

**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.

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**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.

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

**TECHNOLOGY**

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

**OPTIONS**

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

**LIGHTING**

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

**ELECTRICAL**

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

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### DESIGN CONSIDERATIONS

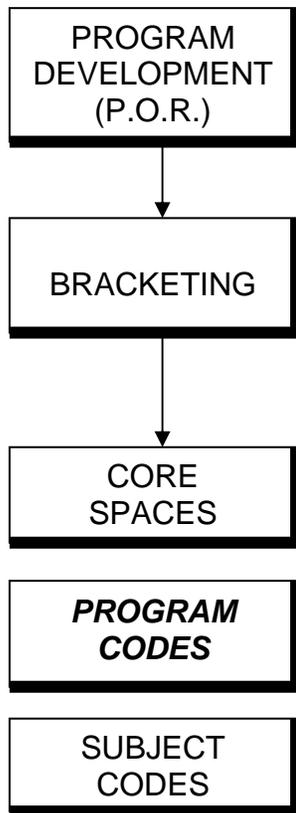
In order to accommodate school districts in meeting the unique requirements of it's Career-Technical students, the OSFC has provided spaces that accommodate instructional and support activities. The layout and organization of those spaces is critical to the educational success of the school. Therefore,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

#### **Educational**

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

#### **Layout and Organization**

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



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

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

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

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

***Once the architect knows which Subject Code or CTE Program Code will be in the building program, these codes can be found in the index. An index of all Subject Codes, Program Type, CTE Program Code, and Program Name follows these instructions. As an example, the program name, "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 program 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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## CHAPTER 6: CAREER-TECHNICAL SCHOOL

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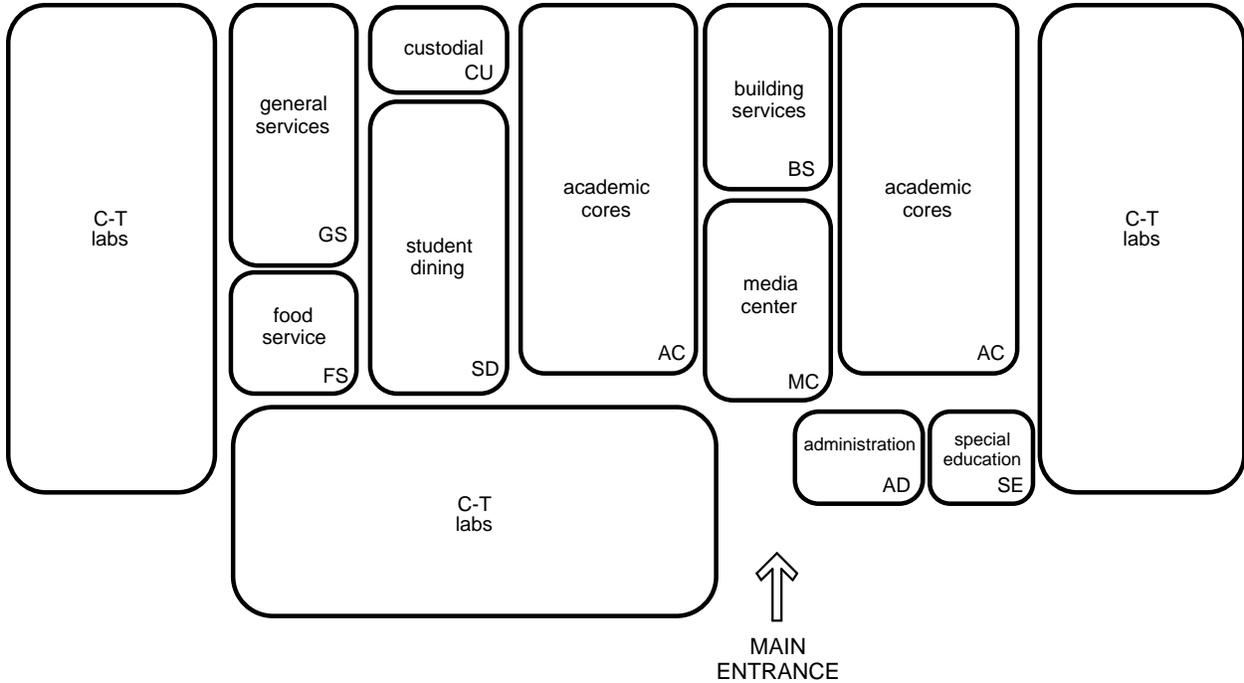
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## INDEX BY PROGRAM TYPE

## CHAPTER 6: CAREER-TECHNICAL SCHOOL

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17.2302	6	R5	Precision Machining	6312-33
17.0301	6	T1	Auto Collision Repair	6316-10
17.0302	6	T3	Auto Technology	6316-12
17.1200	6	T7	Medium/Heavy Truck Technician	6316-29
01.0901	7	A2	Animal Science and Management (Equine)	6317-11
17.0401	7	T0	Aircraft Maintenance	6317-7

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NOTES:

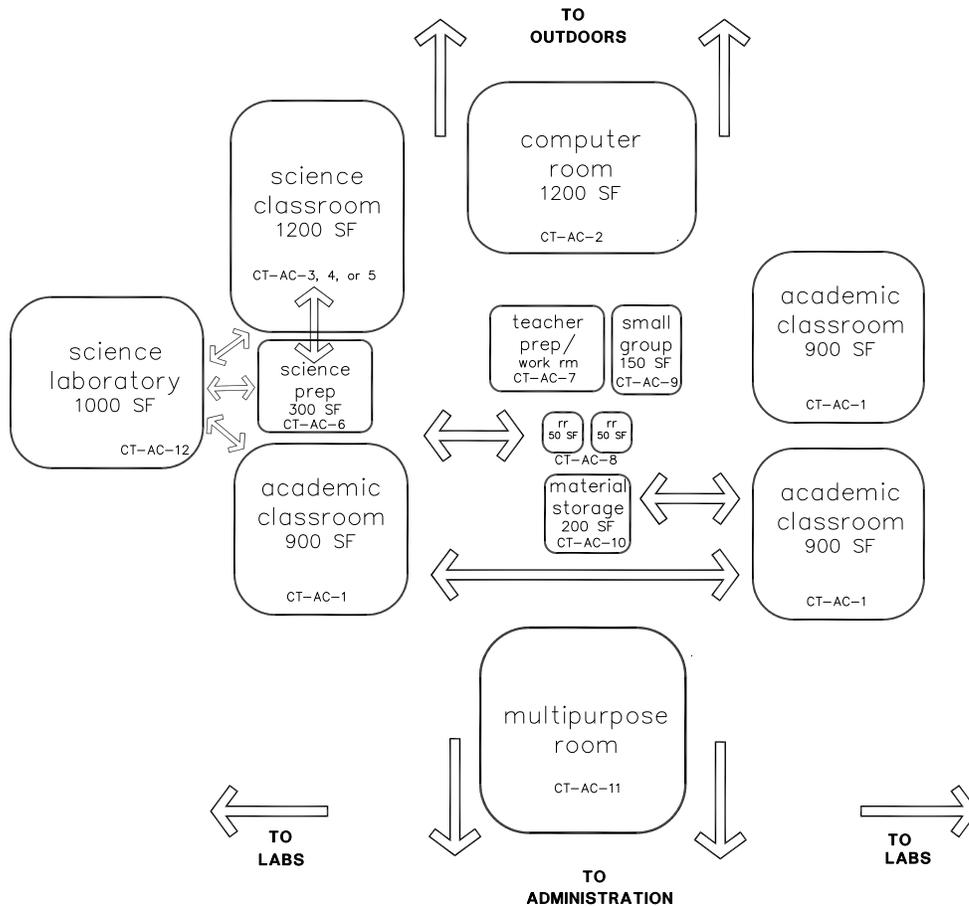
This is an example of how the spaces in a career-technical school could be arranged. This is meant only to demonstrate the relationships between various spaces of this area.

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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.

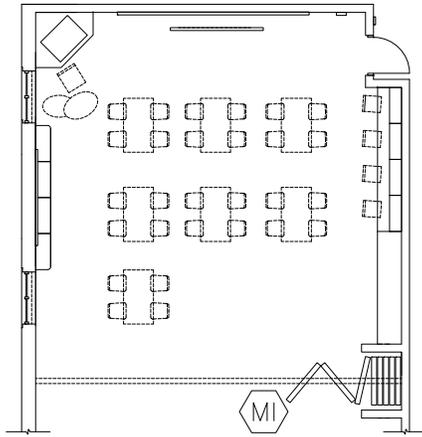
Following are the Academic core space:

- 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**

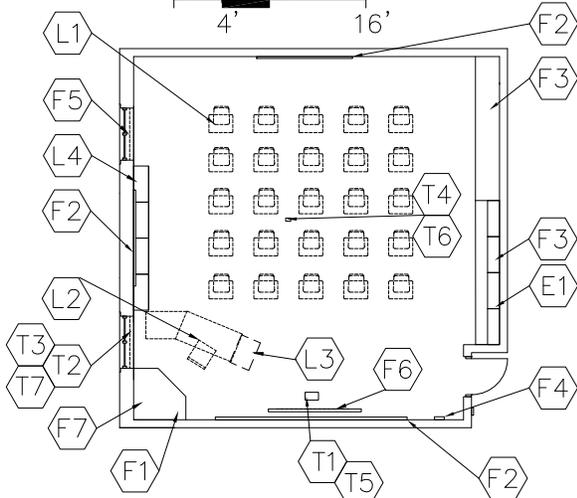
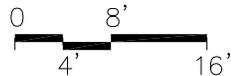
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**ACADEMIC CLASSROOM  
CT-AC-1**

**CHAPTER 6: CAREER-TECHNICAL SCHOOL**



CLASSROOM WITH OPTIONAL FOLDING WALL



TYPICAL CLASSROOM

**CAPACITY:**  
**SIZE:**

**25 students**  
**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**

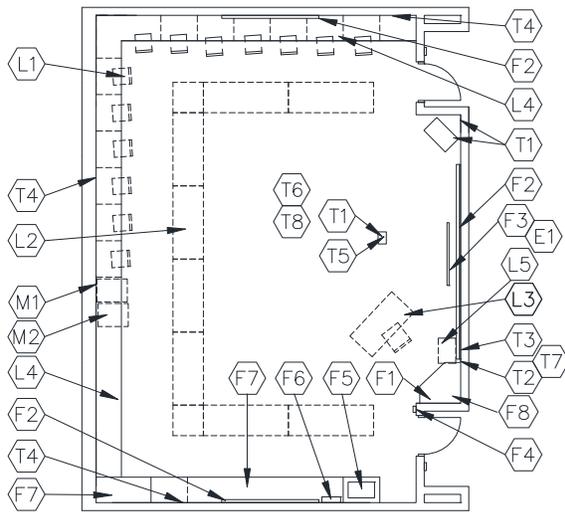
<u>FINISHES<sup>1</sup>:</u>	Spec. Ref.#	<u>FEATURES<sup>1</sup>:</u>	Spec. Ref.#
<u>Flooring:</u>			
Carpet, carpet tile	096816	<b>F1</b> Tall wardrobe with file drawers	123550
Optional: ET, sheet vinyl, linoleum, or rubber	096516 096500 096813	<b>F2</b> 20'-32' combination marker board, tack board and tackable wall surface	101100
		<b>F3</b> 18'-24' combination base and wall cabinets	123550
<u>Base:</u>		<b>F4</b> Pencil sharpener support (optional)	062000
Resilient base	096500	<b>F5</b> Windows with integral blinds	085113
		<b>F6</b> Projection screen (optional)	115213
<u>Ceiling:</u>		<b>F7</b> Technology support casework	123550
Suspended, acoustical	095113	<u>Fire Suppression:</u>	
		Fire suppression system	211000
<u>Walls:</u>		<u>Plumbing:</u> N/A	
Painted concrete masonry units	042000/099100	<u>HVAC:</u>	
<u>LOOSE FURNISHINGS:</u>			
L1 Student desks and chairs		Supply/return air system	Div. 23
L2 Teacher desk or workstation/computer support and chair		Independent temperature control	230923
L3 File cabinet		<u>Electrical:</u>	
L4 9' of low bookcases (fixed or mobile) Wastebasket		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 <b>projector</b> video port	271543
		T2 1 voice port and phone	271513/273123
		T3 1 data port near teacher workstation	271513
		T4 <b>Wireless access point cable above ceiling</b>	271513
		Clock	275313
		Central sound system	275123
		Sound reinforcement system	275127
		T5 <b>Ultra-short throw interactive</b> projector	274119
		T6 <b>Wireless access point (WAP) as determined by design – refer to Note 4</b>	272133
		T7 <b>Classroom technology center videoport</b>	271543, 274116, 274119, 275127
<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		
<b>Duplex receptacle with dedicated circuit for wireless devices</b>			

**NOTES:**

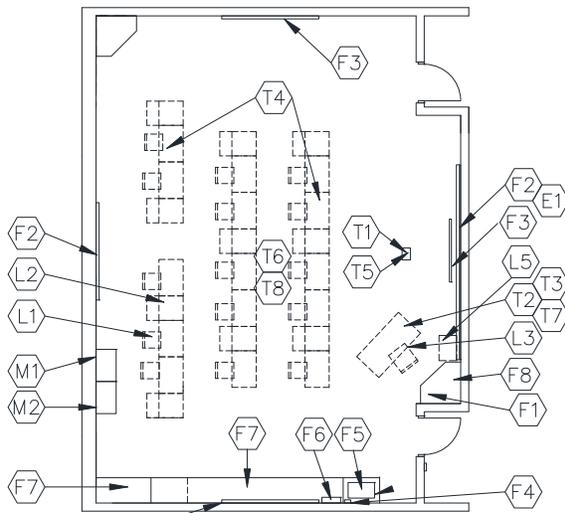
1. Finishes/Features: Refer to Chapter 9 for specification references.
2. Technology components may be placed in a separate small cabinet, or integrated in the other casework in the room.
3. Where appropriate, some casework may be mobile to add flexibility and become part of the loose furnishings.
4.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

**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**

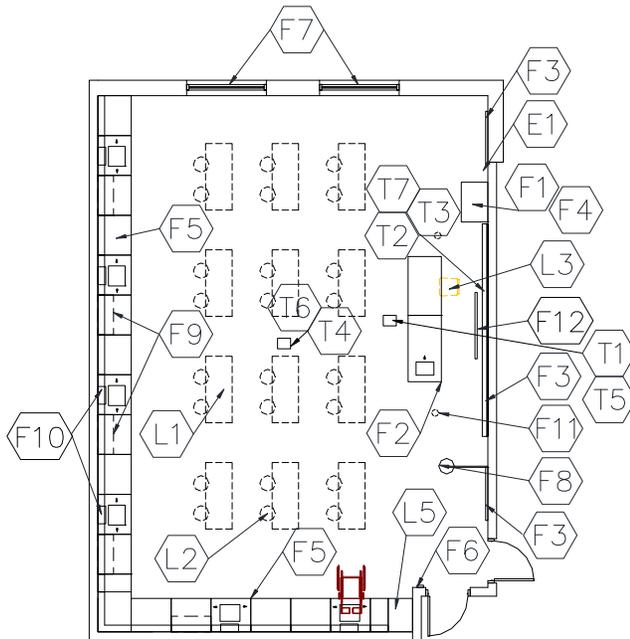
<u>FINISHES<sup>1</sup>:</u>	Spec. Ref.#	<u>FEATURES<sup>1</sup>:</u>	Spec. Ref.#
<u>Flooring:</u>		<u>Fixed Items:</u>	
Carpet, carpet tile	096816	F1 Tall wardrobe with file drawers	123550
Optional: ET, sheet vinyl, linoleum, or rubber	096500 096516 096813	F2 16'-32' combination marker board tack board & tackable wall surface	101100
<u>Base:</u>		F3 Projection screen (optional)	115213
Resilient base	096500	F4 Pencil sharpener support (optional)	062000
<u>Ceiling:</u>		F5 3' sink base cabinet (optional)	123550
Suspended, acoustical	095113	F6 Towel dispenser (optional)	102813
<u>Walls:</u>		F7 9'-20' combination base and tall cabinets	123550
<b>Paint</b>		F8 Technology support casework	123550
099100		<u>Fire Suppression:</u>	
<u>LOOSE FURNISHINGS:</u>		Fire suppression system	211000
L1 Student chairs		<u>Plumbing:</u>	
L2 Work tables		N/A	
L3 Teacher desk or workstation/computer support and chair		<u>HVAC:</u>	
L4 Computer workstation furniture		Supply/return air system	Div. 23
L5 File cabinet		Independent temperature control	230923
Wastebasket		<u>Electrical:</u>	
L4 could be fixed casework.		Fluorescent lighting: Parabolic lenses	265100
		Illumination level: See Table 8600-5	
		Multilevel switching	262726
		4 duplex receptacles	262726
		Double duplex receptacle adjacent to each data and video port	262726
		<u>Communications:</u>	
		T1 1 projector video port	271543
		T2 1 voice port and phone	271513/273123
		T3 1 data port near teacher workstation	271513
		<b>T4</b> Classroom area network	271513
		Clock	275313
		Central sound system	275123
		Sound reinforcement system	275127
		T5 Ultra-short throw interactive projector	274119
		T6 Wireless access point (WAP) as determined by Design – refer to Note 3	272133
		T7 Classroom technology center video port	271543, 274116, 274119, 275127
		T8 Wireless access point cable above ceiling	271513
<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			
E1 Duplex receptacle with dedicated circuit for wireless devices			

**NOTES:**

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

**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:**

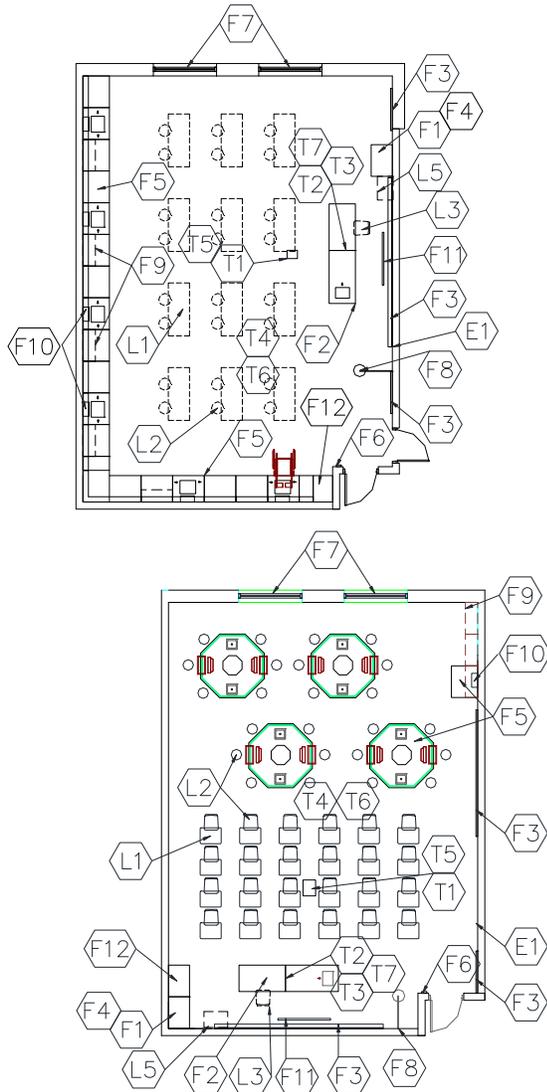
1. Loose furnishings shown represent one of many possible arrangements.
2. Science casework layout to be determined by the school district.
3. Depending upon the educational program of the district, a tall wardrobe may be placed in this classroom or could be placed in a teacher prep area/workroom.
4. 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>FINISHES<sup>1</sup>:</u>	Spec. Ref.#	<u>FEATURES<sup>1</sup>:</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 marker board,	101100
or colored concrete finishing	033519	tack board and tackable wall surface	
<u>Base:</u>		F4 Technology support casework	123553
Resilient base	096500	F5 40'-60' of lab casework with sinks	123553
<u>Ceiling:</u>		F6 Pencil sharpener support (optional)	062000
Suspended, acoustical	095113	F7 Windows with integral blinds	085113
<u>Walls:</u>		F8 Emergency shower/eyewash	224000
<b>Paint</b>		F9 18'-24' of wall cabinets	123553
099100		F10 Towel dispensers (optional)	102813
<u>LOOSE FURNISHINGS:</u>		F11 2 eye hooks for demonstrations(optional)	055000
L1 Student work tables		F12 Projection screen (optional)	115213
L2 Student stools/chairs		<u>Fire Suppression:</u>	
L3 Teacher chair or stool		Fire suppression system	211000
<b>L4 Reserved</b>		<u>Plumbing:</u>	
L5 File cabinet		Plumbing connections	
Wastebasket		224000/221116/221119	
		Emergency shower/eyewash	224000
		connections	226313
		Gas connections (optional)	226313
		Master shutoff for gas	221500
		Compressed air connections(optional)	
		<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 projector video port	271543
		T2 1 voice port and phone	271513/273123
		T3 1 data port at demonstration table	271513
		T4 Wireless access point cable above ceiling	271513
		Clock	275313
		Central sound system	275123
		Sound reinforcement system	275127
		T5 Ultra-short throw interactive projector	274119
		T6 Wireless access point (WAP) as determined	
		by design – refer to Note 4	272133
		T7 Classroom technology center videoport	271543, 274116, 274119, 275127

**NOTES:**

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

**CHAPTER 6: CAREER-TECHNICAL SCHOOL**

<b>CAPACITY:</b>	24 - 28 students
<b>SIZE:</b>	1,200 SF
<b>ANCILLARY SPACES:</b>	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**

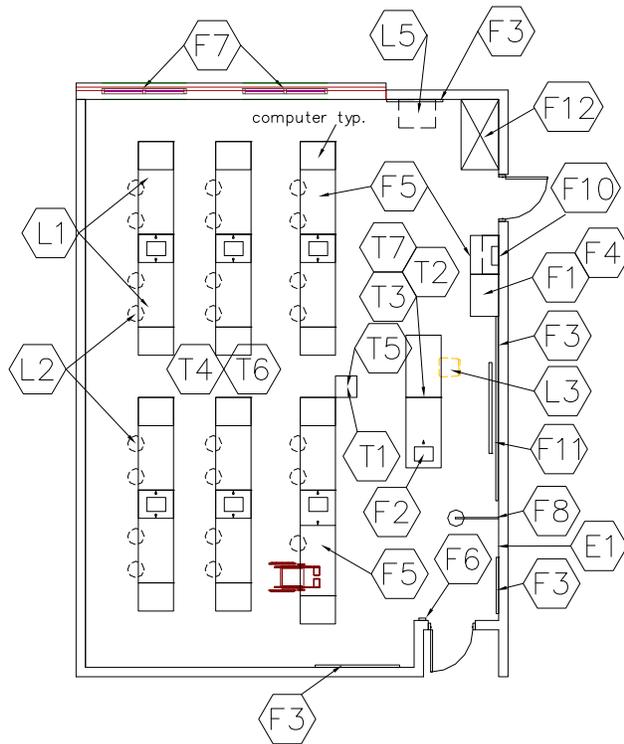
<u>FINISHES<sup>1</sup>:</u>	Spec. Ref.#	<u>FEATURES<sup>1</sup>:</u>	Spec. Ref.#
<u>Flooring:</u>		<u>Fixed Items:</u>	
Linoleum,	096500	F1 Tall wardrobe with file drawers	123553
Rubber, ET, sheet vinyl,	096516	F2 Demonstration table/teacher desk	123553
polished concrete finishing, or	033510	F3 20'-32' combination marker board	101100
colored concrete finishing	033519	tack board and tackable wall surface	
		F4 Technology support casework	123550
		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>		<u>Fire Suppression:</u>	
<b>Paint</b>		Fire suppression system	211000
099100		<u>Plumbing:</u>	
		Plumbing connections 224000/221116/221119	
<u>LOOSE FURNISHINGS:</u>		Emergency shower/eyewash	
L1 Student work tables		connections	224000
L2 Student stools/chairs		Master shut-off for gas	226313
L3 Teacher chair or stool		Gas connections	226313
<b>L4 Reserved</b>		Compressed air connections (optional)	221500
L5 File cabinet		Acid waste piping	221316
Wastebasket		Neutralization tank (optional)	221323
		<u>HVAC:</u>	
		Supply/return air system	Div. 23
		Independent temperature ctrl	230923
		Manual exhaust	Div. 23
L4 could be fixed casework.		<u>Electrical:</u>	
		Fluorescent lighting:	265100
		Illumination level: See Table 8600-5	
		Multilevel switching	262726
<u>Electronic Safety and Security:</u>		Duplex receptacles at perimeter	
Life safety devices per code	283111	workstations and teaching wall	262726
		Double duplex receptacle adjacent to	
		each data and video port	262726
<u>Miscellaneous:</u>		Emergency lighting	265100
Pencil sharpener (optional)		Means of egress lighting per code	265100
		<u>Communications:</u>	
E1 Duplex receptacle with dedicated		T1 1 projector video port	271543
circuit for wireless devices		T2 1 voice port and phone	271513/273123
		T3 1 data port at demonstration table	271513
		T4 Wireless access point cable above ceiling	271513
<u>Communications (cont'd):</u>		Central sound system	275123
T6 Wireless access point (WAP) as determined by		Clock	275313
Design – refer to Note 4	272133	Sound reinforcement system	275127
T7 Classroom technology center video port		T5 Ultra-short throw interactive projector	274119
271543, 274116, 274119, 275127			

**NOTES:**

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

## 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:

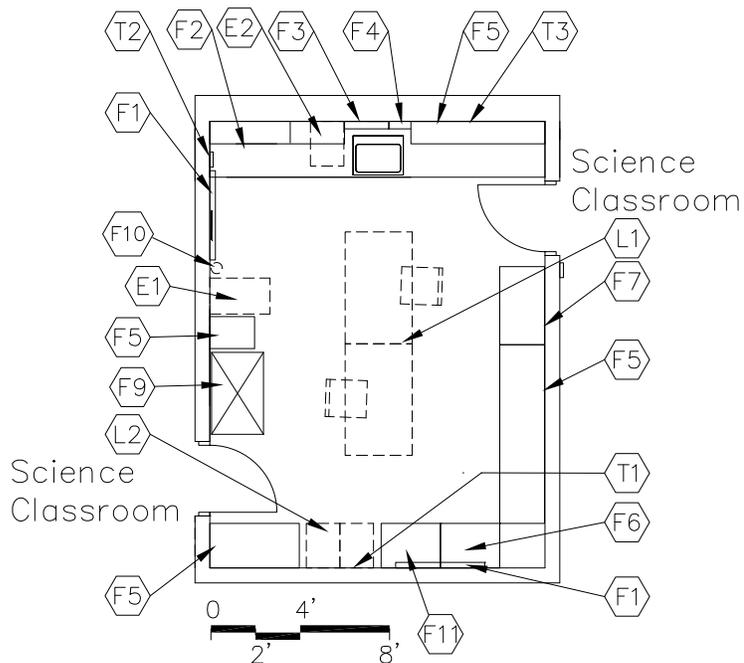
1. Loose furnishings shown represent one of many possible arrangements.
2. Science casework layout to be determined by the school district.
3. Depending upon the educational program of the district, a tall wardrobe may be placed in this classroom or could be placed in a teacher prep area/workroom.
4. 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**

	Spec. Ref.#		
<b>FINISHES<sup>1</sup>:</b>		F1	Tall wardrobe with file drawers 123553
Flooring:		F2	Demonstration table/teacher desk 123553
Vinyl sheet flooring, linoleum, rubber, ET,	096500	F3	20'-32' combination marker board, tack board and tackable wall surface 101100
polished concrete finishing, or colored concrete finishing	096516 033510 033519	<b>F4</b>	Technology support casework 123550
		F5	40'-60' lab casework with sinks 123553
		F6	Pencil sharpener support (optional) 062000
		F7	Windows with integral blinds 085113
		F8	Emergency shower/eyewash 224000
Base:		F9	18'-24' of wall cabinets (optional) 123553
Resilient base	096500	F10	Towel dispensers (optional) 102813
		F11	Projection screen (optional) 115213
Ceiling:		F12	Fume hood 115313
Suspended, acoustical	095113	F13	Tall cabinet for microscopes(optional) 123550
		<b>Fire Suppression:</b>	
Walls:			Fire suppression system 211000
Painted concrete masonry units	042000/099100	<b>Plumbing:</b>	
			Plumbing connections 224000/221116/221119
			Emergency shower/eyewash connections 224000
			Master shut-off for gas 226313
			Gas connections 226313
			Compressed air connections (optional) 221500
			Acid waste piping 221316
			Neutralization tank 221323
<b>LOOSE FURNISHINGS:</b>		<b>HVAC:</b>	
L1 Student work tables			Supply/return air system Div. 23
L2 Student stools/chairs			Independent temp control 230923
L3 Teacher chair or stool			Manual exhaust Div. 23
L4 Computer workstation furniture			Exhaust for fume hood Div. 23
L5 File cabinet		<b>Electrical:</b>	
Wastebasket			Fluorescent lighting: 265100
			Illumination level: See Table 8600-5
L4 Could be fixed casework			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
<b>Electronic Safety and Security:</b>		<b>Communications:</b>	
Life safety devices per code	283111	T1	1 <b>projector</b> video port 271543
		T2	1 voice port and phone 271513/273123
		T3	1 data port at demonstration table 271513
		T4	<b>Wireless access point above ceiling</b> 271513
			Central sound system 275123
			Clock 275313
			Sound reinforcement system 275127
		T5	<b>Ultra-short throw interactive</b> projector 274119
<b>Miscellaneous:</b>			
Pencil sharpener (optional)			
<b>E1 Duplex receptacle with dedicated circuit for wireless devices</b>			
<b>Communications (cont'd):</b>			
<b>T6 Wireless access point (WAP) as determined by Design – refer to Note 4 272133</b>			
<b>T7 Classroom technology center video port 271543, 274116, 274119, 275127</b>			

**NOTES:**

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



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

**PROGRAM ACTIVITIES:**

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

**SPATIAL RELATIONSHIPS:**

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

**ENVIRONMENTAL CONSIDERATIONS:**

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

**NOTES:**

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

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

<u>FINISHES<sup>1</sup>:</u>	<u>Spec. Ref.#</u>	<u>FEATURES<sup>1</sup>:</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>LOOSE FURNISHINGS:</u>		<u>Plumbing:</u>	
L1 Work tables with chemical-resistant top		Plumbing connections	224000/221116/221119
L2 2 file cabinets		Acid waste system	Div. 23
Wastebasket		Gas connections	226313
		Compressed air connections(optional)	221500
		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
Note: Eliminate 24 hour exhaust if recommended by cabinet manufacturer. Make room 24 hour exhaust if no cabinet exhaust.		<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 <b>projector</b> video port	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	

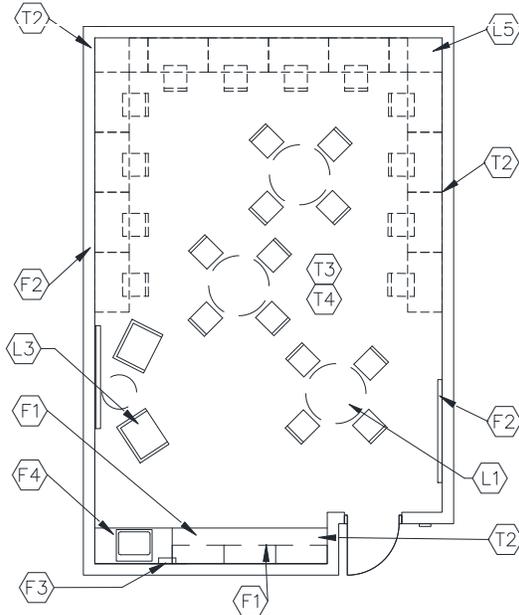
**NOTES:**

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

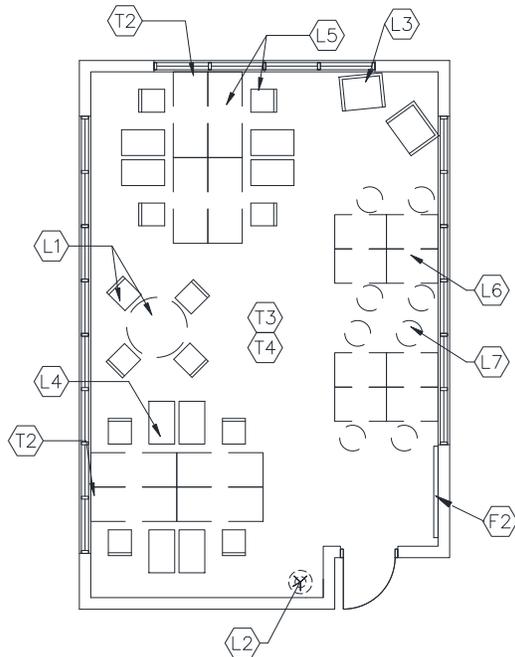
**TEACHER PREP AREA/WORKROOM  
CT-AC-7**

**CHAPTER 6: CAREER-TECHNICAL SCHOOL**

600 SF



600 SF



CAPACITY:  
SIZE:

4-12 teachers  
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

**PROGRAM ACTIVITIES:**

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

**SPATIAL RELATIONSHIPS:**

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

**ENVIRONMENTAL CONSIDERATIONS:**

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

**Collaboration Note:**

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

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

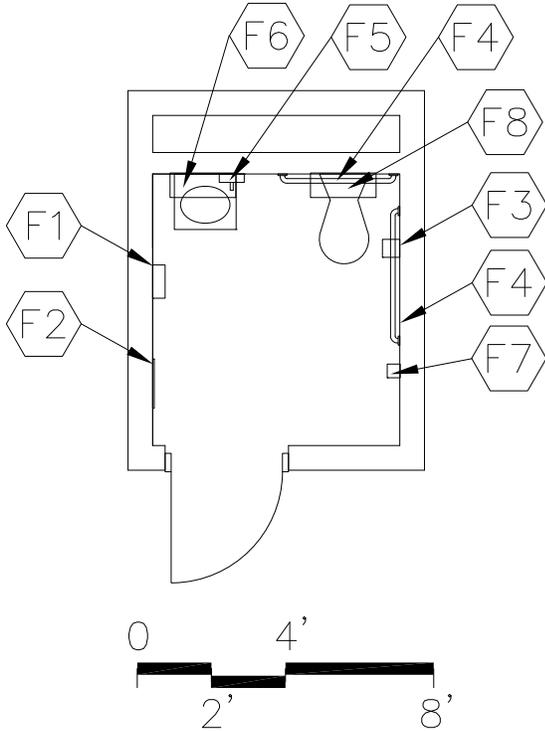
<u>FINISHES<sup>1</sup>:</u>	Spec. Ref.#	<u>FEATURES<sup>1</sup>:</u>	Spec. Ref.#
<u>Flooring:</u>		<u>Fixed Items<sup>2</sup>:</u>	
Carpet, carpet tile, ET, linoleum, vinyl sheet, or rubber	096816 096500 096516 096813	F1 12'-18' combination base & wall cabinets (some could be bookcases)	123550
		F2 <b>50-75 sf</b> combination marker board, tack board & tackable wall surface	101100
<u>Base:</u>		F3 Towel dispenser (optional)	102813
Resilient base	096500	F4 3' sink base cabinet	123550
<u>Ceiling:</u>		<u>Fire Suppression:</u>	
Suspended, acoustical	095113	Fire suppression systems	211000
<u>Walls:</u>		<u>TEX</u>	
<b>Paint</b>		<u>Plumbing:</u>	
099100		Sink	224000
		Plumbing connections	224000/221116/221119
<u>LOOSE FURNISHINGS:</u>		<u>HVAC:</u>	
L1 Tables and chairs		Supply/return air system	Div. 23
<b>L2 Coatrack</b>		Independent temperature control	230923
<b>L3 Soft Seating</b>		<u>Electrical:</u>	
<b>L4 Teacher computer trucks</b>		Single-level switching	262726
<b>L5 Teacher workstation furniture and chair</b>		Fluorescent lighting	265100
<b>L6 42" high teacher cabinet with work surface top</b>		Illumination level: See Table 8600-5	
<b>L7 Stools</b>		3 duplex receptacles	262726
Wastebasket		Double duplex receptacle adjacent to each data and video port	262726
		Duplex receptacles for office equipment	262726
		Receptacle for copier(if applicable)	262726
<u>Electronic Safety and Security:</u>		<u>Communications:</u>	
Life safety devices per code	283111	<b>T1 Reserved</b>	
<u>Miscellaneous:</u>		<b>T2 Voice ports and phones</b>	271513/273123
Copier by school district		<b>T3 Wireless access point cable above ceiling</b>	271513
		Clock	275313
		Central sound system	275123
<b>E1 Reserved</b>		<b>T4 Wireless access point (WAP) as determined by Design – refer to Note 3</b>	<b>272133</b>

**NOTES:**

1. Finishes/Features: Refer to Chapter 9 for specification references.
2. Ranges shown indicate quantities for the smallest and largest possible room size.
3. Baseline includes WAP cable. WAP device quantity / placement per 272133 requirements.
4. **When collaboration area is selected, teacher computer trucks are provided in lieu of teacher desks in classrooms.**

**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**

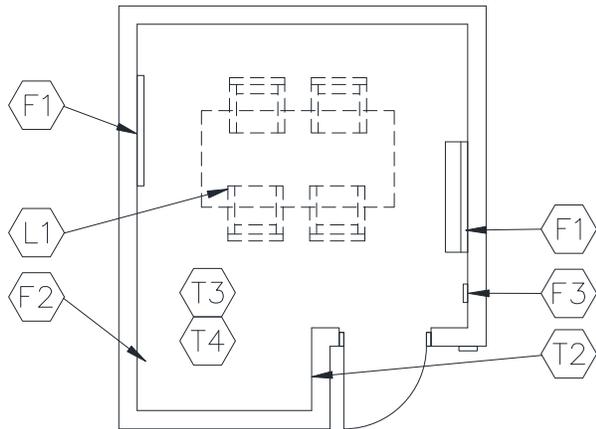
<u>FINISHES<sup>1</sup>:</u>	Spec. Ref.#	<u>FEATURES<sup>1</sup>:</u>	Spec. Ref.#
<u>Flooring:</u>		<u>Fixed Items:</u>	
Linoleum, rubber, ET, or sheet vinyl	096516 096500	F1 Towel dispenser	102813 102813
Optional: Ceramic mosaic tile, porcelain tile, or resinous flooring	093000 096723	F2 24" x 60" mirror	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
<u>Base:</u>		<u>Fire Suppression:</u>	
Resilient base	096500	Fire suppression system	211000
Optional: Ceramic mosaic tile, Porcelain tile, resinous flooring, or integral vinyl cove base	093000 096723		
<u>Ceiling:</u>		<u>Plumbing:</u>	
Suspended, acoustical	095113	Wall-mounted water closet	224000
		Wall-mounted lavatory	224000
		Plumbing connections	224000/221116/221119
<u>Walls:</u>		<u>HVAC:</u>	
Painted concrete masonry units	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>FINISHES</u> <sup>1</sup> :	Spec. Ref.#	<u>FEATURES</u> <sup>1</sup> :	Spec. Ref.#
<u>Flooring:</u>		<u>Fixed Items:</u>	
Carpet, carpet tile	096816	F1 8'-12' combination 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
<b>L2 <i>Reserved</i></b>		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>	
		<b>T1 <i>Reserved</i></b>	
		<b>T2 <i>voice port with phone</i></b>	271513/273123
		<b>T3 <i>Wireless access point cable above ceiling</i></b>	271513
		<b>T4 <i>Wireless access point (WAP) as determined by design – refer to note 2</i></b>	271533
		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

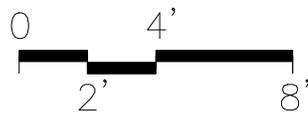
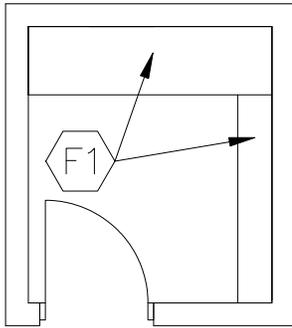
NOTES:

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

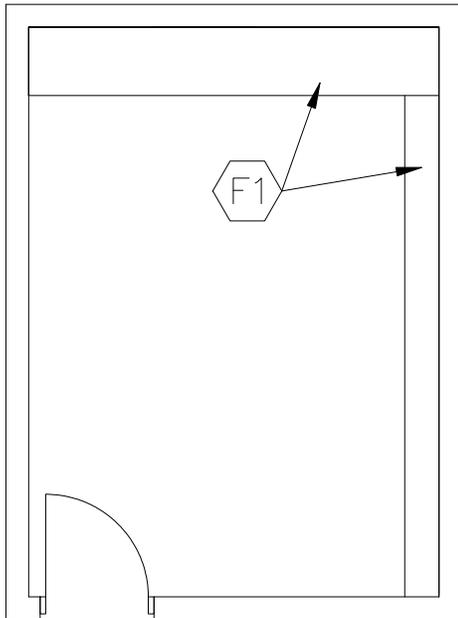
**MATERIAL STORAGE  
CT-AC-10**

**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

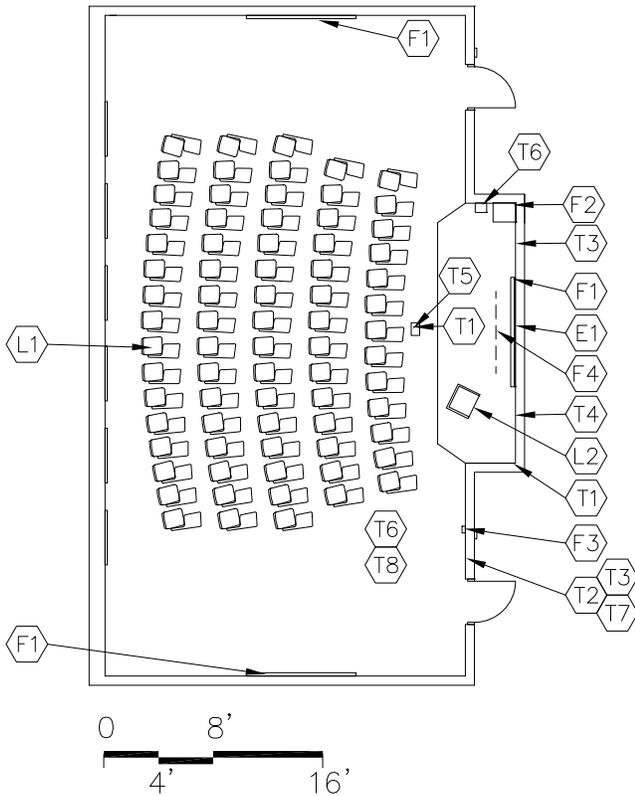
**NOTES:**

**MATERIAL STORAGE  
CT-AC-10**
**CHAPTER 6: CAREER-TECHNICAL SCHOOL**

	Spec. Ref.#		Spec. Ref.#
<u>FINISHES<sup>1</sup>:</u>		<u>FEATURES<sup>1</sup>:</u>	
Flooring:		<u>Fixed Items:</u>	
Rubber, <i>linoleum, ET, or sheet vinyl</i>	096500 <b>096516</b>	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

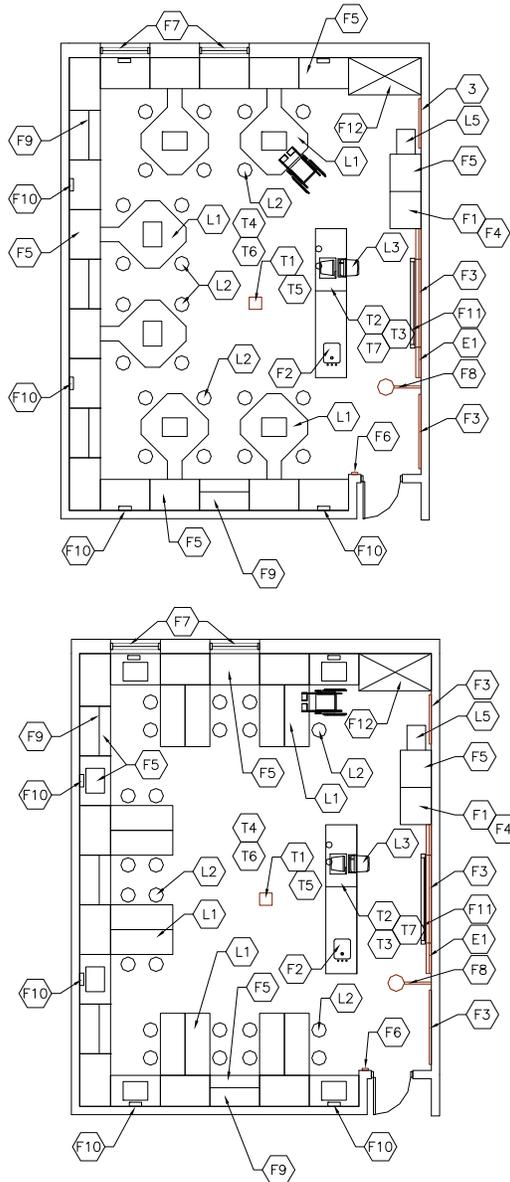
	Spec. Ref.#		Spec. Ref.#
<b><u>FINISHES</u><sup>1</sup>:</b>		<b><u>FEATURES</u><sup>1</sup>:</b>	
<b>Flooring:</b>		<b><u>Fixed Items:</u></b>	
Carpet, carpet tile, linoleum, rubber, ET, or sheet vinyl	096816 096813 096500 096516	F1 16'-28' combination marker board tack board & tackable wall surface	101100
		<b>F2</b> Technology support casework	123550
		F3 Pencil sharpener support (optional)	062000
		F4 Projection screen (optional)	115213
<b>Base:</b>		<b><u>Fire Suppression:</u></b>	
Resilient base	096500	Fire suppression system	211000
<b>Ceiling:</b>		<b><u>Plumbing:</u></b>	
Suspended, acoustical	095113	N/A	
<b>Walls:</b>		<b><u>HVAC:</u></b>	
Painted concrete masonry units	042000/099100	Supply/return air system	Div. 23
Acoustical wall treatment	098000	Independent temperature control	230923
<b><u>LOOSE FURNISHINGS:</u></b>		<b><u>Electrical:</u></b>	
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
		<b><u>Communications:</u></b>	
		T1 2 <b>projector</b> video ports	271543
		T2 1 voice port and phone	271513/273123
		T3 1 data port (minimum)	271513
		T4 1 port to input local computer to monitor	271513
		Clock	275313
		Central sound system	275123
<b><u>Electronic Safety and Security:</u></b>		T5 <b>Ultra-short throw interactive</b> projector	274119
Life safety devices per code	283111		
<b><u>Miscellaneous:</u></b>		T6 Student Dining/Cafeteria sound reinforcement system	275122
Pencil sharpener (optional)		T7 <b>Wireless access point (WAP) as determined by Design – refer to Note 3</b>	272133
<b>E1 Duplex receptacle with dedicated circuit for wireless devices</b>		<b>T7 Classroom technology center video port</b>	271543, 274116, 274119, 275127
		<b>T8 Wireless access point cable above ceiling</b>	271513

**NOTES:**

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

## 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

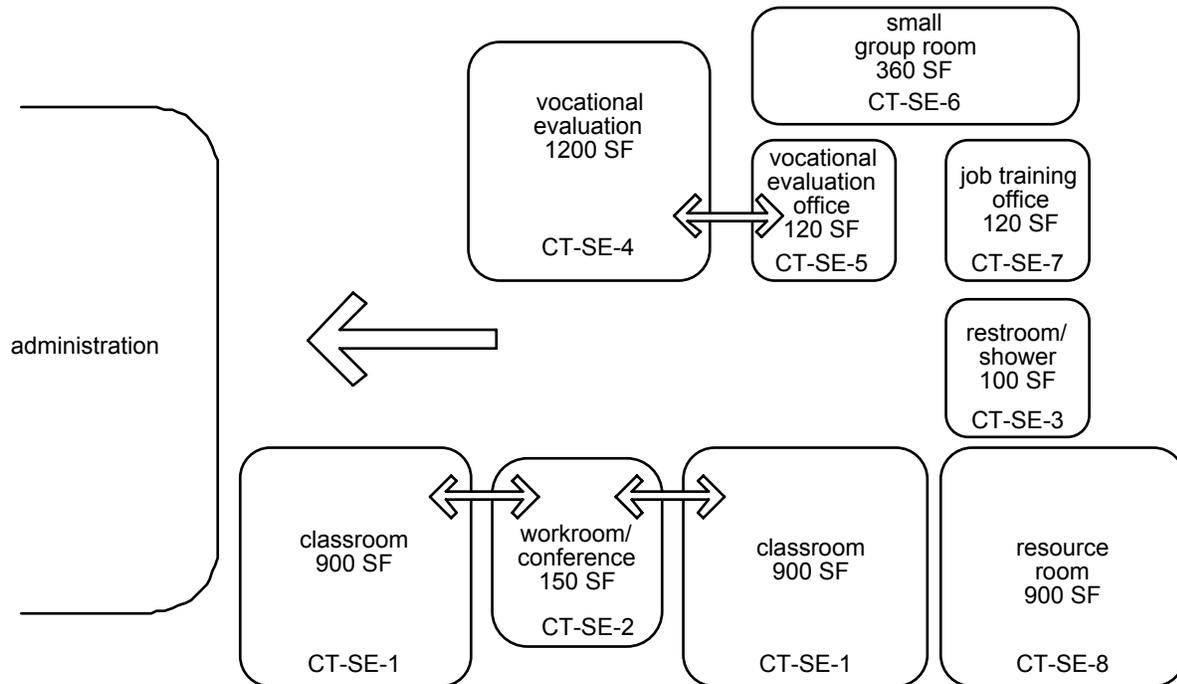
#### NOTES:

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.



