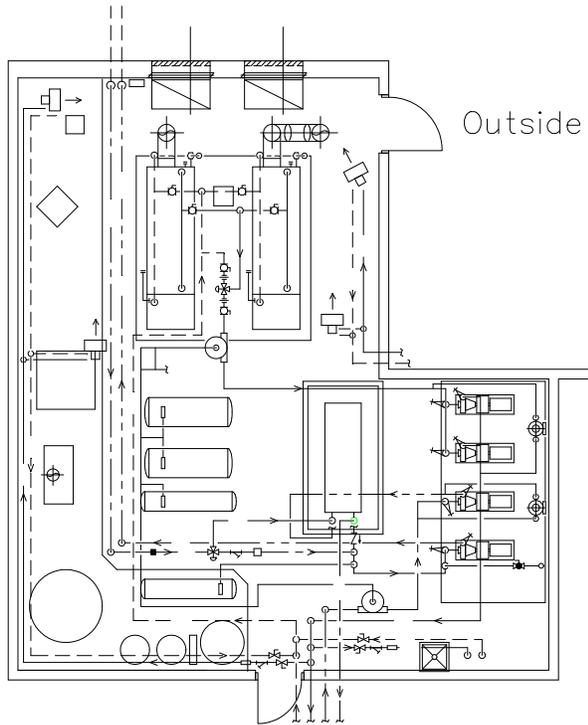
NOTES:

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.

MECHANICAL/ELECTRICAL SPACE/DECKS
CT-BS-2

CHAPTER 6: CAREER-TECHNICAL SCHOOL

**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

CHAPTER 6: CAREER-TECHNICAL SCHOOL

<u>FINISHES¹:</u>	Spec. Ref.#	<u>FEATURES¹:</u>	Spec. Ref.#
Flooring:		<u>Fixed Items:</u>	
Sealed concrete	033000	To be determined by Design Professional	
Base:		<u>Fire Suppression:</u>	
No base		To be determined by Design Professional	
Ceiling:		<u>Plumbing:</u>	
Exposed structure	---	To be determined by Design Professional	
Walls: (note 2)		<u>HVAC:</u>	
Unpainted concrete masonry units	042000	To be determined by Design Professional	
<u>LOOSE FURNISHINGS:</u>		<u>Electrical:</u>	
N/A		Single level switching	262726
		Fluorescent lighting	265100
		Illumination level: See Table 8600-6	
		Others as determined by Design Professional	
		<u>Communications:</u>	
		Central sound system	275123
		Voice port and phone	271513/ 273123
		<u>Electronic Safety and Security:</u>	
		To be determined by Design Professional	
		<u>Miscellaneous:</u>	
		N/A	

NOTES:

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