**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:

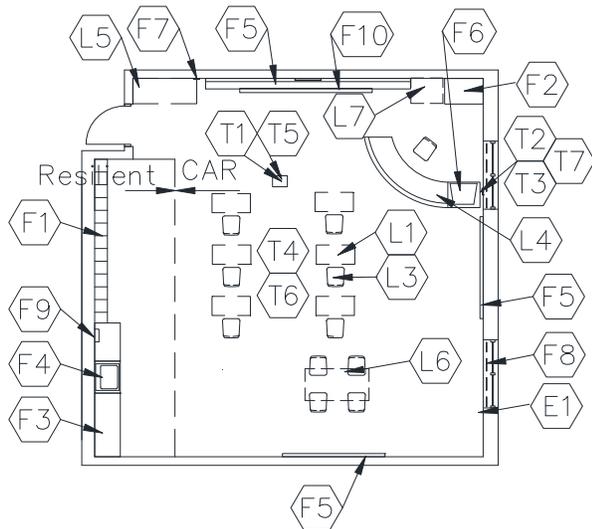
- CT-SE-1 Classroom
- CT-SE-2 Workroom/Conference
- CT-SE-3 Restroom/Shower
- CT-SE-4 Career Technical Evaluation
- CT-SE-5 Career Technical Evaluation Office
- CT-SE-6 Small Group Room
- CT-SE-7 Job Training Office
- CT-SE-8 Resource Room

**SPECIAL EDUCATION/STUDENT SERVICES SPACES  
CT-SE**

**CHAPTER 6: CAREER-TECHNICAL SCHOOL**

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**CLASSROOM  
CT-SE-1****CHAPTER 6: CAREER-TECHNICAL SCHOOL****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)

**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 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**

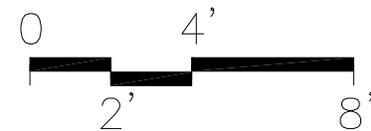
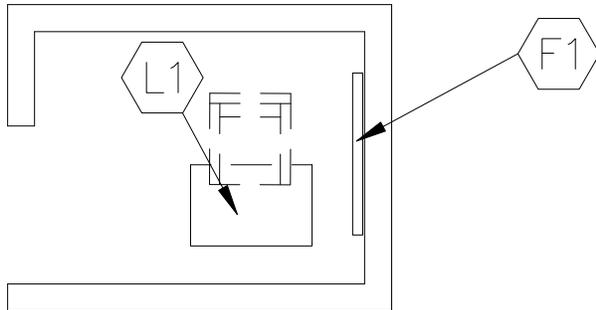
<u>FINISHES<sup>1</sup>:</u>	Spec. Ref.#	<u>FEATURES<sup>1</sup>:</u>	Spec. Ref.#
<u>Flooring:</u>		<u>Fixed Items:</u>	
Combination carpet, carpet tile with resilient options	096816 096500	F1 Open casework – student coats and personal items with wall cabinets above	123550
Optional: All ET, sheet vinyl, 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 marker board tack board and tackable wall surface	101100
<u>Base:</u>		F6 Technology support casework	123550
Resilient base	096500	F7 Pencil sharpener support (optional)	062000
		F8 Windows with integral blinds	085113
<u>Ceiling:</u>		F9 Towel dispenser (optional)	102813
Suspended, acoustical	095113	F10 Projection screen (optional)	115213
		F11 Tall storage cabinet(optional)	123550
<u>Walls:</u>		F12 Mirror (optional)	102813
<b>Paint</b>	099100	<u>Fire Suppression:</u>	
		Fire suppression system	211000
<u>LOOSE FURNISHINGS:</u>		<u>Plumbing:</u>	
L1 Student desks/tables		Sink with drinking fountain	224000
<b>L2 Reserved</b>		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>	
Washer and dryer		T1 1 projector video port	271543
Small refrigerator		T2 1 voice port and phone	271513/273123
Range		T3 1 data port near teacher workstation	271513
Oven		T4 Wireless access point cable above ceiling	271513
Microwave		Clock	275313
		Sound reinforcement system	275127
<u>Electronic Safety and Security:</u>		Central sound system	275123
Life safety devices per code	283111	T5 Ultra-short throw interactive projector	274119
<u>Miscellaneous:</u>		T6 Wireless access point (WAP) as determined by Design – refer to Note 3	272133
Pencil sharpener (optional)		T7 Classroom technology center video port	271543, 274116, 274119, 275127
E1 Duplex receptacle with dedicated circuit for wireless devices			

**NOTES:**

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

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

CHAPTER 6: CAREER-TECHNICAL SCHOOL



CAPACITY: 1 - 2 persons  
 SIZE: 150 SF

**PROGRAM ACTIVITIES:**

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

**SPATIAL RELATIONSHIPS:**

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

**ENVIRONMENTAL CONSIDERATIONS:**

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

**NOTES:**

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

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

## CHAPTER 6: CAREER-TECHNICAL SCHOOL

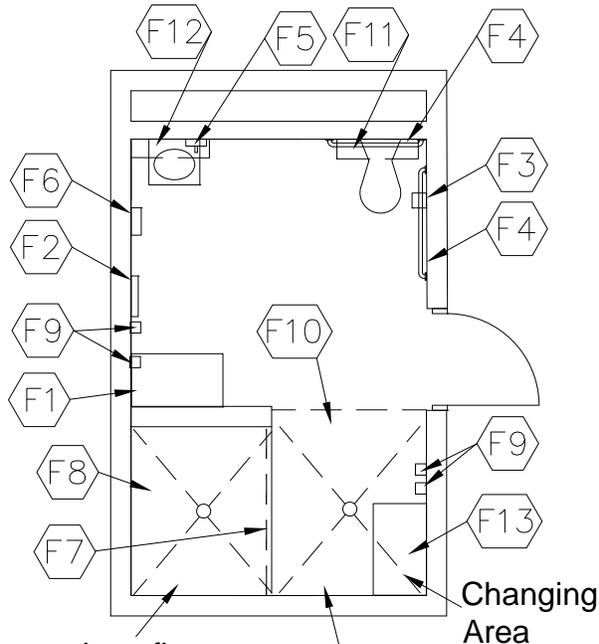
<u>FINISHES<sup>1</sup>:</u>	Spec. Ref.#	<u>FEATURES<sup>1</sup>:</u>	Spec. Ref.#
<u>Flooring:</u>		<u>Fixed Items:</u>	
Carpet, carpet tile, ET, linoleum, or sheet vinyl	096816 096500 096516 096813	F1 4' of tack board (optional)	101100
<u>Base:</u>		<u>Fire Suppression:</u>	
Resilient base	096500	Fire 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**

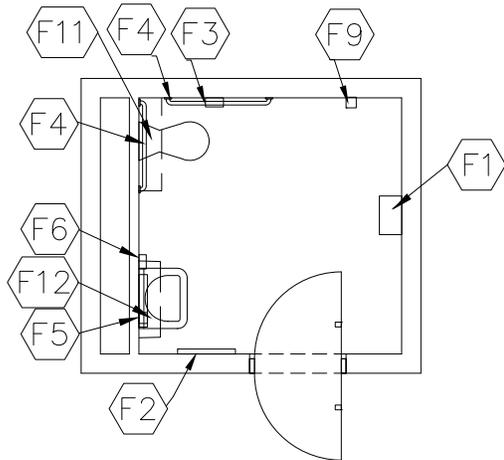
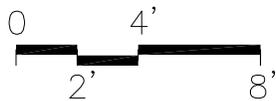
**CHAPTER 6: CAREER-TECHNICAL SCHOOL**



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**

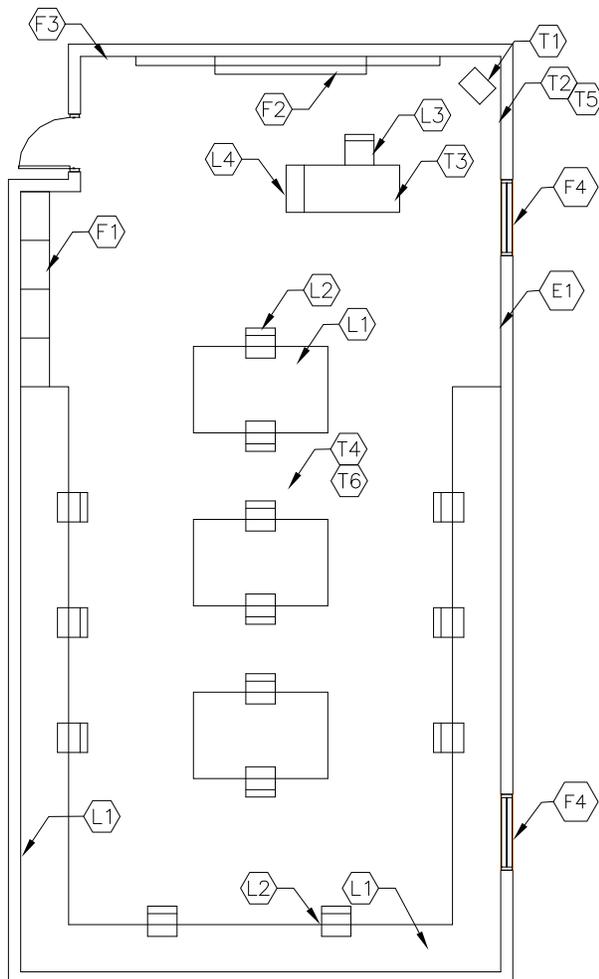
<u>FINISHES<sup>1</sup>:</u>	Spec. Ref.#	<u>FEATURES<sup>1</sup>:</u>	Spec. Ref.#
<u>Flooring:</u>		<u>Fixed Items:</u>	
Restroom: ET, vinyl sheet flooring,	096500	F1 Base cabinets	123550
<b>porcelain tile, or ceramic tile</b>	093000	F2 24" x 60" mirror	102813
Shower: Ceramic mosaic tile, or porcelain 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
<b>porcelain tile, or ceramic tile</b>		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



#### 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

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

#### 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**

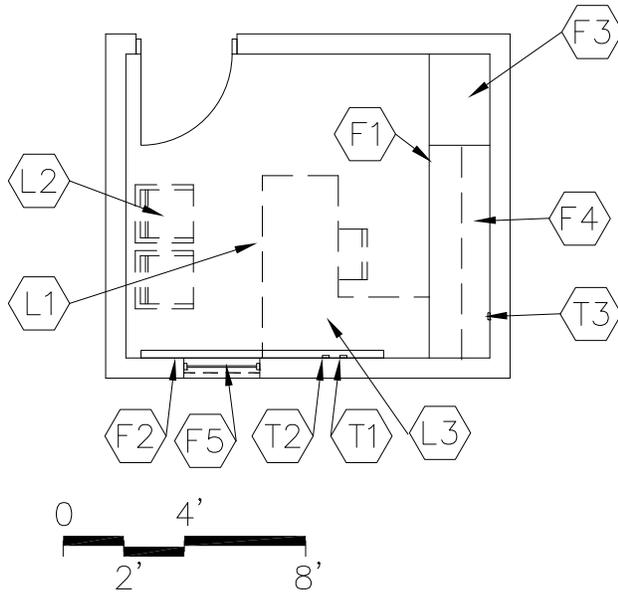
<u>FINISHES<sup>1</sup>:</u>	Spec. Ref.#	<u>FEATURES<sup>1</sup>:</u>	Spec. Ref.#
<u>Flooring:</u>		<u>Fixed Items:</u>	
Carpet, carpet tile	096816	F1 Open casework - coats	123550
	096813	F2 8'-12' of marker board, tack board, or tackable wall surface	101000
<u>Base:</u>		<b>F3</b> Pencil sharpener support (optional)	062000
Resilient base	096500	<b>F4</b> Windows with integral blinds	085113
<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	N/A	
Optional: Gypsum drywall on metal studs	092116 / 099100	<u>HVAC:</u>	
<u>LOOSE FURNISHINGS:</u>		Supply/return air system	Div. 23
L1 Student desk/tables		Independent temperature control	230923
L2 Student chairs		<u>Electrical:</u>	
L3 Teacher desk and chair		Fluorescent lighting	265100
L4 Desk height 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
		<u>Communications:</u>	
		T1 1 <b>projector</b> video port and video display device	271543
		T2 1 voice port and phone	271513/273123
		T3 1 data port near teacher workstation	271513
		T4 <b>Wireless access point cable above ceiling</b>	271513
		Central sound system	275123
		Clock	275313
		<b>T5 Classroom technology center video port 271543, 274116, 274119, 275127</b>	
		<b>T6 Wireless access point (WAP) as determined by Design – refer to Note 2 272133</b>	
<u>Electronic Safety and Security:</u>			
Life safety devices per code	283111		
<u>Miscellaneous:</u>			
Pencil sharpener (optional)			
<b>E1 Duplex receptacle with dedicated circuit for wireless devices</b>			

**NOTES:**

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

**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**

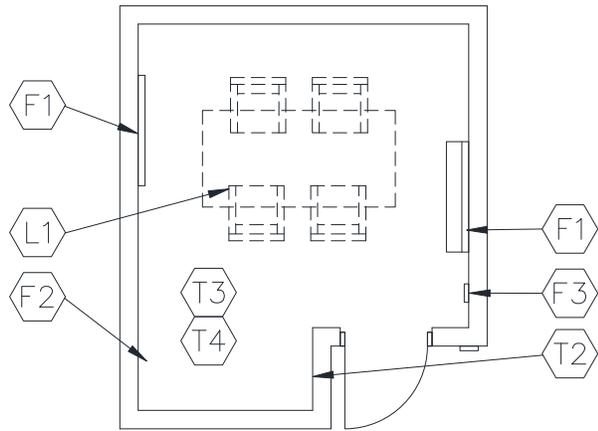
<u>FINISHES<sup>1</sup>:</u>	Spec. Ref.#	<u>FEATURES<sup>1</sup>:</u>	Spec. Ref.#
Flooring:		<u>Fixed Items:</u>	
Carpet or Carpet Tile	096816	F1 Work surface with file drawers	123550
	096813	F2 4' of tack board	101100
		or tackable wall surface	
Base:		F3 Tall wardrobe	123550
Resilient base	096500	F4 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 <b>projector</b> video port	271543
		Central sound system	275123
		Clock	275313
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
		<u>Miscellaneous:</u>	
		N/A	

**NOTES:**

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

**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.

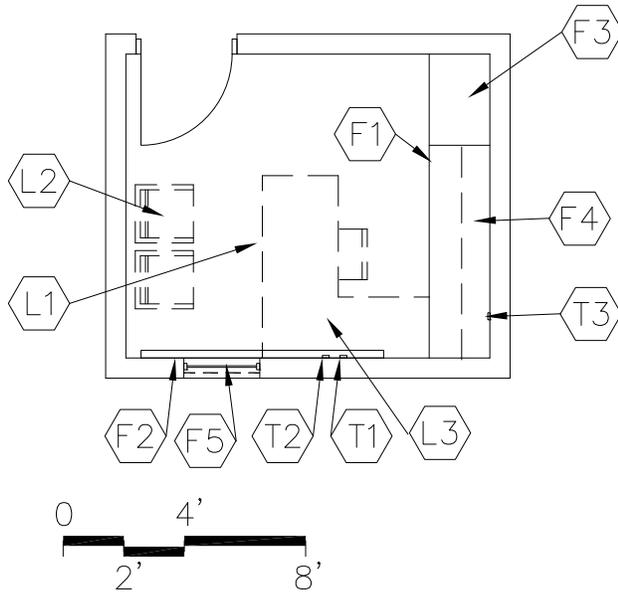
**SMALL GROUP ROOM  
CT-SE-6**

## CHAPTER 6: CAREER-TECHNICAL SCHOOL

<u>FINISHES<sup>1</sup>:</u>	Spec. Ref.#	<u>FEATURES<sup>1</sup>:</u>	Spec. Ref.#
<u>Flooring:</u>		<u>Fixed Items:</u>	
Carpet, carpet tile	096816	F1 8'-10' of 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
<b>L2 Reserved</b>		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>	
		<b>T1 Reserved</b>	
		<b>T2 voice port with phone</b>	271513/273123
		<b>T3 Wireless access point cable above ceiling</b>	<b>271513</b>
		<b>T4 Wireless access point (WAP) as determined by design – refer to note 2</b>	<b>271533</b>
		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.
2. **Baseline includes WAP cable. WAP device quantity / placement per 272133 requirements.**



**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**

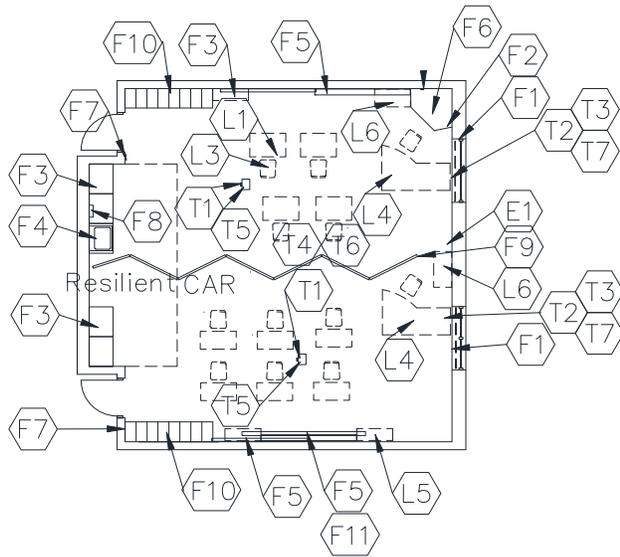
<u>FINISHES<sup>1</sup>:</u>	Spec. Ref.#	<u>FEATURES<sup>1</sup>:</u>	Spec. Ref.#
Flooring:		<u>Fixed Items:</u>	
Carpet or Carpet Tile	096816	F1 Work surface with file drawers	123550
	096813	F2 4' of tack board	101100
		or tackable wall surface	
Base:		F3 Tall wardrobe	123550
Resilient base	096500	F4 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 <b>projector</b> video port	271543
		Central sound system	275123
		Clock	275313
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
		<u>Miscellaneous:</u>	
		N/A	

**NOTES:**

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

**RESOURCE ROOM  
CT-SE-8**

**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**

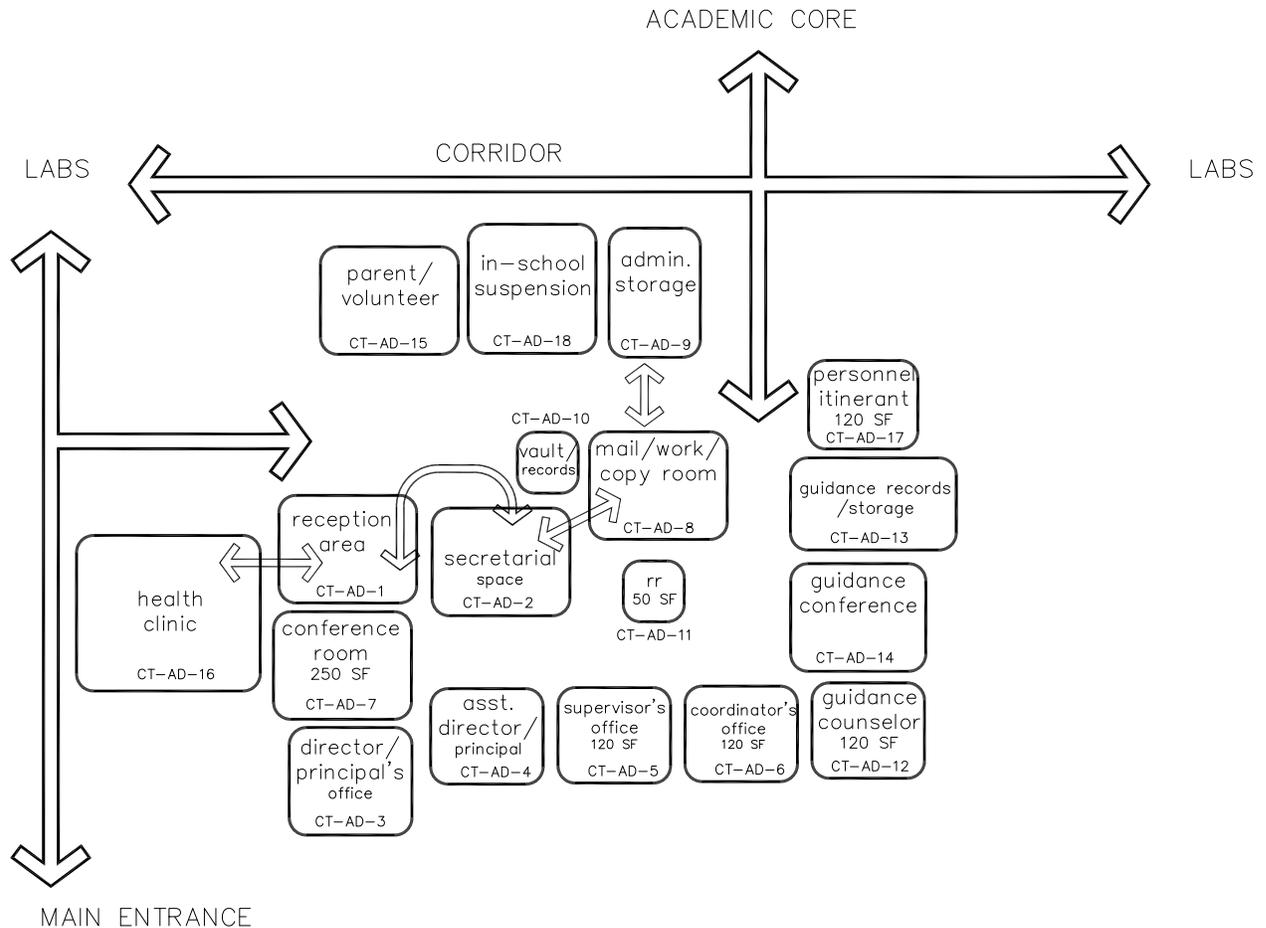
<u>FINISHES<sup>1</sup>:</u>	Spec. Ref.#	<u>FEATURES<sup>1</sup>:</u>	Spec. Ref.#
<u>Flooring:</u>		<u>Fixed Items:</u>	
Combination carpet, carpet tile with resilient options	096816	F1 Windows with integral blinds	085113
Option: All ET, sheet vinyl, linoleum, or rubber	096500	F2 Tall wardrobe with file drawers	123550
	096516	F3 8'-12' of base cabinets	123550
		F4 3' sink base cabinet	123550
		F5 20'-32' combination chalk/marker board, tack board, tackable wall surface	101100
<u>Base:</u>		F6 Technology support casework	123550
Resilient base	096500	F7 Pencil sharpener support (optional)	062000
		F8 Towel dispenser (optional)	102813
<u>Ceiling:</u>		F9 Operable partition (optional)	102226
Suspended, acoustical	095113	F10 Open casework coats and personal storage w/wall cabinets above	123550
		F11 Projection screen (optional)	115213
<u>Walls:</u>		F12 Mobile storage cabinet (optional)	123550
<b>Paint</b>	099100	F13 Mirror (optional)	102813
<u>LOOSE FURNISHINGS:</u>		<u>Fire Suppression:</u>	
L1 Student desks/tables		Fire suppression system	211000
<b>L2 Reserved</b>		<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>	
<u>Electronic Safety and Security:</u>		Fluorescent lighting	265100
Life safety devices per code	283111	Illumination level: See Table 8600-5	
		Multilevel switching	262726
<u>Miscellaneous:</u>		4 duplex receptacles	262726
Pencil sharpener (optional)		Double duplex receptacle adjacent to each data and video port	262726
E1 Duplex receptacle with dedicated circuit for wireless devices		<u>Communications:</u>	
		T1 1 projector video port	271543
<u>Communications (cont'd):</u>		T2 1 voice port and phone	271513/237123
T6 Wireless access point (WAP) as determined by Design – refer to Note 3	272133	T3 1 data port	
T7 Classroom technology center video port	271543, 274116, 274119, 275127	near each teacher workstation	271513
		T4 Wireless access point cable above ceiling	271513
		Clock	275313
		Sound reinforcement system	275127
		Central sound system	275123
		T5 Ultra-short throw interactive projector	274119

**NOTES:**

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

**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:

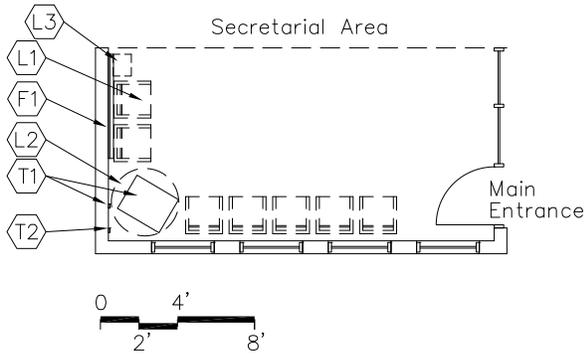
CT-AD-1	Reception Area	CT-AD-10	Vault/Records
CT-AD-2	Secretarial Space	CT-AD-11	Restroom
CT-AD-3	Director/Principal's Office	CT-AD-12	Guidance Counselor
CT-AD-4	Assistant Director/Principal's Office	CT-AD-13	Guidance Records/Storage
CT-AD-5	Supervisor's Office	CT-AD-14	Guidance Conference
CT-AD-6	Coordinator's 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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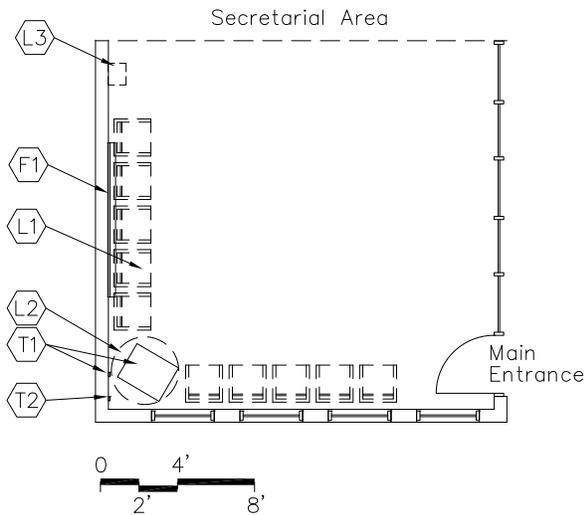
**RECEPTION AREA  
CT-AD-1**

**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.#
<b><u>FINISHES<sup>1</sup>:</u></b>		<b><u>FEATURES<sup>1</sup>:</u></b>	
Flooring:		<b><u>Fixed Items:</u></b>	
Carpet or Carpet Tile	096816 096813	F1 Tack board or tackable wall surface (optional)	101100
Base:		<b><u>Fire Suppression:</u></b>	
Resilient base	096500	Fire suppression system	211000
Ceiling:		<b><u>Plumbing:</u></b>	
Suspended, acoustical	095113	N/A	
Walls:		<b><u>HVAC:</u></b>	
Painted gypsum wallboard over metal studs	092116/099100	Supply/return air system	Div. 23
<b><u>LOOSE FURNISHINGS:</u></b>		Independent temperature control	230923
L1 Visitor chairs		<b><u>Electrical:</u></b>	
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
		<b><u>Communications:</u></b>	
		T1 1 <b>projector</b> video port, monitor, and brackets	271543/274119
		T2 1 voice port and phone	271513/273123
		Clock	275313
		Central sound system	275123
		<b><u>Electronic Safety and Security:</u></b>	
		Life safety devices per code	283111
		<b><u>Miscellaneous:</u></b>	
		Interior windows	081113/088000

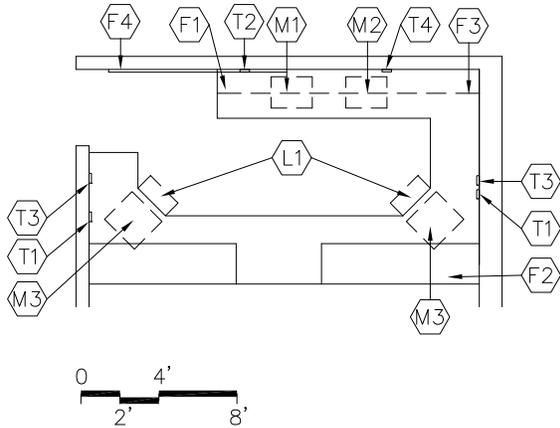
**NOTES:**

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

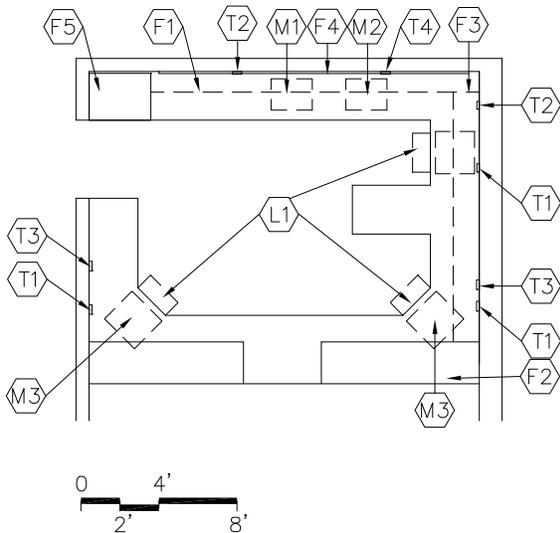
**SECRETARIAL AREA  
CT-AD-2**

**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**

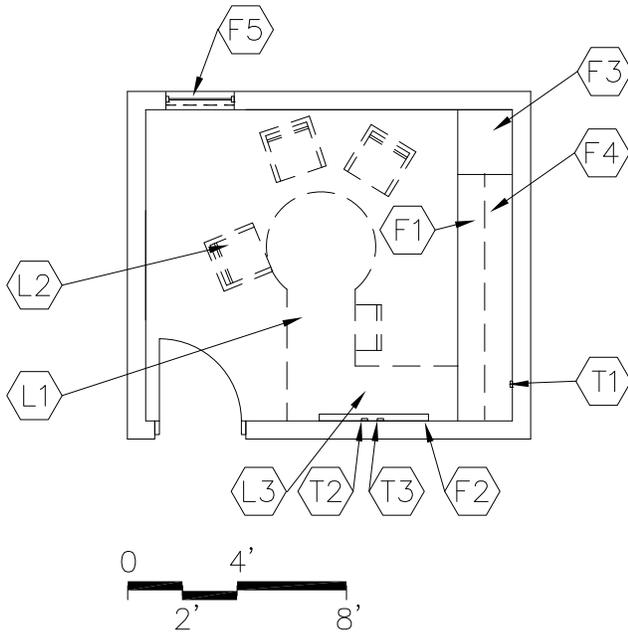
<u>FINISHES<sup>1</sup>:</u>	Spec. Ref.#	<u>FEATURES<sup>1</sup>:</u>	Spec. Ref.#
<u>Flooring:</u>		<u>Fixed Items<sup>2</sup>:</u>	
Carpet or Carpet Tile	096816 096813	F1 24' - 60' of work surface with file drawers	123550 123550
<u>Base:</u>		F2 42" high counter top with portion of counter 34" high 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/ <b>273123</b>
		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**

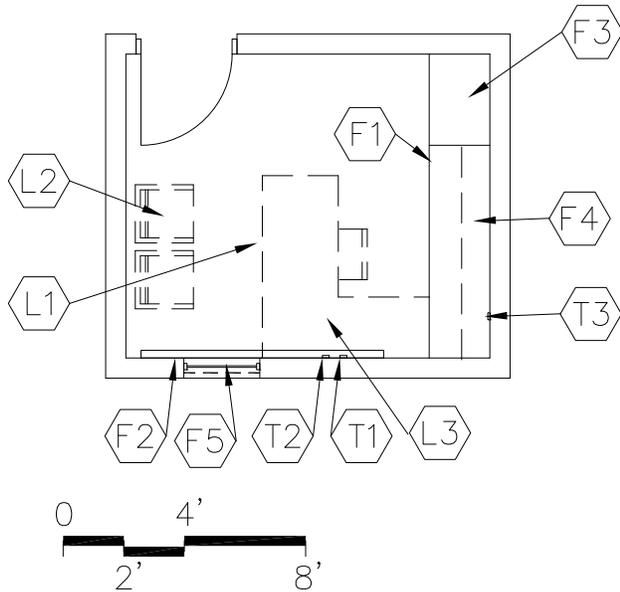
<u>FINISHES<sup>1</sup>:</u>	Spec. Ref.#	<u>FEATURES<sup>1</sup>:</u>	Spec. Ref.#
<u>Flooring:</u>		<u>Fixed Items:</u>	
Carpet or Carpet Tile	096816	F1 Work surface with file drawers	123550
	096813	F2 4' of tack board or tackable wall surface	101100
<u>Base:</u>		F3 Tall wardrobe (optional)	123550
Resilient 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 <b>projector</b> video port	271543
		T2 1 voice port and phone	271513/273123
		T3 1 data port near workstation	271513
		Central sound system	275123
		Clock	275313
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
		<u>Miscellaneous:</u>	
		N/A	

**NOTES:**

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

**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**

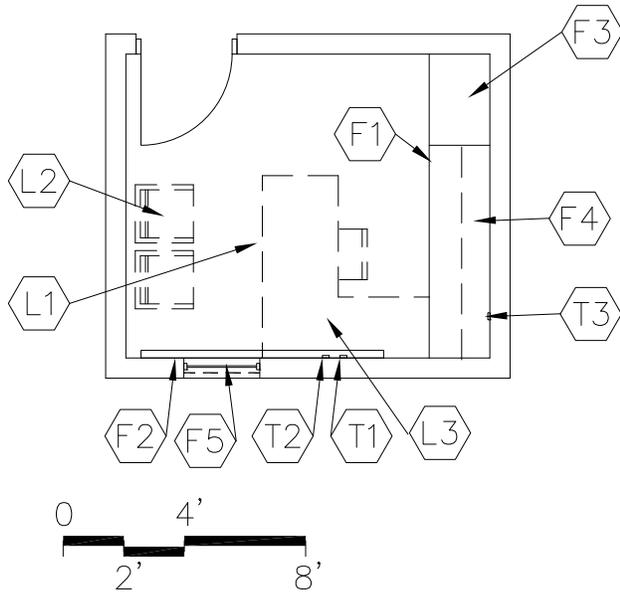
<u>FINISHES</u> <sup>1</sup> :	Spec. Ref.#	<u>FEATURES</u> <sup>1</sup> :	Spec. Ref.#
Flooring:		<u>Fixed Items:</u>	
Carpet or Carpet Tile	096816	F1 Work surface with file drawers	123550
	096813	F2 4' of tack board	101100
		or tackable wall surface	
Base:		F3 Tall wardrobe	123550
Resilient base	096500	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 <b>projector</b> video port	271543
		Central sound system	275123
		Clock	275313
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
		<u>Miscellaneous:</u>	
		N/A	

**NOTES:**

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

**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**

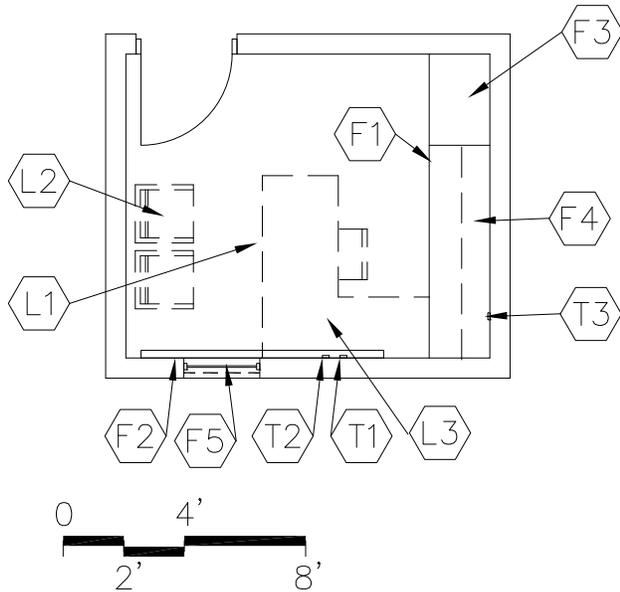
<u>FINISHES<sup>1</sup>:</u>	Spec. Ref.#	<u>FEATURES<sup>1</sup>:</u>	Spec. Ref.#
Flooring:		<u>Fixed Items:</u>	
Carpet or Carpet Tile	096816	F1 Work surface with file drawers	123550
	096813	F2 4' of tack board	101100
		or tackable wall surface	
Base:		F3 Tall wardrobe	123550
Resilient base	096500	F4 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 <b>projector</b> video port	271543
		Central sound system	275123
		Clock	275313
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
		<u>Miscellaneous:</u>	
		N/A	

**NOTES:**

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

**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**

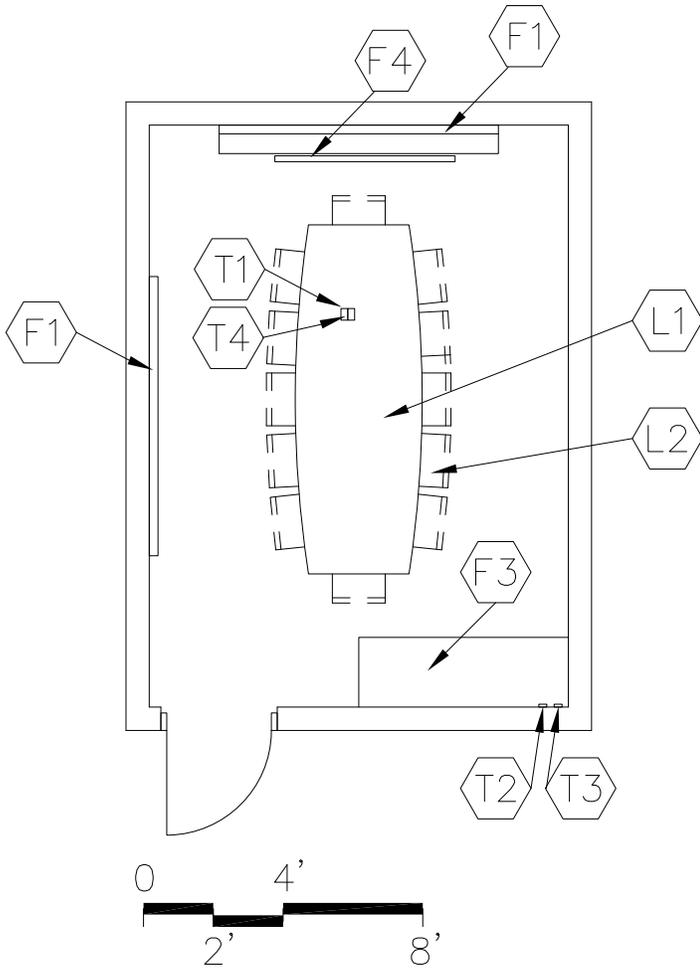
<u>FINISHES<sup>1</sup>:</u>	Spec. Ref.#	<u>FEATURES<sup>1</sup>:</u>	Spec. Ref.#
Flooring:		<u>Fixed Items:</u>	
Carpet or Carpet Tile	096816	F1 Work surface with file drawers	123550
	096813	F2 4' of tack board	101100
		or tackable wall surface	
Base:		F3 Tall wardrobe	123550
Resilient base	096500	F4 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 <b>projector</b> video port	271543
		Central sound system	275123
		Clock	275313
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
		<u>Miscellaneous:</u>	
		N/A	

**NOTES:**

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

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

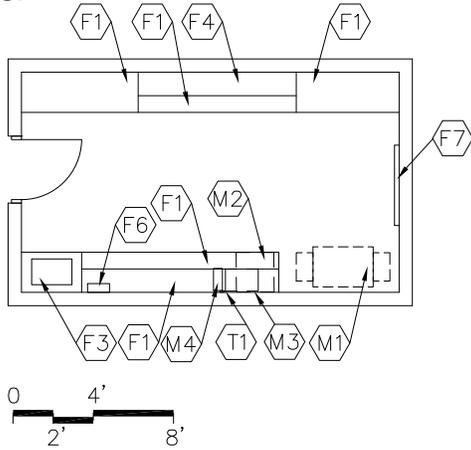
**NOTES:**

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.

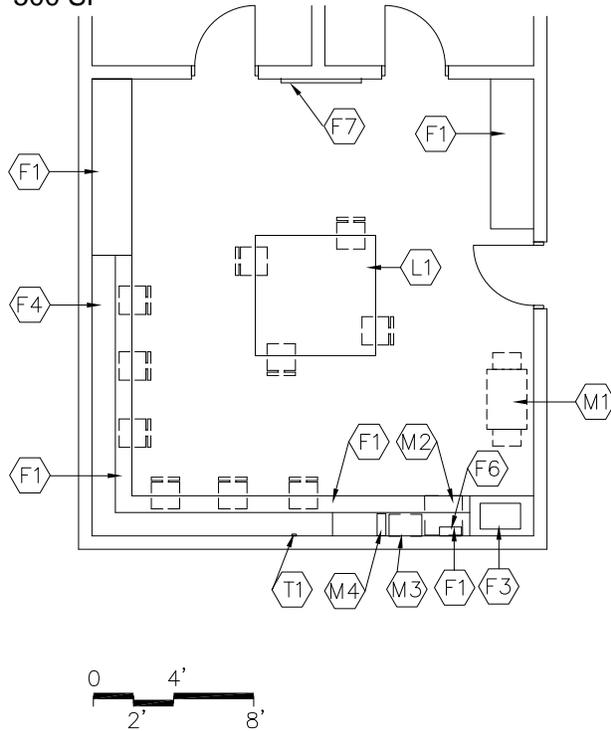
**MAIL/WORK/COPY ROOM  
CT-AD-8**

**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>FINISHES<sup>1</sup>:</u>	Spec. Ref.#	<u>FEATURES<sup>1</sup>:</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 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>LOOSE FURNISHINGS:</u>		<u>Plumbing:</u>	
L1 Work table and chairs (applicable in 300 SF space only)		Sink	224000
Wastebasket		Plumbing connections	224000/221116/221119
		<u>HVAC:</u>	
		Supply/return air system	Div. 23
		Independent temperature control	230923
		<u>Electrical:</u>	
		Single level switching	262726
		Fluorescent lighting	265100
		Illumination level: See Table 8600-5	
		3 - 5 duplex receptacles	262726
		Receptacle for copier	262726
		<u>Communications:</u>	
		T1 1 voice port and phone	271513/273123
		Clock	275313
		Central sound system	275123
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
		<u>Miscellaneous:</u>	
		The following items are to be funded by the school district:	
		M1 Copier	
		M2 Undercounter refrigerator	
		M3 Microwave	
		M4 Coffee maker	

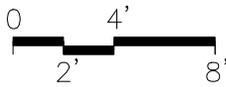
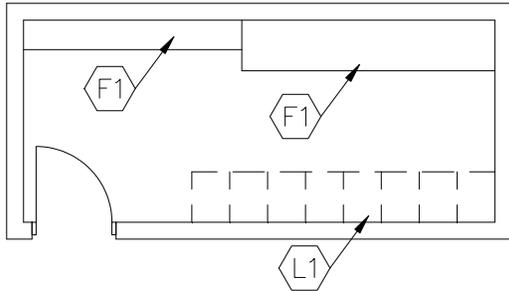
**NOTES:**

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

**ADMINISTRATIVE STORAGE  
CT-AD-9**

**CHAPTER 6: CAREER-TECHNICAL SCHOOL**

150 SF



**PROGRAM ACTIVITIES:**

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

**SPATIAL RELATIONSHIPS:**

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

**ENVIRONMENTAL CONSIDERATIONS:**

N/A

CAPACITY: N/A  
 SIZE: 150 - 200 SF

**NOTES:**

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

**ADMINISTRATIVE STORAGE  
CT-AD-9**
**CHAPTER 6: CAREER-TECHNICAL SCHOOL**

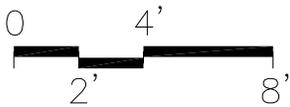
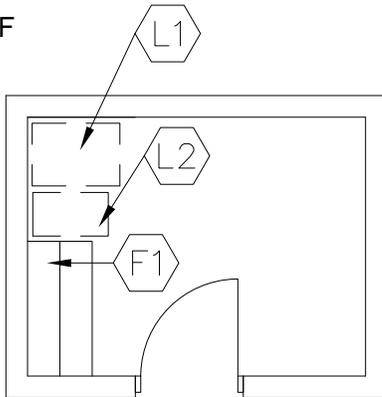
<u>FINISHES<sup>1</sup>:</u>	Spec. Ref.#	<u>FEATURES<sup>1</sup>:</u>	Spec. Ref.#
Flooring:		<u>Fixed Items:</u>	
<b>Carpet, carpet tile, linoleum, ET,</b>	096500	F1 10'-20' of open shelving	
<b>rubber, or sheet vinyl</b>	<b>096813</b>	depth may vary (fixed or loose)	123550
	<b>096816</b>	Option: mobile storage shelving	105626
	<b>096516</b>		
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:**

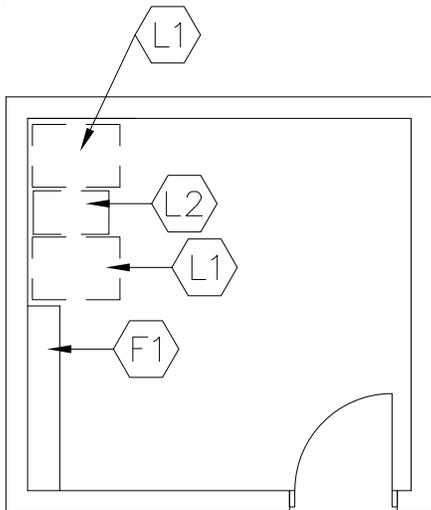
1. Finishes/Features: Refer to Chapter 9 for specification references.

**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:**

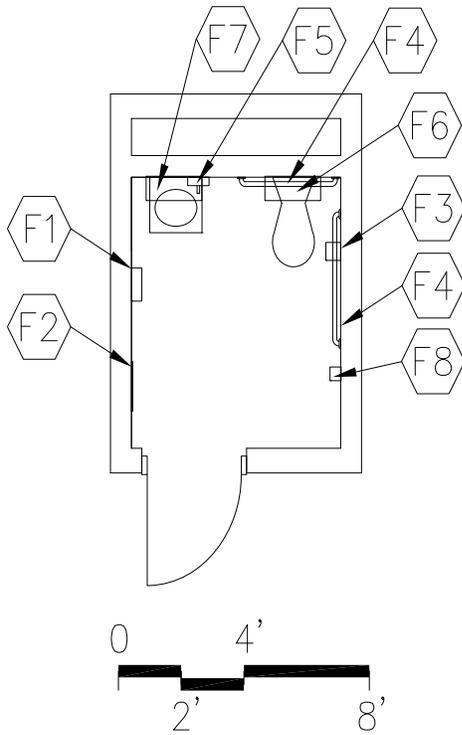
1. Loose furnishings shown represent one of many possible arrangements.

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

<u>FINISHES<sup>1</sup>:</u>	Spec. Ref.#	<u>FEATURES<sup>1</sup>:</u>	Spec. Ref.#
Flooring:		<u>Fixed Items:</u>	
Rubber, <b>carpet, carpet tile, linoleum, ET or sheet vinyl</b>	096500 <b>096813</b> <b>096816</b> <b>096516</b>	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 042000/099100		To be determined by Design Professional	
Painted gypsum wallboard 092116/099100		<u>Electrical:</u>	
Rated 2-hour construction		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**

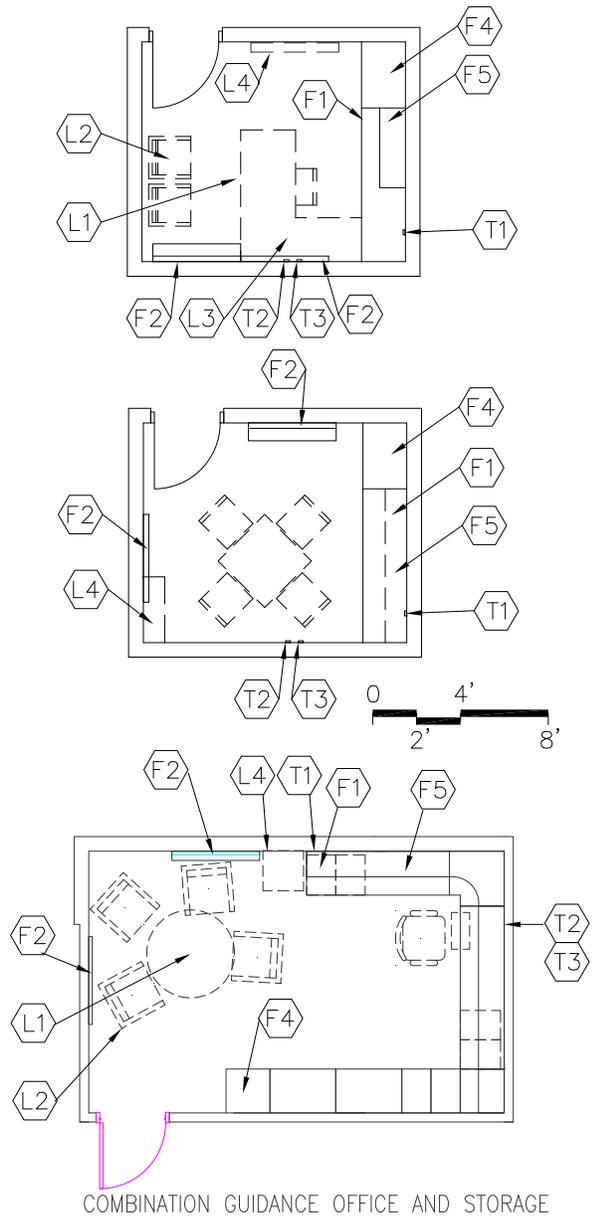
<u>FINISHES<sup>1</sup>:</u>	Spec. Ref.#	<u>FEATURES<sup>1</sup>:</u>	Spec. Ref.#
<u>Flooring:</u>		<u>Fixed Items:</u>	
ET, sheet vinyl, porcelain tile,	096516	F1 Towel dispenser	102813
ceramic mosaic tile, or	096500	F2 24" x 60" mirror	102813
resinous flooring	093000	F3 Toilet tissue holder	102813
	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**



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

**PROGRAM ACTIVITIES:**

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

**SPATIAL RELATIONSHIPS:**

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

**ENVIRONMENTAL CONSIDERATIONS:**

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

**NOTES:**

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

**GUIDANCE COUNSELOR  
CT-AD-12**
**CHAPTER 6: CAREER-TECHNICAL SCHOOL**

	Spec. Ref.#		Spec. Ref.#
<b><u>FINISHES<sup>1</sup>:</u></b>		<b><u>FEATURES<sup>1</sup>:</u></b>	
<b>Flooring:</b>		<b><u>Fixed Items:</u></b>	
Carpet or Carpet Tile	096816	F1 Work surface with file drawers	123550
	096813	F2 8'-12' combination marker board, tack board, tackable wall surface	101100
<b>Base:</b>		F3 Reserved	
Resilient base	096500	F4 Tall wardrobe	123550
<b>Ceiling:</b>		F5 Wall cabinets	123550
Suspended, acoustical	095113	<b><u>Fire Suppression:</u></b>	
<b>Walls:</b>		Fire suppression system	211000
Painted gypsum wallboard over metal studs	092116/099100	<b><u>Plumbing:</u></b>	
<b><u>LOOSE FURNISHINGS:</u></b>		N/A	
L1 Desk or table, with chair		<b><u>HVAC:</u></b>	
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) Wastebasket		<b><u>Electrical:</u></b>	
		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
		<b><u>Communications:</u></b>	
		T1 1 <b>projector</b> video port	271543
		T2 1 voice port and phone	271513/273123
		T3 1 data port near workstation	271513
		Central sound system	275123
		Clock	275313
		<b><u>Electronic Safety and Security:</u></b>	
		Life safety devices per code	283111
		<b><u>Miscellaneous:</u></b>	
		N/A	

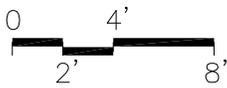
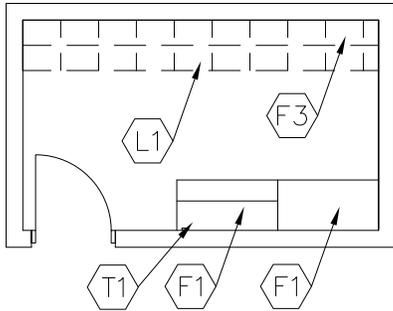
**NOTES:**

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.

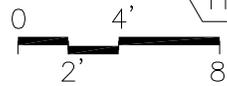
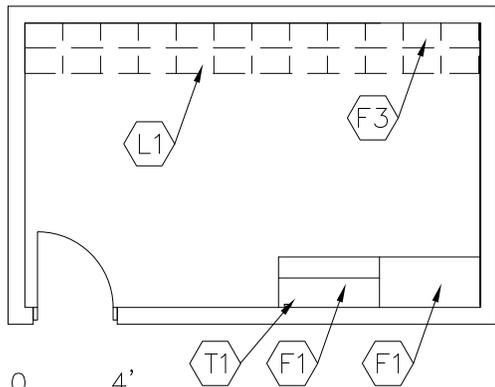
**GUIDANCE RECORDS/STORAGE  
CT-AD-13**

**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.

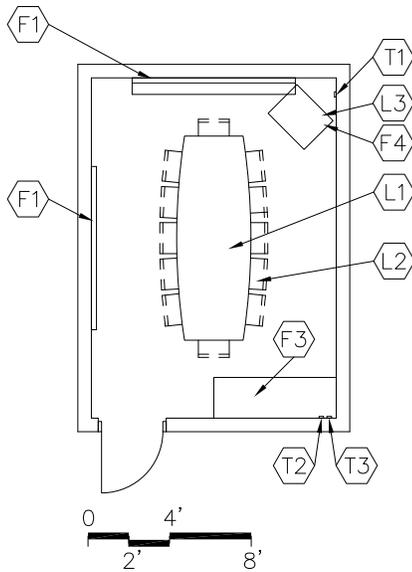
**GUIDANCE RECORDS/STORAGE  
CT-AD-13**
**CHAPTER 6: CAREER-TECHNICAL SCHOOL**

<u>FINISHES<sup>1</sup>:</u>	Spec. Ref.#	<u>FEATURES<sup>1</sup>:</u>	Spec. Ref.#
<u>Flooring:</u>		<u>Fixed Items:</u>	
Rubber, <b>carpet, carpet tile, linoleum, ET, or sheet vinyl</b>	096500 <b>096813</b> <b>096816</b> <b>096516</b>	F1 <b>6'-10' combination wall and base cabinets and tall cabinets</b>	123550
		F2 <b>Reserved</b>	
		Option: mobile storage shelving <b>or file cabinets</b>	105626
<u>Base:</u>		F3 4'-10' shelving (optional)	123550
Resilient base	096500		
<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	

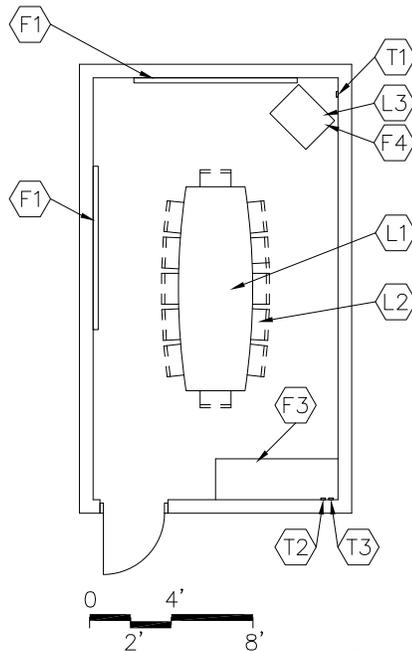
NOTES:

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**

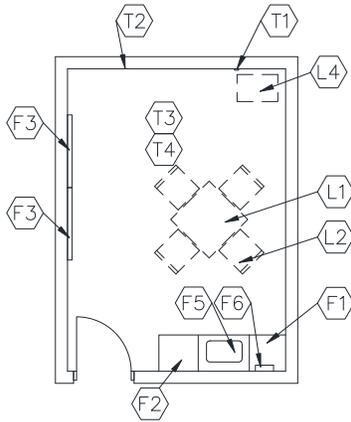
<u>FINISHES<sup>1</sup>:</u>	Spec. Ref.#	<u>FEATURES<sup>1</sup>:</u>	Spec. Ref.#
<u>Flooring:</u>		<u>Fixed Items:</u>	
Carpet or Carpet Tile	096816	F1 10'-16' combination marker board, tack board, tackable wall surface	101100
	096813		
<u>Base:</u>		F2 Reserved	
Resilient base	096500	F3 4'-6' of base cabinets	123550
		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 <b>projector</b> video port and video display device	271543/274119
		T2 1 voice port and phone	271513/273123
		T3 1 data port	271513
		Clock	275313
		Central sound system	275123
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
		<u>Miscellaneous:</u>	
		N/A	

**NOTES:**

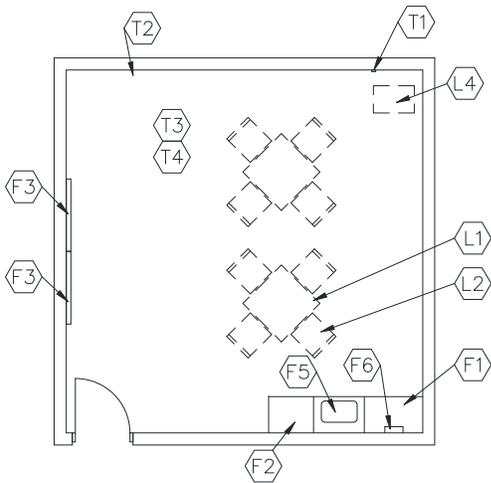
1. Finishes/Features: Refer to Chapter 9 for specification references.
2. Fixed casework and loose furnishings can be also either all fixed or all loose.

**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>FINISHES<sup>1</sup>:</u>	Spec. Ref.#	<u>FEATURES<sup>1</sup>:</u>	Spec. Ref.#
<u>Flooring:</u>			
Carpet or Carpet Tile	096816	<u>Fixed Items:</u>	
	096813	F1 About 3' of base cabinets	123550
		F2 Tall wardrobe or coat cabinet (optional)	123550
<u>Base:</u>			
Resilient base	096500	F3 8'-12' combination marker board, tack board, tackable wall surface	101100
<u>Ceiling:</u>			
Suspended, acoustical	095113	F4 Reserved	
		F5 3' sink base cabinet	123550
		F6 Towel dispenser	102813
<u>Walls:</u>			
Painted gypsum wallboard over metal studs	092116/099100	Pencil sharpener support (optional)	062000
<u>LOOSE FURNISHINGS:</u>			
L1 Table		<u>Fire Suppression:</u>	
L2 Chairs		Fire suppression system	211000
<b>L3 Reserved</b>		<u>Plumbing:</u>	
L4 Monitor cart		Sink	224000
Wastebasket		Plumbing connections	224000/221116/221119
		<u>HVAC:</u>	
		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>Miscellaneous:</u>			
Pencil sharpener (optional)		<u>Communications:</u>	
		<b>T1 Reserved</b>	
		<b>T2 voice port with phone</b>	271513/273123
		<b>T3 Wireless access point cable above ceiling</b>	271513
		<b>T4 Wireless access point (WAP) as determined by design – refer to note 2</b>	271533
		Clock	275313
		Central sound system	275123
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111

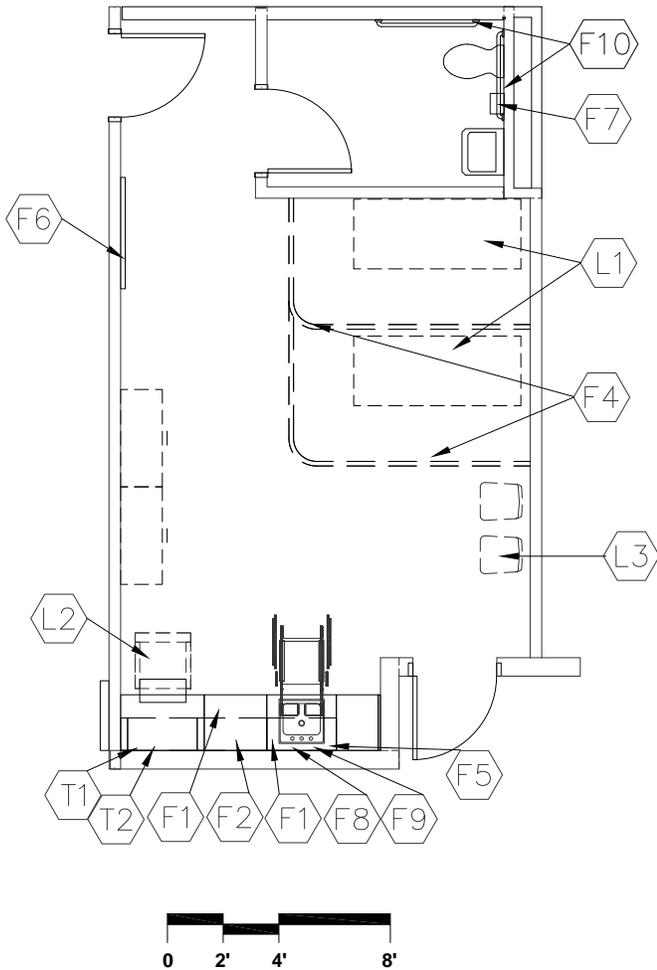
**NOTES:**

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

**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

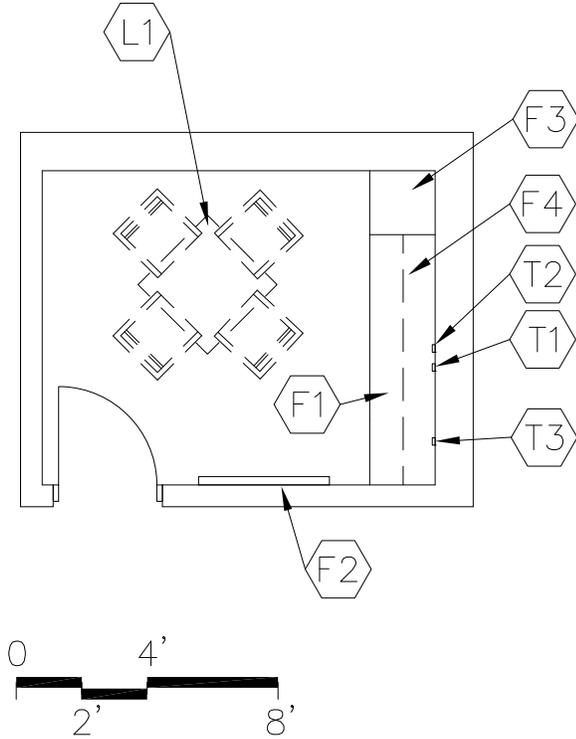
<u>FINISHES</u> <sup>1</sup> :	Spec. Ref.#	<u>FEATURES</u> <sup>1</sup> :	Spec. Ref.#
Flooring:		<u>Fixed Items:</u>	
<b><u>Clinic:</u></b> Linoleum,	096516	F1 <b>8'-1' combination base and wall</b>	
ET, sheet vinyl, or	096500	<b>cabinets, lockable</b>	123550
resinous flooring	096723	F2 3' sink base cabinet	123550
<b><u>Restroom:</u></b> <i>ET, sheet vinyl,</i>	<b>093000</b>	F3 <b>Reserved</b>	
<b>Resinous flooring, ceramic</b>		F4 Cubicle curtain and track	102123
<b>Mosaic tile, or porcelain tile</b>		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 control	230923
<u>EQUIPMENT</u>		Exhaust directly to exterior	
E1 Refrigerator with ice making capabilities		<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/ <b>273123</b>
		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.

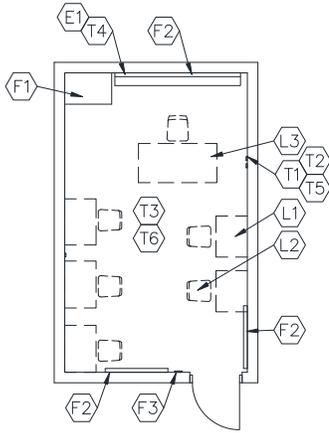
**ITINERANT PERSONNEL  
CT-AD-17**
**CHAPTER 6: CAREER-TECHNICAL SCHOOL**

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

**NOTES:**

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

200 SF



**PROGRAM ACTIVITIES:**

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

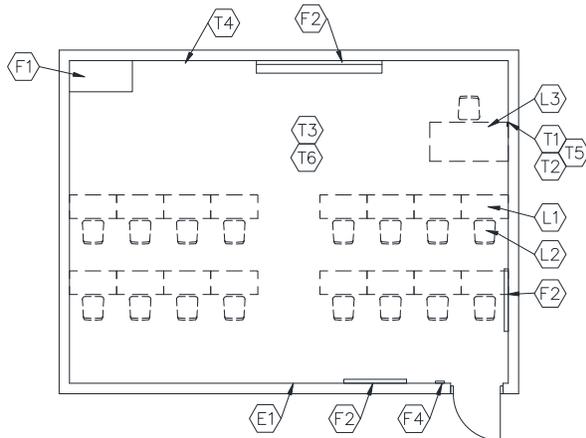
**SPATIAL RELATIONSHIPS:**

- Near principal's office
- Near secretarial area

**ENVIRONMENTAL CONSIDERATIONS:**

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

400 SF



**CAPACITY:**  
**SIZE:**

5 - 8 students  
200 - 400 SF

**NOTES:**

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

**IN-SCHOOL SUSPENSION  
CT-AD-18**
**CHAPTER 6: CAREER-TECHNICAL SCHOOL**

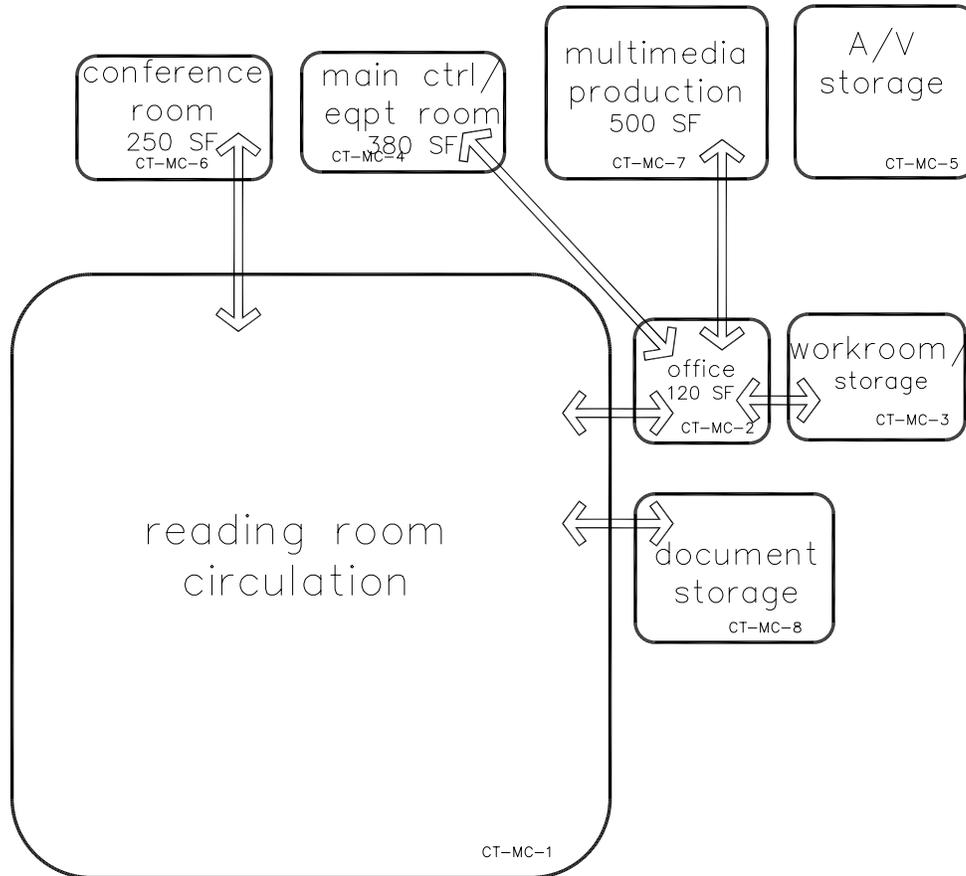
<u>FINISHES<sup>1</sup>:</u>	Spec. Ref.#	<u>FEATURES<sup>1</sup>:</u>	Spec. Ref.#
<b>Fixed Items:</b>			
Flooring:		F1 3'-4' of base cabinets (optional)	123550
Carpet, carpet tile, ET, linoleum, sheet vinyl, or rubber	096816 096500 096516 096813	F2 10'-16' combination marker board, tack board, tackable wall surface	101100
Base:		F3 Reserved	
Resilient base	096500	F4 Pencil sharpener support (optional)	062000
Ceiling:		<b>Fire Suppression:</b>	
Suspended, acoustical	095113	Fire suppression system	211000
Walls:		<b>Plumbing:</b>	
<b>Paint</b>	092113	N/A	
<b>LOOSE FURNISHINGS:</b>			
L1 Student carrels and/or desks		<b>HVAC:</b>	
L2 Student chairs		Supply/return air system	Div. 23
L3 Teacher workstation and chair		Independent temperature control	230923
<b>L4 Reserved</b>		<b>Electrical:</b>	
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
		<b>Communications:</b>	
Electronic Safety and Security:		T1 1 voice port and phone	271513/273123
Life safety devices per code	283111	T2 1 data port near teacher workstation	271513
Miscellaneous:		T3 Wireless access point cable above ceiling	271513
Pencil sharpener (optional)		T4 1 projector video port	271543
		Clock	275313
E1 Duplex receptacle with dedicated circuit for wireless devices		Central sound system	275123
		T5 Classroom technology center video port 271543, 274116, 274119, 275127	
		T6 Wireless access point (WAP) as determined by Design – refer to Note 2	272133

**NOTES:**

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

## MEDIA CENTER SPACES CT-MC

### CHAPTER 6: CAREER-TECHNICAL SCHOOL



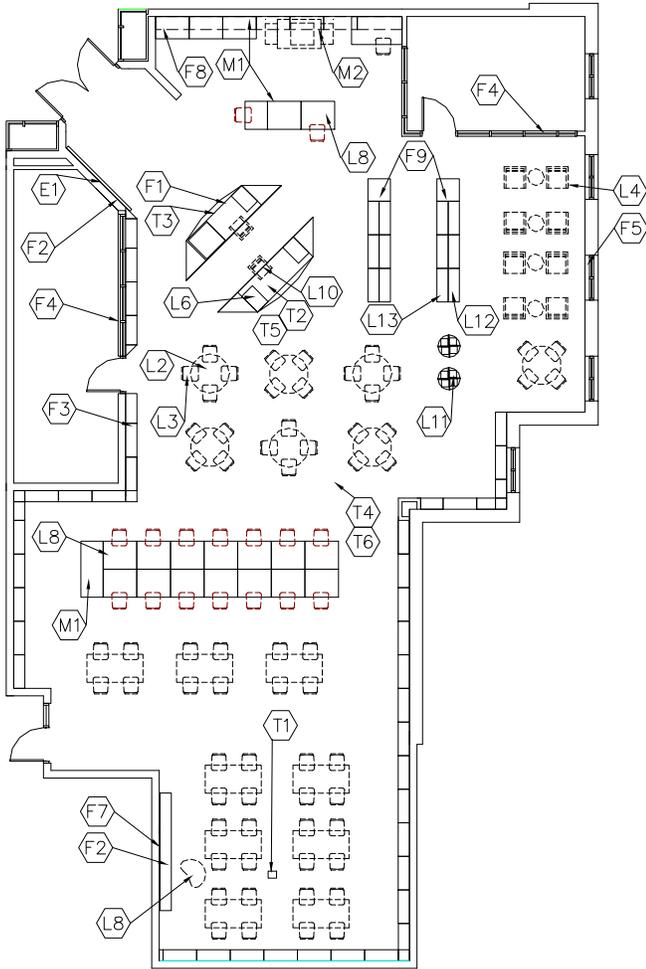
#### NOTE:

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.

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

## CHAPTER 6: CAREER-TECHNICAL SCHOOL

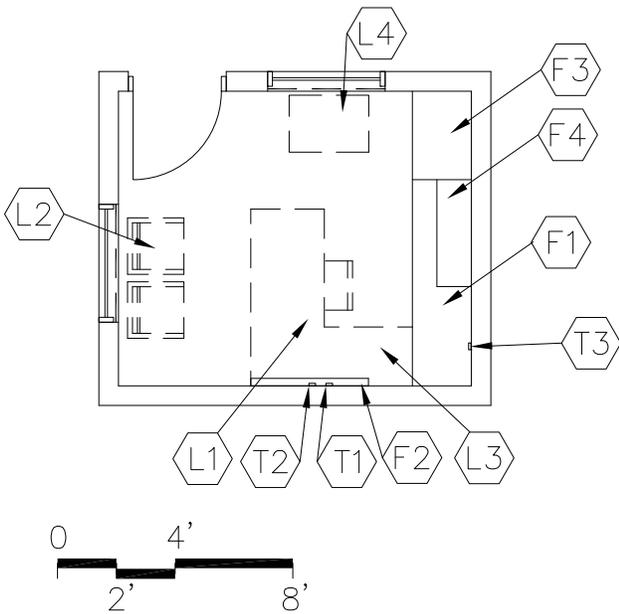
	Spec. Ref.#		Spec. Ref.#
<b><u>FINISHES<sup>1</sup>:</u></b>		<b><u>FEATURES<sup>1</sup>:</u></b>	
<b>Flooring:</b>		<b>Fixed Items:</b>	
Carpet or Carpet Tile	096816 096813	F1 Circulation desk casework	123550
<b>Base:</b>		F2 12'-20' combination marker board, tack board, tackable wall surface	101100
Resilient base	096500	F3 Library book shelving (see notes)	115123
<b>Ceiling:</b>		F4 Interior windows	081113/088000
Suspended, acoustical	095113	F5 Windows with integral blinds or shades	085113
<b>Walls:</b>		F6 Pencil sharpener support (optional)	062000
Painted concrete masonry units	042000/099100	<b>F7</b> Projection screen (optional)	115213
Acoustical wall treatment	098000	F8 Technology support casework	123550
		F9 Search station terminals	123550
		Roller window shades (optional)	122413
		<b>Fire Suppression:</b>	
		Fire suppression system	211000
		<b>Plumbing:</b>	
		N/A	
<b><u>LOOSE FURNISHINGS<sup>2</sup>:</u></b>		<b>HVAC:</b>	
L1 Mobile book carts		Supply/return air system	Div. 23
L2 Student tables		Independent temperature control	230923
L3 Student chairs		<b>Electrical:</b>	
L4 Casual seating chairs		Fluorescent lighting:	265100
L5 Study carrels (optional)		Illumination level: See Table 8600-5	
L6 (3) Desk height file cabinets		Multilevel switching	262726
L7 Atlas stand (optional)		10 duplex receptacles	262726
L8 Computer workstation furniture		Double duplex receptacle adjacent to each data and video port	262726
L9 Dictionary stand (optional)		Emergency lighting per code	265100
L10 Circulation desk task chair		Means of egress lighting per code	265100
L11 Paperback book racks		<b>Communications:</b>	
L12 Newspaper racks		T1 1 <b>projector</b> video port and video display device	271543/274119
L13 Magazine display		T2 1 voice port and phone at circulation desk	271513/273123
Wastebaskets		T3 2 data ports for media center automation system	271513
<b>Electronic Safety and Security:</b>		T4 <b>Wireless access point cable above ceiling</b>	271513
Life safety devices per code	283111	Clock	275313
<b>Miscellaneous:</b>		Central sound system	275123
Pencil sharpener (optional)		T5 <b>Classroom technology center video port</b>	271543, 274116, 274119, 275127
The following items are to be funded by the owner:		T6 <b>Wireless access point (WAP) as determined by Design – refer to Note 6.</b>	272133
M1 2 printers: 1 at circulation desk and 1 in student work area			
M2 Copier			
<b>E1 Duplex receptacle with dedicated circuit for wireless devices</b>			

**NOTES:**

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

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

**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>FINISHES<sup>1</sup>:</u>	Spec. Ref.#	<u>FEATURES<sup>1</sup>:</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 <b>projector</b> video port	271543
		Central sound system	275123
		Clock	275313
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
		<u>Miscellaneous:</u>	
		Interior window	081113/088000

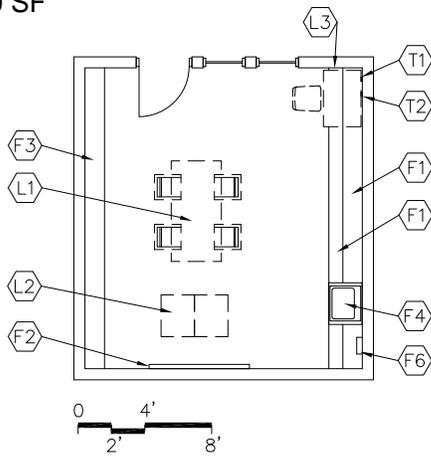
**NOTES:**

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

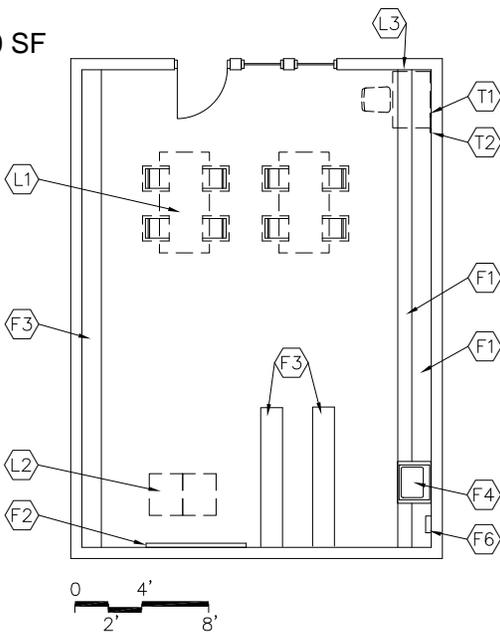
**WORKROOM/STORAGE  
CT-MC-3**

**CHAPTER 6: CAREER-TECHNICAL SCHOOL**

300 SF



500 SF



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

**PROGRAM ACTIVITIES:**

- Space for receiving, processing, and repairing media material

**SPATIAL RELATIONSHIPS:**

- Near reading room/circulation
- Near media specialist office

**ENVIRONMENTAL CONSIDERATIONS:**

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

**NOTES:**

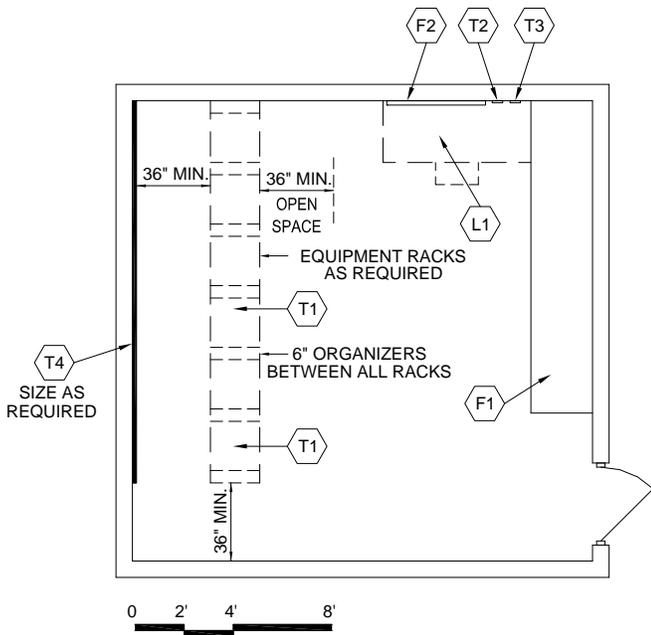
1. Loose furnishings shown represent one of many possible arrangements.

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

<u>FINISHES<sup>1</sup>:</u>	Spec. Ref.#	<u>FEATURES<sup>1</sup>:</u>	Spec. Ref.#
<u>Flooring:</u>		<u>Fixed Items<sup>2</sup>:</u>	
<b>Linoleum</b> , rubber, <i>ET or sheet</i>	096500	F1 <b>26'-50' combination base, wall</b>	123550
<b>Vinyl</b>	<b>096516</b>	<b>and tall cabinets</b>	
<b>Option: Carpet, carpet tile</b>	<b>096813</b>	F2 4'-8' of tack board <b>or marker board</b>	101100
	<b>096816</b>	F3 16'-60' of bookcases	123550
		F4 3' sink base cabinet	123550
<u>Base:</u>		F5 <b>Reserved</b>	
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/ <b>273123</b>
		T2 1 data port	271513
		Clock	275313
		Central sound system	275123
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
		<u>Miscellaneous:</u>	
		Interior window	081113/088000

**NOTES:**

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



**PROGRAM ACTIVITIES:**

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

**SPATIAL RELATIONSHIPS:**

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

**ENVIRONMENTAL CONSIDERATIONS:**

- Ventilation and cooling of heat-generating electronic equipment

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

CAPACITY: N/A  
 SIZE: **(Baseline) (Minimum)** 300 - 400 SF

**ER Utilized for local serving zone – add minimum 80 SF**

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

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

NOTES:

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

**MAIN CONTROL / EQUIPMENT ROOM  
CT-MC-4**
**CHAPTER 6: CAREER-TECHNICAL SCHOOL**

<u>FINISHES<sup>1</sup>:</u>	Spec. Ref.#	<u>FEATURES<sup>1</sup>:</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	101100
Resilient base	096500	<u>Fire Suppression:</u>	
Ceiling:		Fire suppression system	211000
Suspended, acoustical	095113	<u>Plumbing:</u>	
Walls:		N/A	
Painted concrete masonry units	042000/099100	<u>HVAC:</u>	
<u>LOOSE FURNISHINGS:</u>		Independent, packaged system	Div. 23
L1 Desk and chair		<u>Electrical:</u>	
Wastebasket		Single level switching	262726
		Fluorescent lighting	265100
		Illumination level: See Table 8600-5	
		3 duplex receptacles	262726
		Duplex receptacle for electronic systems	262726
		Telecommunications Grounding	
		270526/260526	
		Standby Power	263213/263600
		<u>Communications:</u>	
		T1 Technology Equipment	
		Central sound system	275123
		Telephone wiring	271313/271513
		Integrated telephone system	273123
		Video wiring	271543
		Digital on demand delivery system	274125
		Local area network wiring	271513/271323
		Local area network electronics	272100/272133
		Grounding & Infrastructure Equipment	
		270526/271100	
		T2 1 voice port and phone	271513/273123
		T3 1 data port near workstation	271513
		T4 3/4" plywood back board	271313
		<u>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.	

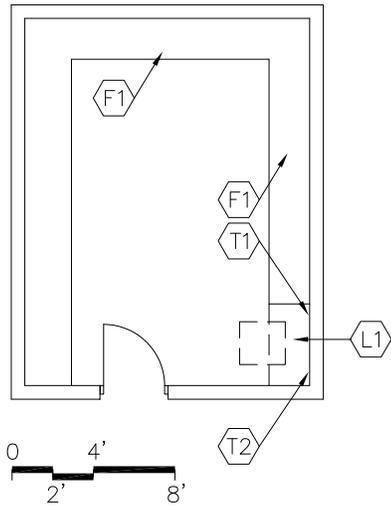
**NOTES:**

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

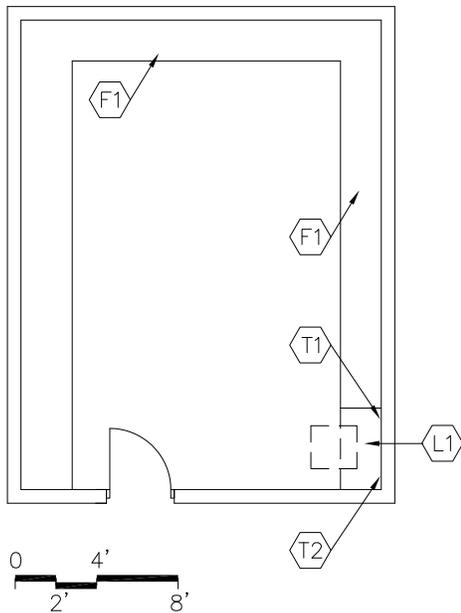
**SPATIAL RELATIONSHIPS:**

- Near media specialist office
- Near workroom/storage

**ENVIRONMENTAL CONSIDERATIONS:**

N/A

350 SF



**CAPACITY:**

N/A

**SIZE:**

250 - 350 SF

**NOTES:**

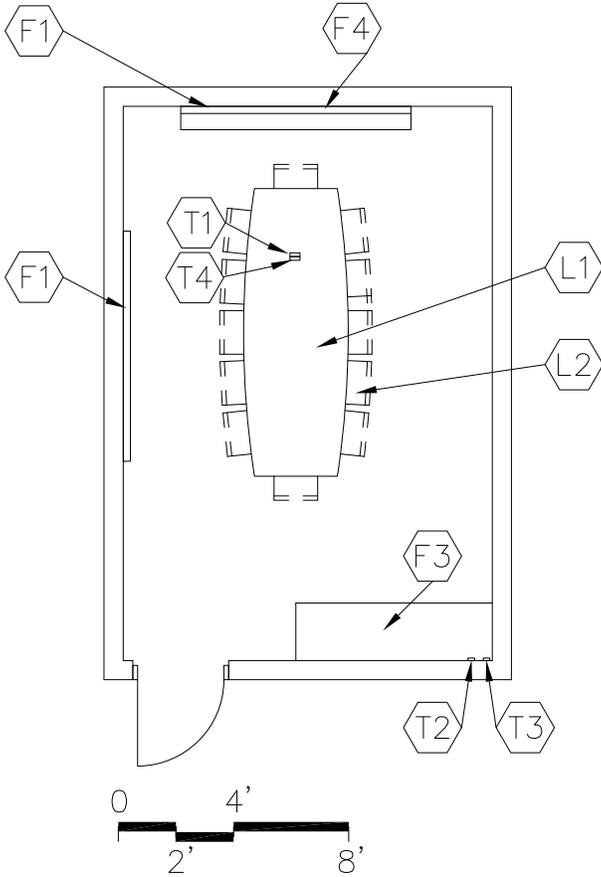
**A/V STORAGE  
CT-MC-5**

CHAPTER 6: CAREER-TECHNICAL SCHOOL

<u>FINISHES<sup>1</sup>:</u>	Spec. Ref.#	<u>FEATURES<sup>1</sup>:</u>	Spec. Ref.#
Flooring:		<u>Fixed Items<sup>3</sup>:</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/ <b>273123</b>
		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>FINISHES<sup>1</sup>:</u>	Spec. Ref.#	<u>FEATURES<sup>1</sup>:</u>	Spec. Ref.#
<u>Flooring:</u>		<u>Fixed Items<sup>2</sup>:</u>	
Carpet or Carpet Tile	096816	F1 14'-18' combination 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 <b>projector</b> video port	271543
		T2 1 voice port and phone	271513/273123
		T3 1 data port	271513
		T4 <b>Ultra-short throw interactive</b> 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	

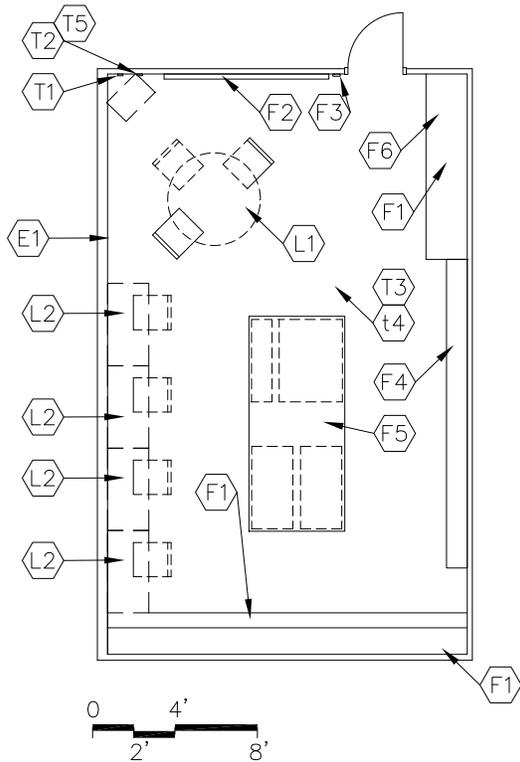
**NOTES:**

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

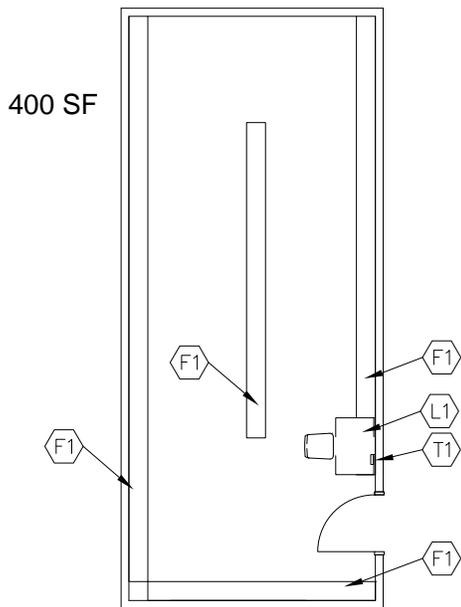
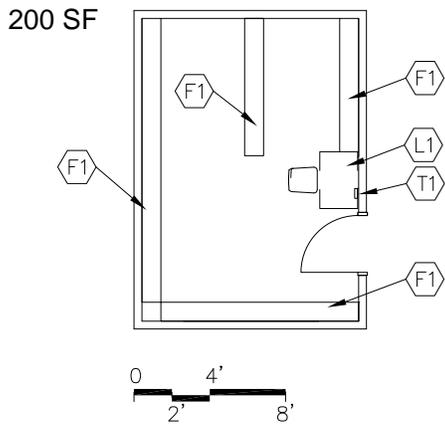
<u>FINISHES<sup>1</sup>:</u>	Spec. Ref.#	<u>FEATURES<sup>1</sup>:</u>	Spec. Ref.#
Flooring:		<u>Fixed Items<sup>2</sup>:</u>	
Linoleum,	096500	F1 15'-45' combination base, wall and	
ET, sheet vinyl, or rubber	096516	tall cabinets	123550
Base:		F2 4'-8' of tack board or marker board	101100
Resilient base	096500	F3 Pencil sharpener support (optional)	062000
Ceiling:		F4 4' - 16' of tall bookcases	123550
Suspended, acoustical	095113	<b>F5</b> Work surface	123550
Walls:		<b>F6</b> Technology support casework	123550
Painted concrete masonry units		(if applicable)	
042000/099100		<u>Fire Suppression:</u>	
<u>LOOSE FURNISHINGS:</u>		Fire suppression system	211000
L1 Tables and chairs/stools		<u>Plumbing:</u>	
L2 Computer workstation furniture		N/A	
Wastebasket		<u>HVAC:</u>	
<u>Electronic Safety and Security:</u>		Supply/return air system	Div. 23
Life safety devices per code	283111	Independent temperature control	230923
<u>Miscellaneous:</u>		<u>Electrical:</u>	
Pencil sharpener (optional)		Multilevel switching	262726
Interior windows for supervision (optional)	081113/088000	Fluorescent lighting	265100
The following items to be provided by the		Illumination level: See Table 8600-5	
school district:		4 duplex receptacles	262726
Copier, scanner, printers, binders,		Double duplex receptacle adjacent	
laminators		to each data and video port	262726
<b>E1 Duplex receptacle with dedicated</b>		<u>Communications:</u>	
<b>circuit for wireless devices</b>		T1 1 <b>projector</b> video port and video display	
		device	271543/274119
		T2 1 voice port and phone	271513/273123
		T3 <b>Wireless access point cable above</b>	
		<b>ceiling</b>	271513
		Clock	275313
		Central sound system	275123
		<b>T4 Wireless access point (WAP) as</b>	
		<b>determined by Design – refer to Note 3</b>	
		<b>272133</b>	
		<b>T5 Classroom technology center video port</b>	
		<b>271543, 274116, 274119, 275127</b>	

NOTES:

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

**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**

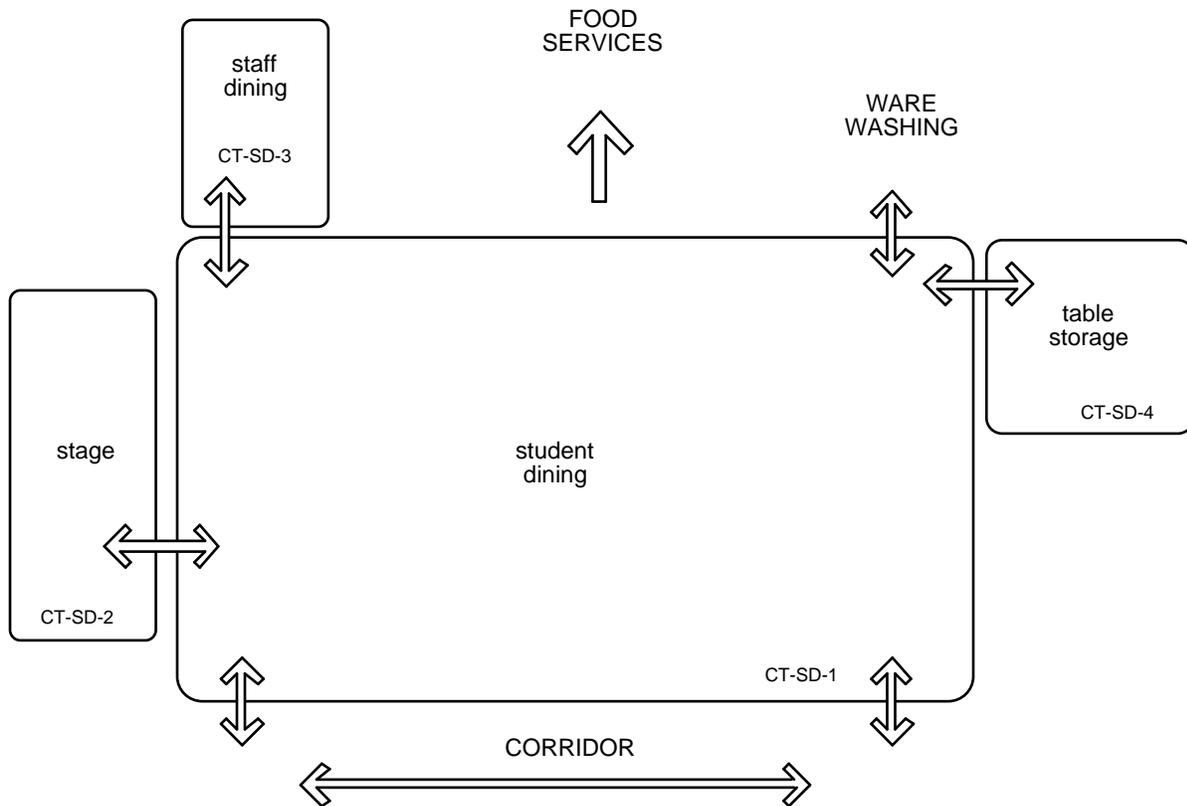
	Spec. Ref.#		Spec. Ref.#
<b><u>FINISHES<sup>1</sup>:</u></b>		<b><u>FEATURES:</u></b>	
Flooring:		<b><u>Fixed Items<sup>2</sup>:</u></b>	
Rubber, <i>linoleum, ET, or sheet vinyl flooring</i>	096500 <b>096516</b>	F1 36' – 80' of open shelving (fixed or loose)	123550
		Option: mobile storage shelving	105626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

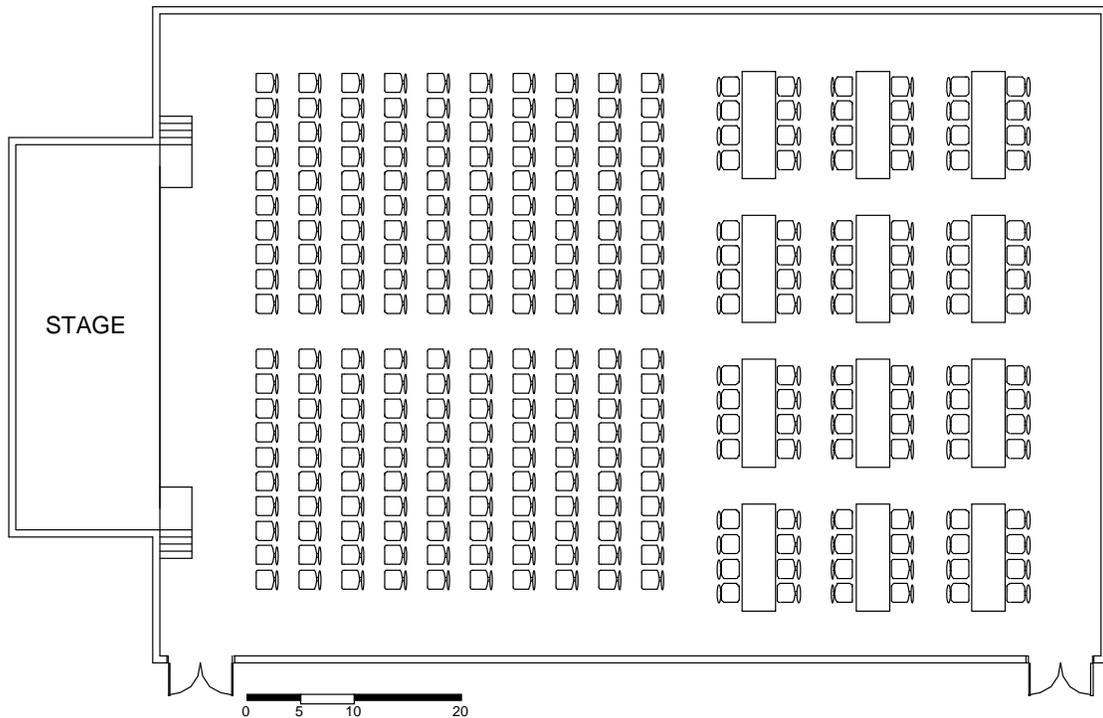
- CT-SD-1 Student Dining
- CT-SD-2 Stage
- CT-SD-3 Staff Dining
- CT-SD-4 Table Storage
- CT-SD-5 Family Restroom**

**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:**

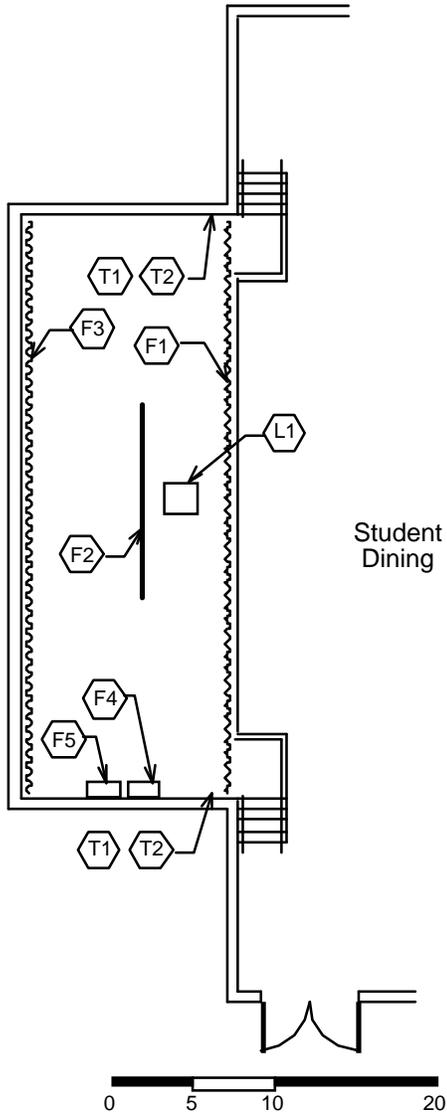
1. Loose furnishings shown represent one of many possible arrangements.

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

<u>FINISHES<sup>1</sup>:</u>	Spec. <u>Ref.#</u>	<u>FEATURES<sup>1</sup>:</u>	Spec. <u>Ref.#</u>
<b>Flooring:</b>		<b>Fixed Items:</b>	
Linoleum, rubber, ET,	096500	N/A	
sheet vinyl, porcelain tile,	096516		
resinous flooring	033519	<b>Fire Suppression:</b>	
polished concrete finishing,	033510	Fire suppression system	211000
or colored concrete finishing	096723		
<b>Base:</b>		<b>Plumbing:</b>	
Resilient base	096500	N/A	
Option: Porcelain tile base	093000	<b>HVAC:</b>	
		Supply/return air system	Div. 23
		Independent temperature control	230923
<b>Ceiling<sup>3</sup>:</b>		<b>Electrical:</b>	
Suspended, acoustical	095113	High intensity discharge lighting	265100
Painted exposed structure	099100	or fluorescent lighting	
Reflector panels	098000	Dimmable quartz lighting	265100
		illumination level: see table 8600-6	
<b>Walls:</b>		Multilevel switching with dimming	262726
Painted concrete masonry units	042000/099100	6 duplex receptacles	262726
Diffusing block on 2 walls		Double duplex receptacle adjacent to	
(minimum) or	042000	each data and video port	262726
Acoustic treatment	098000	Emergency lighting per code	265100
(varies with geometry of room)		Means of egress lighting per code	265100
		Telecommunications Grounding	270526/260526
<b>LOOSE FURNISHINGS:</b>		<b>Communications:</b>	
L1 Tables		T1 2 voice ports	271513/273123
L2 Folding or high-density stack chairs		T2 2 <b>projector</b> video ports	271543
for large assembly use		T3 2 data ports (minimum)	271513
Waste receptacles		Clocks	275313
Recycling bins		Central sound system	275123
Carts for chairs		Student dining/auditeria sound system	275121
		T4 <b>Ultra-short throw interactive</b> projector	274119
Note: Cafeteria tables with attached stools shall be securely anchored to walls when not in use, or be kept in a secure storage area when not in use.		<b>Electronic Safety and Security:</b>	
		Life safety devices per code	283111
		<b>Miscellaneous:</b>	
		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.



Student Dining

**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**

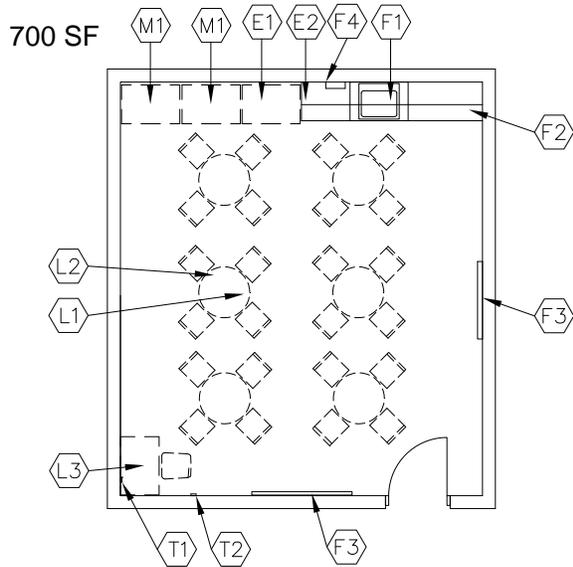
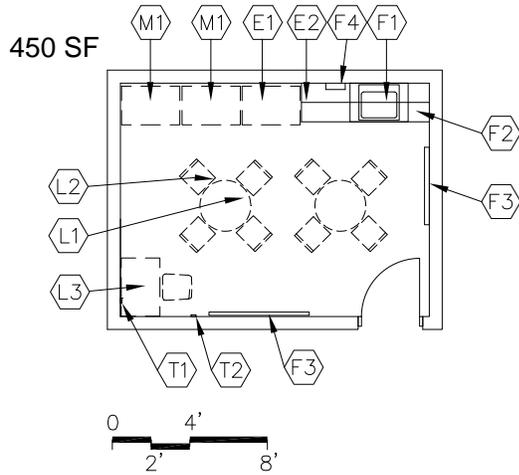
<u>FINISHES</u> <sup>1</sup> :	Spec. Ref.#	<u>FEATURES</u> <sup>1</sup> :	Spec. Ref.#
<u>Flooring:</u>		<u>Fixed Items:</u>	
Stage: Softwood or combination hardwood and softwood	096400	F1 Front curtain, track, and valance	116143
Stairs: Carpet, rubber, wood, or carpet tile	096816 096813	F2 Projection 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 <b>projector</b> video ports	271543
		T2 2 data ports	271513
		Student dining/auditeria sound system <sup>2</sup>	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**



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

**PROGRAM ACTIVITIES:**

- Space for staff dining

**SPATIAL RELATIONSHIPS:**

- Near student dining
- Near food services

**ENVIRONMENTAL CONSIDERATIONS:**

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

**NOTES:**

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

**STAFF DINING**  
**CT-SD-3**

## CHAPTER 6: CAREER-TECHNICAL SCHOOL

<u>FINISHES<sup>1</sup>:</u>	Spec. Ref.#	<u>FEATURES<sup>1</sup>:</u>	Spec. Ref.#
<u>Flooring:</u>		<u>Fixed Items:</u>	
Linoleum, rubber, 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 marker board,	101100
	096723	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 <b>projector</b> video port	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	

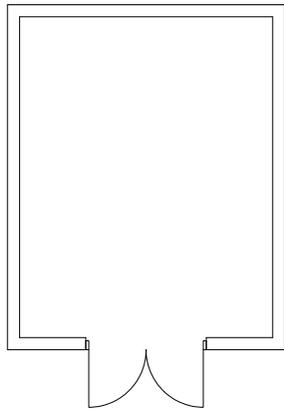
NOTES:

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

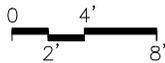
**TABLE STORAGE  
CT-SD-4**

**CHAPTER 6: CAREER-TECHNICAL SCHOOL**

400 SF



Student Dining



**PROGRAM ACTIVITIES:**

- Storage for tables and chairs

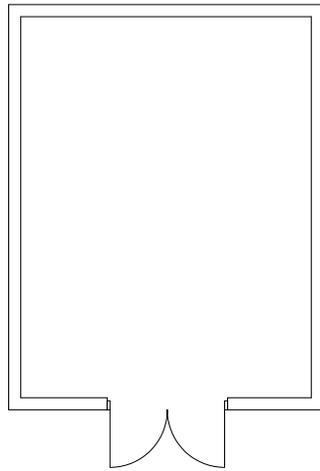
**SPATIAL RELATIONSHIPS:**

- Adjacent to student dining
- Near food services

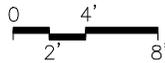
**ENVIRONMENTAL CONSIDERATIONS:**

N/A

550 SF



Student Dining



CAPACITY:

SIZE:

ANCILLARY SPACES:

N/A

400 - **700** SF

Student Dining

CT-SD-1

NOTES:

**TABLE STORAGE  
CT-SD-4**
**CHAPTER 6: CAREER-TECHNICAL SCHOOL**

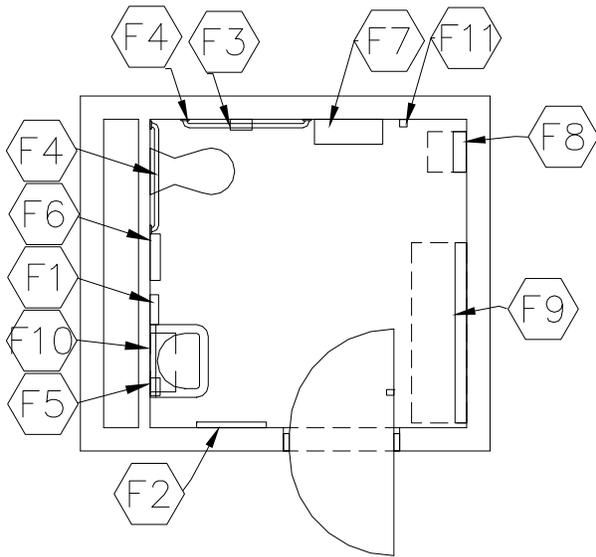
<u>FINISHES<sup>1</sup>:</u>	Spec. Ref.#	<u>FEATURES<sup>1</sup>:</u>	Spec. Ref.#
Flooring:		<u>Fixed Items:</u>	
<b>Sealed</b> concrete	093000	N/A	
Base:		<u>Fire Suppression:</u>	
No base		Fire suppression system	211000
Ceiling:		<u>Plumbing:</u>	
Exposed structure		N/A	
Option: Rated gypsum wallboard	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

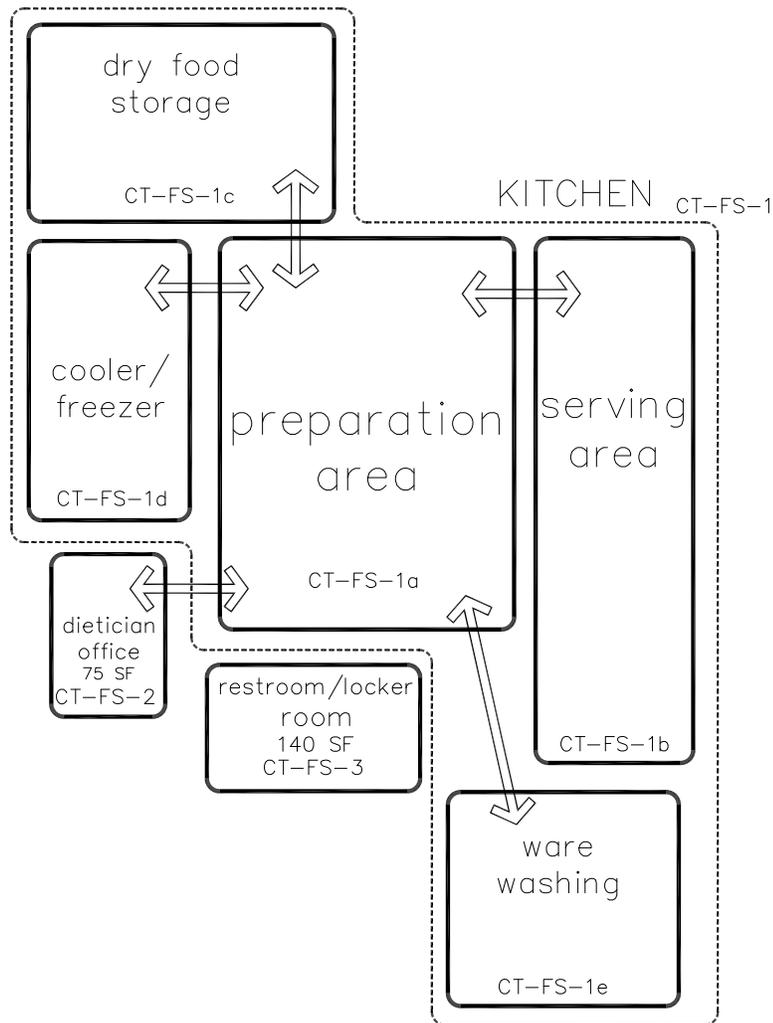
NOTES:

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

<u>FINISHES<sup>1</sup>:</u>	Spec. Ref.#	<u>FEATURES<sup>1</sup>:</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:

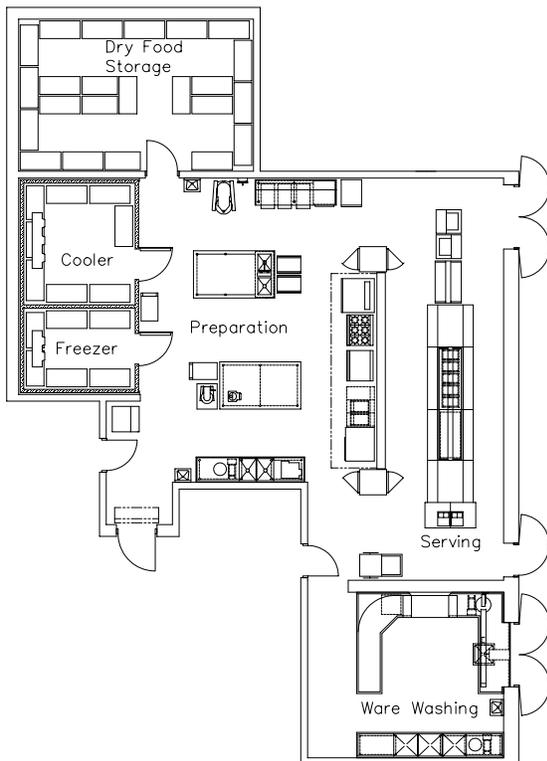
CT-FS-0	Warming Kitchen
CT-FS-1	Kitchen
CT-FS-1a	Preparation Area
CT-FS-1b	Serving Area
CT-FS-1c	Dry Food Storage
CT-FS-1d	Cooler/Freezer
CT-FS-1e	Ware Washing
CT-FS-2	Custodial Closet
CT-FS-3	Dietician Office
CT-FS-4	<b>Restroom/Locker Room</b>

**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**

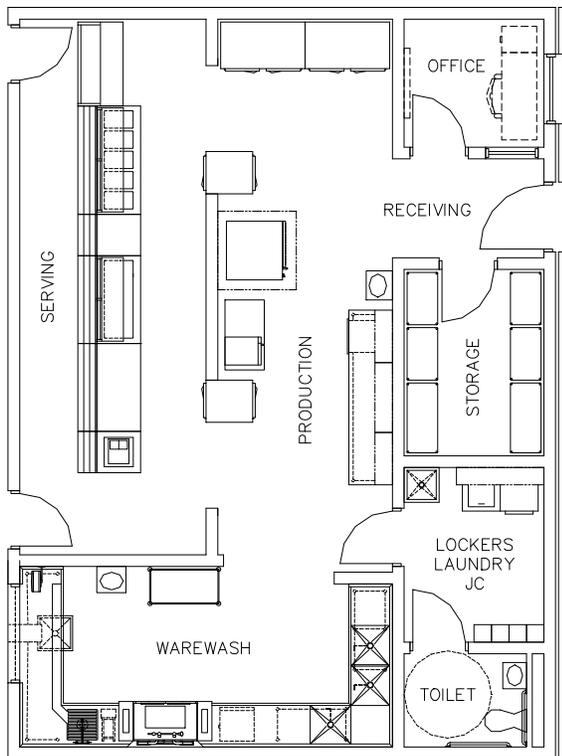
**CHAPTER 6: CAREER-TECHNICAL SCHOOL**

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

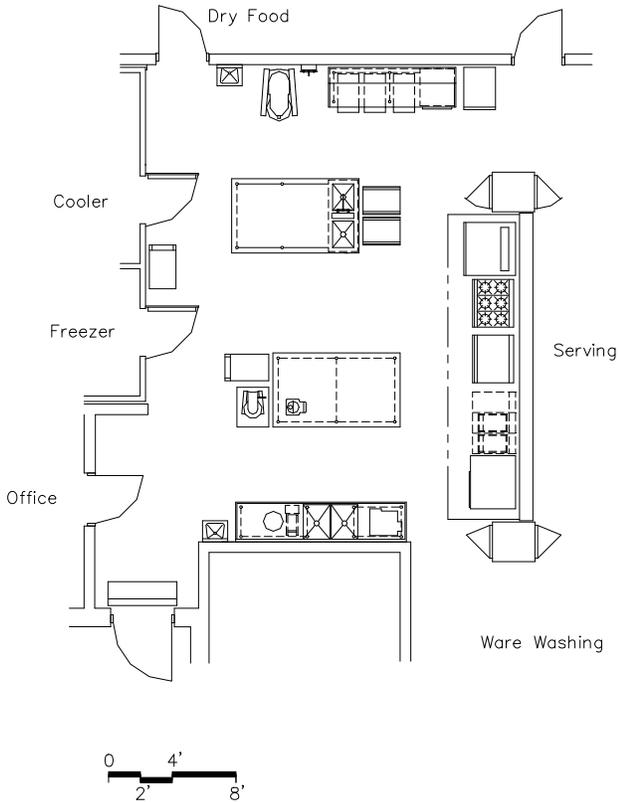
**ANCILLARY SPACES:** Student Dining CT-SD-1  
Loading/Receiving Area CT-GS-7

**NOTES:**



**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**

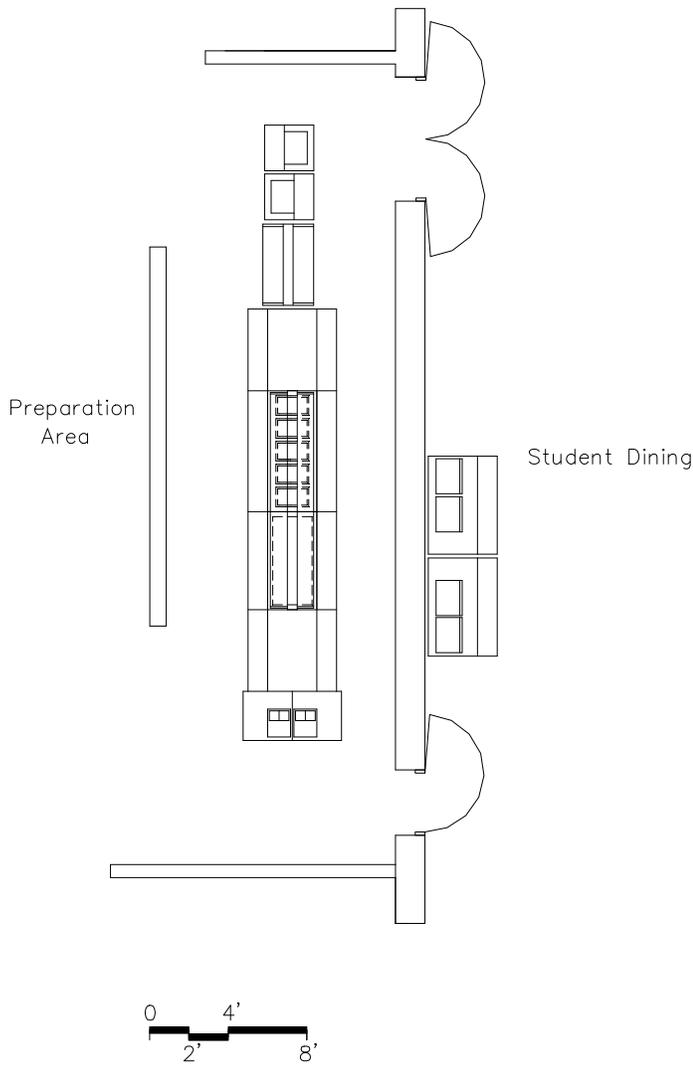
<u>FINISHES<sup>1</sup>:</u>	Spec. Ref.#	<u>FEATURES<sup>1</sup>:</u>	Spec. Ref.#
Flooring:		<u>Fixed Items:</u>	
Quarry tile <i>or</i> <b>resinous flooring</b>	093000 <b>096723</b>	Food service equipment	114000
Base:		<u>Fire Suppression:</u>	
Quarry tile base <i>or</i> <b>integral base</b>	093000	Fire 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/ <b>273123</b>
		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.

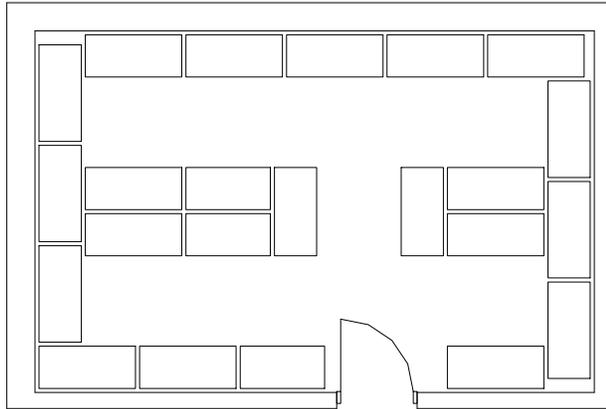
**KITCHEN - Serving Area  
CT-FS-1b**

## CHAPTER 6: CAREER-TECHNICAL SCHOOL

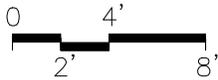
<u>FINISHES<sup>1</sup>:</u>	Spec. Ref.#	<u>FEATURES<sup>1</sup>:</u>	Spec. Ref.#
Flooring:		Fixed Equipment:	
Quarry tile	093000	Food service equipment	114000
Optional: porcelain tile <b>or</b> <b>resinous flooring</b>	<b>096723</b>	<u>Fire Suppression:</u>	
Base:		Fire suppression system	211000
Quarry tile base	093000	<u>Plumbing:</u>	
Optional: porcelain tile base <b>or</b> <b>integral</b> <b>base</b>		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/ <b>273123</b>
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
		<u>Miscellaneous:</u>	
		N/A	

NOTES:

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



Preparation Area



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

**PROGRAM ACTIVITIES:**

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

**SPATIAL RELATIONSHIPS:**

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

**ENVIRONMENTAL CONSIDERATIONS:**

- Continuous conditioning of air
- Cleanable building surfaces

**NOTES:**

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

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

## CHAPTER 6: CAREER-TECHNICAL SCHOOL

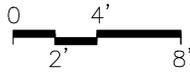
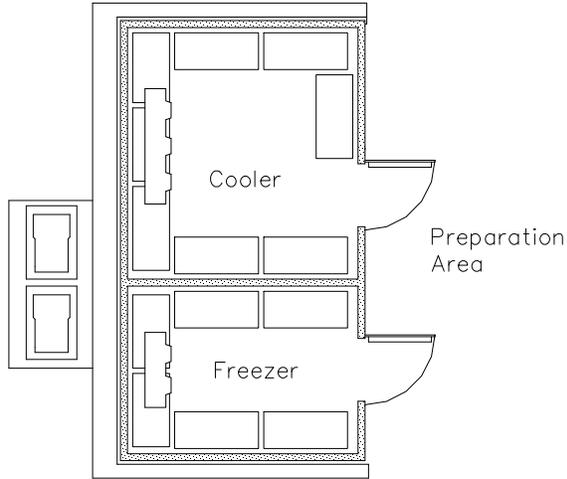
<u>FINISHES<sup>1</sup>:</u>	Spec. Ref.#	<u>FEATURES<sup>1</sup>:</u>	Spec. Ref.#
<u>Flooring:</u>		<u>Fixed Items:</u>	
Linoleum, ET, or sheet vinyl	096500	Food service equipment	114000
Option: Quarry tile <b>or</b> <b>resinous flooring</b>	093000 096516 <b>096723</b>	<u>Fire Suppression:</u>	
		Fire 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

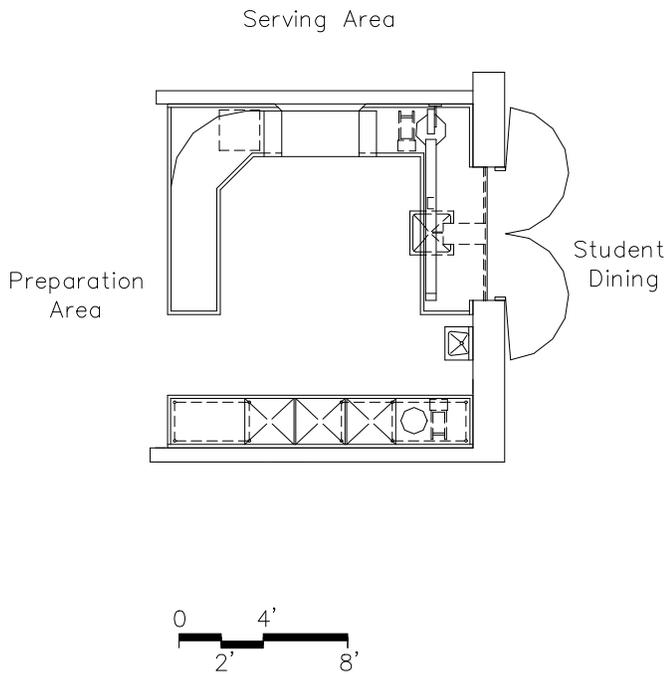
<u>FINISHES<sup>1</sup>:</u>	Spec. Ref.#	<u>FEATURES<sup>1</sup>:</u>	Spec. Ref.#
Flooring:		<u>Fixed Items:</u>	
Quarry tile or resinous flooring	093000 096723	Food service equipment	114000
Base:		<u>Fire Suppression:</u>	
Quarry tile base or integral base	093000	Fire suppression system	211000
Ceiling:		<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
		<b>Fluorescent or LED</b> 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

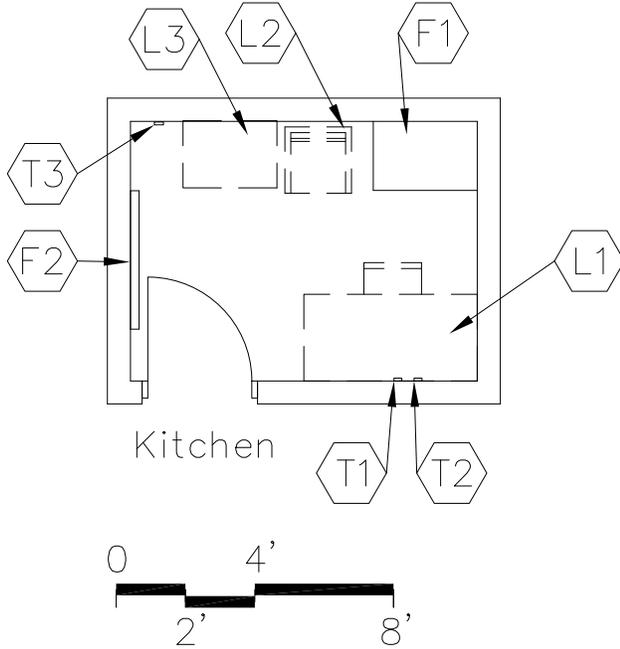
<u>FINISHES<sup>1</sup>:</u>	Spec. Ref.#	<u>FEATURES<sup>1</sup>:</u>	Spec. Ref.#
Flooring:		<u>Fixed Items:</u>	
Quarry tile <i>or resinous flooring</i>	093000 <b>096723</b>	Food service equipment	114000
Base:		<u>Fire Suppression:</u>	
Quarry tile base <i>or integral base</i>	093000	Fire suppression system	211000
Ceiling:		<u>Plumbing:</u>	
Cleanable, suspended, acoustical	095113	Lavatory	224000
Walls:		Connections to food service equipment	224000
Epoxy-painted concrete masonry units	<b>042000</b> /099100	<u>HVAC:</u>	
Option: Ceramic wall tile	093000	Supply/return air system	Div. 23
or latex paint	099100	Independent temperature control	230923
<u>LOOSE FURNISHINGS:</u>		Exhaust hood system	Div. 23
N/A		<u>Electrical:</u>	
		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**

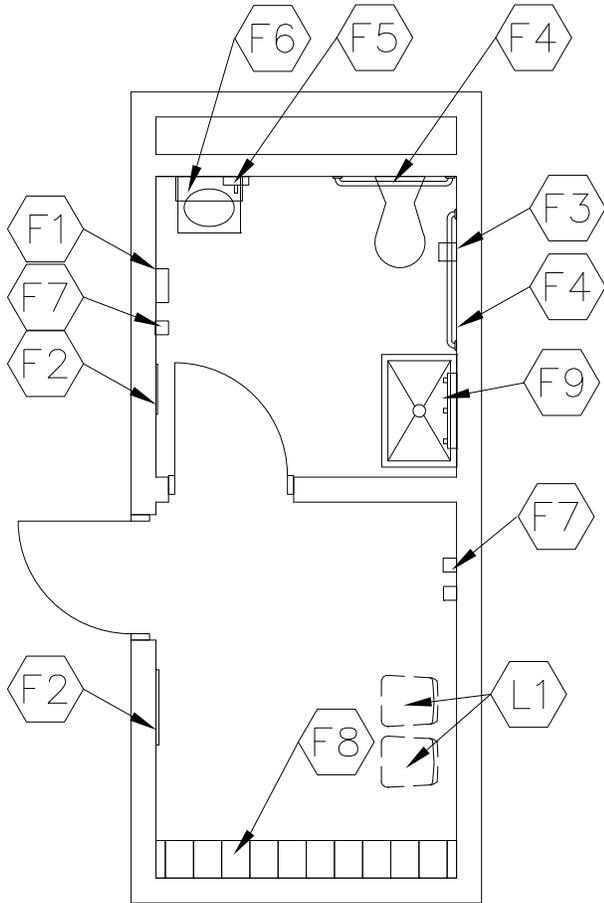
<u>FINISHES<sup>1</sup>:</u>	Spec. Ref.#	<u>FEATURES<sup>1</sup>:</u>	Spec. Ref.#
<u>Flooring:</u>			
Linoleum, ET, or sheet vinyl	096500	<u>Fixed Items:</u>	
	096516	F1 Tall wardrobe (optional)	123550
Option: Quarry tile, or resinous flooring	093000	F2 4' of tack board	101100
	096723	<u>Fire Suppression: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

**NOTES:**

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

**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

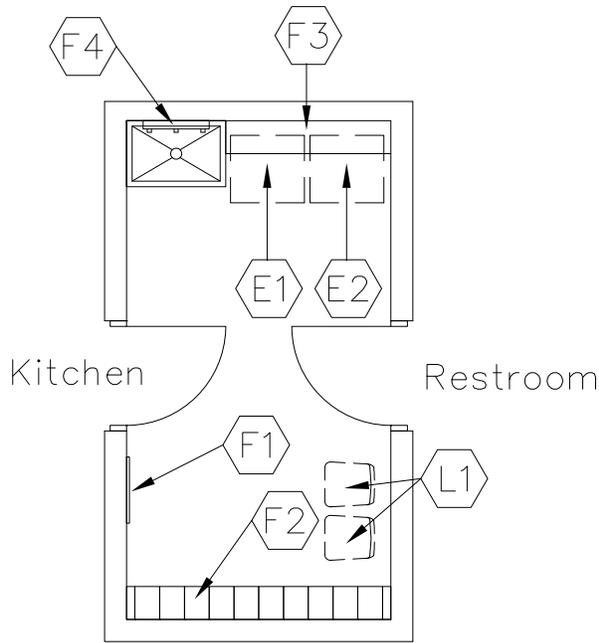
<u>FINISHES</u> <sup>1</sup> :	Spec. Ref.#	<u>FEATURES</u> <sup>1</sup> :	Spec. Ref.#
<u>Flooring:</u>		<u>Fixed Items:</u>	
ET or sheet vinyl,	096516	F1 Towel dispenser	102813
	096500	F2 2, 24" x 60" mirrors	102813
Optional: quarry tile <b>or</b> <b>resinous flooring</b>	093000 <b>096723</b>	F3 Toilet 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 <b>resinous flooring</b>	093000 <b>096723</b>	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:**

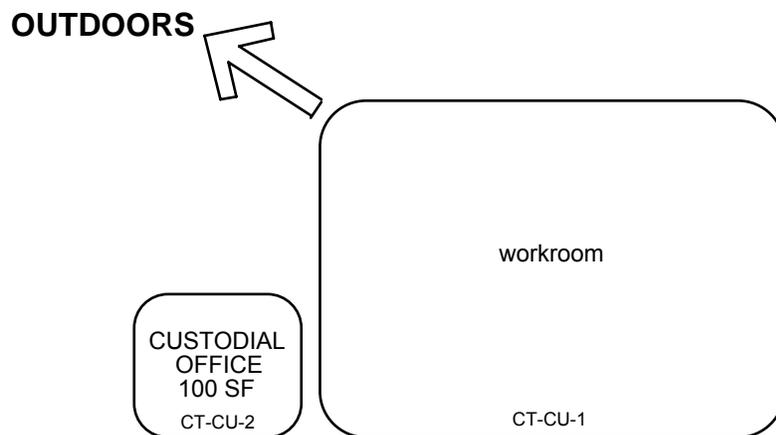
1. Loose furnishings shown represent one of many possible arrangements.

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

<u>FINISHES<sup>1</sup>:</u>	Spec. Ref.#	<u>FEATURES<sup>1</sup>:</u>	Spec. Ref.#
<u>Flooring:</u>		<u>Fixed Items:</u>	
Sheet vinyl, rubber, rubber tile, or resinous flooring	096500 096723	F1 24" x 60" mirror (optional)	102813
		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:

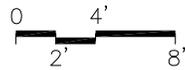
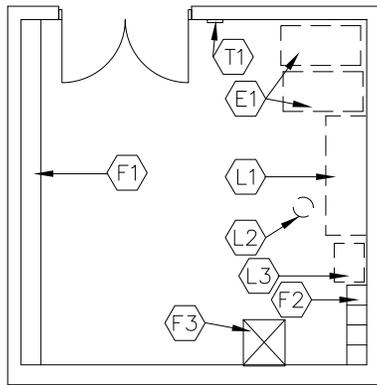
- CT-CU-1 Workroom
- CT-CU-2 Custodial Office

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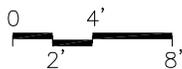
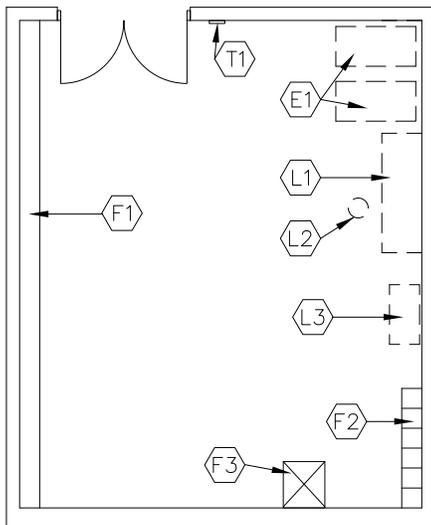
**WORKROOM  
CT-CU-1**

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**

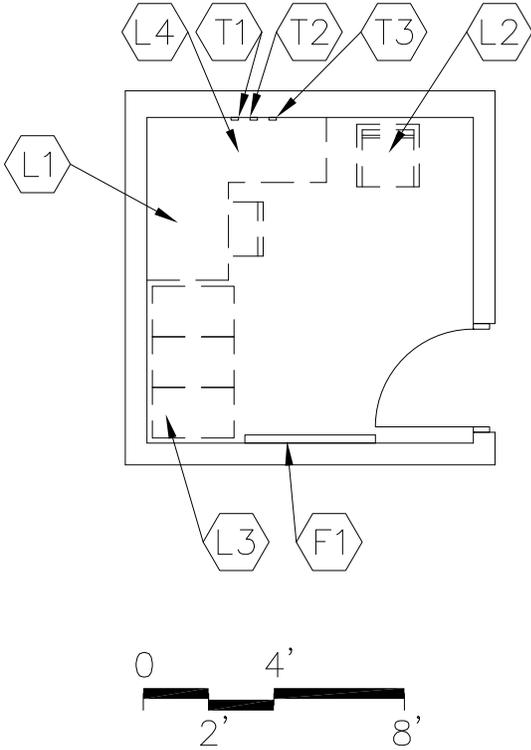
<u>FINISHES<sup>1</sup>:</u>	Spec. <u>Ref.#</u>	<u>FEATURES<sup>1</sup>:</u>	Spec. <u>Ref.#</u>
<u>Flooring:</u>		<u>Fixed Items<sup>2</sup>:</u>	
Polished concrete finishing,	033510	F1 10' - 24' of open shelving,	123550
colored concrete finishing, or	033519	depths can vary (fixed or loose)	
<b>sealed concrete</b>	<b>093000</b>	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/ <b>273123</b>
		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.#
<b><u>FINISHES<sup>1</sup>:</u></b>		<b><u>FEATURES<sup>1</sup>:</u></b>	
<b>Flooring:</b>		<b><u>Fixed Items:</u></b>	
Linoleum,	096500	F1 4' of tack board (optional)	101100
ET, sheet vinyl,	096516		
polished concrete finishing,	033510		
colored concrete finishing, or	033519	<b><u>Fire Suppression:</u></b>	
<b>resinous flooring</b>	<b>096723</b>	Fire suppression system	211000
		<b><u>Plumbing:</u></b>	
<b>Base:</b>		N/A	
Resilient base	096500		
		<b><u>HVAC:</u></b>	
<b>Ceiling:</b>		Supply/return air system	Div. 23
Suspended, acoustical	095113	Independent temperature control (coupled with similarly loaded adjacent spaces)	230923
<b>Walls:</b>			
Painted concrete masonry units	042000/099100	<b><u>Electrical:</u></b>	
		Single level switching	262726
<b><u>LOOSE FURNISHINGS:</u></b>		Fluorescent lighting	265100
L1 Desk and chair		Illumination level: See Table 8600-6	
L2 Visitor chair		4 duplex receptacles	262726
L3 File cabinets		Double duplex receptacle adjacent to data and modem port	262726
L4 Computer desk return			
Wastebasket		<b><u>Communications:</u></b>	
		T1 Modem port for temperature controls computer	271523
		T2 1 voice port and phone	271513/ <b>273123</b>
		T3 1 data port near workstation	271513
		Central sound system	275123
		Clock	275313
		<b><u>Electronic Safety and Security:</u></b>	
		Life safety devices per code	283111
		<b><u>Miscellaneous:</u></b>	
		Interior window (optional)	081113/088000

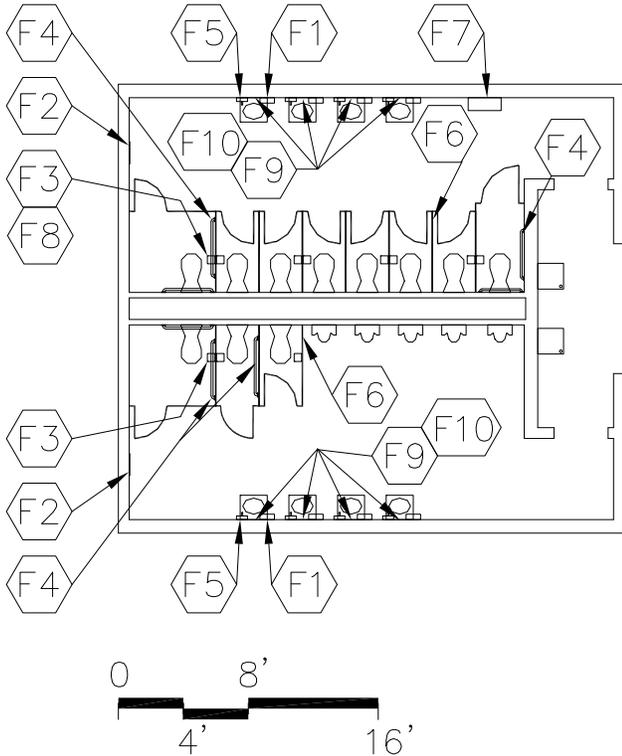
**NOTES:**

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**

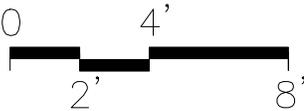
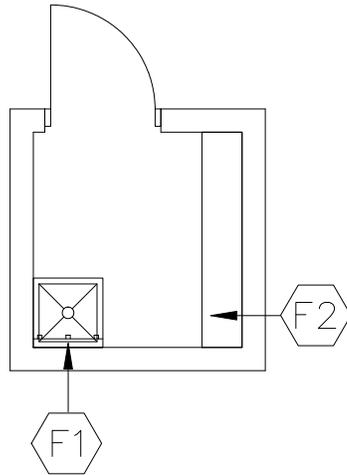
<u>FINISHES<sup>1</sup>:</u>	Spec. Ref.#	<u>FEATURES<sup>1</sup>:</u>	Spec. Ref.#
<u>Flooring:</u>		<u>Fixed Items:</u>	
Ceramic mosaic tile	093000	F1 Towel dispensers	102813
Optional: porcelain tile, rubber, resinous flooring, or <b><i>unbacked sheet vinyl with welded seams</i></b>	093000 096723 <b>096500</b>	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 <b><i>integral tile base</i></b>	096616 093000 096723 <b>096500</b>	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>	
<u>Walls:</u>		Wall-mounted water closets	224000
Painted concrete masonry unit	042000/099100	Wall-mounted urinals	224000
		Wall-mounted lavatories or wash fountains	224000
		Wall hydrants	224000
		Plumbing connections	224000/221116/221119
		Floor drains	Div. 22
		Drinking water cooler	224000
<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

**CUSTODIAL CLOSET  
CT-GS-2**

**CHAPTER 6: CAREER-TECHNICAL SCHOOL**



**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>FINISHES<sup>1</sup>:</u>	Spec. Ref.#	<u>FEATURES<sup>1</sup>:</u>	Spec. Ref.#
Flooring:		<u>Fixed Items:</u>	
<b>Sealed</b> 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	

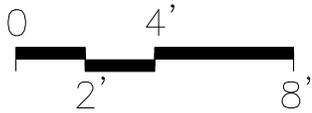
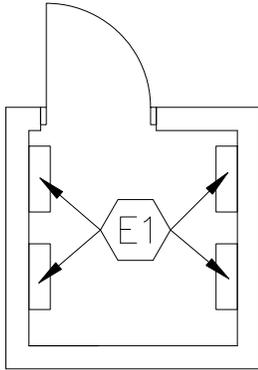
**NOTES:**

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**

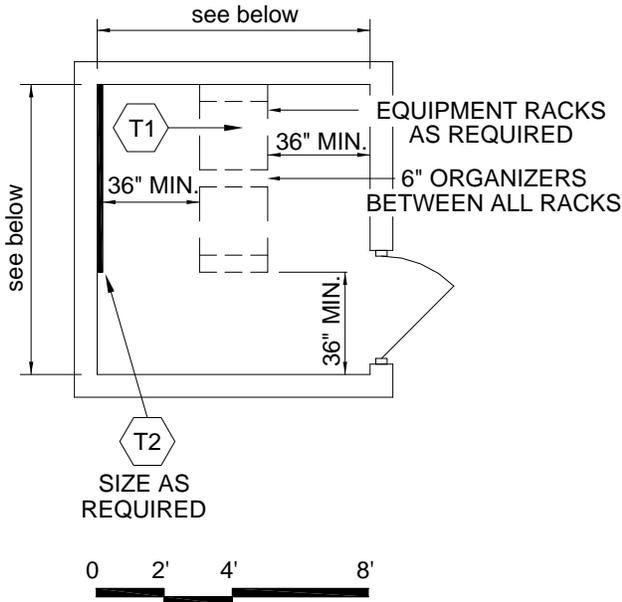
<u>FINISHES<sup>1</sup>:</u>	Spec. Ref.#	<u>FEATURES<sup>1</sup>:</u>	Spec. Ref.#
Flooring:		<u>Fixed Items:</u>	
<b>Sealed</b> concrete	033000	N/A	
Base:		<u>Fire Suppression:</u>	
No base		Fire suppression system	211000
Ceiling:		<u>Plumbing:</u>	
Exposed structure	---	N/A	
Walls:		<u>HVAC:</u>	
Unpainted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

**NOTES:**

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

**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**

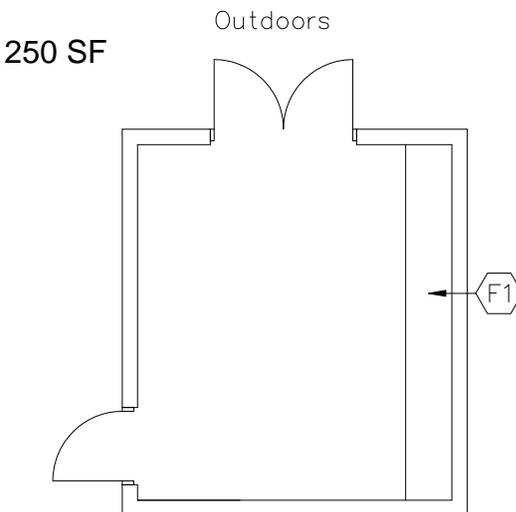
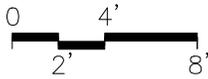
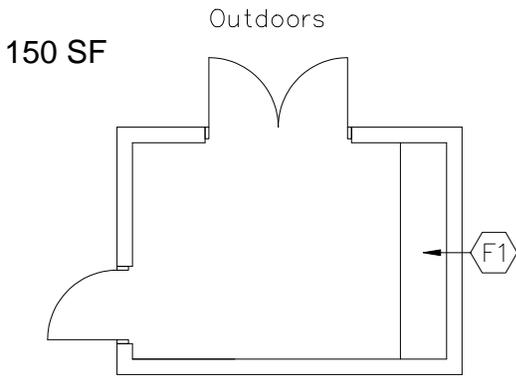
<u>FINISHES<sup>1</sup>:</u>	Spec. Ref.#	<u>FEATURES<sup>1</sup>:</u>	Spec. Ref.#
Flooring:		<u>Fixed Items:</u>	
Sealed concrete,	033000	N/A	
polished concrete finishing, or	033510		
colored concrete finishing	033519	<u>Fire Suppression:</u>	
		Fire suppression system	211000
Base:		<u>Plumbing:</u>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

**NOTES:**

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

**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**

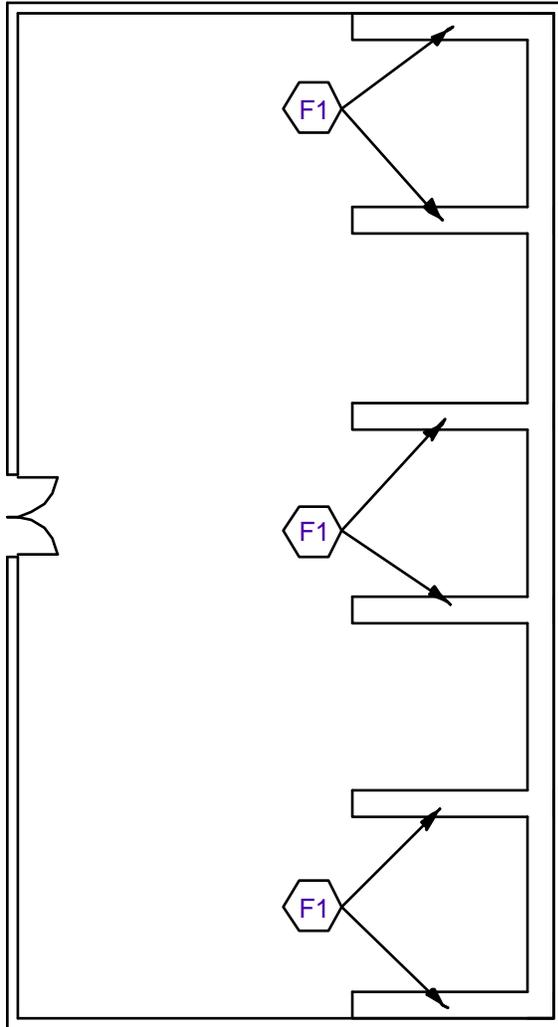
<u>FINISHES<sup>1</sup>:</u>	Spec. Ref.#	<u>FEATURES<sup>1</sup>:</u>	Spec. Ref.#
Flooring:		<u>Fixed Items<sup>2</sup>:</u>	
<b>Sealed</b> concrete	033000	F1 8'-20' of open shelving , depths may vary (fixed or loose)	123550
Base:		<u>Fire Suppression:</u>	
No base		Fire suppression system	211000
Ceiling:		<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



**PROGRAM ACTIVITIES:**

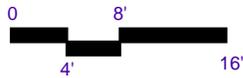
- Storage for paper products, utensils, supplies, etc., to be used throughout the entire building

**SPATIAL RELATIONSHIPS:**

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

**ENVIRONMENTAL CONSIDERATIONS:**

N/A



CAPACITY: N/A  
 SIZE: 1000 - 1667 SF

NOTES:

**CENTRAL STORAGE / DISTRIBUTION AREA  
CT-GS-6**
**CHAPTER 6: CAREER-TECHNICAL SCHOOL**

<u>FINISHES<sup>1</sup>:</u>	Spec. Ref.#	<u>FEATURES<sup>1</sup>:</u>	Spec. Ref.#
Flooring:		<u>Fixed Items<sup>2</sup>:</u>	
<b>Sealed</b> 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	

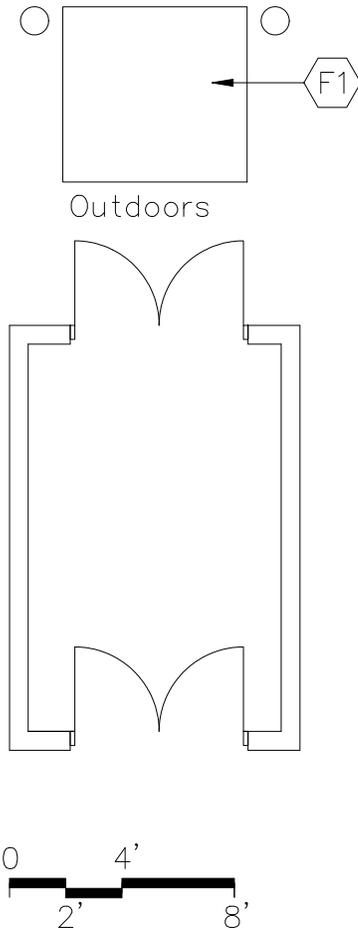
**NOTES:**

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

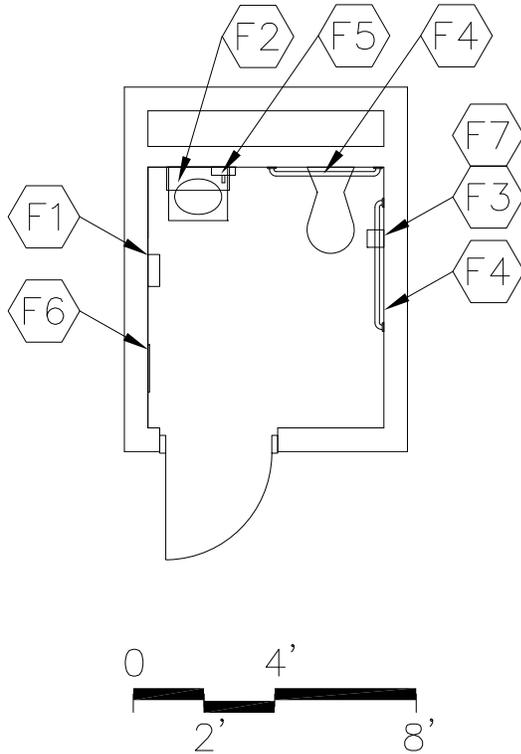
**NOTES:**

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

<u>FINISHES<sup>1</sup>:</u>	Spec. Ref.#	<u>FEATURES<sup>1</sup>:</u>	Spec. Ref.#
Flooring:		<u>Fixed Items:</u>	
<b>Sealed</b> 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**

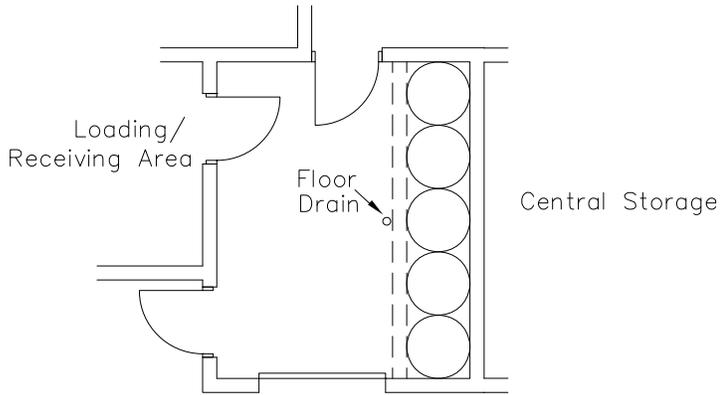
<u>FINISHES<sup>1</sup>:</u>	Spec. Ref.#	<u>FEATURES<sup>1</sup>:</u>	Spec. Ref.#
<u>Flooring:</u>		<u>Fixed Items:</u>	
ET or sheet vinyl	096516	F1 Towel dispenser	102813
	096500	F2 Mirror with shelf above sink(optional)	102813
Optional: quarry tile, or	093000	F3 Toilet tissue holder	102813
resinous 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:**

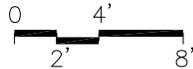
1. Finishes/Features: Refer to Chapter 9 for specification references.
2. F6 and F7 required for female restroom only.

**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>FINISHES<sup>1</sup>:</u>		<u>FEATURES<sup>1</sup>:</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	

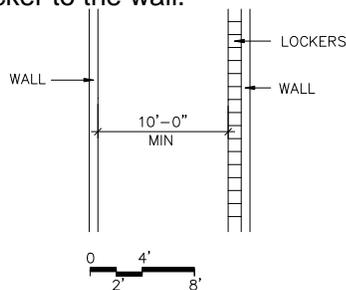
NOTES:

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

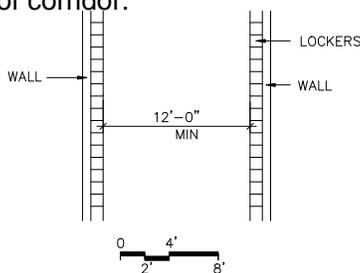
## CORRIDORS CT-BS-1

### 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:

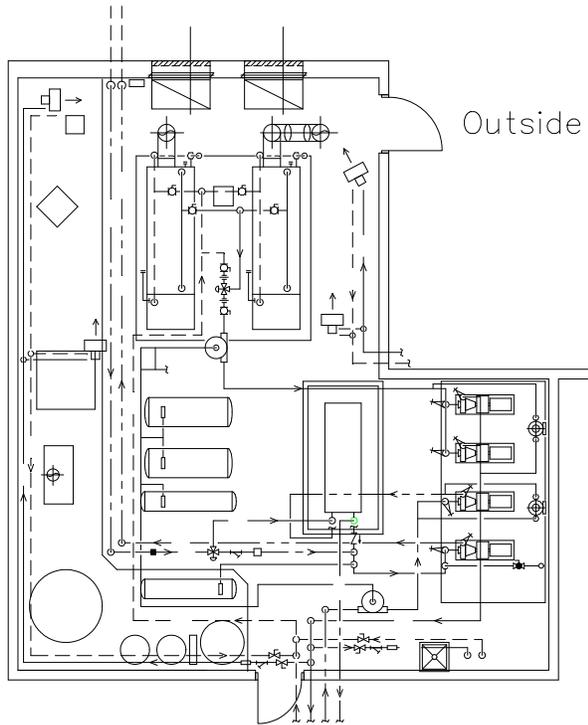
**CORRIDORS  
CT-BS-1**
**CHAPTER 6: CAREER-TECHNICAL SCHOOL**

<u>FINISHES<sup>1</sup>:</u>	Spec. Ref.#	<u>FEATURES<sup>1</sup>:</u>	Spec. Ref.#
<u>Flooring<sup>2</sup>:</u>		<u>Fixed Items:</u>	
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>	
		Drinking water coolers	224000
<u>Ceiling:</u>		<u>HVAC:</u>	
Suspended, acoustical	095113	Supply/return air system	Div. 23
Option in vestibules: Abuse resistant		Temperature control from	
gypsum wallboard	092113	adjacent instructional spaces	230923
<u>Walls:</u>		<u>Electrical:</u>	
Painted concrete masonry units	042000/099100	Dual level switching	262726
		Fluorescent lighting	265100
<u>LOOSE FURNISHINGS:</u>		illumination level: See Table 8600-6	
Recycling bins and waste receptacles		Duplex receptacles	262726
Fixed or loose benches		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	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.

**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>FINISHES<sup>1</sup>:</u>	Spec. Ref.#	<u>FEATURES<sup>1</sup>:</u>	Spec. Ref.#
Flooring:		<u>Fixed Items:</u>	
<b>Sealed</b> 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/ <b>273123</b>
		<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.

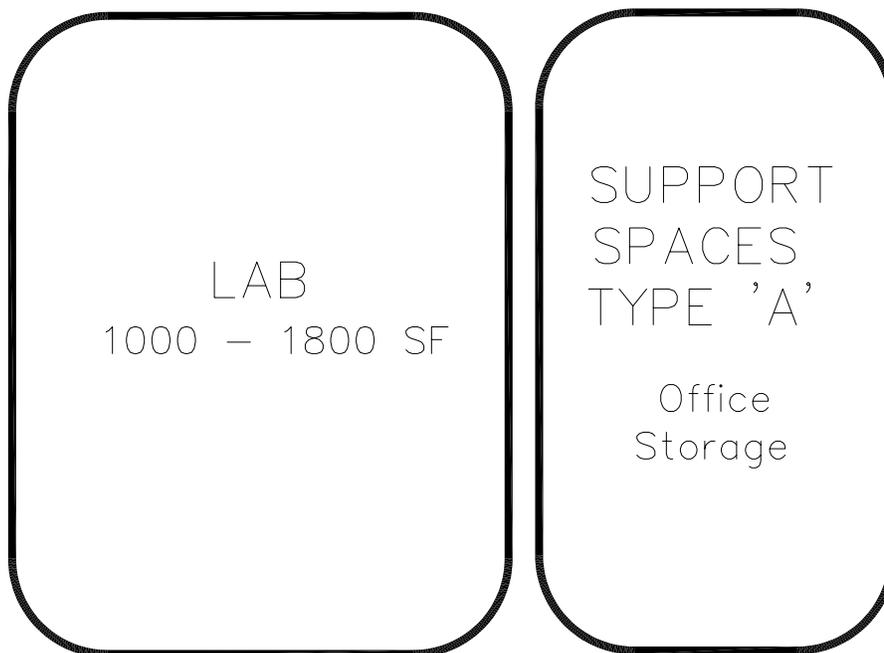
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**Program Type 1**

Description: Small to medium sized lab space with typical support space. Lab and support space to have finished floor, painted walls, and suspended acoustical ceiling.

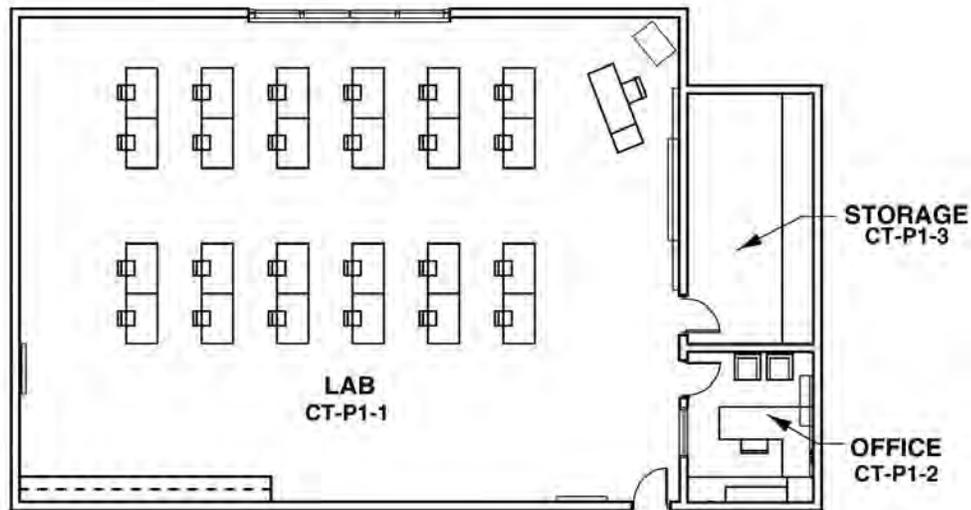
**NOTES:**

This is an example of how the Program Type 1 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 Program Type 1 space plates:

- CT-P1-1 Lab
- CT-P1-2 Office
- CT-P1-3 Storage

**PROGRAM TYPE 1  
EXAMPLE**

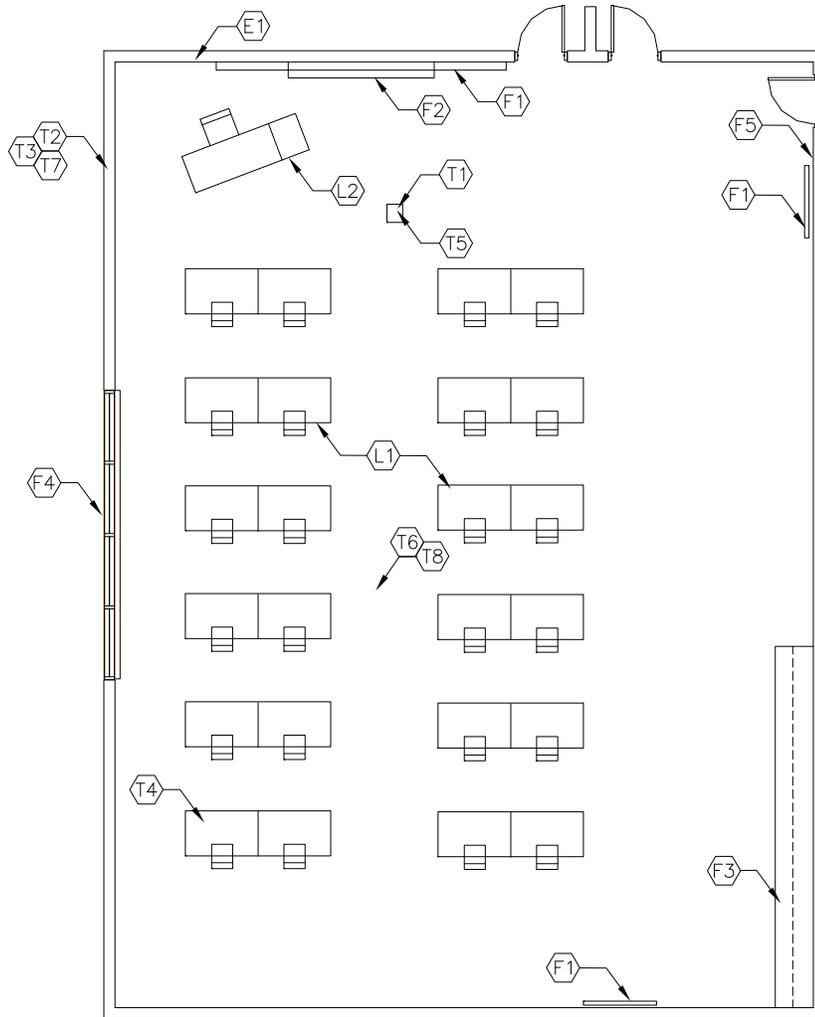


**Program Type 1**

This is an example to show the possible relationships of spaces for this program type.

**NOTES:**

1. See lab descriptions within this section for specific lab requirements.
2. See individual space plates at the end of this section for specific requirements for the storage room and office.



CAPACITY: 24 Students  
 SIZE: 1,000 – 1,800 SF  
 (see lab summaries for exact sizes)  
 ANCILLARY SPACES: CT-P1-2 and CT-P1-3

**NOTES:**

1. Loose furnishings shown represent one of many possible arrangements.
2. Graphic plate is an example only. Other labs within this program are not drawn – refer to lab summaries within this program type for information on a particular lab.

**LAB**  
**CT-P1-1**

CHAPTER 6: CAREER-TECHNICAL SCHOOL

PROGRAM ACTIVITIES:

- Large and small group instruction
- Group and individual work
- Demonstrations

SPATIAL RELATIONSHIPS:

- Near other related labs
- Adjacent to typical support spaces
- Proximity to large group restrooms
- Located away from noisy or public activities
- Proximity to core academic area and common use areas
- 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. Finishes/Features: Refer to Chapter 9 for specification references.
2. Loose Furnishings: Refer to Lab Profiles within this section.
3. Loose Furnishings, fixed equipment, utility locations, and general footprint of room shown represent one of many possible arrangements.

**G0 / 14.0100 ACCOUNTING**

**CHAPTER 6: CAREER-TECHNICAL SCHOOL**

**CT-P1-1**

<p><b><u>PROGRAM DESCRIPTION:</u></b>                  Prepares students for careers that record, classify, summarize, analyze and communicate a business's financial information and business transactions. Accounting includes such activities as bookkeeping, systems design, and analysis and interpretation of accounting information. Sample occupations include: certified public accounting (CPA), auditor, financial accountant, accounting clerk, treasurer, bookkeeper, forensic accountant, and international accountant.</p> <p><b>Program Type:</b> 1</p> <p><b>Size Requirements:</b> 1,200 SF Lab</p> <p><b>Lab Requirements:</b></p> <p><b>FINISHES:</b></p> <table border="0"> <tr> <td>Flooring:</td> <td style="text-align: right;">Spec. Ref #</td> </tr> <tr> <td>Carpet</td> <td style="text-align: right;">096816</td> </tr> <tr> <td>Optional: ET, sheet vinyl, or linoleum</td> <td style="text-align: right;">096500 096516</td> </tr> <tr> <td>Base:</td> <td></td> </tr> <tr> <td>Resilient</td> <td style="text-align: right;">096500</td> </tr> <tr> <td>Ceiling:</td> <td></td> </tr> <tr> <td>Suspended acoustical</td> <td style="text-align: right;">095113</td> </tr> <tr> <td>Walls:</td> <td></td> </tr> <tr> <td>Painted concrete masonry units</td> <td style="text-align: right;">042000/ 099100</td> </tr> <tr> <td><b><u>LOOSE FURNISHINGS:</u></b></td> <td></td> </tr> <tr> <td>L1 (24) Computer workstation furniture &amp; chairs</td> <td></td> </tr> <tr> <td>L2 (1) Teacher station &amp; chair Wastebasket</td> <td></td> </tr> <tr> <td><b><u>Electronic Safety and Security:</u></b></td> <td></td> </tr> <tr> <td>Life safety devices per code</td> <td style="text-align: right;">283111</td> </tr> <tr> <td><b><u>Miscellaneous:</u></b></td> <td></td> </tr> <tr> <td>Pencil sharpener (optional)</td> <td></td> </tr> </table>	Flooring:	Spec. 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**C2 / 14.0310 ADMINISTRATIVE and PROFESSIONAL SUPPORT**  
**C0 / 14.0300 LEGAL MANAGEMENT and SUPPORT**  
**CT-P1-1**

CHAPTER 6: CAREER-TECHNICAL SCHOOL

<p><b><u>PROGRAM DESCRIPTION:</u></b>  <b><u>A&amp;PS:</u></b> Based on a sequence of courses, students will be prepared for careers which support business operations through a variety of administrative duties including information and communication management, data processing and collection, and project tracking. Due to changes in technology, the skills required in administrative support careers have increased and correspond with that of a mid-level manager. Sample occupations within this pathway include: administrative assistant, customer service representative, executive assistant, office manager, and project coordinator.</p> <p><b><u>LM&amp;S:</u></b> Based on a sequence of courses, students will be prepared for careers which facilitate legal operations through a variety of management and administrative duties. Employees in this field are found in law firms, courts, court reporting firms, legal departments of corporate businesses, and government regulatory agencies. Sample occupations within this pathway include: legal office manager, legal assistant, legal secretary, paralegal, court administrator, compliance analyst, and regulatory analyst.</p> <p><b>Program Type:</b> 1  <b>Size Requirements:</b> 1,200 SF Lab  <b>Lab Requirements:</b></p> <p><b><u>FINISHES:</u></b></p> <p>Flooring:          Carpet 096816          Optional: ET, sheet vinyl, 096500          or linoleum 096516</p> <p>Base:          Resilient 096500</p> <p>Ceiling:          Suspended acoustical 095113</p> <p>Walls:          Painted concrete masonry units 042000/          099100</p>	<p style="text-align: right;">Spec. Ref.#</p> <p><b><u>FEATURES<sup>1</sup>:</u></b></p> <p><b><u>Fixed Items:</u></b></p> <p>F1 24' of marker board, tack board, or tackable wall surface 101100  <b>F2</b> Projection screen, 6'x8' 115213          F3 40' of base and wall cabinets 123550  <b>F4</b> Windows with integral blinds 085113          F5 Pencil sharpener support (optional) 062000</p> <p><b><u>Fire Suppression:</u></b>          Fire suppression system 211000</p> <p><b><u>Plumbing:</u></b> N/A</p> <p><b><u>HVAC:</u></b>          Supply/return air system Div. 23          Independent temperature control 230923</p> <p><b><u>Electrical:</u></b>          Fluorescent lighting, parabolic lenses:265100          Illumination level: See Table 8600-5          Multilevel switching 262726          6 duplex receptacles 262726          Double duplex receptacle adjacent to each data and video port 262726</p> <p><b><u>Communications:</u></b></p> <p>T1 1 <b>projector</b> video port 271543          T2 1 voice port and phone 271513/273123          T3 1 data port near teacher workstation 271513          T4 26 data ports 271513          Clock 275313          Central sound system 275123          Sound reinforcement system 275127</p> <p>T5 <b>Ultra-short throw interactive</b> projector 274119</p> <p><b>T6 Wireless access point (WAP) as determined by Design – refer to Note 4</b> 272133</p> <p><b>T7 Classroom technology center video port</b> 271543, 274116, 274119, 275127</p> <p><b>T8 Wireless access point cable above ceiling</b> 271513</p> <p><b>E1 Duplex receptacle with dedicated circuit for wireless devices</b></p> <p><b><u>Electronic Safety and Security:</u></b>          Life safety devices per code 283111</p> <p><b><u>Miscellaneous:</u></b> Pencil sharpener (optional)</p> <p><b><u>LOOSE FURNISHINGS:</u></b>          L1 (24) Computer workstation furniture &amp; chairs          L2 (1) Teacher station &amp; chair          Wastebasket</p>
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1. Finishes/Features: Refer to Chapter 9 for specification references.
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**R1 / 17.1503 ELECTRONICS**  
**R0 / 17.0370 AUTOMATION & ROBOTICS**  
**CT-P1-1**

CHAPTER 6: CAREER-TECHNICAL SCHOOL

<p><b><u>PROGRAM DESCRIPTION:</u></b>  <u>Electronics:</u> Classroom, laboratory, and practical learning experiences that includes both theory and practice. Students learn construction, maintenance, and repair of digital, analog, and microprocessor circuits in applications such as communications equipment, consumer equipment, and industrial equipment.  <u>Automation &amp; Robotics:</u> Utilizing business and Industry, math, English, science and technology standards, introduces concepts in Automation and Robotics technologies: Computer Numerical Control (CNC), Data Acquisition and Analysis, Electrical/Electronic controls, Fluid Power, Robotics and Programmable Logic Controllers (PLC).</p> <p><b>Program Type:</b> 1</p> <p><b>Size Requirements:</b> 1,800 SF Lab</p> <p><b>Lab Requirements:</b></p> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 80%;"></th> <th style="width: 20%; text-align: center;">Spec. 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**NOTES:**

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

**T4 / 17.0400 AVIATION OCCUPATIONS  
CT-P1-1**

CHAPTER 6: CAREER-TECHNICAL SCHOOL

<b><u>PROGRAM DESCRIPTION:</u></b>	Classroom and practical experiences that include instruction relating to aircraft maintenance, operation, and ground support. Instructor and program must be certified by the Federal Aviation Administration (FAA).	<b><u>FEATURES<sup>1</sup>:</u></b>	Spec.
<b>Program Type:</b>	1	<b><u>Fixed Items:</u></b>	<b><u>Ref.#</u></b>
<b>Size Requirements:</b>	1,500 SF Lab	24' of marker board, tack board, and tackable wall surface 101100 Demonstration table/teacher desk 123550 60' of perimeter sink base cabinets with 5 sinks 123550 30' of wall cabinets 123550 Fume hood 115313 (5) Paper towel dispensers 102813 (1) Safety shower/eyewash 224000 Pencil sharpener support (optional) 062000 Windows with integral blinds 085113 Projection screen, 6'x8' 115213	
<b>Lab Requirements:</b>		<b><u>Fire Suppression:</u></b>	
<b><u>FINISHES:</u></b>		Fire suppression system 211000	
Flooring:		<b><u>Plumbing:</u></b>	
ET, sheet vinyl, or linoleum	Spec. <u>Ref #</u> 096500 096516	Plumbing connections 221116/221119/224000	
Base:		Safety shower/eyewash connections 224000	
Resilient	096500	Master shut-off for gas 226313	
Ceiling:		Gas connections 226313	
Suspended acoustical	095113	Compressed air connections 221500	
Walls:		<b><u>HVAC:</u></b>	
Painted concrete masonry units	042000/ 099100	Supply/return air system Div. 23	
<b><u>LOOSE FURNISHINGS:</u></b>		Independent temperature control 230923	
(12) 2-person work tables w/epoxy tops and gas & electric connections		Manual exhaust Div. 23	
(24) Student stools/chairs		Fume hood exhaust Div. 23	
(1) Teacher chair or stool		<b><u>Electrical:</u></b>	
(4) Computer workstations		Fluorescent lighting 265100	
Wastebasket		Illumination level: See Table 8600-5	
<b><u>Electronic Safety and Security:</u></b>		Multilevel switching 262726	
Life safety devices per code	283111	6 duplex receptacles 262726	
<b><u>Miscellaneous:</u></b>		Double duplex receptacle adjacent to each data and video port 262726	
Pencil sharpener (optional)		Emergency lighting 265100	
<b><u>Communications: (cont'd)</u></b>		Means of egress lighting per code 265100	
<b><i>Classroom technology center video port 271543, 274116, 274119, 275127</i></b>		<b><u>Communications:</u></b>	
<b><i>Duplex receptacle with dedicated circuit for wireless devices</i></b>		1 <b>projector</b> video port 271543	
<b><u>NOTES:</u></b>		1 voice port and phone 271513/273123	
1. Finishes/Features: Refer to Chapter 9 for specification references.		1 data port near teacher workstation 271513	
2. <b><i>Baseline includes WAP cable per classroom. WAP device quantity / placement per 272133 requirements.</i></b>		11 data ports 271513	
		Clock 275313	
		Central sound system 275123	
		Sound reinforcement system 275127	
		<b><i>Ultra-short throw interactive projector</i></b>	
		274119	
		<b><i>Wireless access point cable above ceiling</i></b>	
		271513	
		<b><i>Wireless access point (WAP) as determined by Design – refer to Note 4</i></b>	
		272133	

**C1 / 14.0800 BUSINESS MANAGEMENT**

CHAPTER 6: CAREER-TECHNICAL SCHOOL

**CT-P1-1**

<p><b><u>PROGRAM DESCRIPTION:</u></b> An instructional program that generally prepares individuals to plan, organize, direct, and control the functions and processes of a firm or organization. Includes instruction in human resources management, strategic planning, managing technology, staffing functions, general office functions, financial functions, telecommunications, and supervisory functions.</p> <p><b>Program Type:</b> 1</p> <p><b>Size Requirements:</b> 1,200 SF Lab</p> <p>Lab Requirements:</p> <table border="0"> <tr> <td></td> <td style="text-align: right;">Spec.</td> </tr> <tr> <td><b><u>FINISHES:</u></b></td> <td style="text-align: right;"><b><u>Ref #</u></b></td> </tr> <tr> <td>Flooring:</td> <td></td> </tr> <tr> <td>    Carpet</td> <td style="text-align: right;">096816</td> </tr> <tr> <td>    Optional: ET, sheet vinyl, or linoleum</td> <td style="text-align: right;">096500 096516</td> </tr> <tr> <td>Base:</td> <td></td> </tr> <tr> <td>    Resilient</td> <td style="text-align: right;">096500</td> </tr> <tr> <td>Ceiling:</td> <td></td> </tr> <tr> <td>    Suspended acoustical</td> <td style="text-align: right;">095113</td> </tr> <tr> <td>Walls:</td> <td></td> </tr> 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**NOTES:**

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

**G1 / 14.0110 FINANCIAL SERVICES  
CT-P1-1**

## CHAPTER 6: CAREER-TECHNICAL SCHOOL

		Spec. Ref.#
<b><u>PROGRAM DESCRIPTION:</u></b>		
Prepares students for careers in banking, securities and investments, and insurance. Activities include accepting deposits, lending funds and extending credit, banking services, investments, mortgages and loans, real estate, and insurance. Sample occupations include: loan officer, branch manager, investment banker, financial planner, bank teller, personal financial advisor, real estate broker, and credit analyst.		
<b>Program Type:</b>	1	
<b>Size Requirements:</b>	1,200 SF Lab	
Lab Requirements:		
	Spec. Ref #	
<b><u>FINISHES:</u></b>		
<b>Flooring:</b>		
Carpet	096816	
Optional: ET, sheet vinyl, or linoleum	096500 096516	
<b>Base:</b>		
Resilient	096500	
<b>Ceiling:</b>		
Suspended acoustical	095113	
<b>Walls:</b>		
Painted concrete masonry units	042000/ 099100	
<b><u>LOOSE FURNISHINGS:</u></b>		
L1 (24) Computer workstation furniture & chairs		
L2 (1) Teacher station & chair Wastebasket		
<b><u>Electronic Safety and Security:</u></b>		
Life safety devices per code	283111	
<b><u>Miscellaneous:</u></b>		
Pencil sharpener (optional)		
<b><u>FEATURES<sup>1</sup>:</u></b>		
<b><u>Fixed Items:</u></b>		
F1	24' of marker board, tack board, or tackable wall surface	101100
F2	Projection screen, 6'x8'	115213
F3	40' of base and wall cabinets	123550
F4	Windows with integral blinds	085113
F5	Pencil sharpener support (optional)	062000
<b><u>Fire Suppression:</u></b>		
	Fire suppression system	211000
<b><u>Plumbing:</u></b>		
	N/A	
<b><u>HVAC:</u></b>		
	Supply/return air system	Div. 23
	Independent temperature control	230923
<b><u>Electrical:</u></b>		
	Fluorescent lighting, parabolic lenses:	265100
	Illumination level: See Table 8600-5	
	Multilevel switching	262726
	6 duplex receptacles	262726
	Double duplex receptacle adjacent to each data and video port	262726
<b><u>Communications:</u></b>		
T1	1 <b>projector</b> video port	271543
T2	1 voice port and phone	271513/273123
T3	1 data port near teacher workstation	271513
T4	26 data ports	271513
	Clock	275313
	Central sound system	275123
	Sound reinforcement system	275127
T5	<b>Ultra-short throw interactive</b> projector	274119
T6	<b>Wireless access point (WAP) as determined by Design – refer to Note 4</b>	272133
T7	<b>Classroom technology center video port</b>	271543, 274116, 274119, 275127
T8	<b>Wireless access point cable above ceiling</b>	271513
E1	<b>Duplex receptacle with dedicated circuit for wireless devices</b>	

**NOTES:**

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

**C3 / 14.0320 MEDICAL MANAGEMENT AND SUPPORT**

CHAPTER 6: CAREER-TECHNICAL SCHOOL

**CT-P1-1**

<p><b><u>PROGRAM DESCRIPTION:</u></b> Based on a sequence of courses, students will be prepared for careers which facilitate medical business operations, through a variety of management and administrative duties. Employees in this field are found in medical offices, hospitals, and insurance companies. Sample occupations within this pathway include: admissions specialists, benefits coordinators, medical billing specialists, medical records and health information technician, medical office manager, claims processor, and medical coding specialist.</p>		<p><b><u>FEATURES<sup>1</sup>:</u></b> <b><u>Fixed Items:</u></b></p>		<p>Spec. <u>Ref.#</u></p>
<p><b>Program Type:</b> 1</p>		<p>F1 24' of marker board, tack board, or tackable wall surface</p>		<p>101100</p>
<p><b>Size Requirements:</b> 1,200 SF Lab</p>		<p><b>F2</b> Projection screen, 6'x8'</p>		<p>115213</p>
<p><b>Lab Requirements:</b></p>		<p>F3 40' of base and wall cabinets</p>		<p>123550</p>
<p><b><u>FINISHES:</u></b></p>	<p>Spec. <u>Ref #</u></p>	<p><b>F4</b> Windows with integral blinds</p>		<p>085113</p>
<p>Flooring:</p>		<p>F5 Pencil sharpener support (optional)</p>		<p>062000</p>
<p>ET, sheet vinyl, or linoleum</p>	<p>096500</p>	<p>Paper towel dispenser</p>		<p>102813</p>
<p>Optional: carpet</p>	<p>096516 096816</p>	<p><b><u>Fire Suppression:</u></b></p>		
<p>Base:</p>		<p>Fire suppression system</p>		<p>211000</p>
<p>Resilient</p>	<p>096500</p>	<p><b><u>Plumbing:</u></b></p>		
<p>Ceiling:</p>		<p>Plumbing connections</p>		<p>221116/221119/224000</p>
<p>Suspended acoustical</p>	<p>095113</p>	<p><b><u>HVAC:</u></b></p>		
<p>Walls:</p>		<p>Supply/return air system</p>		<p>Div. 23</p>
<p>Painted concrete masonry units</p>	<p>042000/ 099100</p>	<p>Independent temperature control</p>		<p>230923</p>
<p><b><u>LOOSE FURNISHINGS:</u></b></p>		<p><b><u>Electrical:</u></b></p>		
<p>(12) Two-person work stables</p>		<p>Fluorescent lighting:</p>		<p>265100</p>
<p>(24) Student chairs/stools</p>		<p>Illumination level: See Table 8600-5</p>		
<p>(1) Teacher station &amp; chair</p>		<p>Multilevel switching</p>		<p>262726</p>
<p>Wastebasket</p>		<p>6 duplex receptacles</p>		<p>262726</p>
<p><b><u>Electronic Safety and Security:</u></b></p>		<p>Double duplex receptacle adjacent to each data and video port</p>		<p>262726</p>
<p>Life safety devices per code</p>	<p>283111</p>	<p><b><u>Communications:</u></b></p>		
<p><b><u>Miscellaneous:</u></b></p>		<p>T1 1 <b>projector</b> video port</p>		<p>271543</p>
<p>Pencil sharpener (optional)</p>		<p>T2 1 voice port and phone</p>		<p>271513/273123</p>
		<p>T3 1 data port near teacher workstation</p>		<p>271513</p>
		<p>T4 8 data ports</p>		<p>271513</p>
		<p>Clock</p>		<p>275313</p>
		<p>Central sound system</p>		<p>275123</p>
		<p>Sound reinforcement system</p>		<p>275127</p>
		<p>T5 <b>Ultra-short throw interactive</b> projector</p>		<p>274119</p>
		<p>T6 <b>Wireless access point (WAP) as determined by Design – refer to Note 4</b></p>		<p>272133</p>
		<p>T7 <b>Classroom technology center video port</b></p>		<p>271543, 274116, 274119, 275127</p>
		<p>T8 <b>Wireless access point cable above ceiling</b></p>		<p>271513</p>
		<p>E1 <b>Duplex receptacle with dedicated circuit for wireless devices</b></p>		

**NOTES:**

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

**F5 / 17.1504 TELECOMMUNICATIONS**  
**CT-P1-1**

## CHAPTER 6: CAREER-TECHNICAL SCHOOL

		Spec. Ref.#
<b><u>PROGRAM DESCRIPTION:</u></b>		
Specialized classroom and practical experiences concerned with the assembly, installation, operation, maintenance, and repair of telephone equipment, which includes pole climbing, cable construction, cable splicing, cable pulling, job planning, equipment wiring, trouble-shooting procedures of PBX systems, and field repair of telephones.		
<b>Program Type:</b>	1	
<b>Size Requirements:</b>	1,200 SF Lab	
Lab Requirements:		
	Spec. <u>Ref #</u>	
<b><u>FINISHES:</u></b>		
Flooring:		
Carpet	096816	
Optional: ET, sheet vinyl, or linoleum	096500 096516	
Base:		
Resilient	096500	
Ceiling:		
Suspended acoustical	095113	
Walls:		
Painted concrete masonry units	042000/ 099100	
<b><u>LOOSE FURNISHINGS:</u></b>		
L1 (24) Computer workstation furniture & chairs		
L2 (1) Teacher station & chair Wastebasket		
<b><u>Electronic Safety and Security:</u></b>		
Life safety devices per code	283111	
<b><u>Miscellaneous:</u></b>		
Pencil sharpener (optional)		
<b><u>FEATURES<sup>1</sup>:</u></b>		
<b><u>Fixed Items:</u></b>		
F1	24' of marker board, tack board, or tackable wall surface	101100
<b>F2</b>	Projection screen, 6'x8'	115213
F3	40' of base and wall cabinets	123550
<b>F4</b>	Windows with integral blinds	085113
F5	Pencil sharpener support (optional)	062000
<b><u>Fire Suppression:</u></b>		
	Fire suppression system	211000
<b><u>Plumbing:</u></b>		
	N/A	
<b><u>HVAC:</u></b>		
	Supply/return air system	Div. 23
	Independent temperature control	230923
<b><u>Electrical:</u></b>		
	Fluorescent lighting, parabolic lenses:	265100
	Illumination level: See Table 8600-5	
	Multilevel switching	262726
	6 duplex receptacles	262726
	Double duplex receptacle adjacent to each data and video port	262726
<b><u>Communications:</u></b>		
T1	1 <b>projector</b> video port	271543
T2	1 voice port and phone	271513/273123
T3	1 data port near teacher workstation	271513
T4	26 data ports	271513
	Clock	275313
	Central sound system	275123
	Sound reinforcement system	275127
T5	<b>Ultra-short throw interactive</b> projector	274119
T6	<b>Wireless access point (WAP) as determined by Design – refer to Note 4</b>	272133
T7	<b>Classroom technology center video port</b>	271543, 274116, 274119, 275127
T8	<b>Wireless access point cable above ceiling</b>	271513
E1	<b>Duplex receptacle with dedicated circuit for wireless devices</b>	

**NOTES:**

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

**L2 / 33.0200 TRAVEL AND TOURISM  
CT-P1-1**

CHAPTER 6: CAREER-TECHNICAL SCHOOL

<b><u>PROGRAM DESCRIPTION:</u></b>		<b>FEATURES<sup>1</sup>:</b>	Spec.
Educational programs in travel and tourism prepare learners for careers in management, marketing and operation of destination marketing organizations, attractions, meetings and events, transportation, and travel related services.		<b><u>Fixed Items:</u></b>	<b><u>Ref.#</u></b>
<b>Program Type:</b>	1	F1 24' of marker board, tack board, or tackable wall surface	101100
<b>Size Requirements:</b>	1,200 SF Lab	<b>F2</b> Projection screen, 6'x8'	115213
Lab Requirements:		F3 40' of base and wall cabinets	123550
		<b>F4</b> Windows with integral blinds	085113
		F5 Pencil sharpener support (optional)	062000
		<b><u>Fire Suppression:</u></b>	
		Fire suppression system	211000
		<b><u>Plumbing:</u></b>	
		N/A	
		<b><u>HVAC:</u></b>	
<b><u>FINISHES:</u></b>	<b><u>Spec. Ref #</u></b>	Supply/return air system	Div. 23
Flooring:		Independent temperature control	230923
Carpet	096816		
Optional: ET, sheet vinyl, or linoleum	096500 096516		
Base:		<b><u>Electrical:</u></b>	
Resilient	096500	Fluorescent lighting, parabolic lenses:	265100
Ceiling:		Illumination level: See Table 8600-5	
Suspended acoustical	095113	Multilevel switching	262726
Walls:		6 duplex receptacles	262726
Painted concrete masonry units	042000/ 099100	Double duplex receptacle adjacent to each data and video port	262726
<b><u>LOOSE FURNISHINGS:</u></b>		<b><u>Communications:</u></b>	
L1 (24) Computer workstation furniture & chairs		T1 1 <b>projector</b> video port	271543
L2 (1) Teacher station & chair		T2 1 voice port and phone	271513/273123
Wastebasket		T3 1 data port near teacher workstation	271513
<b><u>Electronic Safety and Security:</u></b>		T4 26 data ports	271513
Life safety devices per code	283111	Clock	275313
<b><u>Miscellaneous:</u></b>		Central sound system	275123
Pencil sharpener (optional)		Sound reinforcement system	275127
		T5 <b>Ultra-short throw interactive</b> projector	274119
		<b>T6 Wireless access point (WAP) as determined by Design – refer to Note 4</b>	<b>272133</b>
		<b>T7 Classroom technology center video port</b>	<b>271543, 274116, 274119, 275127</b>
		<b>T8 Wireless access point cable above ceiling</b>	<b>271513</b>
		<b>E1 Duplex receptacle with dedicated circuit for wireless devices</b>	

**NOTES:**

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

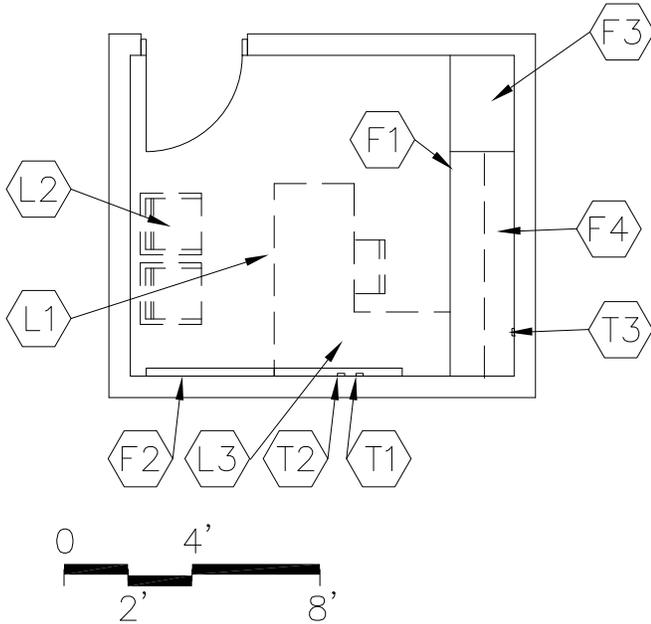
**B2 / 34.0005 VISUAL DESIGN AND IMAGING ■ NO / 14.0210 INFORMATION SUPPORT & SERVICES  
 N3 / 14.0230 PROGRAMMING and SOFTWARE DEVELOPMENT  
 N2 / 14.0220 NETWORK SYSTEMS ■ N1 / 14.0240 INTERACTIVE MEDIA  
 CT-P1-1**

## CHAPTER 6: CAREER-TECHNICAL SCHOOL

<u>PROGRAM DESCRIPTION:</u>	Spec. Ref.#
<u>VD&amp;I:</u> Programs that focus on the creation, design, and execution of layouts and illustrations on various mediums including electronic media and the theory and processes of image transfer, including offset, flexography, lithography, photoengraving and other techniques. Communications, business principles and leadership skill development related to the industry are essential to the program. Specialization areas include commercial art and graphic occupations.	
<u>IS&amp;S:</u> An instructional program that provides training for careers in dealing in information technology deployment and information systems management.	
<u>P&amp;SD:</u> An instructional program that provides training for careers dealing with hardware and software programming, to design, development, and implementation computer systems and software.	
<u>NS:</u> An instructional program that provides training for careers in communication network system planning, administration, and management. Skills for programs/pathways in this are taken from the itWORKS.OHIO Career Field Technical Content Standards.	
<u>IM:</u> An instructional program that provides training in the area of interactive multi-media development that includes creating, designing, and producing interactive multimedia products and services and digitally-generated or computer-enhanced media.	
<b>Program Type:</b> 1	
<b>Size Requirements:</b> 1,200 SF Lab	
<b>Lab Requirements:</b>	Spec.
<u>FINISHES:</u>	<u>Ref #</u>
Flooring:	
Carpet	096816
Optional: ET, sheet vinyl, or linoleum	096500 096516
Base: Resilient	096500
Ceiling:	
Suspended acoustical	095113
Walls:	
Painted concrete masonry units	042000/ 099100
Miscellaneous: Pencil sharpener (optional)	
<u>FEATURES<sup>1</sup>:</u>	
<u>Fixed Items:</u>	
F1 24' of marker board, tack board, or tackable wall surface	101100
<b>F2</b> Projection screen, 6'x8'	115213
F3 40' of base and wall cabinets	123550
<b>F4</b> Windows with integral blinds	085113
F5 Pencil sharpener support (optional)	062000
<u>Fire Suppression:</u>	
Fire suppression system	211000
<u>Plumbing:</u> N/A	
<u>HVAC:</u>	
Supply/return air system	Div. 23
Independent temperature control	230923
<u>Electrical:</u>	
Fluorescent lighting, parabolic lenses:265100 Illumination level: See Table 8600-5	
Multilevel switching	262726
6 duplex receptacles	262726
Double duplex receptacle adjacent to each data and video port	262726
<u>Communications:</u>	
T1 1 <b>projector</b> video port	271543
T2 1 voice port and phone	271513/273123
T3 1 data port near teacher workstation	271513
T4 26 data ports	271513
Clock	275313
Central sound system	275123
Sound reinforcement system	275127
T5 <b>Ultra-short throw interactive</b> projector	274119
<b>T6 Wireless access point (WAP) as determined by Design – refer to Note 4</b>	<b>272133</b>
<b>T7 Classroom technology center video port 271543, 274116, 274119, 275127</b>	
<b>T8 Wireless access point cable above ceiling</b>	<b>271513</b>
<b>E1 Duplex receptacle with dedicated circuit for wireless devices</b>	
<u>Electronic Safety and Security:</u>	
Life safety devices per code	283111
<u>LOOSE FURNISHINGS:</u>	
L1 (24) Computer workstation furniture & chairs	
L2 (1) Teacher station & chair	
Wastebasket	

NOTES:

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



**PROGRAM ACTIVITIES:**

- Private space for program instructor
- One-on-one conferences with academic instructors, students, etc.

**SPATIAL RELATIONSHIPS:**

- Near related lab
- Direct access to school circulation areas

**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.

**OFFICE  
CT-P1-2**

## CHAPTER 6: CAREER-TECHNICAL SCHOOL

<u>FINISHES<sup>1</sup>:</u>	Spec. Ref.#	<u>FEATURES<sup>1</sup>:</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
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			
Wastebasket		<u>Electrical:</u>	
		Single level switching	262726
		Fluorescent lighting	265100
		Illumination level: See Table 8600-5	
		4 duplex receptacles	262726
		Double duplex receptacle adjacent	
		to data and video port	262726
		<u>Communications:</u>	
		T1 1 voice port and phone	271513/273123
		T2 1 data port near workstation	271513
		T3 1 <b>projector</b> video port	271543
		Central sound system	275123
		Clock	275313
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
		<u>Miscellaneous:</u>	
		N/A	

NOTES:

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

**PROGRAM ACTIVITIES:**

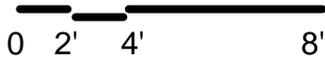
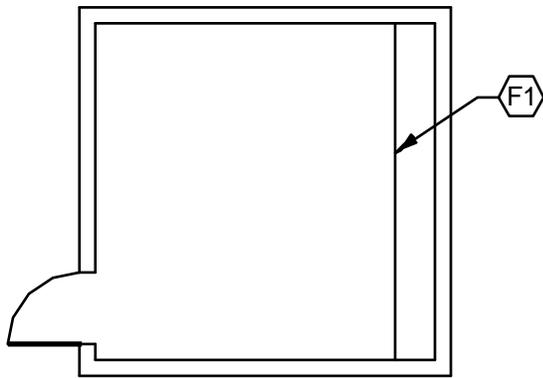
- Space for storage of lab equipment

**SPATIAL RELATIONSHIPS:**

- Near related lab

**ENVIRONMENTAL CONSIDERATIONS:**

N/A



CAPACITY:  
SIZE:

N/A  
200 SF

NOTES:

**STORAGE AREA  
CT-P1-3**
**CHAPTER 6: CAREER-TECHNICAL SCHOOL**

	Spec. Ref.#		Spec. Ref.#
<u>FINISHES<sup>1</sup>:</u>		<u>FEATURES<sup>1</sup>:</u>	
Flooring:		<u>Fixed Items<sup>1</sup>:</u>	
<b>Sealed</b> concrete	033000	F1 8'-20' of open shelving	
		Depth may vary (fixed or loose)	123550
Base:		<u>Fire Suppression:</u>	
Resilient base	096500	Fire suppression system	211000
Ceiling:		<u>Plumbing:</u>	
Exposed structure	---	N/A	
Walls:		<u>HVAC:</u>	
Painted concrete masonry units	042000/099100	To be determined by Design Professional	
		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 8600-5	
		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.

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**Program Type 2**

Description: Small to medium sized lab space with typical support space. This program is to utilize standard construction and be one-story (16' +/- tall). Lab and support space to have finished floor, painted walls, and suspended acoustical ceiling.

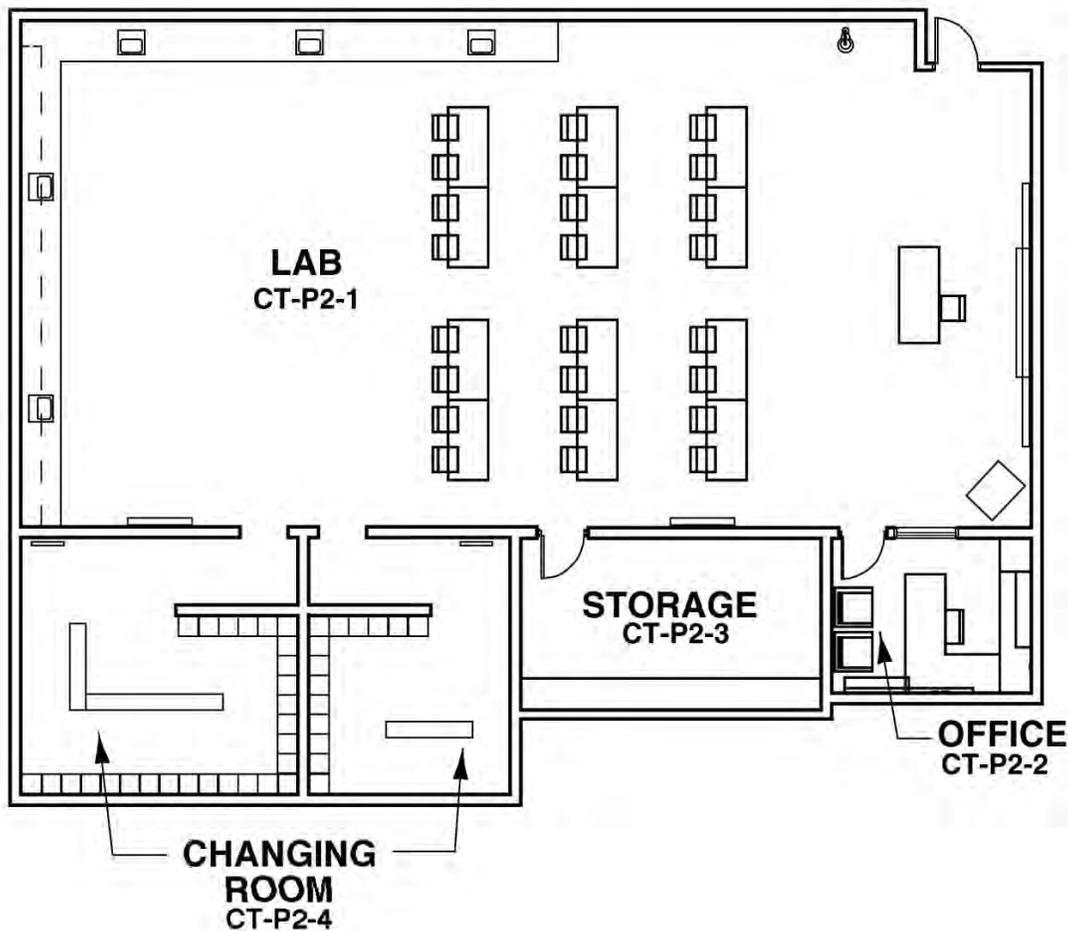
**NOTES:**

This is an example of how the Program Type 2 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 Program Type 2 space plates:

- CT-P2-1 Lab
- CT-P2-2 Office
- CT-P2-3 Storage
- CT-P2-4 Changing Room

**PROGRAM TYPE 2  
EXAMPLE**

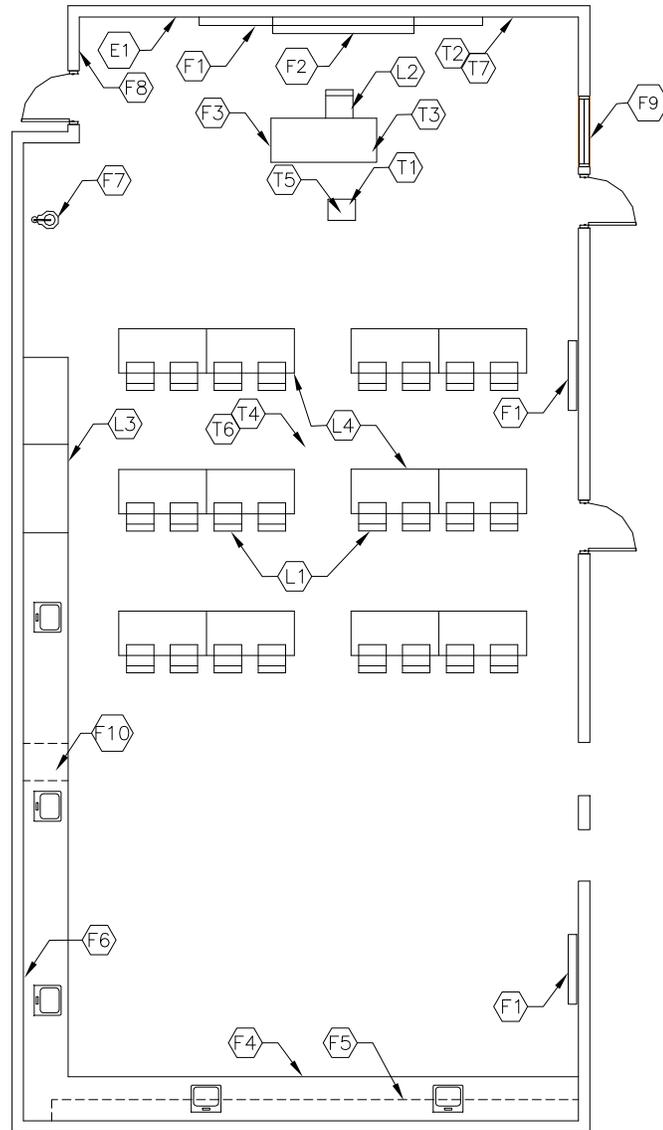


**Program Type 2**

This is an example to show the possible relationships of spaces for this program type.

**NOTES:**

1. See lab descriptions within this section for specific lab requirements.
2. See individual space plates at the end of this section for specific requirements for the office, storage room, and changing room.



CAPACITY:	24 Students
SIZE:	1,500 SF
	(see lab summaries for exact sizes)
ANCILLARY SPACES:	CT-P2-2 thru CT-P2-4

**NOTES:**

1. Loose furnishings shown represent one of many possible arrangements.
2. Graphic plate is an example only. Other labs within this program are not drawn – refer to lab summaries within this program type for information on a particular lab.

**LAB**  
**CT-P2-1**

CHAPTER 6: CAREER-TECHNICAL SCHOOL

PROGRAM ACTIVITIES:

- Large and small group instruction
- Group and individual work
- Demonstrations

SPATIAL RELATIONSHIPS:

- Near other related labs
- Adjacent to typical support spaces
- Proximity to large group restrooms
- Located away from noisy or public activities
- Proximity to core academic area and common use areas
- 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. Finishes/Features: Refer to Chapter 9 for specification references.
2. Loose Furnishings: Refer to Lab Profiles within this section.
3. Loose Furnishings, fixed equipment, utility locations, and general footprint of room shown represent one of many possible arrangements.

**F1 / 17.1600 ENERGY SCIENCE**  
**JG / 7.0912 PHARMACY TECHNICIAN**  
**JO / 07.4850 BIOTECHNOLOGY**

## CHAPTER 6: CAREER-TECHNICAL SCHOOL

**CT-P2-1**

<b>PROGRAM DESCRIPTION:</b>	Spec. Ref.#
<b>Energy Science:</b> Utilizing industry standards and a math, science, ELA and a technology framework introduces concepts of solar, wind, fossil fuel, nuclear, geothermal, biomass, and fuel cell energy and leads to post-secondary.	
<b>Pharmacy Technician:</b> Utilizing business and industry technical standards, math, science, ELA, social studies and technology within a business process framework. Instruction includes concepts, subject matter and experiences to work in a pharmacy under the supervision of a pharmacist.	
<b>Biotechnology:</b> A tech prep program that combines classroom and laboratory experiences in the bioprocesses of organisms, cells, or their components to create products or solve problems. Program concentrates on biomedical, environmental, pharmaceutical, bioinformatics, and bioethics.	
<b>Program Type:</b> 2	
<b>Size Requirements:</b> 1,500 SF Lab	
<b>Lab Requirements:</b>	Spec.
<b>FINISHES:</b>	Ref #
<b>Flooring:</b>	
ET, rubber, sheet vinyl, linoleum,	096500
polished concrete finishing,	096516
or colored concrete finishing	033510
Optional: carpet	033519
	096816
Base: Resilient	096500
<b>Ceiling:</b>	
Suspended acoustical	095113
<b>Walls:</b>	
Painted concrete masonry units	042000/ 099100
<b>LOOSE FURNISHINGS:</b>	
(12) Two-person work tables w/epoxy tops	
(24) Students chairs/stools	
(1) Teacher station & chair	
(4) Computer workstations	
Wastebasket	
<b>Miscellaneous:</b> Pencil sharpener (optional)	
<b>Duplex receptacle with dedicated circuit for wireless devices</b>	
<b>FEATURES<sup>1</sup>:</b>	
<b>Fixed Items:</b>	
24' of marker board, tack board, and tackable wall surface	101100
40' of base and wall cabinets	123550
8' of counter (retail area)	123550
8' of counter (nurse's station)	123550
Biohazard hood	123550
Pencil sharpener support (optional)	062000
Windows with integral blinds	085113
Projection screen, 6'x8'	115213
(2) Paper towel dispensers	102813
<b>Fire Suppression:</b>	
Fire suppression system	211000
<b>Plumbing:</b>	
Plumbing connections	221116/221119/224000
<b>HVAC:</b>	
Supply/return air system	Div. 23
Independent temperature control	230923
Biohazard hood exhaust	Div. 23
<b>Electrical:</b>	
Fluorescent lighting	265100
Illumination level: See Table 8600-5	
Multilevel switching	262726
6 duplex receptacles (minimum)	262726
Double duplex receptacle adjacent to each data and video port	262726
<b>Communications:</b>	
1 <b>projector</b> video port	271543
1 voice port and phone	271513/273123
1 data port near teacher workstation	271513
<b>Wireless access point cable above ceiling</b>	271513
Clock	275313
Central sound system	275123
Sound reinforcement system	275127
<b>Ultra-short throw interactive projector</b>	274119
<b>Wireless access point (WAP) as determined by Design – refer to Note 4</b>	272133
<b>Classroom technology center video port</b>	271543, 274116, 274119, 275127
<b>Electronic Safety and Security:</b>	
Life safety devices per code	283111

**NOTES:**

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

**A3 / 01.2000 BIOTECHNOLOGY FOR FOOD, PLANT, ANIMAL SCIENCES**  
**JC / 07.0203 MEDICAL LABORATORY TECHNOLOGY**  
**P2 / 17.2815 CRIMINAL SCIENCE TECHNOLOGY**  
**CT-P2-1**

## CHAPTER 6: CAREER-TECHNICAL SCHOOL

**PROGRAM DESCRIPTION:**

**BFPAS:** Applies principles of chemistry, microbiology and genetics to plant and animal research. The focus of this research is to enhance the production and physical attributes of plants and animals, as well as to generate animal and plant products used today in transportation, manufacturing, medicine, food production and environmental protection.

**MLT:** A combination of subject matter and experiences designed to prepare to work under the supervision of medical technologist, clinical pathologist, or physician to perform routine clinical laboratory procedures and specimen collection techniques including phlebotomy.

**CST:** Utilizing business and industry standards as framework for application of clinical and criminal laboratory science, evidentiary testing and analysis, study of society's formal control system, investigative techniques, criminal law, criminal process, administration of Justice System computer applications, record-keeping, and reconstruction techniques.

**Program Type:** 2

**Size Requirements:** 1,500 SF Lab

**Lab Requirements:****FINISHES:**

	<u>Spec. Ref #</u>
<b>Flooring:</b>	
ET, rubber, linoleum, sheet vinyl,	096500
polished concrete finishing,	096516
or colored concrete finishing	033510
	033519

**Base:**

Resilient	096500
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**Ceiling:**

Suspended acoustical	095113
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**Walls:**

Painted concrete masonry units	042000/ 099100
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**LOOSE FURNISHINGS:**

L1 (24) Student stools/chairs  
 L2 (1) Teacher chair or stool  
 L3 (4) Computer workstations  
 L4 (12) 2-person work tables with epoxy tops  
     with gas and electric  
 Wastebasket

**NOTES:**

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

**A3 / 01.2000 BIOTECHNOLOGY FOR FOOD, PLANT, ANIMAL SCIENCES**  
**JC / 07.0203 MEDICAL LABORATORY TECHNOLOGY**  
**P2 / 17.2815 CRIMINAL SCIENCE TECHNOLOGY**

CHAPTER 6: CAREER-TECHNICAL SCHOOL

**CT-P2-1**

	Spec. Ref.#
<b>FEATURES<sup>1</sup>:</b>	
<u>Fixed Items:</u>	
F1 24' of marker board, tack board, or tackable wall surface	101100
<b>F2</b> Projection screen, 6'x8'	115213
F3 Demonstration table/teacher desk	123550
F4 60' of perimeter sink base cabinets with 5 sinks	123550
F5 30' of wall cabinets	123550
F6 (5) Paper towel dispensers	102813
F7 Safety shower/eyewash	224500
F8 Pencil sharpener support (optional)	062000
F9 Windows with integral blinds	085113
F10 Undercounter refrigerator	113100
<u>Fire Suppression:</u>	
Fire suppression system	211000
<u>Plumbing:</u>	
Plumbing connections	221116/221119/224000
Safety shower/eyewash connections	224000
Master shut-off for gas	226313
Gas connections	226313
<u>Communications:</u>	
T1 1 <b>projector</b> video port	271543
T2 1 voice port and phone	271513/273123
T3 1 data port at demonstration table	271513
T4 <b>Wireless access point cable above ceiling</b>	271513
Clock	275313
Central sound system	275123
Sound reinforcement system	275127
T5 Overhead projector	274119
<b>T6 Wireless access point (WAP) as determined by Design – refer to Note 4</b>	<b>272133</b>
<b>T7 Classroom technology center video port</b>	<b>271543, 274116, 274119, 275127</b>
<u>HVAC:</u>	
Supply/return air system	Div. 23
Independent temperature control	230923
Manual exhaust	Div. 23
<u>Electrical:</u>	
Fluorescent lighting, parabolic lenses:	265100
Illumination level: See Table 8600-5	
Multilevel switching	262726
6 duplex receptacles (minimum)	262726
Double duplex receptacle adjacent to each data and video port	262726
Means of egress lighting per code	265100
<u>Electronic Safety and Security:</u>	
Life safety devices per code	283111
<u>Miscellaneous:</u>	
Pencil sharpener (optional)	

## NOTE

1. **Baseline includes WAP cable per classroom. WAP device quantity / placement per 272133 requirements.**

**J2 / 07.0906 COMMUNITY HEALTH AIDE  
JA / 07.0307 HOME HEALTH  
CT-P2-1**

CHAPTER 6: CAREER-TECHNICAL SCHOOL

<p><b><u>PROGRAM DESCRIPTION:</u></b>  <b>CHA:</b> Utilizing business and industry technical standards, math, science, ELA, social studies and technology within a business process framework. Instruction includes concepts, subject matter and experience to serve as a liaison between professional health workers and the recipients of health services.  <b>HH:</b> Utilizing business and industry technical standards, math, science, ELA, social studies and technology within a business process framework. Introduces concepts, subject matter and experiences to assist elderly, convalescent, or handicapped in their homes for daily living needs.</p> <p><b>Program Type:</b> 2</p> <p><b>Size Requirements:</b> 1,500 SF Lab</p> <p><b>Lab Requirements:</b></p> <table border="0"> <tr> <td style="width: 80%;"><b><u>FINISHES:</u></b></td> <td style="text-align: right;"><b>Spec.</b></td> </tr> <tr> <td></td> <td style="text-align: right;"><b><u>Ref #</u></b></td> </tr> <tr> <td><b>Flooring:</b></td> <td></td> </tr> <tr> <td>ET, rubber, sheet vinyl, linoleum,</td> <td style="text-align: right;">096500</td> </tr> <tr> <td>polished concrete finishing,</td> <td style="text-align: right;">096516</td> </tr> <tr> <td>or colored concrete finishing</td> <td style="text-align: right;">033510</td> </tr> <tr> <td></td> <td style="text-align: right;">033519</td> </tr> <tr> <td><b>Base:</b></td> <td></td> </tr> <tr> <td>Resilient</td> <td style="text-align: right;">096500</td> </tr> <tr> <td><b>Ceiling:</b></td> <td></td> </tr> <tr> <td>Suspended acoustical</td> <td style="text-align: right;">095113</td> </tr> <tr> <td><b>Walls:</b></td> <td></td> </tr> <tr> <td>Painted concrete masonry units</td> <td style="text-align: right;">042000/ 099100</td> </tr> <tr> <td><b><u>LOOSE FURNISHINGS:</u></b></td> <td></td> </tr> <tr> <td>(12) Two-person work tables</td> <td></td> </tr> <tr> <td>(24) Students chairs/stools</td> <td></td> </tr> <tr> <td>(1) Teacher station &amp; chair</td> <td></td> </tr> <tr> <td>Wastebasket</td> <td></td> </tr> <tr> <td><b><u>Electronic Safety and Security:</u></b></td> <td></td> </tr> <tr> <td>Life safety devices per code</td> <td style="text-align: right;">283111</td> </tr> </table>	<b><u>FINISHES:</u></b>	<b>Spec.</b>		<b><u>Ref #</u></b>	<b>Flooring:</b>		ET, rubber, sheet vinyl, linoleum,	096500	polished concrete finishing,	096516	or colored concrete finishing	033510		033519	<b>Base:</b>		Resilient	096500	<b>Ceiling:</b>		Suspended 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23	Independent temperature control	230923	<b><u>Electrical:</u></b>		Fluorescent lighting	265100	Illumination level: See Table 8600-4		Multilevel switching	262726	6 duplex receptacles	262726	Double duplex receptacle adjacent to each data and video port	262726	<b><u>Communications:</u></b>		1 <b>projector</b> video port	271543	1 voice port and phone	271513/273123	1 data port near teacher workstation	271513	<b><i>Wireless access point cable above ceiling</i></b>	<b>271513</b>	Clock	275313	Central sound system	275123	Sound reinforcement system	275127	<b><i>Ultra-short throw interactive projector</i></b>	<b>274119</b>	<b><i>Wireless access point (WAP) as determined by Design – refer to Note 4</i></b>	<b>272133</b>	<b><i>Classroom technology center video port</i></b>	<b>271543, 274116, 274119, 275127</b>	<b><i>Duplex receptacle with dedicated circuit for wireless devices</i></b>		<b><u>Miscellaneous:</u></b>		Pencil sharpener (optional)	
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**NOTES:**

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

**J4 / 07.0103 DENTAL LABORATORY TECHNOLOGY**

CHAPTER 6: CAREER-TECHNICAL SCHOOL

**CT-P2-1**

<b>PROGRAM DESCRIPTION:</b> Utilizing business and industry technical standards, math, science, ELA, social studies and technology within a business process framework. Introduces subject matter and experiences in producing restorative appliances authorized by a dentist.		<b>Spec. Ref.#</b>
<b>Program Type:</b> 2		
<b>Size Requirements:</b> 1,500 SF Lab		
<b>Lab Requirements:</b>		
<b>FINISHES:</b>	<b>Spec. Ref #</b>	
<b>Flooring:</b>		
ET, rubber, linoleum, sheet vinyl, polished concrete finishing, or colored concrete finishing	096500 096516 033510 033519	
<b>Base:</b>		
Resilient	096500	
<b>Ceiling:</b>		
Suspended acoustical	095113	
<b>Walls:</b>		
Painted concrete masonry units	042000/ 099100	
<b>LOOSE FURNISHINGS:</b>		
(24) Student stools/chairs		
(1) Teacher chair or stool		
(6) 4-person work tables with epoxy tops with gas and electric		
Wastebasket		
<b>Electronic Safety and Security:</b>		
Life safety devices per code	283111	
<b>Miscellaneous:</b>		
Pencil sharpener (optional)		
<b>Duplex receptacle with dedicated circuit for wireless devices</b>		
		<b>FEATURES<sup>1</sup>:</b>
		<b>Fixed Items:</b>
		24' of marker board, tack board, or tackable wall surface 101100
		40' of sink base cabinets with 6 sinks and natural gas 123550
		40' of wall cabinets 123550
		(6) Paper towel dispensers 102813
		Pencil sharpener support (optional) 062000
		Windows with integral blinds 085113
		Projection screen, 6'x8' 115213
		<b>Fire Suppression:</b>
		Fire suppression system 211000
		<b>Plumbing:</b>
		Plumbing connections 221116/221119/224000
		Safety shower/eyewash connections 224000
		Master shut-off for gas 226313
		Gas connections 226313
		<b>HVAC:</b>
		Supply/return air system Div. 23
		Independent temperature control 230923
		Grinding machine ventilation Div. 23
		Localized ventilation for specific lab-produced fumes Div. 23
		<b>Electrical:</b>
		Fluorescent lighting, parabolic lenses: 265100
		Illumination level: See Table 8600-5
		Multilevel switching 262726
		30 duplex receptacles (minimum) 262726
		Double duplex receptacle adjacent to each data and video port 262726
		<b>Communications:</b>
		1 <b>projector</b> video port 271543
		1 voice port and phone 271513/273123
		<b>Wireless access point cable above ceiling</b> 271513
		Clock 275313
		Central sound system 275123
		Sound reinforcement system 275127
		<b>Ultra-short throw interactive projector</b> 274119
		<b>Wireless access point (WAP) as determined by Design – refer to Note 4</b> 272133
		<b>Classroom technology center video port</b> 271543, 274116, 274119, 275127

**NOTES:**

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

**P3 / 17.2811 EMERGENCY MEDICAL TECHNICIAN - SECONDARY**

**CT-P2-1**

CHAPTER 6: CAREER-TECHNICAL SCHOOL

<p><b><u>PROGRAM DESCRIPTION:</u></b> Utilizing business and industry, math, science, and technology standards, instructs to the level of EMT-Basic. This course must include the Ohio Department of Public Safety approved EMT-Basic curriculum and be provided through an accredited ODPS provider. This course is a minimum of 450 hours with the ODPS curriculum limited to the senior level.</p> <p><b>Program Type:</b> 2</p> <p><b>Size Requirements:</b> 1,500 SF Lab</p> <p><b>Lab Requirements:</b></p> <p><b><u>FINISHES:</u></b></p> <p>Flooring:</p> <table border="0"> <tr> <td>ET, rubber, sheet vinyl, linoleum,</td> <td>096500</td> </tr> <tr> <td>polished concrete finishing,</td> <td>096516</td> </tr> <tr> <td>or colored concrete finishing</td> <td>033510</td> </tr> <tr> <td>Optional: carpet</td> <td>033519</td> </tr> <tr> <td></td> <td>096816</td> </tr> </table> <p>Base:</p> <table border="0"> <tr> <td>Resilient</td> <td>096500</td> </tr> </table> <p>Ceiling:</p> <table border="0"> <tr> <td>Suspended acoustical</td> <td>095113</td> </tr> </table> <p>Walls:</p> <table border="0"> <tr> <td>Painted concrete masonry units</td> <td>042000/ 099100</td> </tr> </table> <p><b><u>LOOSE FURNISHINGS:</u></b></p> <p>(12) Two-person work tables (24) Students chairs/stools (1) Teacher station &amp; chair Wastebasket</p> <p><b><u>Electronic Safety and Security:</u></b> Life safety devices per code 283111</p> <p><b><u>Miscellaneous:</u></b> Pencil sharpener (optional)</p>	ET, rubber, sheet vinyl, linoleum,	096500	polished concrete finishing,	096516	or colored concrete finishing	033510	Optional: carpet	033519		096816	Resilient	096500	Suspended acoustical	095113	Painted concrete masonry units	042000/ 099100	<p style="text-align: right;">Spec. <u>Ref.#</u></p> <p><b><u>FEATURES<sup>1</sup>:</u></b></p> <p><b><u>Fixed Items:</u></b></p> <table border="0"> <tr> <td>24' of marker board, tack board, or tackable wall surface</td> <td>101100</td> </tr> <tr> <td>30' of sink base cabinets w/2 sinks</td> <td>123550</td> </tr> <tr> <td>30' of wall cabinets</td> <td>123550</td> </tr> <tr> <td>Pencil sharpener support (optional)</td> <td>062000</td> </tr> <tr> <td>Windows with integral blinds</td> <td>085113</td> </tr> <tr> <td>Projection screen, 6'x8'</td> <td>115213</td> </tr> <tr> <td>(2) Paper towel dispensers</td> <td>102813</td> </tr> </table> <p><b><u>Fire Suppression:</u></b></p> <table border="0"> <tr> <td>Fire suppression system</td> <td>211000</td> </tr> </table> <p><b><u>Plumbing:</u></b></p> <table border="0"> <tr> <td>Plumbing connections</td> <td>221116/221119/224000</td> </tr> </table> <p><b><u>HVAC:</u></b></p> <table border="0"> <tr> <td>Supply/return air system</td> <td>Div. 23</td> </tr> <tr> <td>Independent temperature control</td> <td>230923</td> </tr> </table> <p><b><u>Electrical:</u></b></p> <table border="0"> <tr> <td>Fluorescent lighting</td> <td>265100</td> </tr> <tr> <td>illumination level: See Table 8600-5</td> <td></td> </tr> <tr> <td>Multilevel switching</td> <td>262726</td> </tr> <tr> <td>6 duplex receptacles</td> <td>262726</td> </tr> <tr> <td>Double duplex receptacle adjacent to each data and video port</td> <td>262726</td> </tr> </table> <p><b><u>Communications:</u></b></p> <table border="0"> <tr> <td>1 <b>projector</b> video port</td> <td>271543</td> </tr> <tr> <td>1 voice port and phone</td> <td>271513/273123</td> </tr> <tr> <td>1 data port near teacher workstation</td> <td>271513</td> </tr> <tr> <td><b>Wireless access point cable above ceiling</b></td> <td>271513</td> </tr> <tr> <td>Clock</td> <td>275313</td> </tr> <tr> <td>Central sound system</td> <td>275123</td> </tr> <tr> <td>Sound reinforcement system</td> <td>275127</td> </tr> <tr> <td><b>Ultra-short throw interactive projector</b></td> <td>274119</td> </tr> <tr> <td><b>Wireless access point (WAP) as determined by Design – refer to Note 4</b></td> <td>272133</td> </tr> <tr> <td><b>Classroom technology center video port</b></td> <td>271543, 274116, 274119, 275127</td> </tr> <tr> <td><b>Duplex receptacle with dedicated circuit for wireless devices</b></td> <td></td> </tr> </table>	24' of marker board, tack board, or tackable wall surface	101100	30' of sink base cabinets w/2 sinks	123550	30' of wall cabinets	123550	Pencil sharpener support (optional)	062000	Windows with integral blinds	085113	Projection screen, 6'x8'	115213	(2) Paper towel dispensers	102813	Fire suppression system	211000	Plumbing connections	221116/221119/224000	Supply/return air system	Div. 23	Independent temperature control	230923	Fluorescent lighting	265100	illumination level: See Table 8600-5		Multilevel switching	262726	6 duplex receptacles	262726	Double duplex receptacle adjacent to each data and video port	262726	1 <b>projector</b> video port	271543	1 voice port and phone	271513/273123	1 data port near teacher workstation	271513	<b>Wireless access point cable above ceiling</b>	271513	Clock	275313	Central sound system	275123	Sound reinforcement system	275127	<b>Ultra-short throw interactive projector</b>	274119	<b>Wireless access point (WAP) as determined by Design – refer to Note 4</b>	272133	<b>Classroom technology center video port</b>	271543, 274116, 274119, 275127	<b>Duplex receptacle with dedicated circuit for wireless devices</b>	
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**NOTES:**

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

**J6 / 07.0410 EXERCISE SCIENCE/SPORTS & RECREATION HEALTH CARE**

CHAPTER 6: CAREER-TECHNICAL SCHOOL

**CT-P2-1**

<b><u>PROGRAM DESCRIPTION:</u></b>	Utilizing business and industry technical standards and math, science, ELA, and technology framework in the study of organ systems, study of movement & associated functional response and adaptations, understanding scientific basis underlying exercise-induced physiological responses in athletic training, biomechanics, exercise physiology and nutrition for the prevention, diagnosis, and treatment of injuries.	<b><u>FEATURES<sup>1</sup>:</u></b>	Spec.
<b>Program Type:</b>	2	<b><u>Fixed Items:</u></b>	<b><u>Ref.#</u></b>
<b>Size Requirements:</b>	1,500 SF Lab	24' of marker board, tack board, or tackable wall surface 101100 30' of sink base cabinets w/2 sinks 123550 30' of wall cabinets 123550 Pencil sharpener support (optional) 062000 Windows with integral blinds 085113 Projection screen, 6'x8' 115213 (2) Paper towel dispensers 102813	
<b>Lab Requirements:</b>		<b><u>Fire Suppression:</u></b>	
<b><u>FINISHES:</u></b>	Spec. <b><u>Ref #</u></b>	Fire suppression system 211000	
<b>Flooring:</b>		<b><u>Plumbing:</u></b>	
ET, rubber, sheet vinyl, linoleum, polished concrete finishing, or colored concrete finishing 096500 Optional: carpet 033510 033519 096816		Plumbing connections 221116/221119/224000	
<b>Base:</b>		<b><u>HVAC:</u></b>	
Resilient 096500		Supply/return air system Div. 23 Independent temperature control 230923	
<b>Ceiling:</b>		<b><u>Electrical:</u></b>	
Suspended acoustical 095113		Fluorescent lighting 265100 Illumination level: See Table 8600-5 Multilevel switching 262726 6 duplex receptacles 262726 Double duplex receptacle adjacent to each data and video port 262726	
<b>Walls:</b>		<b><u>Communications:</u></b>	
Painted concrete masonry units 042000/ 099100		1 <b>projector</b> video port 271543 1 voice port and phone 271513/273123 1 data port near teacher workstation 271513 <b>Wireless access point cable above ceiling</b> 271513 Clock 275313 Central sound system 275123 Sound reinforcement system 275127 <b>Ultra-short throw interactive projector</b> 274119	
<b><u>LOOSE FURNISHINGS:</u></b>		<b>Wireless access point (WAP) as determined by Design – refer to Note 4</b> 272133	
(10) Training tables (24) Students chairs/stools (1) Teacher station & chair Wastebasket		<b>Classroom technology center video port</b> 271543, 274116, 274119, 275127	
<b><u>Electronic Safety and Security:</u></b>		<b>Duplex receptacle with dedicated circuit for wireless devices</b>	
Life safety devices per code 283111			
<b><u>Miscellaneous:</u></b>			
Pencil sharpener (optional)			

**NOTES:**

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

**J8 / 07.4840 HEALTH SUPPORT PATHWAY  
 JL / 07.4830 THERAPEUTIC PATHWAY  
 CT-P2-1**

CHAPTER 6: CAREER-TECHNICAL SCHOOL

<p><b><u>PROGRAM DESCRIPTION:</u></b>  <u>HSP:</u> Utilizing business and industry technical standards, math, science, ELA, social studies and technology within a business process framework. Instruction includes concepts, subject matter, and experiences for health support services careers, including operation, resource management, and esthetics and aseptic procedures of the physical plant to ensure a healthy and well-equipped environment in healthcare.  <u>TP:</u> A clustered program utilizing business and industry technical standards, math, science, ELA, social studies and technology within a business process framework. Instruction includes concepts, subject matter and experiences in health careers that focus on care and treatment of individuals for the promotion and maintenance of wellness; and the prevention and treatment of physical, mental, and emotional disorders.</p> <p><b>Program Type:</b> 2</p> <p><b>Size Requirements:</b> 1,500 SF Lab</p> <p><b>Lab Requirements:</b></p> <table border="0"> <tr> <td><b><u>FINISHES:</u></b></td> <td style="text-align: right;">Spec.</td> </tr> <tr> <td></td> <td style="text-align: right;"><u>Ref #</u></td> </tr> <tr> <td>Flooring:</td> <td></td> </tr> <tr> <td>ET, rubber, sheet vinyl, linoleum</td> <td style="text-align: right;">096500</td> </tr> <tr> <td>polished concrete finishing,</td> <td style="text-align: right;">096516</td> </tr> <tr> <td>or colored concrete finishing</td> <td style="text-align: right;">033510</td> </tr> <tr> <td></td> <td style="text-align: right;">033519</td> </tr> <tr> <td>Base:</td> <td></td> </tr> <tr> <td>Resilient</td> <td style="text-align: right;">096500</td> </tr> <tr> <td>Ceiling:</td> <td></td> </tr> <tr> <td>Suspended acoustical</td> <td style="text-align: right;">095113</td> </tr> <tr> <td>Walls:</td> <td></td> </tr> <tr> <td>Painted concrete masonry units</td> <td style="text-align: right;">042000/ 099100</td> </tr> </table> <p><b><u>LOOSE FURNISHINGS:</u></b>                  (12) Two-person work tables                  (24) Students chairs/stools                  (1) Teacher station &amp; chair                  Wastebasket</p>	<b><u>FINISHES:</u></b>	Spec.		<u>Ref #</u>	Flooring:		ET, rubber, sheet vinyl, linoleum	096500	polished concrete finishing,	096516	or colored concrete finishing	033510		033519	Base:		Resilient	096500	Ceiling:		Suspended acoustical	095113	Walls:		Painted concrete masonry units	042000/ 099100	<p style="text-align: right;">Spec. <u>Ref.#</u></p> <p><b><u>FEATURES<sup>1</sup>:</u></b>  <b><u>Fixed Items:</u></b>                  24' of marker board, tack board,                  or tackable wall surface 101100                  30' of sink base cabinets w/2 sinks 123550                  30' of wall cabinets 123550                  Pencil sharpener support (optional) 062000                  Windows with integral blinds 085113                  Projection screen, 6'x8' 115213                  (2) Paper towel dispensers 102813</p> <p><b><u>Fire Suppression:</u></b>                  Fire suppression system 211000</p> <p><b><u>Plumbing:</u></b>                  Plumbing connections                  221116/221119/224000</p> <p><b><u>HVAC:</u></b>                  Supply/return air system Div. 23                  Independent temperature control 230923</p> <p><b><u>Electrical:</u></b>                  Fluorescent lighting 265100                  Illumination level: See Table 8600-5                  Multilevel switching 262726                  6 duplex receptacles 262726                  Double duplex receptacle adjacent to                  each data and video port 262726</p> <p><b><u>Communications:</u></b>                  1 <b>projector</b> video port 271543                  1 voice port and phone 271513/273123                  1 data port near teacher workstation 271513  <b><i>Wireless access point cable above ceiling</i></b>                  271513                  Clock 275313                  Central sound system 275123                  Sound reinforcement system 275127  <b><i>Ultra-short throw interactive projector</i></b>                  274119  <b><i>Wireless access point (WAP) as                  determined by Design – refer to Note 4</i></b>                  272133  <b><i>Classroom technology center video port</i></b>                  271543, 274116, 274119, 275127</p> <p><b><u>Electronic Safety and Security:</u></b>                  Life safety devices per code 283111</p> <p><b><u>Miscellaneous:</u></b> Pencil sharpener (optional)  <b><i>Duplex receptacle with dedicated                  circuit for wireless devices</i></b></p>
<b><u>FINISHES:</u></b>	Spec.																										
	<u>Ref #</u>																										
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Suspended acoustical	095113																										
Walls:																											
Painted concrete masonry units	042000/ 099100																										

**NOTES:**

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

**J7 / 07.4890 HEALTH INFORMATION MANAGEMENT SERVICES  
J9 / 07.0913 HEALTH UNIT COORDINATOR**

CHAPTER 6: CAREER-TECHNICAL SCHOOL

**CT-P2-1**

**PROGRAM DESCRIPTION:**

**HIMS:** A clustered program utilizing business and industry technical standards, math, science, ELA, social studies, and technology within a business process framework. Introduces concepts, subject matter, and experiences for health careers that focus on compilation, maintenance and retrieval of records, and reports and statistical data on health services.

**HUC:** Utilizing business and industry technical standards, math, science, ELA, social studies, and technology within a business process framework. Introduces concepts, subject matter, and experiences to manage components of non-patient care activities in health care facilities.

**Program Type:** 2  
**Size Requirements:** 1,500 SF Lab  
**Lab Requirements:**

<u>FINISHES:</u>	Spec. Ref #
Flooring:	
ET, rubber, linoleum, sheet vinyl, polished concrete finishing, or colored concrete finishing	096500 096516 033510 033519
Base:	
Resilient	096500
Ceiling:	
Suspended acoustical	095113
Walls:	
Painted concrete masonry units	042000/ 099100

**LOOSE FURNISHINGS:**

- L1 (24) Student stools/chairs
- L2 (1) Teacher chair or stool
- L3 (4) Computer workstations
- L4 (12) 2-person work tables with epoxy tops with gas and electric Wastebasket

**Electronic Safety and Security:**

Life safety devices per code 283111

**Miscellaneous:** Pencil sharpener (optional)

**NOTES:**

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

**FEATURES<sup>1</sup>:**

**Fixed Items:**

		Spec. Ref.#
F1	24' of marker board, tack board, or tackable wall surface	101100
F2	Projection screen, 6'x8'	115213
F3	Demonstration table/teacher desk	123550
F4	60' of perimeter sink base cabinets with 5 sinks	123550
F5	30' of wall cabinets	123550
F6	(5) Paper towel dispensers	102813
F7	Safety shower/eyewash	224500
F8	Pencil sharpener support (optional)	062000
F9	Windows with integral blinds	085113
F10	Undercounter refrigerator	113100

**Fire Suppression:**

Fire suppression system 211000

**Plumbing:**

Plumbing connections  
221116/221119/224000  
Safety shower/eyewash connections 224000  
Master shut-off for gas 226313  
Gas connections 226313

**HVAC:**

Supply/return air system Div. 23  
Independent temperature control 230923  
Manual exhaust Div. 23

**Electrical:**

Fluorescent lighting, parabolic lenses:265100  
Illumination level: See Table 8600-5  
Multilevel switching 262726  
6 duplex receptacles (minimum) 262726  
Double duplex receptacle adjacent to each data and video port 262726  
Means of egress lighting per code 265100

**Communications:**

T1	1 <b>projector</b> video port	271543
T2	1 voice port and phone	271513/273123
T3	1 data port at demonstration table	271513
T4	<b>Wireless access point cable above ceiling</b>	271513
	Clock	275313
	Central sound system	275123
	Sound reinforcement system	275127
T5	Overhead projector	274119
T6	<b>Wireless access point (WAP) as determined by Design – refer to Note 4</b>	272133
T7	<b>Classroom technology center video port</b>	271543, 274116, 274119, 275127
E1	<b>Duplex receptacle with dedicated circuit for wireless devices</b>	

**JJ / 07.0302 PRACTICAL NURSING  
CT-P2-1**

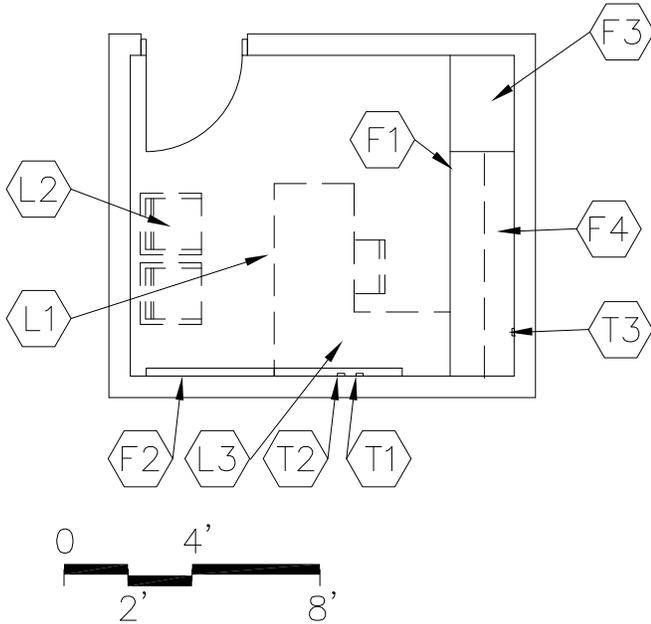
CHAPTER 6: CAREER-TECHNICAL SCHOOL

<p><b><u>PROGRAM DESCRIPTION:</u></b> A combination of subject matter and supervised clinical experiences designed to prepare a person to give direct nursing care under the supervision of a registered nurse, licensed physician, or dentist. Instruction includes safety and infection control, first-aid and CPR, legal and ethical responsibilities, coordinated care, goal-oriented care, environmental safety, treatments and procedures, physiological adaptation, mobility, comfort, basic care, psychosocial adaptation, growth and development, prevention and early treatment of disease, and reduction of risk potential.</p> <p><b>Program Type:</b> 2 <b>Size Requirements:</b> 1,500 SF Lab <b>Lab Requirements:</b></p> <table border="0"> <tr> <td style="width: 350px;"><b><u>FINISHES:</u></b></td> <td style="text-align: right;">Spec.</td> </tr> <tr> <td></td> <td style="text-align: right;"><b><u>Ref #</u></b></td> </tr> <tr> <td><b>Flooring:</b></td> <td></td> </tr> <tr> <td>ET, rubber,</td> <td style="text-align: right;">096500</td> </tr> <tr> <td>sheet vinyl, or linoleum</td> <td style="text-align: right;">096516</td> </tr> <tr> <td><b>Base:</b></td> <td></td> </tr> <tr> <td>Resilient</td> <td style="text-align: right;">096500</td> 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</table>	<b><u>FINISHES:</u></b>	Spec.		<b><u>Ref #</u></b>	<b>Flooring:</b>		ET, rubber,	096500	sheet vinyl, or linoleum	096516	<b>Base:</b>		Resilient	096500	<b>Ceiling:</b>		Suspended acoustical	095113	<b>Walls:</b>		Painted concrete masonry units	042000/ 099100	<b><u>LOOSE FURNISHINGS:</u></b>		(12) Two-person work tables		(24) Students chairs/stools		(1) Teacher station & chair		Wastebasket		<b><u>Electronic Safety and Security:</u></b>		Life safety devices per code	283111	<b><u>Miscellaneous:</u></b>		Pencil sharpener (optional)		<b><i>Duplex receptacle with dedicated circuit for wireless devices</i></b>		<p style="text-align: right;">Spec. <b><u>Ref.#</u></b></p> <p><b><u>FEATURES<sup>1</sup>:</u></b> <b><u>Fixed Items:</u></b></p> <table border="0"> <tr> <td>24' of marker board, tack board, or tackable wall surface</td> <td style="text-align: right;">101100</td> </tr> <tr> <td>30' of sink base cabinets w/2 sinks</td> <td style="text-align: right;">123550</td> </tr> <tr> <td>30' 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**NOTES:**

1. Finishes/Features: Refer to Chapter 9 for specification references.
2. Based on curriculum needs, a training restroom and laundry room may be included with this program in the allotted square footage for the lab. Space plates for training restroom and laundry room can be found on pages 6314-41 and 6314-42 – Patient Care Technician.
3. **Baseline includes WAP cable per classroom. WAP device quantity / placement per 272133 requirements.**

**CHAPTER 6: CAREER-TECHNICAL SCHOOL**



**PROGRAM ACTIVITIES:**

- Private space for program instructor
- One-on-one conferences with academic instructors, students, etc.

**SPATIAL RELATIONSHIPS:**

- Near related lab
- Direct access to school circulation areas

**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.

**OFFICE  
CT-P2-2**

## CHAPTER 6: CAREER-TECHNICAL SCHOOL

<u>FINISHES<sup>1</sup>:</u>	Spec. Ref.#	<u>FEATURES<sup>1</sup>:</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
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			
Wastebasket		<u>Electrical:</u>	
		Single level switching	262726
		Fluorescent lighting	265100
		Illumination level: See Table 8600-5	
		4 duplex receptacles	262726
		Double duplex receptacle adjacent	
		to data and video port	262726
		<u>Communications:</u>	
		T1 1 voice port and phone	271513/273123
		T2 1 data port near workstation	271513
		T3 1 <b>projector</b> video port	271543
		Central sound system	275123
		Clock	275313
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
		<u>Miscellaneous:</u>	
		N/A	

NOTES:

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

**PROGRAM ACTIVITIES:**

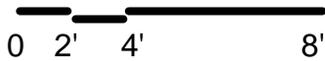
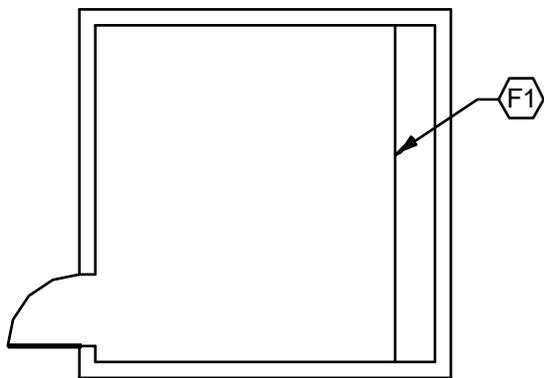
- Space for storage of lab equipment

**SPATIAL RELATIONSHIPS:**

- Near related lab

**ENVIRONMENTAL CONSIDERATIONS:**

N/A



CAPACITY:  
SIZE:

N/A  
200 SF

NOTES:

**STORAGE AREA  
CT-P2-3**
**CHAPTER 6: CAREER-TECHNICAL SCHOOL**

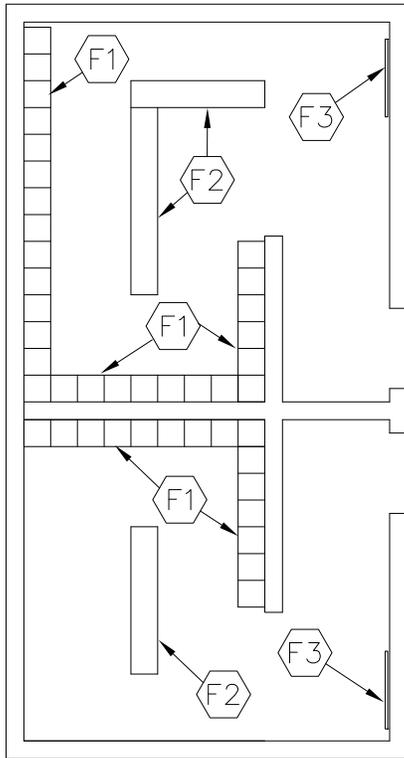
	Spec. Ref.#		Spec. Ref.#
<u>FINISHES<sup>1</sup>:</u>		<u>FEATURES<sup>1</sup>:</u>	
Flooring:		<u>Fixed Items<sup>1</sup>:</u>	
<b>Sealed</b> concrete	033000	F1 8'-20' of open shelving	
		Depth may vary (fixed or loose)	123550
Base:		<u>Fire Suppression:</u>	
Resilient base	096500	Fire suppression system	211000
Ceiling:		<u>Plumbing:</u>	
Exposed structure	---	N/A	
Walls:		<u>HVAC:</u>	
Painted concrete masonry units	042000/099100	To be determined by Design Professional	
		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 8600-5	
		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.

**CHANGING ROOM  
CT-P2-4**

**CHAPTER 6: CAREER-TECHNICAL SCHOOL**



50 total lockers

**PROGRAM ACTIVITIES:**

- Personal and health needs for the program Specific users.
- Changing of clothes and/or uniforms.
- Storage of personal items while students are in lab.

**SPATIAL RELATIONSHIPS:**

- Adjacent to related lab

**ENVIRONMENTAL CONSIDERATIONS:**

- Sanitary and durable finishes.
- Environmental sound control  
Wall minimum STC 40  
Ceiling minimum CAC 35, NRC 0.70

CAPACITY:  
SIZE:

N/A  
450 SF

**NOTES:**

1. Large and small changing areas are interchangeable for either males or females. Determination based on male/female ratio within each program.

**CHANGING ROOM  
CT-P2-4**
**CHAPTER 6: CAREER-TECHNICAL SCHOOL**

<u>FINISHES<sup>1</sup>:</u>	Spec. Ref.#	<u>FEATURES<sup>1</sup>:</u>	Spec. Ref.#
<u>Flooring:</u>		<u>Fixed Items<sup>1</sup>:</u>	
Polished concrete finishing, or colored concrete finishing	033510 033519	F1 Student lockers	105113
Optional: linoleum or rubber	096500 096516	F2 Locker benches	062000
		F3 24" x 60" mirror	102813
<u>Base:</u>		<u>Fire Suppression:</u>	
Resilient base	096500	Fire suppression system	211000
<u>Ceiling:</u>		<u>Plumbing:</u>	
Suspended, acoustical with high impact hold down clips	095113	N/A	
<u>Walls:</u>		<u>HVAC:</u>	
Painted concrete masonry units	042000 / 099100	Supply/Return air system	Div. 23
		Exhaust air system	Div. 23
		Supplemental heat as required	Div. 23
		Individual temperature control	230923
<u>LOOSE FURNISHINGS</u>		<u>Electrical:</u>	
Wastebaskets		Single level switching	262726
		Fluorescent lighting	265100
		Illumination level: See Table 8600-6	
		2 Duplex receptacles	262726
		Means of egress lighting per code	265100
		<u>Communications:</u>	
		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.

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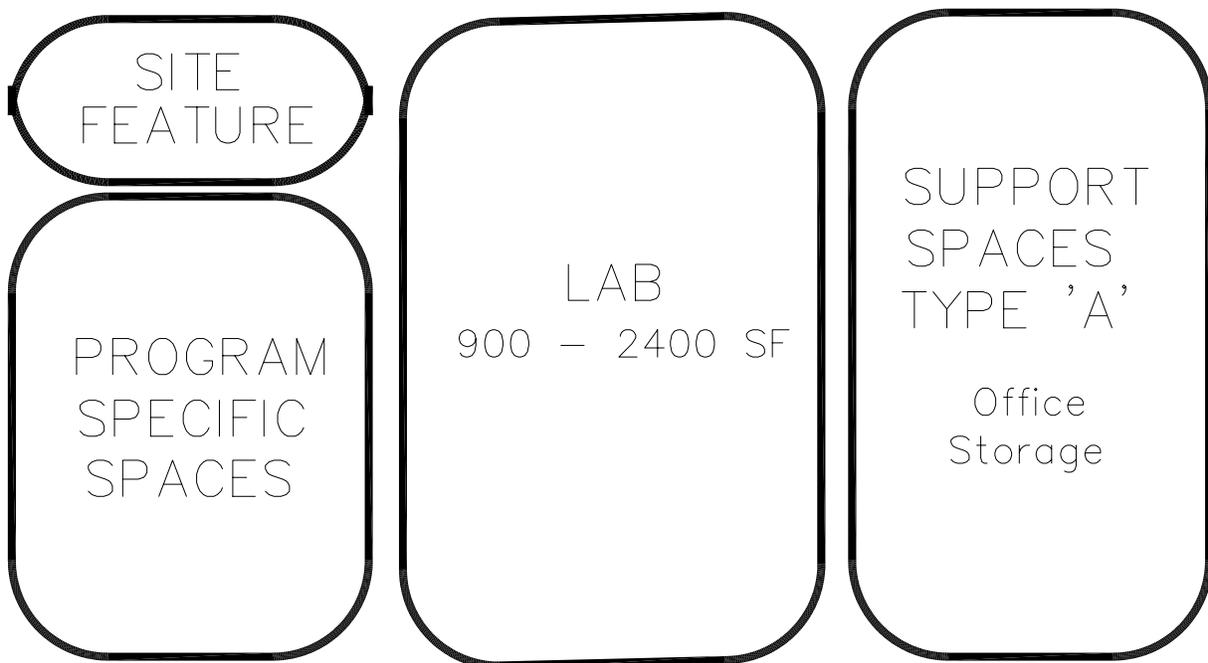
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**Program Type 3**

Description: Small to medium sized lab space with typical support space. Additionally, this program requires specialized auxiliary spaces and possible site features.

This program is to utilize standard construction and be one-story (16' +/- tall) tall. Lab, support, and specialty spaces to have finished floor, painted walls, and suspended acoustical ceiling.

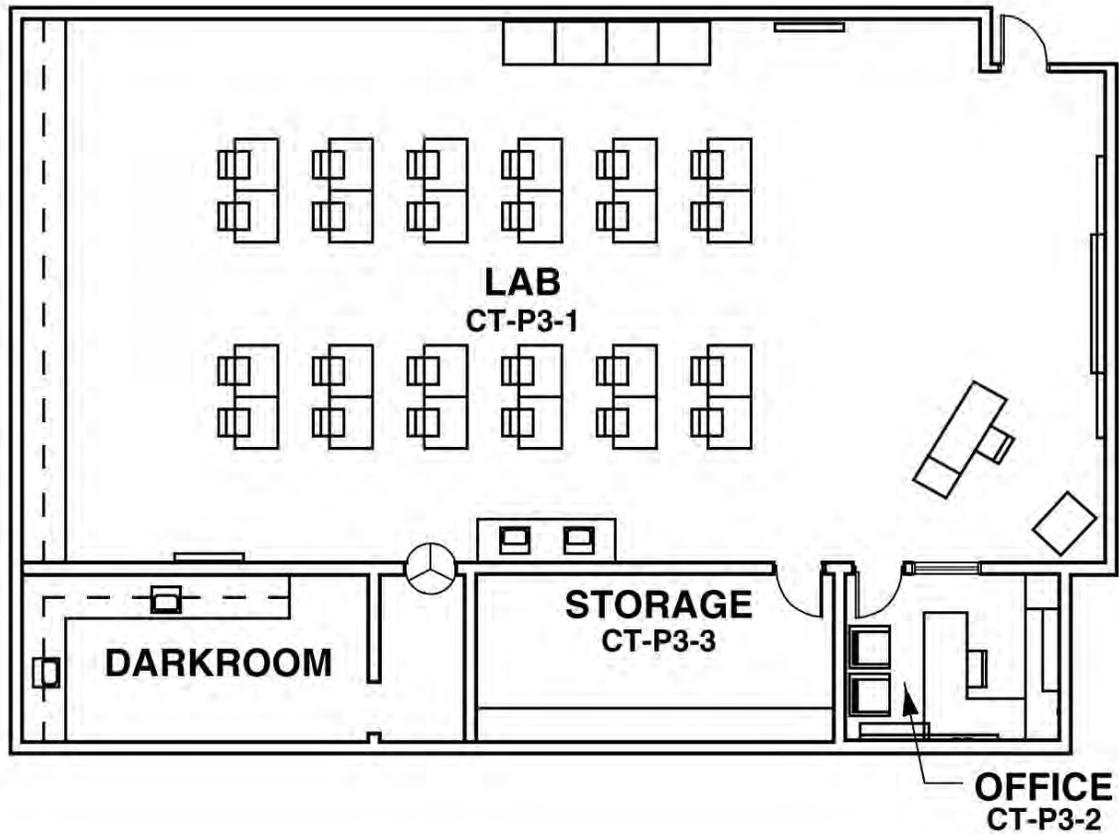
**NOTES:**

This is an example of how the Program Type 3 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 Program Type 3 space plates:

- CT-P3-1 Lab
- CT-P3-2 Office
- CT-P3-3 Storage

**PROGRAM TYPE 3  
EXAMPLE**

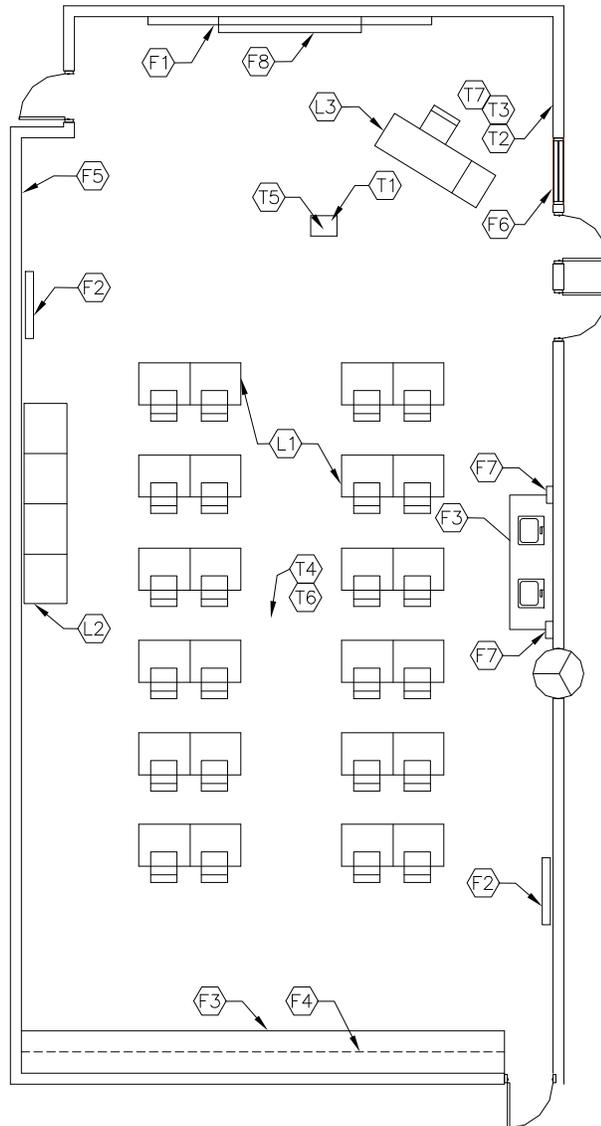


**Program Type 3**

This is an example to show the possible relationships of spaces for this program type.

**NOTES:**

1. See lab descriptions within this section for specific lab requirements, including program specific rooms.
2. See individual space plates at the end of this section for specific requirements for the storage room and office.



<p>CAPACITY: 24 Students                  SIZE: 900 – 2,400 SF                  (see lab summaries for exact sizes)                  ANCILLARY SPACES: CT-P3-2 and CT-P3-3</p>	
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**NOTES:**

1. Loose furnishings shown represent one of many possible arrangements.
2. Graphic plate is an example only. Other labs within this program are not drawn – refer to lab summaries within this program type for information on a particular lab.

**LAB**  
**CT-P1-1**

CHAPTER 6: CAREER-TECHNICAL SCHOOL

PROGRAM ACTIVITIES:

- Large and small group instruction
- Group and individual work
- Demonstrations

SPATIAL RELATIONSHIPS:

- Near other related labs
- Adjacent to typical support spaces
- Proximity to large group restrooms
- Located away from noisy or public activities
- Proximity to core academic area and common use areas
- 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. Finishes/Features: Refer to Chapter 9 for specification references.
2. Loose Furnishings: Refer to Lab Profiles within this section.
3. Loose Furnishings, fixed equipment, utility locations, and general footprint of room shown represent one of many possible arrangements.

**E0 / 35.0201 EARLY CHILDHOOD EDUCATION  
CT-P3-1**

CHAPTER 6: CAREER-TECHNICAL SCHOOL

<p><b><u>PROGRAM DESCRIPTION:</u></b> Preparation for employment in childcare services, child development, and early childhood education within the childcare and guidance industries.</p> <p><b>Program Type:</b> 3</p> <p><b>Size Requirements:</b> 1,500 SF Lab</p> <p><b>Lab Requirements:</b></p> <p><b><u>FINISHES:</u></b> Flooring: 30% Carpet 096816 70% ET, sheet vinyl, or linoleum 096500 096516</p> <p>Base: Resilient 096500</p> <p>Ceiling: Suspended acoustical 095113</p> <p>Walls: Painted concrete masonry units 042000/ 099100</p> <p><b><u>LOOSE FURNISHINGS:</u></b> Wastebasket</p> <p><b><u>Electronic Safety and Security:</u></b> Life safety devices per code 283111</p> <p><b><u>Miscellaneous:</u></b> Pencil sharpener (optional)</p> <p><b><i>Duplex receptacle with dedicated circuit for wireless devices</i></b></p>	<p style="text-align: right;">Spec. Ref.#</p> <p><b><u>FEATURES<sup>1</sup>:</u></b> <b><u>Fixed Items:</u></b> 32' of marker board, tack board, or tackable wall surface 101100 30' of wall cabinets 123550 30' of sink base cabinets with 1 sink 123550 10' of reception counter 123550 10' of toddler height sink base cabinets with 1 sink 123550 Pencil sharpener support (optional) 062000 Windows with integral blinds 085113 (2) Paper towel dispensers 102813 Projection screen, 6'x8' 115213</p> <p><b><u>Fire Suppression:</u></b> Fire suppression system 211000</p> <p><b><u>Plumbing:</u></b> Plumbing connections 221116/221119/224000 Toddler height drinking fountain 224000</p> <p><b><u>HVAC:</u></b> Supply/return air system Div. 23 Independent temperature control 230923</p> <p><b><u>Electrical:</u></b> Fluorescent lighting 265100 Illumination level: See Table 8600-5 Multilevel switching 262726 10 duplex receptacles 262726 Double duplex receptacle adjacent to each data and video port 262726</p> <p><b><u>Communications:</u></b> 1 <b>projector</b> video port 271543 1 voice port and phone 271513/273123 <b><i>Wireless access point cable above ceiling</i></b> 271513 Clock 275313 Central sound system 275123 Sound reinforcement system 275127 <b><i>Ultra-short throw interactive projector</i></b> 274119  <b><i>Wireless access point (WAP) as determined by Design – refer to Note 2</i></b> 272133  <b><i>Classroom technology center video port</i></b> 271543, 274116, 274119, 275127</p>
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**NOTES:**  
1. Finishes/Features: Refer to Chapter 9 for specification references.  
2. ***Baseline includes WAP cable per classroom. WAP device quantity / placement per 272133 requirements.***

**E0 / 35.0201 EARLY CHILDHOOD EDUCATION**  
**CT-P3-1 CHAPTER 6: CAREER-TECHNICAL SCHOOL**

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SITE FEATURES:

Playground Area

- Provide 60 SF per child served
- Follow applicable safety guidelines for different age groups.
- Plan for play activities that include rocking, swinging, balancing, climbing, and sliding.
- Locate equipment with moving parts, such as swings, at the perimeter of the play area. Use fence or planting beds to prevent children from inadvertently stepping into path of moving equipment.
- Surfacing is to be resilient and installed at a sufficient depth to meet current safety guidelines. It should be a non-splintering surface where children may be crawling. Avoid using black surfacing.
- Provide edging to keep loose soft surfacing within bounds of the play area. Depress soft surfacing material below edging. Provide underground drain system and geotextile below soft surfacing.
- Increase the depth of soft surface material in areas of high use such as the base of swings and slides.
- Possible play equipment includes the following: swing set, modular play structure, tot track, four square, and hop scotch.
- Protect entire play area with fencing.



**E0 / 35.0201 EARLY CHILDHOOD EDUCATION**  
**Infants Room**

## CHAPTER 6: CAREER-TECHNICAL SCHOOL

		Spec.
		Ref.#
<b>Program Type:</b>	3	
<b>Size Requirements:</b>	700 SF	
<b>Requirements:</b>		
<u>FINISHES:</u>	Spec.	
	<u>Ref #</u>	
Flooring:		
Carpet	096816	
ET, sheet vinyl	096500	
or linoleum at sink	096516	
Base:		
Resilient	096500	
Ceiling:		
Suspended acoustical	095113	
Walls:		
Painted concrete masonry units	042000/ 099100	
<u>LOOSE FURNISHINGS:</u>		
Staff chair		
12' of bookcases		
3 playpens		
12 cribs		
2 rocking chairs		
Table 18"x24"x18"		
Stool		
File cabinet		
Wastebasket		
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		
		123550
		123550
		123550
		088000/081113
		101100
		102813
		211000
		221116/221119/224000
		221116/221119/224000
		Div. 23
		230923
		265100
		262726
		262726
		262726
		271543
		271513/273123
		271513
		275313
		275123
		283111
		N/A

NOTES:

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

**E0 / 35.0201 EARLY CHILDHOOD EDUCATION  
Kitchen/Break Room**

## CHAPTER 6: CAREER-TECHNICAL SCHOOL

		Spec. Ref.#
<b>Program Type:</b>	3	
<b>Size Requirements:</b>	350 SF	
<b>Requirements:</b>		
<u>FINISHES:</u>	Spec. <u>Ref #</u>	
Flooring:		
ET, sheet vinyl, or linoleum	096500	
	096516	
Base:		
Resilient	096500	
Ceiling:		
Suspended acoustical	095113	
Walls:		
Painted concrete masonry units	042000/ 099100	
<u>LOOSE FURNISHINGS:</u>		
2 Work tables		
Staff table and chairs		
Refrigerator/freezer		
Range and oven		
Microwave		
Dishwasher		
<b>ENVIRONMENTAL CONSIDERATIONS:</b>		
• 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		
	<u>FEATURES<sup>1</sup>:</u>	
	<u>Fixed Items:</u>	
	30' of base cabinets w/1 sink	123550
	30' of tall storage cabinets	123550
	9' of wall cabinets	123550
	1 Coiling counter door	083300
	4' of tack board	101100
	Paper towel dispenser	102813
	<u>Fire Suppression:</u>	
	Fire suppression system	211000
	<u>Plumbing:</u>	
	Plumbing connections	221116/221119/224000
	<u>HVAC:</u>	
	Supply/return air system	Div. 23
	Independent temperature control	230923
	Kitchen exhaust system	Div. 23
	<u>Electrical:</u>	
	Fluorescent lighting	265100
	Illumination level: See Table 8600-5	
	Single level switching	262726
	4 duplex receptacles	262726
	<u>Communications:</u>	
	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.



**E0 / 35.0201 EARLY CHILDHOOD EDUCATION  
Toddler Restroom**

CHAPTER 6: CAREER-TECHNICAL SCHOOL

<p><b>Program Type:</b> 3</p> <p><b>Size Requirements:</b> 60 SF</p> <p><b>Requirements:</b></p> <p><u>FINISHES:</u> Flooring: Rubber, linoleum, ET, or sheet vinyl Optional: ceramic mosaic tile, porcelain tile base, or resinous flooring</p> <p>Base: Resilient Optional ceramic mosaic tile base, porcelain tile base, or resinous flooring</p> <p>Ceiling: Suspended acoustical</p> <p>Walls: Painted concrete masonry units</p> <p><u>LOOSE FURNISHINGS:</u> Wastebasket</p> <p><u>ENVIRONMENTAL CONSIDERATIONS:</u></p> <ul style="list-style-type: none"> <li>▪ Wall minimum STC 48</li> <li>▪ Ceiling minimum CAC 35, NRC 0.70</li> </ul>	<p style="text-align: right;">Spec. Ref.#</p> <p><u>FEATURES<sup>1</sup>:</u> <u>Fixed Items:</u> Paper towel dispenser 102813 Soap dispenser 102813 36" and 42" grab bars 102813 24"x60" mirror 102813 Toilet paper holder 102813 Baby changing station 102813</p> <p><u>Fire Suppression:</u> Fire suppression system 211000</p> <p><u>Plumbing:</u> Toddler height sink Toddler height toilet Plumbing connections 221116/221119/224000</p> <p><u>HVAC:</u> Exhaust air system Div. 23 Supplemental heat as required Div. 23</p> <p><u>Electrical:</u> Fluorescent lighting 265100 Illumination level: See Table 8600-5 Single level switching 262726</p> <p><u>Communications:</u> Central sound system 275123</p> <p><u>Electronic Safety and Security:</u> Life safety devices per code 283111</p> <p><u>Miscellaneous:</u> N/A</p>
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NOTES:

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

**E0 / 35.0201 EARLY CHILDHOOD EDUCATION  
Reception**
**CHAPTER 6: CAREER-TECHNICAL SCHOOL**

		Spec. Ref.#
<b>Program Type:</b>	3	
<b>Size Requirements:</b>	500 SF	
<b>Requirements:</b>		
<u>FINISHES:</u>	<u>Spec. Ref #</u>	
Flooring:		
Carpet	096816	
Rubber in vestibule	096500	
Base:		
Resilient	096500	
Ceiling:		
Suspended acoustical	095113	
Walls:		
Painted concrete masonry units	042000/ 099100	
<u>LOOSE FURNISHINGS:</u>		
Visitor chairs		
End table		
<u>ENVIRONMENTAL CONSIDERATIONS:</u>		
▪ Wall minimum STC 48		
▪ Ceiling minimum CAC 35, NRC 0.70		
		<u>FEATURES<sup>1</sup>:</u>
		<u>Fixed Items:</u>
		Interior windows 088000/081113
		4' of tack board 101100
		Literary display cabinet 123550
		Doors with power assist 087100
		Windows with integral blinds 085113
		<u>Fire Suppression:</u>
		Fire suppression system 211000
		<u>Plumbing:</u>
		N/A
		<u>HVAC:</u>
		Supply/return air system Div. 23
		Independent temperature control 230923
		<u>Electrical:</u>
		Fluorescent lighting 265100
		Illumination level: See Table 8600-5
		Single level switching 262726
		2 duplex receptacles 262726
		Means of egress lighting per code 265100
		<u>Communications:</u>
		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.



**S1 / 04.4110 ENTREPRENEURSHIP**  
**S3 / 04.0815 MARKETING COMMUNICATIONS**  
**S4 / 04.0810 MARKETING MANAGEMENT**  
**Bookstore**

## CHAPTER 6: CAREER-TECHNICAL SCHOOL

		Spec. Ref.#
<b>Program Type:</b>	3	
<b>Size Requirements:</b>	800 SF	
<b>Requirements:</b>		
<u>FINISHES:</u>	<u>Spec. Ref #</u>	
Flooring:		
Carpet	096816	
Optional: ET, sheet vinyl, or linoleum	096500 096516	
Base:		
Resilient	096500	
Ceiling:		
Suspended acoustical	095113	
Walls:		
<b>Paint</b>	099100	
<u>LOOSE FURNISHINGS:</u>		
Stool		
Wastebasket		
<u>ENVIRONMENTAL CONSIDERATIONS:</u>		
• 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		
		<u>FEATURES<sup>1</sup>:</u>
		<u>Fixed Items:</u>
		8' of plastic laminate counter      062000
		75' of base cabinet                 123550
		75' of adjustable display wall system 060565
		Interior window                     088000/081113
		<u>Fire Suppression:</u>
		Fire suppression system           211000
		<u>Plumbing:</u>
		N/A
		<u>HVAC:</u>
		Supply/return air system          Div. 23
		Independent temperature control   230923
		<u>Electrical:</u>
		Fluorescent lighting               265100
		Illumination level: See Table 8600-5
		Track lighting                       265100
		Multilevel switching                262726
		6 duplex receptacles (minimum)   262726
		Double duplex receptacle adjacent to each data port                   262726
		<u>Communications:</u>
		2 data ports                         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.

**04.4110 ENTREPRENEURSHIP  
04.0815 MARKETING COMMUNICATIONS  
04.0810 MARKETING MANAGEMENT**

CHAPTER 6: CAREER-TECHNICAL SCHOOL

**Display**

<b>Program Type:</b> 3			Spec. <u>Ref.#</u>
<b>Size Requirements:</b> 100 SF		<u>FEATURES<sup>1</sup>:</u> <u>Fixed Items:</u> 10' of adjustable shelving	
<b>Requirements:</b>	Spec. <u>Ref #</u>	062000 Interior window	
<u>FINISHES:</u>		088000/081113	
Flooring:		<u>Fire Suppression:</u> Fire suppression system	
Rubber	096500	211000	
Base:		<u>Plumbing:</u> N/A	
Resilient	096500	<u>HVAC:</u> Supply/return air system	Div.
Ceiling:		23	
Suspended acoustical	095113	Independent temperature control	
Walls:		230923	
<b>Paint</b>	099100	<u>Electrical:</u> Fluorescent lighting	
<u>LOOSE FURNISHINGS:</u>		265100	
N/A		265100	
		262726	
<u>ENVIRONMENTAL CONSIDERATIONS:</u>		265100	
· Required: View glass – minimum 5% without daylighting design; minimum 3% with daylighting design. Recommended: Daylighting design with glazing area determined by design solution.		262726	
· Environmental sound control - wall only minimum STC 45 ceiling minimum CAC 35, NRC 0.70		265100	
		262726	
		262726	
		262726	
		<u>Communications:</u> 1 data port	
		271523	
		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.

**04.4110 ENTREPRENEURSHIP**  
**04.0815 MARKETING COMMUNICATIONS**  
**04.0810 MARKETING MANAGEMENT**  
**Display**

CHAPTER 6: CAREER-TECHNICAL SCHOOL

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**T5 / 17.0403 GROUND OPERATIONS**

CHAPTER 6: CAREER-TECHNICAL SCHOOL

**CT-P3-1**

<b>PROGRAM DESCRIPTION:</b>		<b>Spec.</b>
<b>FINISHES:</b>		<b>Ref.#</b>
This program is geared toward the Airport Environment and activities concerning the ground support of commercial aircraft, terminal and hanger activities.		
<b>Program Type:</b>	3	
<b>Size Requirements:</b>	1,500 SF Lab	
Lab Requirements:		
Carpet	096816	
Option: ET, sheet vinyl, or linoleum	096500	
	096516	
Base:		
Resilient	096500	
Ceiling:		
Suspended acoustical	095113	
Walls:		
Painted concrete masonry units	042000/ 099100	
<b>LOOSE FURNISHINGS:</b>		
(24) Student stools/chairs		
(12) 2-person work tables w/epoxy tops		
Wastebasket		
<b>Electronic Safety and Security:</b>		
Life safety devices per code	283111	
<b>Miscellaneous:</b>		
Pencil sharpener (optional)		
<b>E1 Duplex receptacle with dedicated circuit for wireless devices</b>		
<b>FEATURES<sup>1</sup>:</b>		
<b>Fixed Items:</b>		
24' of marker board, tack board, or tackable wall surface		101100
30' of wall cabinets		123550
30' of sink base cabinets w/2 sinks		123550
Pencil sharpener support (optional)		062000
Windows with integral blinds		085113
(2) Paper towel dispensers		102813
Projection screen 6'x8'		115213
<b>Fire Suppression:</b>		
Fire suppression system		211000
<b>Plumbing:</b>		
Plumbing connections		221116/221119/224000
<b>HVAC:</b>		
Supply/return air system		Div. 23
Independent temperature control		230923
<b>Electrical:</b>		
Fluorescent lighting		265100
Illumination level: See Table 8600-5		
Multilevel switching		262726
20 duplex receptacles		262726
Double duplex receptacle adjacent to each data and video port		262726
<b>Communications:</b>		
1 <b>projector</b> video port		271543
1 voice port and phone		271513/273123
<b>Wireless access point cable above ceiling</b>		
		271513
Clock		275313
Central sound system		275123
Sound reinforcement system		275127
<b>Ultra-short throw interactive projector</b>		
		274119
<b>Wireless access point (WAP) as determined by Design – refer to Note 2</b>		
		<b>272133</b>
<b>Classroom technology center video port</b>		
		<b>271543, 274116, 274119, 275127</b>

**NOTES:**

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

**T5 / 17.0403 GROUND OPERATIONS**  
**Reference Room**

## CHAPTER 6: CAREER-TECHNICAL SCHOOL

		Spec. Ref.#
<b>Program Type:</b>	3	
<b>Size Requirements:</b>	150 SF	
<b>Requirements:</b>		
<b><u>FINISHES:</u></b>	<b><u>Spec. Ref #</u></b>	
Flooring:		
Carpet	096816	
Option: ET, sheet vinyl, or linoleum	096500 096516	
Base:		
Resilient	096500	
Ceiling:		
Suspended acoustical	095113	
Walls:		
Painted concrete masonry units	042000/ 099100	
<b><u>LOOSE FURNISHINGS:</u></b>		
Student chairs		
Wastebasket		
<b>ENVIRONMENTAL CONSIDERATIONS:</b>		
• 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		
		<b><u>FEATURES<sup>1</sup>:</u></b>
		<b><u>Fixed Items:</u></b>
		34' of plastic laminate counter      062000
		27' of adjustable shelving          062000
		Interior window                      088000/081113
		<b><u>Fire Suppression:</u></b>
		Fire suppression system            211000
		<b><u>Plumbing:</u></b>
		N/A
		<b><u>HVAC:</u></b>
		Supply/return air system          Div. 23
		Independent temperature control   230923
		<b><u>Electrical:</u></b>
		Fluorescent lighting               265100
		Illumination level: See Table 8600-5
		Single level switching             262726
		2 duplex receptacles               262726
		Double duplex receptacle adjacent to each data port                    262726
		<b><u>Communications:</u></b>
		6 data ports                         271513
		Clock                                 275313
		Central sound system                275123
		<b><u>Electronic Safety and Security:</u></b>
		Life safety devices per code       283111
		<b><u>Miscellaneous:</u></b>
		N/A

**NOTES:**

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

**L1 / 33.0010 LODGING  
CT-P3-1**

CHAPTER 6: CAREER-TECHNICAL SCHOOL

		Spec. Ref.#
<b><u>PROGRAM DESCRIPTION:</u></b>		
Educational programs in lodging prepare learners for careers in the management, marketing and operations of lodging facilities.		
<b>Program Type:</b>	3	
<b>Size Requirements:</b>	1,500 SF Lab	
<b>Lab Requirements:</b>		
	Spec. <u>Ref #</u>	
<b><u>FINISHES:</u></b>		
Flooring:		
Carpet	096816	
Optional: ET, sheet vinyl, or linoleum	096500 096516	
Base:		
Resilient	096500	
Ceiling:		
Suspended acoustical	095113	
Walls:		
Painted concrete masonry units	042000/ 099100	
<b><u>LOOSE FURNISHINGS:</u></b>		
(8) Work stations		
(24) Student stools/chairs		
(1) Teacher station & chair		
Wastebasket		
<b><u>Electronic Safety and Security:</u></b>		
Life safety devices per code	283111	
<b><u>Miscellaneous:</u></b>		
Pencil sharpener (optional)		
<b>E1 Duplex receptacle with dedicated circuit for wireless devices</b>		
<b><u>Communications (cont'd):</u></b>		
<b>Wireless access point (WAP) as determined by Design – refer to Note 3</b>		<b>272133</b>
<b>Classroom technology center video port</b>		<b>271543, 274116, 274119, 275127</b>
<b><u>FEATURES<sup>1</sup>:</u></b>		
<b><u>Fixed Items:</u></b>		
24' of marker board, tack board, or tackable wall surface		101100
24' of wall cabinets		123550
24' of sink base cabinets w/2 sinks		123550
14' of reception counter		123550
Pencil sharpener support (optional)		062000
Windows with integral blinds		085113
(2) Paper towel dispensers		102813
(2) Garbage disposals		113100
(2) Dishwashers		113100
(2) Ovens		113100
(2) Refrigerators		113100
(2) Microwave ovens		113100
(1) Washer and Dryer		113100
Projection screen, 6'x8'		115213
<b><u>Fire Suppression:</u></b>		
Fire suppression system		211000
<b><u>Plumbing:</u></b>		
1 Utility sink		
Plumbing connections		221116/221119/224000
<b><u>HVAC:</u></b>		
Supply/return air system		Div. 23
Independent temperature control		230923
Localized exhaust at laundry/linen area and oven area		Div. 23
<b><u>Electrical:</u></b>		
Fluorescent lighting		265100
Illumination level: See Table 8600-5		
Multilevel switching		262726
20 duplex receptacles		262726
Double duplex receptacle adjacent to each data and video port		262726
<b><u>Communications:</u></b>		
1 <b>projector</b> video port		271543
1 voice port and phone		271513/273123
<b>Wireless access point cable above ceiling</b>		271513
Clock		275313
Central sound system		275123
Sound reinforcement system		275127
<b>Ultra-short throw interactive projector</b>		274119

**NOTES:**

1. Finishes/Features: Refer to Chapter 9 for specification references.
2. Based on curriculum needs, a training restroom and laundry room may be included with this program in the allotted square footage for the lab. Space plates for training restroom and laundry room can be found on pages 6314-41 and 6314-42 – Patient Care Technician.
3. **Baseline includes WAP cable per classroom. WAP device quantity / placement per 272133 requirements.**

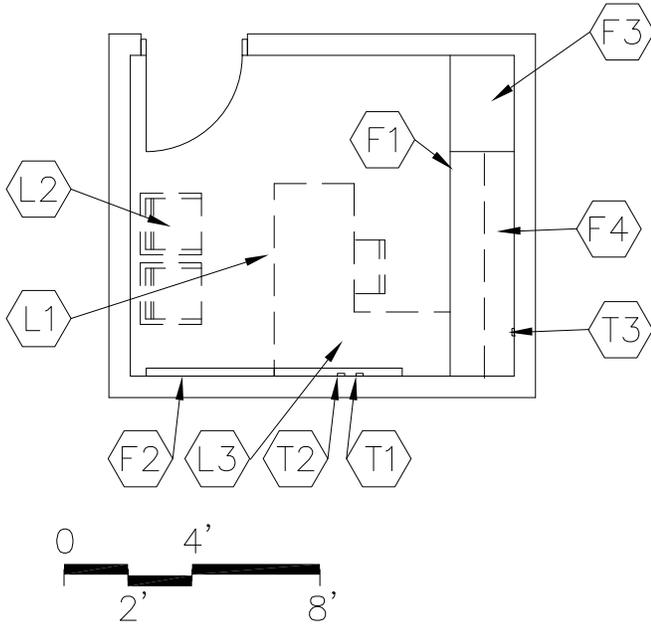
**L1 / 33.0010 LODGING  
Banquet Room**

## CHAPTER 6: CAREER-TECHNICAL SCHOOL

		Spec. Ref.#	
<b>Program Type:</b>	3		
<b>Size Requirements:</b>	800 SF		
<b>Requirements:</b>			
<u>FINISHES:</u>	Spec. Ref #		
Flooring:			
Carpet	096816		
Option: ET, sheet vinyl, or linoleum	096500 096516		
Base:			
Resilient	096500		
Ceiling:			
Suspended acoustical	095113		
Walls:			
Painted concrete masonry units	042000/ 099100		
<u>LOOSE FURNISHINGS:</u>			
N/A			
<b>ENVIRONMENTAL CONSIDERATIONS:</b>			
• 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			
		<b>FEATURES<sup>1</sup>:</b>	
		<u>Fixed Items:</u>	
		8' of base cabinets	123550
		<u>Fire Suppression:</u>	
		Fire suppression system	211000
		<u>Plumbing:</u>	
		N/A	
		<u>HVAC:</u>	
		Supply/return air system	Div. 23
		Independent temperature control	230923
		<u>Electrical:</u>	
		Fluorescent lighting	265100
		Illumination level: See Table 8600-5	
		Single level switching	262726
		4 duplex receptacles	262726
		Double duplex receptacle adjacent to each data port	262726
		<u>Communications:</u>	
		2 data ports	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.



**PROGRAM ACTIVITIES:**

- Private space for program instructor
- One-on-one conferences with academic instructors, students, etc.

**SPATIAL RELATIONSHIPS:**

- Near related lab
- Direct access to school circulation areas

**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.

**OFFICE  
CT-P3-2**

## CHAPTER 6: CAREER-TECHNICAL SCHOOL

<u>FINISHES</u> <sup>1</sup> :	Spec. Ref.#	<u>FEATURES</u> <sup>1</sup> :	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
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			
Wastebasket		<u>Electrical:</u>	
		Single level switching	262726
		Fluorescent lighting	265100
		Illumination level: See Table 8600-5	
		4 duplex receptacles	262726
		Double duplex receptacle adjacent	
		to data and video port	262726
		<u>Communications:</u>	
		T1 1 voice port and phone	271513/273123
		T2 1 data port near workstation	271523
		T3 1 <b>projector</b> video port	271543
		Central sound system	275123
		Clock	275313
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
		<u>Miscellaneous:</u>	
		N/A	

NOTES:

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

**PROGRAM ACTIVITIES:**

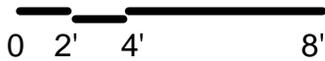
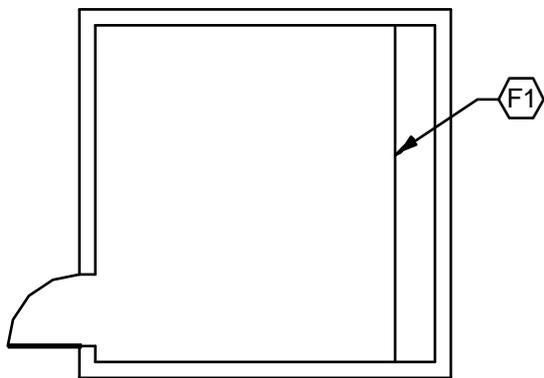
- Space for storage of lab equipment

**SPATIAL RELATIONSHIPS:**

- Near related lab

**ENVIRONMENTAL CONSIDERATIONS:**

N/A



CAPACITY:  
SIZE:

N/A  
200 SF

NOTES:

**STORAGE AREA  
CT-P3-3**
**CHAPTER 6: CAREER-TECHNICAL SCHOOL**

	Spec. Ref.#		Spec. Ref.#
<b><u>FINISHES<sup>1</sup>:</u></b>		<b><u>FEATURES<sup>1</sup>:</u></b>	
Flooring:		<b><u>Fixed Items<sup>1</sup>:</u></b>	
<b>Sealed</b> concrete	033000	F1 8'-20' of open shelving	
		Depth may vary (fixed or loose)	123550
Base:		<b><u>Fire Suppression:</u></b>	
Resilient base	096500	Fire suppression system	211000
Ceiling:		<b><u>Plumbing:</u></b>	
Exposed structure	---	N/A	
Walls:		<b><u>HVAC:</u></b>	
Painted concrete masonry units	042000/099100	To be determined by Design Professional	
		Supplemental heat as required	Div. 23
<b><u>LOOSE FURNISHINGS:</u></b>		<b><u>Electrical:</u></b>	
N/A		Single level switching	262726
		Fluorescent lighting	265100
		Illumination level: See Table 8600-5	
		Duplex receptacles	262726
		<b><u>Communications:</u></b>	
		N/A	
		<b><u>Electronic Safety and Security:</u></b>	
		Life safety devices per code	283111
		<b><u>Miscellaneous:</u></b>	
		N/A	

**NOTES:**

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

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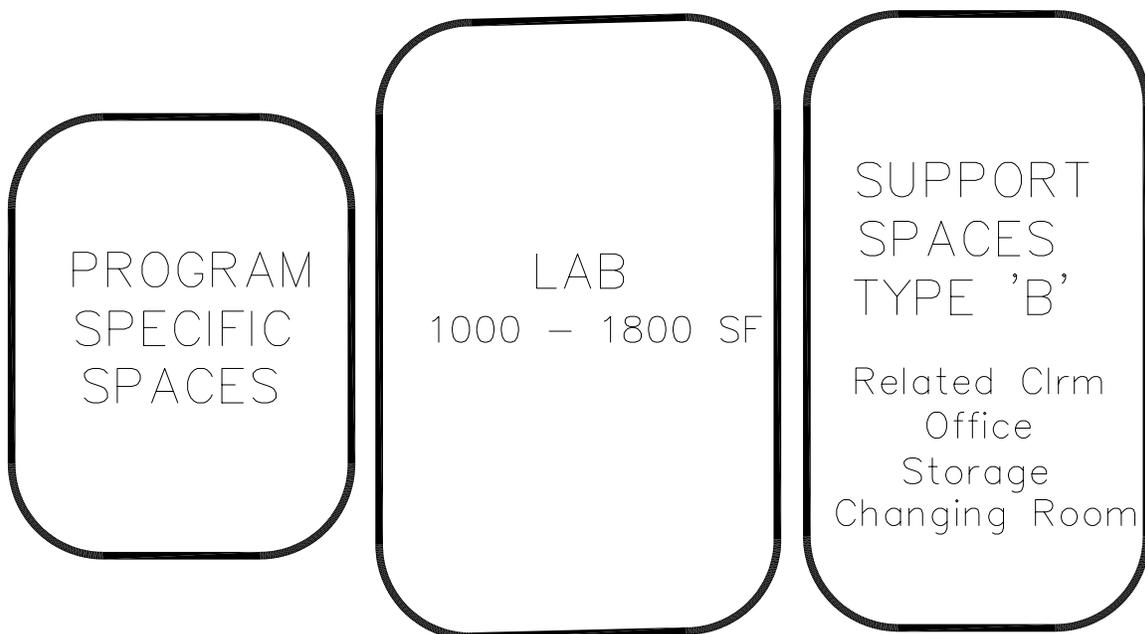
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**Program Type 4**

Description: Small to medium sized lab space with typical support space. Additionally, this program requires specialized auxiliary spaces. This program is to utilize standard construction and be one-story (12' +/-) tall. Lab, support, and specialized space to have finished floor, painted walls, and suspended acoustical ceiling.

**NOTES:**

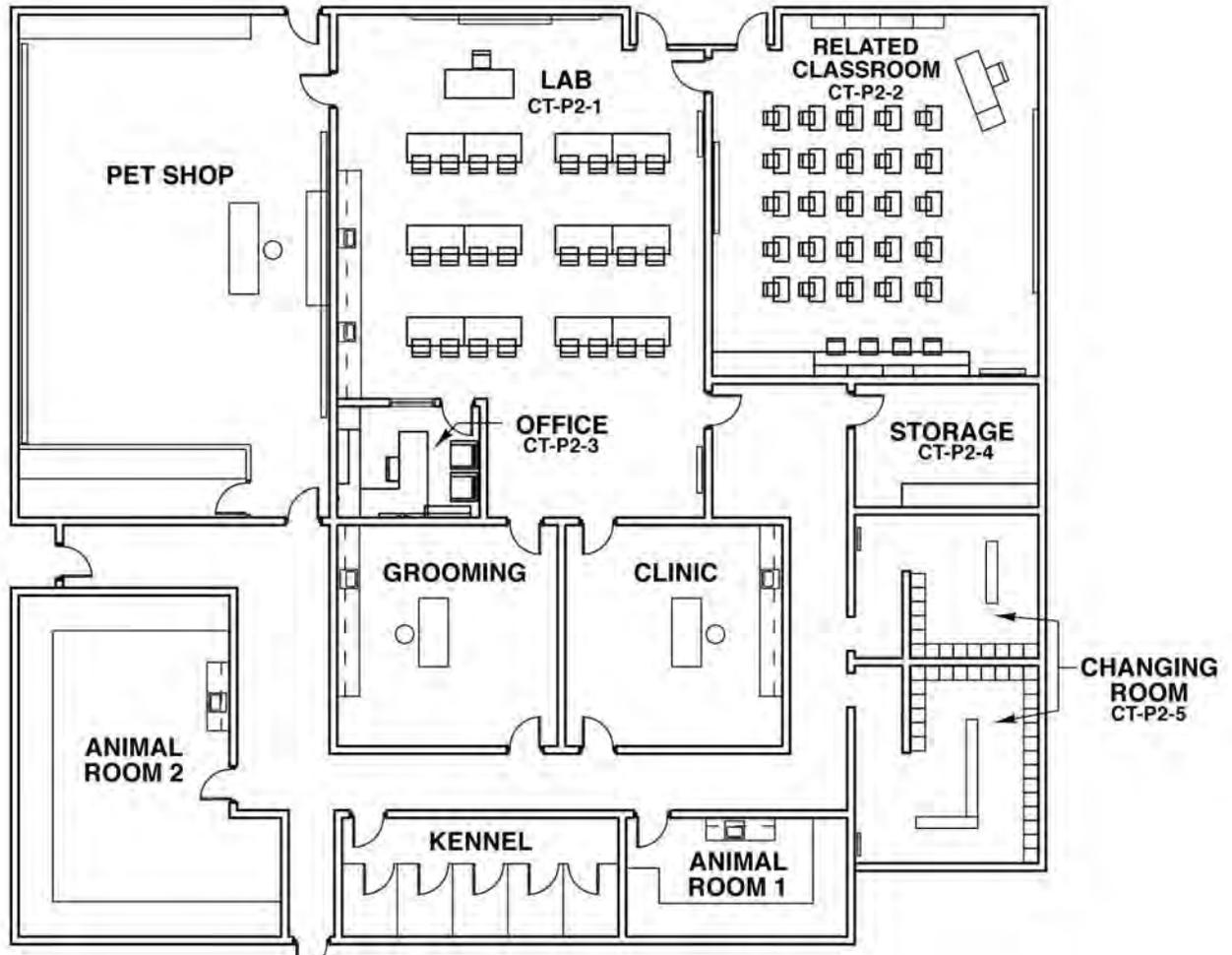
This is an example of how the Program Type 4 spaces in a career-technical school could be arranged. This is meant only to demonstrate the relationships between various spaces of this area.

Following are the Program Type 4 space plates:

- CT-P4-1 Lab
- CT-P4-2 Related Classroom
- CT-P4-3 Office
- CT-P4-4 Storage
- CT-P4-5 Changing Room

**PROGRAM TYPE 4  
EXAMPLE**

CHAPTER 6: CAREER-TECHNICAL SCHOOL

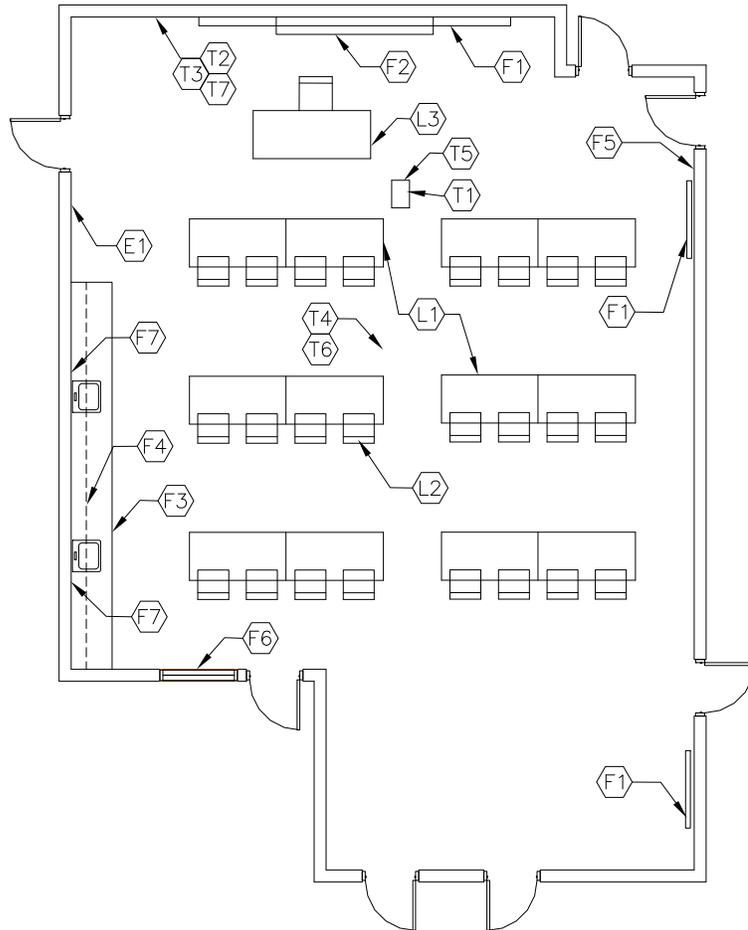


**Program Type 4: Animal Science and Management (small animal)**

This is an example to show the possible relationships of spaces for this program type.

**NOTES:**

1. See lab descriptions within this section for specific lab requirements.
2. See individual space plates at the end of this section for specific requirements.



CAPACITY:	24 Students
SIZE:	1,000 – 1,800 SF
	(see lab summaries for exact sizes)
ANCILLARY SPACES:	CT-P4-2 thru CT-P4-5

**NOTES:**

1. Loose furnishings shown represent one of many possible arrangements.
2. Graphic plate is an example only. Other labs within this program are not drawn – refer to lab summaries within this program type for information on a particular lab.

**LAB**  
**CT-P4-1**

CHAPTER 6: CAREER-TECHNICAL SCHOOL

PROGRAM ACTIVITIES:

- Large and small group instruction
- Group and individual work
- Demonstrations

SPATIAL RELATIONSHIPS:

- Near other related labs
- Adjacent to typical support spaces
- Proximity to large group restrooms
- Located away from noisy or public activities
- Proximity to core academic area and common use areas
- 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. Finishes/Features: Refer to Chapter 9 for specification references.
2. Loose Furnishings: Refer to Lab Profiles within this section.
3. Loose Furnishings, fixed equipment, utility locations, and general footprint of room shown represent one of many possible arrangements.

**A2 / 01.0901 ANIMAL SCIENCE AND MANAGEMENT (small animal)**

CHAPTER 6: CAREER-TECHNICAL SCHOOL

**CT-P4-1**

<b>PROGRAM DESCRIPTION:</b>		<b>FEATURES<sup>1</sup>:</b>		Spec.
		<b>Fixed Items:</b>		<b>Ref.#</b>
Applies principles of animal anatomy, physiology, genetics, behavior and nutrition to the research and development, selection and reproduction, health, and management of animals in a domestic and/or natural environment.		F1	24' of marker board, tack board, or tackable wall surface	101100
<b>Program Type:</b> 4		F2	Reserved	
<b>Size Requirements:</b> 1,000 SF Lab		F3	20' of sink base cabinets w/2 sinks	123550
<b>Lab Requirements:</b>		F4	20' of wall cabinets	123550
		F5	Pencil sharpener support (optional)	062000
		F6	Windows with integral blinds	085113
		F7	(2) Paper towel dispenser	102813
		F8	Projection screen, 6'x8'	115213
		<b>Fire Suppression:</b>		
			Fire suppression system	211000
		<b>Plumbing:</b>		
			Plumbing connections	221116/221119/224000
			Handwashing lavatory	224000
<b>FINISHES:</b>		<b>HVAC:</b>		
Flooring:			Supply/return air system	Div. 23
ET,			Independent temperature control	230923
sheet vinyl, linoleum,			<b>Electrical:</b>	
polished concrete finishing,			Fluorescent lighting	265100
or colored concrete finishing			Illumination level: See Table 8600-5	
			Multilevel switching	262726
			10 duplex receptacles	262726
			Double duplex receptacle adjacent to each data and video port	262726
Base:		<b>Communications:</b>		
Resilient			T1 1 <b>projector</b> video port	271543
			T2 1 voice port and phone	271513/273123
			T3 <b>Wireless access point cable above ceiling</b>	271513
			Clock	275313
			Central sound system	275123
			Sound reinforcement system	275127
			T4 <b>Ultra-short throw interactive</b> projector	274119
			T5 <b>Wireless access point (WAP) as determined by Design – refer to Note 2</b>	272133
			T6 <b>Classroom technology center video port</b>	271543, 274116, 274119, 275127
		<b>Electronic Safety and Security:</b>		
			Life safety devices per code	283111
<b>Base:</b>				
Resilient		096500		
<b>Ceiling:</b>				
Suspended acoustical		095113		
<b>Walls:</b>				
Painted concrete masonry units		042000/ 099100		
<b>LOOSE FURNISHINGS:</b>				
L1 (12) Two-person work tables				
L2 (24) Student chairs/stools				
L3 (1) Teacher station & chair				
Wastebasket				
<b>Miscellaneous:</b>				
Pencil sharpener (optional)				
<b>SITE FEATURE:</b>				
Plan for a dog kennel if required by school curriculum requirements.				

**NOTES:**

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



**A2 / 01.0901 ANIMAL SCIENCE AND MANAGEMENT (small animal)****CHAPTER 6: CAREER-TECHNICAL SCHOOL****Clinic**

<b>Program Type:</b> 4		<b>FEATURES<sup>1</sup>:</b>	Spec.
<b>Size Requirements:</b> 350 SF		<b>Fixed Items:</b>	<b>Ref.#</b>
<b>Requirements:</b>		15' of base cabinets w/1 sink	123550
		15' of wall cabinets	123550
		6' examination island	123550
		Paper towel dispenser	102813
	Spec.	<b>Fire Suppression:</b>	
<b>FINISHES:</b>	<b>Ref #</b>	Fire suppression system	211000
Flooring:		<b>Plumbing:</b>	
ET, sheet vinyl, linoleum,	096500	Plumbing connections	221116/221119/224000
polished concrete finishing,	096516		
or colored concrete finishing	033510	<b>HVAC:</b>	
	033519	Supply/return air system	Div. 23
Base:		Independent temperature control	230923
Resilient	096500	Independent ventilation	Div. 23
Ceiling:		<b>Electrical:</b>	
Suspended acoustical	095113	Fluorescent lighting	265100
Walls:		Illumination level: See Table 8600-5	
Painted concrete masonry units	042000/ 099100	Single level switching	262726
		4 duplex receptacles	262726
<b>LOOSE FURNISHINGS:</b>		Double duplex receptacle adjacent to each data port	262726
Stool		<b>Communications:</b>	
Wastebasket		2 data ports	271513
		Clock	275313
		Central sound system	275123
<b>ENVIRONMENTAL CONSIDERATIONS:</b>		<b>Electronic Safety and Security:</b>	
• Required: View glass – minimum 5% without daylighting design; minimum 3% with daylighting design.		Life safety devices per code	283111
Recommended: Daylighting design with glazing area determined by design solution.		<b>Miscellaneous:</b>	
• Environmental sound control - wall only minimum STC 45 ceiling minimum CAC 35, NRC 0.70		N/A	

**NOTES:**

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

**A2 / 01.0901 ANIMAL SCIENCE AND MANAGEMENT (small animal)**

**Grooming**

CHAPTER 6: CAREER-TECHNICAL SCHOOL

<p><b>Program Type:</b> 4</p> <p><b>Size Requirements:</b> 350 SF</p> <p><b>Requirements:</b></p> <p><u>FINISHES:</u>                  Flooring:                  ET, sheet vinyl, linoleum,                  polished concrete finishing,                  or colored concrete finishing</p> <p>Base:                  Resilient</p> <p>Ceiling:                  Suspended acoustical</p> <p>Walls:                  Painted concrete masonry units</p> <p><u>LOOSE FURNISHINGS:</u>                  Stool                  Wastebasket</p> <p><b>ENVIRONMENTAL CONSIDERATIONS:</b></p> <ul style="list-style-type: none"> <li>• Required: View glass – minimum 5% without daylighting design; minimum 3% with daylighting design.                      Recommended: Daylighting design with glazing area determined by design solution.</li> <li>• Environmental sound control -                      wall only minimum STC 45                      ceiling minimum CAC 35, NRC 0.70</li> </ul>	<p style="text-align: right;">Spec. Ref.#</p> <p><u>FEATURES<sup>1</sup>:</u>  <u>Fixed Items:</u>                  15' of base cabinets w/1 sink 123550                  15' of wall cabinets 123550                  6' grooming island 123550                  Paper towel dispenser 102813</p> <p><u>Fire Suppression:</u>                  Fire suppression system 211000</p> <p><u>Plumbing:</u>                  Plumbing connections                  221116/221119/224000</p> <p><u>HVAC:</u>                  Supply/return air system Div. 23                  Independent temperature control 230923                  Independent ventilation Div. 23</p> <p><u>Electrical:</u>                  Fluorescent lighting 265100                  Illumination level: See Table 8600-5                  Single level switching 262726                  4 duplex receptacles 262726                  Double duplex receptacle adjacent to                  each data port 262726</p> <p><u>Communications:</u>                  2 data ports 271513                  Clock 275313                  Central sound system 275123</p> <p><u>Electronic Safety and Security:</u>                  Life safety devices per code 283111</p> <p><u>Miscellaneous:</u>                  N/A</p>
---	--

NOTES:

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



**A2 / 01.0901 ANIMAL SCIENCE AND MANAGEMENT (small animal)**

**Animal Room #2**

CHAPTER 6: CAREER-TECHNICAL SCHOOL

<b>Program Type:</b> 4			<b>FEATURES<sup>1</sup>:</b>	Spec.
<b>Size Requirements:</b> 600 SF			<u>Fixed Items:</u>	<u>Ref.#</u>
<b>Requirements:</b>			6' of base cabinets w/1 sink	123550
			6' of wall cabinets	123550
			50' of animal cage shelving	062000
			Paper towel dispenser	102813
	Spec.		<u>Fire Suppression:</u>	
<u>FINISHES:</u>	<u>Ref #</u>		Fire suppression system	211000
Flooring:			<u>Plumbing:</u>	
ET, sheet vinyl, linoleum,	096500		Plumbing connections	
polished concrete finishing,	096516		221116/221119/224000	
or colored concrete finishing	033510		Handwashing lavatory	224000
	033519		<u>HVAC:</u>	
Base:			Supply/return air system	Div. 23
Resilient	096500		Independent ventilation	Div. 23
Ceiling:			<u>Electrical:</u>	
Suspended acoustical	095113		Fluorescent lighting	265100
Walls:			Illumination level: See Table 8600-5	
Painted concrete masonry units	042000/ 099100		Single level switching	262726
			4 duplex receptacles	262726
<u>LOOSE FURNISHINGS:</u>			<u>Communications:</u>	
Stool			Central sound system	275123
Wastebasket			<u>Electronic Safety and Security:</u>	
			Life safety devices per code	283111
<u>ENVIRONMENTAL CONSIDERATIONS:</u>			<u>Miscellaneous:</u>	
<ul style="list-style-type: none"> <li>Required: View glass – minimum 5% without daylighting design; minimum 3% with daylighting design. Recommended: Daylighting design with glazing area determined by design solution.</li> <li>Environmental sound control - wall only minimum STC 45 ceiling minimum CAC 35, NRC 0.70</li> </ul>			N/A	

**NOTES:**

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

**A2 / 01.0901 ANIMAL SCIENCE AND MANAGEMENT (small animal)**

## CHAPTER 6: CAREER-TECHNICAL SCHOOL

**Kennel**

		Spec. Ref.#
<b>Program Type:</b>	4	
<b>Size Requirements:</b>	250 SF	
<b>Requirements:</b>		
<u>FINISHES:</u>	Spec. Ref #	
Flooring:		
<b>Sealed</b> concrete	033000	
Base:		
Resilient	096500	
Ceiling:		
Suspended acoustical	095113	
Walls:		
Painted concrete masonry units	042000/ 099100	
<u>LOOSE FURNISHINGS:</u>		
Wastebasket		
<b>ENVIRONMENTAL CONSIDERATIONS:</b>		
• 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		
		<b>FEATURES<sup>1</sup>:</b>
		<u>Fixed Items:</u>
		60' of chain link fencing w/5 gates 323113
		(5) exterior animal access doors 323113
		<u>Fire Suppression:</u>
		Fire suppression system 211000
		<u>Plumbing:</u>
		Plumbing connections 221116/221119/224000
		Keyed hose bibb 224000
		Floor drain 224000
		<u>HVAC:</u>
		Supply/return air system Div. 23
		Independent ventilation Div. 23
		<u>Electrical:</u>
		Fluorescent lighting 265100
		Illumination level: See Table 8600-5
		Single level switching 262726
		4 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.

**P0 /17.2810 CAREER PATHS FOR THE LAW PROFESSION**

**P1 /17.2802 CRIMINAL JUSTICE**

**P5 /17.2808 PRIVATE SECURITY**

**CT-P4-1**

CHAPTER 6: CAREER-TECHNICAL SCHOOL

<p><b>PROGRAM DESCRIPTION:</b>  <u>CPLP:</u> Introduction of career major courses and application of knowledge and skills to prepare students for entry level, technical and professional career options within the law and public administration professions.  <u>CJ:</u> Utilizing business and industry, math, science and technology standards. Introduces concept of training provided by officially designated law enforcement agencies. The program must be certified by the Ohio Peace Officers Training Commission.  <u>PS:</u> A one-year program utilizing business and industry, math, science and technology standards. Introduces concept of physical and personal security, internal loss, and facility access.</p> <p><b>Program Type:</b> 4  <b>Size Requirements:</b> 1,200 SF Lab          Lab Requirements:</p> <table border="0"> <tr> <td></td> <td style="text-align: right;">Spec.</td> </tr> <tr> <td></td> <td style="text-align: right;"><u>Ref #</u></td> </tr> </table> <p><b>FINISHES:</b></p> <p>Flooring:</p> <table border="0"> <tr> <td>Carpet</td> <td style="text-align: right;">096816</td> </tr> <tr> <td>Option: ET, sheet vinyl, or linoleum</td> <td style="text-align: right;">096500 096516</td> </tr> </table> <p>Base:</p> <table border="0"> <tr> <td>Resilient</td> <td style="text-align: right;">096500</td> </tr> </table> <p>Ceiling:</p> <table border="0"> <tr> <td>Suspended acoustical</td> <td style="text-align: right;">095113</td> </tr> </table> <p>Walls:</p> <table border="0"> <tr> <td>Painted concrete masonry units</td> <td style="text-align: right;">042000/ 099100</td> </tr> </table> <p><b>LOOSE FURNISHINGS:</b></p> <p>(12) Two-person work tables          (24) Student chairs/stools          (1) Teacher station &amp; chair          Wastebasket</p> <p><b>Miscellaneous:</b>          Pencil sharpener (optional)</p>		Spec.		<u>Ref #</u>	Carpet	096816	Option: ET, sheet vinyl, or linoleum	096500 096516	Resilient	096500	Suspended acoustical	095113	Painted concrete masonry units	042000/ 099100	<p><b>FEATURES<sup>1</sup>:</b></p> <p><u>Fixed Items:</u></p> <table border="0"> <tr> <td>32' of marker board, tack board, or tackable wall surface</td> <td style="text-align: right;">101100</td> </tr> <tr> <td>30' of sink base cabinets w/1 sink</td> <td style="text-align: right;">123550</td> </tr> <tr> <td>30' of wall cabinets</td> <td style="text-align: right;">123550</td> </tr> <tr> <td>Pencil sharpener support (optional)</td> <td style="text-align: right;">062000</td> </tr> <tr> <td>Windows with integral blinds</td> <td style="text-align: right;">085113</td> </tr> <tr> <td>Paper towel dispenser</td> <td style="text-align: right;">102813</td> </tr> <tr> <td>Projection screen, 6'x8'</td> <td style="text-align: right;">115213</td> </tr> </table> <p><u>Fire Suppression:</u></p> <table border="0"> <tr> <td>Fire suppression system</td> <td style="text-align: right;">211000</td> </tr> </table> <p><u>Plumbing:</u></p> <table border="0"> <tr> <td>Plumbing connections</td> <td style="text-align: right;">221116/221119/224000</td> </tr> </table> <p><u>HVAC:</u></p> <table border="0"> <tr> <td>Supply/return air system</td> <td style="text-align: right;">Div. 23</td> </tr> <tr> <td>Independent temperature control</td> <td style="text-align: right;">230923</td> </tr> </table> <p><u>Electrical:</u></p> <table border="0"> <tr> <td>Fluorescent lighting</td> <td style="text-align: right;">265100</td> </tr> <tr> <td>illumination level: See Table 8600-5</td> <td></td> </tr> <tr> <td>Multilevel switching</td> <td style="text-align: right;">262726</td> </tr> <tr> <td>20 duplex receptacles (minimum)</td> <td style="text-align: right;">262726</td> </tr> <tr> <td>Double duplex receptacle adjacent to each data and video port</td> <td style="text-align: right;">262726</td> </tr> </table> <p><u>Communications:</u></p> <table border="0"> <tr> <td>1 <b>projector</b> video port</td> <td style="text-align: right;">271543</td> </tr> <tr> <td>1 voice port and phone</td> <td style="text-align: right;">271513/273123</td> </tr> <tr> <td><b>Wireless access point cable above ceiling</b></td> <td style="text-align: right;">271513</td> </tr> <tr> <td>Clock</td> <td style="text-align: right;">275313</td> </tr> <tr> <td>Central sound system</td> <td style="text-align: right;">275123</td> </tr> <tr> <td>Sound reinforcement system</td> <td style="text-align: right;">275127</td> </tr> <tr> <td><b>Ultra-short throw interactive projector</b></td> <td style="text-align: right;">274119</td> </tr> <tr> <td><b>Wireless access point (WAP) as determined by Design – refer to Note 2</b></td> <td style="text-align: right;"><b>272133</b></td> </tr> <tr> <td><b>Classroom technology center video port</b></td> <td style="text-align: right;"><b>271543, 274116, 274119, 275127</b></td> </tr> </table> <p><u>Electronic Safety and Security:</u></p> <table border="0"> <tr> <td>Life safety devices per code</td> <td style="text-align: right;">283111</td> </tr> <tr> <td><b>Duplex receptacle with dedicated circuit for wireless devices</b></td> <td></td> </tr> </table>	32' of marker board, tack board, or tackable wall surface	101100	30' of sink base cabinets w/1 sink	123550	30' of wall cabinets	123550	Pencil sharpener support (optional)	062000	Windows with integral blinds	085113	Paper towel dispenser	102813	Projection screen, 6'x8'	115213	Fire suppression system	211000	Plumbing connections	221116/221119/224000	Supply/return air system	Div. 23	Independent temperature control	230923	Fluorescent lighting	265100	illumination level: See Table 8600-5		Multilevel switching	262726	20 duplex receptacles (minimum)	262726	Double duplex receptacle adjacent to each data and video port	262726	1 <b>projector</b> video port	271543	1 voice port and phone	271513/273123	<b>Wireless access point cable above ceiling</b>	271513	Clock	275313	Central sound system	275123	Sound reinforcement system	275127	<b>Ultra-short throw interactive projector</b>	274119	<b>Wireless access point (WAP) as determined by Design – refer to Note 2</b>	<b>272133</b>	<b>Classroom technology center video port</b>	<b>271543, 274116, 274119, 275127</b>	Life safety devices per code	283111	<b>Duplex receptacle with dedicated circuit for wireless devices</b>	
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**NOTES:**

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

**P0 / 17.2810 CAREER PATHS FOR THE LAW PROFESSION  
P1 / 17.2802 CRIMINAL JUSTICE  
P5 / 17.2808 PRIVATE SECURITY**

CHAPTER 6: CAREER-TECHNICAL SCHOOL

**Weight Room**

<b>Program Type:</b> 4			<u>FEATURES<sup>1</sup>:</u>		Spec.
<b>Size Requirements:</b> 800 SF			<u>Fixed Items:</u>		<u>Ref.#</u>
			N/A		
<b>Requirements:</b>			<u>Fire Suppression:</u>		
			Fire suppression system		211000
			<u>Plumbing:</u>		
			N/A		
<u>FINISHES:</u>			<u>HVAC:</u>		
<u>Flooring:</u>			Supply/return air system		Div. 23
ET, sheet vinyl, or linoleum		Spec. <u>Ref #</u>	Independent temperature control		230923
Option: Sealed concrete		096500			
		096516	<u>Electrical:</u>		
		033000	Fluorescent lighting		265100
<u>Base:</u>			Illumination level: See Table 8600-5		
Resilient		096500	Single level switching		262726
<u>Ceiling:</u>			4 duplex receptacles		262726
Suspended acoustical		095113	<u>Communications:</u>		
<u>Walls:</u>			Clock		275313
Painted concrete masonry units		042000/ 099100	Central sound system		275123
			<u>Electronic Safety and Security:</u>		
<u>LOOSE FURNISHINGS:</u>			Life safety devices per code		283111
N/A			<u>Miscellaneous:</u>		
			N/A		
<b>ENVIRONMENTAL CONSIDERATIONS:</b>					
<ul style="list-style-type: none"> <li>• Required: View glass – minimum 5% without daylighting design; minimum 3% with daylighting design. Recommended: Daylighting design with glazing area determined by design solution.</li> <li>• Environmental sound control - wall only minimum STC 45 ceiling minimum CAC 35, NRC 0.70</li> </ul>					

NOTES:

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

**P0 /17.2810 CAREER PATHS FOR THE LAW PROFESSION****P1 /17.2802 CRIMINAL JUSTICE****P5 /17.2808 PRIVATE SECURITY****Interrogation Room**

## CHAPTER 6: CAREER-TECHNICAL SCHOOL

		Spec. Ref.#	
<b>Program Type:</b>	4		
<b>Size Requirements:</b>	150 SF		
<b>Requirements:</b>			
<b>FINISHES:</b>	Spec. Ref #		
<b>Flooring:</b>			
ET, sheet vinyl, or linoleum	096500 096516		
<b>Base:</b>			
Resilient	096500		
<b>Ceiling:</b>			
Suspended acoustical	095113		
<b>Walls:</b>			
Painted concrete masonry units	042000/ 099100		
<b>LOOSE FURNISHINGS:</b>			
(1) Table			
(4) Chairs			
<b>ENVIRONMENTAL CONSIDERATIONS:</b>			
<ul style="list-style-type: none"> <li>Required: View glass – minimum 5% without daylighting design; minimum 3% with daylighting design. Recommended: Daylighting design with glazing area determined by design solution.</li> <li>Environmental sound control - wall only minimum STC 45 ceiling minimum CAC 35, NRC 0.70</li> </ul>			
		<b>FEATURES<sup>1</sup>:</b>	
		<b>Fixed Items:</b>	
		N/A	
		<b>Fire Suppression:</b>	
		Fire suppression system	211000
		<b>Plumbing:</b>	
		N/A	
		<b>HVAC:</b>	
		Supply/return air system	Div. 23
		Independent temperature control	230923
		<b>Electrical:</b>	
		Fluorescent lighting	265100
		Illumination level: See Table 8600-5	
		Single level switching	262726
		4 duplex receptacles	262726
		Double duplex receptacle adjacent to data port	262726
		<b>Communications:</b>	
		1 data port	271513
		Clock	275313
		Central sound system	275123
		<b>Electronic Safety and Security:</b>	
		Life safety devices per code	283111
		<b>Miscellaneous:</b>	
		N/A	

**NOTES:**

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



**J1 / 07.1100 CLINICAL HEALTH CARE SERVICES**  
**JD / 07.0303 NURSE ASSISTING**  
**JB / 07.0904 MEDICAL ASSISTANT**  
**Training Restroom**

CHAPTER 6: CAREER-TECHNICAL SCHOOL

		Spec. Ref.#
<b>Program Type:</b>	4	
<b>Size Requirements:</b>	120 SF	
<b>Requirements:</b>		
<u>FINISHES:</u>	Spec. Ref #	
Flooring:		
Rubber, linoleum, ET, or sheet vinyl	096500 096516	
Option: ceramic mosaic tile, porcelain tile base, or resinous flooring	093000 096723	
Base:		
Resilient	096500	
Option: ceramic mosaic tile base, porcelain tile base, or resinous flooring	093000 096723	
Ceiling:		
Suspended acoustical	095113	
Walls:		
Painted concrete masonry units	042000/ 099100	
<u>LOOSE FURNISHINGS:</u>		
Wastebasket		
<u>ENVIRONMENTAL CONSIDERATIONS:</u>		
▪ Wall minimum STC 48		
▪ Ceiling minimum CAC 35, NRC 0.70		
		<u>FEATURES<sup>1</sup>:</u>
		<u>Fixed Items:</u>
		3' vanity with sink 123550
		Paper towel dispenser 102813
		Soap dispenser 102813
		36" and 42" grab bars 102813
		16"x24" mirror 102813
		Toilet paper holder 102813
		Bathtub grab bars 102813
		Bath curtain rod 102813
		<u>Fire Suppression:</u>
		Fire suppression system 211000
		<u>Plumbing:</u>
		Tank-type toilet 224000
		Residential bathtub 224000
		Plumbing connections 221116/221119/224000
		<u>HVAC:</u>
		Exhaust air system Div. 23
		Supplemental heat as required Div. 23
		<u>Electrical:</u>
		Fluorescent lighting 265100
		Illumination level: See Table 8600-5
		Single level switching 262726
		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.

**J1 / 07.1100 CLINICAL HEALTH CARE SERVICES  
 JD / 07.0303 NURSE ASSISTING  
 JB / 07.0904 MEDICAL ASSISTANT**

## CHAPTER 6: CAREER-TECHNICAL SCHOOL

**Laundry Room**

		Spec. Ref.#
<b>Program Type:</b>	4	
<b>Size Requirements:</b>	120 SF	
<b>Requirements:</b>		
<u>FINISHES:</u>	Spec. Ref #	
Flooring:		
ET, sheet vinyl, or linoleum	096500 096516	
Base:		
Resilient	096500	
Ceiling:		
Suspended acoustical	095113	
Walls:		
Painted concrete masonry units	042000/ 099100	
<u>LOOSE FURNISHINGS:</u>		
Clothes washer		
Electric clothes dryer		
Wastebasket		
<u>ENVIRONMENTAL CONSIDERATIONS:</u>		
▪ Wall minimum STC 45		
▪ Ceiling minimum CAC 35, NRC 0.70		
		<u>FEATURES<sup>1</sup>:</u>
		<u>Fixed Items:</u>
		6' of base cabinets
		6' of adjustable shelving
		123550 062000
		<u>Fire Suppression:</u>
		Fire suppression system
		211000
		<u>Plumbing:</u>
		Plumbing connections
		221116/221119/224000
		Washer/dryer connections
		224000
		<u>HVAC:</u>
		Exhaust air system
		Div. 23
		Supplemental heat as required
		Div. 23
		Dryer vent system
		Div. 23
		<u>Electrical:</u>
		Fluorescent lighting
		265100
		Illumination level: See Table 8600-5
		Single level switching
		262726
		4 duplex receptacles
		262726
		<u>Communications:</u>
		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.

**M1 / 17.2602 COSMETOLOGY  
CT-P4-1**

CHAPTER 6: CAREER-TECHNICAL SCHOOL

<p><b><u>PROGRAM DESCRIPTION:</u></b> Utilizing business and industry technical standards, math, science, ELA, social studies and technology within a business process framework. Instruction includes a variety of beauty treatments including care and beautification of the hair, complexion, hands, and feet.</p> <p><b>Program Type:</b> 4</p> <p><b>Size Requirements:</b> 1,600 SF Lab</p> <p><b>Lab Requirements:</b></p> <p><b><u>FINISHES:</u></b></p> <p>Flooring: ET, sheet vinyl, or linoleum</p> <p>Base: Resilient</p> <p>Ceiling: Suspended acoustical</p> <p>Walls: Painted concrete masonry units</p> <p><b><u>LOOSE FURNISHINGS:</u></b> Portable demonstration table (8'x8') Coat rack Wastebasket</p> <p><b><u>Electronic Safety and Security:</u></b> Life safety devices per code</p> <p><b><u>Miscellaneous:</u></b> Pencil sharpener (optional)</p> <p><b><i>Duplex receptacle with dedicated circuit for wireless devices</i></b></p>	<p style="text-align: right;">Spec. <u>Ref.#</u></p> <p><b><u>FEATURES<sup>1</sup>:</u></b></p> <p><b><u>Fixed Items:</u></b></p> <p>8' of tack board 101100 24' of base and wall cabinets 123550 16' of reception counter 123550 8' of adjustable display shelving 062000 Pencil sharpener support (optional) 062000 Windows with integral blinds 085113 (24) Student hair stations 123550 (base cabinet, countertop, mirror, styling chair)</p> <p><b><u>Fire Suppression:</u></b> Fire suppression system 211000</p> <p><b><u>Plumbing:</u></b> 6 Hair washing sinks 224000 Plumbing connections 221116/221119/224000</p> <p><b><u>HVAC:</u></b> Supply/return air system Div. 23 Independent temperature control 230923 Specialized ventilation for pedicure odors Div. 23</p> <p><b><u>Electrical:</u></b> Fluorescent lighting 265100 Illumination level: See Table 8600-5 Multilevel switching 262726 40 duplex receptacles (minimum) 262726 Double duplex receptacle adjacent to each data and video port 262726</p> <p><b><u>Communications:</u></b> 1 <b>projector</b> video port and video display device 271543/274119 1 voice port and phone 271513/273123 <b><i>Wireless access point cable above ceiling</i></b> 271513 Clock 275313 Central sound system 275123 Sound reinforcement system 275127 <b><i>Wireless access point (WAP) as determined by Design – refer to Note 2</i></b> 272133 <b><i>Classroom technology center video port</i></b> 271543, 274116, 274119, 275127</p>
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**NOTES:**

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

**M1 / 17.2602 COSMETOLOGY  
Dispensary**

CHAPTER 6: CAREER-TECHNICAL SCHOOL

<b>Program Type:</b> 4			<b>FEATURES<sup>1</sup>:</b>	Spec. Ref.#
<b>Size Requirements:</b> 175 SF			<b>Fixed Items:</b>	
			27' lockable cabinets	123550
<b>Requirements:</b>			<b>Fire Suppression:</b>	
			Fire suppression system	211000
<b>FINISHES:</b>		Spec. Ref #	<b>Plumbing:</b>	
Flooring:			N/A	
ET, sheet vinyl, or linoleum		096500 096516	<b>HVAC:</b>	
Base:			Supply/return air system	Div. 23
Resilient		096500	Independent ventilation	Div. 23
Ceiling:			<b>Electrical:</b>	
Suspended acoustical		095113	Fluorescent lighting	265100
			Illumination level: See Table 8600-5	
Walls:			Single level switching	262726
Painted concrete masonry units		042000/ 099100	4 duplex receptacles	262726
<b>LOOSE FURNISHINGS:</b>			<b>Communications:</b>	
Wastebasket			Clock	275313
			Central sound system	275123
			<b>Electronic Safety and Security:</b>	
			Life safety devices per code	283111
<b>ENVIRONMENTAL CONSIDERATIONS:</b>			<b>Miscellaneous:</b>	
▪ Wall minimum STC 45			N/A	
▪ Ceiling minimum CAC 35, NRC 0.70				

**NOTES:**

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

**M1 / 17.2602 COSMETOLOGY  
Laundry Room**

CHAPTER 6: CAREER-TECHNICAL SCHOOL

<p><b>Program Type:</b> 4</p> <p><b>Size Requirements:</b> 150 SF</p> <p><b>Requirements:</b></p> <p><u>FINISHES:</u>                  Flooring:                  ET, sheet vinyl, or linoleum</p> <p>Base:                  Resilient</p> <p>Ceiling:                  Suspended acoustical</p> <p>Walls:                  Painted concrete masonry units</p> <p><u>LOOSE FURNISHINGS:</u>                  Clothes washer                  Electric clothes dryer                  Wastebasket</p> <p><u>ENVIRONMENTAL CONSIDERATIONS:</u></p> <ul style="list-style-type: none"> <li>▪ Wall minimum STC 45</li> <li>▪ Ceiling minimum CAC 35, NRC 0.70</li> </ul>	<p style="text-align: right;">Spec. Ref.#</p> <p><u>FEATURES<sup>1</sup>:</u></p> <p><u>Fixed Items:</u>                  20' of base cabinets w/1 sink 123550                  20' of adjustable shelving 062000                  Paper towel dispenser 102813</p> <p><u>Fire Suppression:</u>                  Fire suppression system 211000</p> <p><u>Plumbing:</u>                  Plumbing connections 221116/221119/224000                  Washer/dryer connections 224000</p> <p><u>HVAC:</u>                  Supply/return air system Div. 23                  Independent ventilation Div. 23                  Dryer vent system Div. 23</p> <p><u>Electrical:</u>                  Fluorescent lighting 265100                  Illumination level: See Table 8600-5                  Single level switching 262726                  4 duplex receptacles 262726</p> <p><u>Communications:</u>                  Clock 275313                  Central sound system 275123</p> <p><u>Electronic Safety and Security:</u>                  Life safety devices per code 283111</p> <p><u>Miscellaneous:</u>                  N/A</p>
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NOTES:

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

**M1 / 17.2602 COSMETOLOGY  
Facial Room**

CHAPTER 6: CAREER-TECHNICAL SCHOOL

<p><b>Program Type:</b> 4</p> <p><b>Size Requirements:</b> 200 SF</p> <p><b>Requirements:</b></p> <p><u>FINISHES:</u>                  Flooring:                  ET, sheet vinyl, or linoleum</p> <p>Base:                  Resilient</p> <p>Ceiling:                  Suspended acoustical</p> <p>Walls:                  Painted concrete masonry units</p> <p><u>LOOSE FURNISHINGS:</u>                  Wastebasket</p> <p><u>ENVIRONMENTAL CONSIDERATIONS:</u></p> <ul style="list-style-type: none"> <li>▪ Wall minimum STC 40</li> <li>▪ Ceiling minimum CAC 35, NRC 0.70</li> </ul>	<p style="text-align: right;">Spec. Ref.#</p> <p><u>FEATURES<sup>1</sup>:</u></p> <p><u>Fixed Items:</u>                  4' of base cabinets w/1 sink 123550                  Paper towel dispenser 102813</p> <p><u>Fire Suppression:</u>                  Fire suppression system 211000</p> <p><u>Plumbing:</u>                  Plumbing connections                  221116/221119/224000</p> <p><u>HVAC:</u>                  Supply/return air system Div. 23                  Independent ventilation Div. 23                  Independent temperature control 230923</p> <p><u>Electrical:</u>                  Fluorescent lighting 265100                  Illumination level: See Table 8600-5                  Single level switching 262726                  4 duplex receptacles 262726</p> <p><u>Communications:</u>                  Clock 275313                  Central sound system 275123</p> <p><u>Electronic Safety and Security:</u>                  Life safety devices per code 283111</p> <p><u>Miscellaneous:</u>                  N/A</p>
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NOTES:

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

**M1 / 17.2602 COSMETOLOGY  
Manicure Room**

CHAPTER 6: CAREER-TECHNICAL SCHOOL

<b>Program Type:</b> 4			<b>FEATURES<sup>1</sup>:</b>	Spec.
<b>Size Requirements:</b> 200 SF			<u>Fixed Items:</u>	<u>Ref.#</u>
			4' of base cabinets w/1 sink	123550
			Paper towel dispenser	102813
<b>Requirements:</b>			<u>Fire Suppression:</u>	
	Spec.		Fire suppression system	211000
	<u>Ref #</u>			
<u>FINISHES:</u>			<u>Plumbing:</u>	
Flooring:			Plumbing connections	
ET, sheet vinyl, or linoleum	096500		221116/221119/224000	
	096516			
Base:			<u>HVAC:</u>	
Resilient	096500		Supply/return air system	Div. 23
			Independent ventilation	Div. 23
Ceiling:			Independent temperature control	230923
Suspended acoustical	095113			
Walls:			<u>Electrical:</u>	
Painted concrete masonry units	042000/ 099100		Fluorescent lighting	265100
			Illumination level: See Table 8600-5	
			Single level switching	262726
			4 duplex receptacles	262726
<u>LOOSE FURNISHINGS:</u>			<u>Communications:</u>	
Wastebasket			Clock	275313
			Central sound system	275123
<u>ENVIRONMENTAL CONSIDERATIONS:</u>			<u>Electronic Safety and Security:</u>	
▪ Wall minimum STC 45			Life safety devices per code	283111
▪ Ceiling minimum CAC 35, NRC 0.70			<u>Miscellaneous:</u>	
			N/A	

**NOTES:**

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

**M1 / 17.2602 COSMETOLOGY****CHAPTER 6: CAREER-TECHNICAL SCHOOL****Customer Toilet**

		Spec. Ref.#
<b>Program Type:</b>	4	
<b>Size Requirements:</b>	60 SF	
<b>Requirements:</b>		
<b><u>FINISHES:</u></b>	<b><u>Spec. Ref #</u></b>	
<b>Flooring:</b>		
Rubber, linoleum, ET, or	096500	
sheet vinyl	096516	
Option: ceramic mosaic tile,	093000	
porcelain tile base, or	096723	
resinous flooring		
<b>Base:</b>		
Resilient	096500	
Option: ceramic mosaic tile base,	093000	
porcelain tile base, or	096723	
resinous flooring		
<b>Ceiling:</b>		
Suspended acoustical	095113	
<b>Walls:</b>		
Painted concrete masonry units	042000/ 099100	
<b><u>LOOSE FURNISHINGS:</u></b>		
Wastebasket		
<b><u>ENVIRONMENTAL CONSIDERATIONS:</u></b>		
▪ Wall minimum STC 48		
▪ Ceiling minimum CAC 35, NRC 0.40		
	<b><u>FEATURES<sup>1</sup>:</u></b>	
	<b><u>Fixed Items:</u></b>	
	Paper towel dispenser	102813
	Soap dispenser	102813
	36" and 42" grab bars	102813
	24"x60" mirror	102813
	Toilet paper holder	102813
	<b><u>Fire Suppression:</u></b>	
	Fire suppression system	211000
	<b><u>Plumbing:</u></b>	
	Wall mounted water closet	
	Wall mounted lavatory	
	Plumbing connections	221116/221119/224000
	<b><u>HVAC:</u></b>	
	Exhaust air system	Div. 23
	Supplemental heat as required	Div. 23
	<b><u>Electrical:</u></b>	
	Fluorescent lighting	265100
	Illumination level: See Table 8600-5	
	Single level switching	262726
	2 duplex receptacles	262726
	<b><u>Communications:</u></b>	
	Central sound system	275123
	<b><u>Electronic Safety and Security:</u></b>	
	Life safety devices per code	283111
	<b><u>Miscellaneous:</u></b>	
	N/A	

**NOTES:**

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

**L0/33.0005 CULINARY AND FOOD SERVICE OPERATIONS****CT-P4-1**

## CHAPTER 6: CAREER-TECHNICAL SCHOOL

		Spec.	Ref.#
<b><u>PROGRAM DESCRIPTION:</u></b>			
Educational programs in Culinary and Food Service Operations prepare learners for careers in the art and science of food preparation and presentation.			
<b>Program Type:</b>	4		
<b>Size Requirements:</b>	1,800 SF Lab		
<b>Lab Requirements:</b>			
		Spec.	Ref #
<b><u>FINISHES:</u></b>			
Flooring:			
Quarry tile	093000		
Base:			
Quarry tile base	093000		
Ceiling:			
Cleanable, suspended acoustical	095113		
Walls:			
Epoxy painted concrete masonry units	042000/099100		
Option: ceramic wall tile	093000		
or latex paint	099100		
<b><u>LOOSE FURNISHINGS:</u></b>			
Wastebasket			
<b><u>Electronic Safety and Security:</u></b>			
Life safety devices per code	283111		
<b><u>Miscellaneous:</u></b>			
<b><i>Duplex receptacle with dedicated circuit for wireless devices</i></b>			
<b><u>FEATURES<sup>1</sup>:</u></b>			
<b><u>Fixed Items:</u></b>			
8' of tack board		101100	
Food service equipment		114000	
(for new construction only)			
(3) Paper towel dispensers		102813	
<b><u>Fire Suppression:</u></b>			
Fire suppression system		211000	
<b><u>Plumbing:</u></b>			
Plumbing connections		221116/221119/224000	
Connections to food service eqpt		224000	
Gas connections		226313	
Hand washing lavatory		224000	
Quick release gas connections		226313	
Master gas shut-off valve		226313	
<b><u>HVAC:</u></b>			
Supply/return air system		Div. 23	
Independent temperature control		230923	
Kitchen canopy exhaust system		Div. 23	
<b><u>Electrical:</u></b>			
Fluorescent lighting		265100	
Illumination level: See Table 8600-6			
Single level switching		262726	
10 duplex receptacles (minimum)		262726	
Double duplex receptacle adjacent to each data and video port		262726	
Connections for food service eqpt		262726	
Means of egress lighting per code		265100	
220V service		262726	
<b><u>Communications:</u></b>			
1 <b>projector</b> video port and video display device		271543/274119	
1 voice port and phone		271513/273123	
<b>Wireless access point cable above ceiling</b>		271513	
Clock		275313	
Central sound system		275123	
Sound reinforcement system		275127	
<b>Wireless access point (WAP) as determined by Design – refer to Note 2</b>		272133	
<b>Classroom technology center video port</b>		271543, 274116, 274119, 275127	

**NOTES:**

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

**LO / 33.0005 CULINARY AND FOOD SERVICE OPERATIONS**

CHAPTER 6: CAREER-TECHNICAL SCHOOL

**Restaurant**

		Spec. Ref.#
<b>Program Type:</b>	4	
<b>Size Requirements:</b>	1,500 SF	
<b>Requirements:</b>		
<u>FINISHES:</u>	<u>Spec. Ref #</u>	
Flooring:		
Carpet	096816	
Option: ET, sheet vinyl, or linoleum	096500 096516	
Base:		
Resilient	096500	
Ceiling:		
Suspended acoustical	095113	
Walls:		
<b>Paint</b>	099100	
<u>LOOSE FURNISHINGS:</u>		
Wastebasket		
Tables and chairs for 24 students		
<u>ENVIRONMENTAL CONSIDERATIONS:</u>		
• 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		
		<b>FEATURES<sup>1</sup>:</b>
		<u>Fixed Items:</u>
		6' of base cabinets 123550
		6' of cashier's station 123550
		Interior window 088000/081113
		Projection screen, 6'x8' 115213
		<u>Fire Suppression:</u>
		Fire suppression system 211000
		<u>Plumbing:</u>
		N/A
		<u>HVAC:</u>
		Supply/return air system Div. 23
		Independent temperature control 230923
		<u>Electrical:</u>
		Fluorescent lighting 265100
		Illumination level: See Table 8600-6
		Multilevel switching 262726
		<b>Fluorescent or LED</b> can lighting
		around perimeter of room 265100
		4 duplex receptacles 262726
		Double duplex receptacle adjacent to each data port 262726
		<u>Communications:</u>
		1 voice port and phone 271513/273123
		2 data ports 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.

**L0/33.0005 CULINARY AND FOOD SERVICE OPERATIONS**

**Dry Storage**

CHAPTER 6: CAREER-TECHNICAL SCHOOL

		Spec. Ref.#
<b>Program Type:</b>	4	
<b>Size Requirements:</b>	150 SF	
<b>Requirements:</b>		
	Spec. Ref #	
<b><u>FINISHES:</u></b>		
<b>Flooring:</b>		
Linoleum, ET, or sheet vinyl	096500	
Option: Quarry tile	093000	
	096516	
<b>Base:</b>		
Resilient base	096500	
Option: Quarry tile	093000	
<b>Ceiling:</b>		
Cleanable, suspended, acoustical	095113	
<b>Walls:</b>		
Epoxy-painted concrete masonry units	042000/099100	
Option: Ceramic wall tile	093000	
or latex paint	099100	
<b><u>LOOSE FURNISHINGS:</u></b>		
20' Commercial grade kitchen shelving		
<b><u>ENVIRONMENTAL CONSIDERATIONS:</u></b>		
<ul style="list-style-type: none"> <li>• Continuous conditioning of air</li> <li>• Cleanable building surfaces</li> </ul>		
<b><u>FEATURES<sup>1</sup>:</u></b>		
<b><u>Fixed Items:</u></b>		
N/A		
<b><u>Fire Suppression:</u></b>		
Fire suppression system		211000
<b><u>Plumbing:</u></b>		
N/A		
<b><u>HVAC:</u></b>		
Exhaust air system		Div. 23
Supply/return air system		Div. 23
<b><u>Electrical:</u></b>		
Single level switching		262726
Fluorescent lighting		265100
Illumination level: See Table 8600-6		
1 duplex receptacle		262726
<b><u>Communications:</u></b>		
N/A		
<b><u>Electronic Safety and Security:</u></b>		
Life safety devices per code		283111
<b><u>Miscellaneous:</u></b>		
N/A		

**NOTES:**

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

**J3 / 07.0101 DENTAL ASSISTANT  
CT-P4-1**

CHAPTER 6: CAREER-TECHNICAL SCHOOL

<p><b><u>PROGRAM DESCRIPTION:</u></b> Utilizing business and industry technical standards, math, science, ELA, social studies and technology within a business process framework. Instruction includes concepts, subject matter, and laboratory experience to assist the dentist in the dental operator, clerical functions, and selected dental laboratory work.</p> <p><b>Program Type:</b> 4</p> <p><b>Size Requirements:</b> 1,500 SF Lab</p> <p><b>Lab Requirements:</b></p> <table border="0"> <tr> <td></td> <td style="text-align: right;">Spec.</td> </tr> <tr> <td><b><u>FINISHES:</u></b></td> <td style="text-align: right;"><b><u>Ref #</u></b></td> </tr> <tr> <td>Flooring:</td> <td></td> </tr> <tr> <td>    ET, sheet vinyl, or linoleum</td> <td style="text-align: right;">096500</td> </tr> <tr> <td></td> <td style="text-align: right;">096516</td> </tr> <tr> <td>Base:</td> <td></td> </tr> <tr> <td>    Resilient</td> <td style="text-align: right;">096500</td> </tr> <tr> <td>Ceiling:</td> <td></td> </tr> <tr> <td>    Suspended acoustical</td> <td style="text-align: right;">095113</td> </tr> <tr> <td>Walls:</td> <td></td> </tr> <tr> <td>    Painted concrete masonry units</td> <td style="text-align: right;">042000/099100</td> </tr> <tr> <td><b><u>LOOSE FURNISHINGS:</u></b></td> <td></td> </tr> <tr> <td>(6) 4-person epoxy-top student tables w/electric and gas</td> <td></td> </tr> <tr> <td>(24) Student chairs/stools</td> <td></td> </tr> <tr> <td>(1) Teacher station &amp; chair</td> <td></td> </tr> <tr> <td>Wastebasket</td> <td></td> </tr> <tr> <td><b><u>Electronic Safety and Security:</u></b></td> <td></td> </tr> <tr> <td>    Life safety devices per code</td> <td style="text-align: right;">283111</td> </tr> <tr> <td><b><u>Miscellaneous:</u></b></td> <td></td> </tr> <tr> <td>    Pencil sharpener (optional)</td> <td></td> </tr> <tr> <td><b><i>Duplex receptacle with dedicated circuit for wireless devices</i></b></td> <td></td> </tr> </table>		Spec.	<b><u>FINISHES:</u></b>	<b><u>Ref #</u></b>	Flooring:		ET, sheet vinyl, or linoleum	096500		096516	Base:		Resilient	096500	Ceiling:		Suspended acoustical	095113	Walls:		Painted concrete masonry units	042000/099100	<b><u>LOOSE FURNISHINGS:</u></b>		(6) 4-person epoxy-top student tables w/electric and gas		(24) Student chairs/stools		(1) Teacher station & chair		Wastebasket		<b><u>Electronic Safety and Security:</u></b>		Life safety devices per code	283111	<b><u>Miscellaneous:</u></b>		Pencil sharpener (optional)		<b><i>Duplex receptacle with dedicated circuit for wireless devices</i></b>		<table border="0"> <tr> <td><b><u>FEATURES<sup>1</sup>:</u></b></td> <td style="text-align: right;">Spec.</td> </tr> <tr> <td><b><u>Fixed Items:</u></b></td> <td style="text-align: right;"><b><u>Ref.#</u></b></td> </tr> <tr> <td>    24' of marker board, tack board, or tackable wall surface</td> <td style="text-align: right;">101100</td> </tr> <tr> <td>    40' of sink base cabinets w/6 sinks and natural gas</td> <td style="text-align: right;">123550</td> </tr> <tr> <td>    40' of wall cabinets</td> <td style="text-align: right;">123550</td> </tr> <tr> <td>    10' of reception counter</td> <td 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tackable wall surface	101100	40' of sink base cabinets w/6 sinks and natural gas	123550	40' of wall cabinets	123550	10' of reception counter	123550	Pencil sharpener support (optional)	062000	Windows with integral blinds	085113	(6) Paper towel dispensers	102813	Projection screen, 6'x8'	115213	<b><u>Fire Suppression:</u></b>		Fire suppression system	211000	<b><u>Plumbing:</u></b>		Plumbing connections	221116/221119/224000	Natural gas connections	226313	Master gas shut-off valve	226313	Safety shower/eye wash	224000	<b><u>HVAC:</u></b>		Supply/return air system	Div. 23	Independent temperature control	230923	Localized ventilation for specific lab-produced fumes	Div. 23	<b><u>Electrical:</u></b>		Fluorescent lighting	265100	Illumination level: See Table 8600-5		Multilevel switching	262726	30 duplex receptacles (minimum)	262726	Double duplex receptacle adjacent to each data and video port	262726	<b><u>Communications:</u></b>		1 <b>projector</b> video port and video display device	271543/274119	1 voice port and phone	271513/273123	<b>Wireless access point cable above ceiling</b>	271513	Clock	275313	Central sound system	275123	Sound reinforcement system	275127	<b>Wireless access point (WAP) as determined by Design – refer to Note 2</b>	272133	<b>Classroom technology center video port</b>	271543, 274116, 274119, 275127
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- NOTES:**
1. Finishes/Features: Refer to Chapter 9 for specification references.
  2. **Baseline includes WAP cable per classroom. WAP device quantity / placement per 272133 requirements.**



**J3 / 07.0101 DENTAL ASSISTANT  
Darkroom**

CHAPTER 6: CAREER-TECHNICAL SCHOOL

<b>Program Type:</b> 4		<b>FEATURES<sup>1</sup>:</b>	Spec.
<b>Size Requirements:</b> 80 SF		<b>Fixed Items:</b>	<b>Ref.#</b>
		10' of base cabinets w/1 sink	123550
		Paper towel dispenser	102813
<b>Requirements:</b>		<b>Fire Suppression:</b>	
		Fire suppression system	211000
<b>FINISHES:</b>		<b>Plumbing:</b>	
Flooring:		Plumbing connections	221116/221119/224000
ET, sheet vinyl, linoleum,			
polished concrete finishing,			
or colored concrete finishing			
	Spec.	<b>HVAC:</b>	
	<b>Ref #</b>	Supply/return air system	Div. 23
	096500	Independent temperature control	230923
Base:			
Resilient	096500		
Ceiling:		<b>Electrical:</b>	
Suspended acoustical	095113	Fluorescent lighting	265100
		Illumination level: See Table 8600-5	
		Single level switching	262726
Walls:		4 duplex receptacles	262726
Painted concrete masonry units	042000/ 099100	Dark room safelight	265100
		<b>Communications:</b>	
		Central sound system	275123
		Clock	275313
		<b>Electronic Safety and Security:</b>	
		Life safety devices per code	283111
		<b>Miscellaneous:</b>	
		N/A	
<b>ENVIRONMENTAL CONSIDERATIONS:</b>			
▪ Wall minimum STC 45			
▪ Ceiling minimum CAC 35, NRC 0.70			

**NOTES:**

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

**J5 / 07.4820 DIAGNOSTIC PATHWAY  
CT-P4-1**

CHAPTER 6: CAREER-TECHNICAL SCHOOL

<p><b><u>PROGRAM DESCRIPTION:</u></b> A clustered program utilizing business and industry technical standards, math, science, ELA, social studies and technology within a business process framework. Instruction includes concepts, subject matter, and experience in health careers that focus on diagnostic procedures to determine status of body functions/systems, cause and nature of diseases and disorders.</p> <p><b>Program Type:</b> 4</p> <p><b>Size Requirements:</b> 1,200 SF Lab</p> <p>Lab Requirements:</p> <p><b><u>FINISHES:</u></b> Flooring: ET, sheet vinyl, or linoleum</p> <p>Base: Resilient</p> <p>Ceiling: Suspended acoustical</p> <p>Walls: Painted concrete masonry units</p> <p><b><u>LOOSE FURNISHINGS:</u></b> (12) Two-person work tables (24) Student chairs/stools (1) Teacher station &amp; chair Wastebasket</p> <p><b><u>Electronic Safety and Security:</u></b> Life safety devices per code</p> <p><b><u>Miscellaneous:</u></b> Pencil sharpener (support) <b>Duplex receptacle with dedicated circuit for wireless devices</b></p>	<p style="text-align: right;">Spec. <u>Ref.#</u></p> <p><b><u>FEATURES<sup>1</sup>:</u></b> <b><u>Fixed Items:</u></b> 24' of marker board, tack board, or tackable wall surface 101100 20' of sink base cabinets w/1 sink 123550 20' of wall cabinets 123550 10' of reception counter 123550 Pencil sharpener support (support) 062000 Windows with integral blinds 085113 (1) Paper towel dispenser 102813 Projection screen, 6'x8' 115213</p> <p><b><u>Fire Suppression:</u></b> Fire suppression system 211000</p> <p><b><u>Plumbing:</u></b> Plumbing connections 221116/221119/224000 Safety shower/eyewash 224500</p> <p><b><u>HVAC:</u></b> Supply/return air system Div. 23 Independent temperature control 230923</p> <p><b><u>Electrical:</u></b> Fluorescent lighting 265100 Illumination level: See Table 8600-5 Multilevel switching 262726 20 duplex receptacles (minimum) 262726 Double duplex receptacle adjacent to each data and video port 262726</p> <p><b><u>Communications:</u></b> 1 <b>projector</b> video port and video display device 271543/274119 1 voice port and phone 271513/273123 1 data port near teacher workstation 271513 <b>Wireless access point cable above ceiling</b> 271513 Clock 275313 Central sound system 275123 Sound reinforcement system 275127 <b>Wireless access point (WAP) as determined by Design – refer to Note 2</b> 272133 <b>Classroom technology center video port</b> 271543, 274116, 274119, 275127</p>
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**NOTES:**

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

**J5 / 07.4820 DIAGNOSTIC PATHWAY  
Exam Room(s)**

CHAPTER 6: CAREER-TECHNICAL SCHOOL

<p><b>Program Type:</b> 4</p> <p><b>Size Requirements:</b> 200 SF</p> <p><b>Requirements:</b></p> <p><u>FINISHES:</u>                  Flooring:                  ET, sheet vinyl, or linoleum</p> <p>Base:                  Resilient</p> <p>Ceiling:                  Suspended acoustical</p> <p>Walls:                  Painted concrete masonry units</p> <p><u>LOOSE FURNISHINGS:</u>                  (1) stool per room                  (1) wastebasket per room</p> <p><u>ENVIRONMENTAL CONSIDERATIONS:</u></p> <ul style="list-style-type: none"> <li>Required: View glass – minimum 5% without daylighting design; minimum 3% with daylighting design.                      Recommended: Daylighting design with glazing area determined by design solution.</li> <li>Environmental sound control -                      wall only minimum STC 45                      ceiling minimum CAC 35, NRC 0.70</li> </ul>	<p style="text-align: right;">Spec. Ref.#</p> <p><u>FEATURES<sup>1</sup>:</u>  <u>Fixed Items:</u>                  4' of base cabinets w/1 sink per room 123550                  Paper towel dispenser 102813</p> <p><u>Fire Suppression:</u>                  Fire suppression system 211000</p> <p><u>Plumbing:</u>                  Plumbing connections                  221116/221119/224000</p> <p><u>HVAC:</u>                  Supply/return air system Div. 23                  Independent temperature control 230923</p> <p><u>Electrical:</u>                  Fluorescent lighting 265100                  Illumination level: See Table 8600-5                  Single level switching 262726                  4 duplex receptacles per room 262726                  Double duplex receptacle adjacent to                  each data port 262726</p> <p><u>Communications:</u>                  1 data port per room 271513                  1 clock per room 275313                  Central sound system 275123</p> <p><u>Electronic Safety and Security:</u>                  Life safety devices per code 283111</p> <p><u>Miscellaneous:</u>                  N/A</p>
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NOTES:

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

**P4 / 17.2801 FIRE FIGHTER TRAINING  
CT-P4-1**

CHAPTER 6: CAREER-TECHNICAL SCHOOL

<p><b><u>PROGRAM DESCRIPTION:</u></b> Specialized classroom and practical experiences concerned with the preparation of paid, full-time firefighters.</p> <p><b>Program Type:</b> 4</p> <p><b>Size Requirements:</b> 1,500 SF Lab</p> <p><b>Lab Requirements:</b></p> <p><b><u>FINISHES:</u></b></p> <p>Flooring:</p> <p>Carpet 096816 Option: ET, sheet vinyl, or linoleum 096500 096516</p> <p>Base:</p> <p>Resilient 096500</p> <p>Ceiling:</p> <p>Suspended acoustical 095113</p> <p>Walls:</p> <p>Painted concrete masonry units 042000/ 099100</p> <p><b><u>LOOSE FURNISHINGS:</u></b> (12) Two-person work tables (24) Student chairs/stools (1) Teacher station &amp; chair Wastebasket</p> <p><b><u>Electronic Safety and Security:</u></b> Life safety devices per code 283111</p> <p><b><u>Miscellaneous:</u></b> Pencil sharpener (optional)</p> <p><b><i>Duplex receptacle with dedicated circuit for wireless devices</i></b></p>	<p style="text-align: right;">Spec. Ref.#</p> <p><b><u>FEATURES<sup>1</sup>:</u></b></p> <p><b><u>Fixed Items:</u></b></p> <p>32' of marker board, tack board, or tackable wall surface 101100 30' of sink base cabinets w/1 sink 123550 30' of wall cabinets 123550 Pencil sharpener support (optional) 062000 Windows with integral blinds 085113 Paper towel dispenser 102813 Projection screen, 6'x8' 115213</p> <p><b><u>Fire Suppression:</u></b> Fire suppression system 211000</p> <p><b><u>Plumbing:</u></b> Plumbing connections 221116/221119/224000</p> <p><b><u>HVAC:</u></b> Supply/return air system Div. 23 Independent temperature control 230923</p> <p><b><u>Electrical:</u></b> Fluorescent lighting 265100 Illumination level: See Table 8600-5 Multilevel switching 262726 20 duplex receptacles (minimum) 262726 Double duplex receptacle adjacent to each data and video port 262726</p> <p><b><u>Communications:</u></b> 1 <b>projector</b> video port 271543 1 voice port and phone 271513/273123 <b><i>Wireless access point cable above ceiling</i></b> 271513 Clock 275313 Central sound system 275123 Sound reinforcement system 275127 <b><i>Wireless access point (WAP) as determined by Design – refer to Note 2</i></b> <b>272133</b> <b><i>Classroom technology center video port</i></b> <b>271543, 274116, 274119, 275127</b></p>
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**NOTES:**

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

**P4 / 17.2801 FIRE FIGHTER TRAINING  
Weight Room**

CHAPTER 6: CAREER-TECHNICAL SCHOOL

<b>Program Type:</b> 4		<b>FEATURES<sup>1</sup>:</b>	Spec. Ref.#
<b>Size Requirements:</b> 800 SF		<b>Fixed Items:</b> N/A	
<b>Requirements:</b>		<b>Fire Suppression:</b> Fire suppression system	211000
<b>FINISHES:</b>		<b>Plumbing:</b> N/A	
<b>Flooring:</b>	Spec. Ref #	<b>HVAC:</b>	
ET, sheet vinyl, or linoleum	096500	Supply/return air system	Div. 23
Option: Sealed concrete	096516	Independent temperature control	230923
	033000		
<b>Base:</b>		<b>Electrical:</b>	
Resilient	096500	Fluorescent lighting	265100
		Illumination level: See Table 8600-5	
<b>Ceiling:</b>		Single level switching	262726
Suspended acoustical	095113	4 duplex receptacles	262726
		Double duplex receptacle adjacent to data port	262726
<b>Walls:</b>		<b>Communications:</b>	
Painted concrete masonry units	042000/ 099100	Clock	275313
		Central sound system	275123
<b>LOOSE FURNISHINGS:</b>		<b>Electronic Safety and Security:</b>	
N/A		Life safety devices per code	283111
<b>ENVIRONMENTAL CONSIDERATIONS:</b>		<b>Miscellaneous:</b>	
▪ Wall minimum STC 48		N/A	
▪ Ceiling minimum CAC 35, NRC 0.70			

**NOTES:**

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

**B0 / 34.0015 MEDIA ARTS  
CT-P4-1**

CHAPTER 6: CAREER-TECHNICAL SCHOOL

<p><b><u>PROGRAM DESCRIPTION:</u></b>                  Programs that focus on the use of still and motion photography in journalism. Communications, business principles, and leadership skill development related to the industry are essential to the program. Specialization areas include journalism, photography, and digital media.</p> <p><b>Program Type:</b> 4</p> <p><b>Size Requirements:</b> 1,500 SF Lab</p> <p><b>Studio Requirements:</b></p> <p><b><u>FINISHES:</u></b></p> <p>Flooring:                  Sheet vinyl or linoleum</p> <p>Base:                  Resilient</p> <p>Ceiling:                  Pipe grid – 14' to bottom</p> <p>Walls:                  Painted concrete masonry units                  Acoustical wall treatment</p> <p><b><u>Electronic Safety and Security:</u></b>                  Life safety devices per code</p> <p><b><u>Miscellaneous:</u></b>  <b><i>Duplex receptacle with dedicated circuit for wireless devices</i></b></p>	<p style="text-align: right;">Spec. Ref.#</p> <p><b><u>FEATURES<sup>1</sup>:</u></b></p> <p><b><u>Fixed Items:</u></b>                  Overhead metal pipe grid (48" o.c., both ways) to support studio lights &amp; accessories 055000                  Cyclorama curtain &amp; track, min. of 2 walls 116143</p> <p><b><u>Fire Suppression:</u></b>                  Fire suppression system 211000</p> <p><b><u>Plumbing:</u></b>                  N/A</p> <p><b><u>HVAC:</u></b>                  Supply/return air system Div. 23                  Independent temperature control 230923</p> <p><b><u>Electrical:</u></b>                  Fluorescent lighting 265100                  Illumination level: See Table 8600-5                  Track lighting 265100                  Multilevel switching 262726                  20 duplex receptacles 262726                  Double duplex receptacle adjacent to each data and video port 262726                  Emergency lighting 265100</p> <p><b><u>Communications:</u></b>                  1 <b>projector</b> video port 271543                  1 voice port and phone 271513/273123  <b><i>Wireless access point cable above ceiling</i></b>                  271513                  Clock 275313                  Cable management system                  Special A/V Cabling Conveyance                  Special A/V Cabling  <b><i>Wireless access point (WAP) as determined by Design – refer to Note 2</i></b>                  272133  <b><i>Classroom technology center video port</i></b>                  271543, 274116, 274119, 275127</p>
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**NOTES:**

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

**B0 / 34.0015 MEDIA ARTS  
CONTROL ROOM / EDIT**

## CHAPTER 6: CAREER-TECHNICAL SCHOOL

		Spec. Ref.#
Program Type:	4	
Size Requirements:	450 SF	
<u>FINISHES<sup>1</sup>:</u>	<u>Spec. Ref.#</u>	
<u>Flooring:</u>		
Linoleum, ET, or sheet vinyl	096516 096500	
<u>Base:</u>		
Resilient base	096500	
<u>Ceiling:</u>		
Suspended, acoustical (9'-0" high)	095113	
<u>Walls:</u>		
Painted gypsum wallboard	092116/099100	
Acoustical wall treatment	098000	
<u>LOOSE FURNISHINGS:</u>		
(6) Chairs		
Wastebasket		
<u>Electronic Safety and Security:</u>		
Life safety devices per code	283111	
<u>Miscellaneous:</u>		
Duplex receptacle with dedicated circuit for wireless devices		
		<u>FEATURES:</u>
		<u>Fixed Items:</u>
		10'-20' of equipment/work surface
		6'-8' of tack board or marker board
		Window
		8' of base cabinet
		123550 101100 085113 123550
		<u>Fire Suppression:</u>
		Fire suppression system
		211000
		<u>Plumbing:</u>
		N/A
		<u>HVAC:</u>
		Supply/return air system
		Independent temperature control
		Div. 23 230923
		<u>Electrical:</u>
		Fluorescent lighting: overhead
		Illumination level: See Table 8600-5
		Dimmable task
		lighting on work surface
		Single level switching
		8 duplex receptacles
		Provisions for hard-wired equipment
		265100 262726 262726 260519/260533
		Studio dimming system
		control panel
		Telecommunications Grounding
		265561 270526/260526
		<u>Communications:</u>
		1 voice port and phone
		2 projector video ports
		Wireless access point cable above ceiling
		271513/273123 271543 271513
		Clock
		Central sound system
		Specialized A/V equipment
		Wireless access point (WAP) as determined by Design – refer to Note 2
		272133
		Classroom technology center video port
		271543, 274116, 274119, 275127

NOTES:

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

**B0 / 34.0015 MEDIA ARTS**

**Vestibule**

CHAPTER 6: CAREER-TECHNICAL SCHOOL

		Spec. Ref.#
<b>Program Type:</b>	4	
<b>Size Requirements:</b>	84 SF	
<b>Requirements:</b>		
<u>FINISHES:</u>	Spec. Ref #	
Flooring:		
ET, sheet vinyl, or linoleum	096500 096516	
Base:		
Resilient	096500	
Ceiling:		
Suspended acoustical (9'-0" high)	095113	
Walls:		
Painted concrete masonry units	042000/ 099100	
Acoustical wall treatment	098000	
<u>ENVIRONMENTAL CONSIDERATIONS:</u>		
▪ Wall only minimum STC 45		
▪ Ceiling minimum CAC 35, NRC 0.70		
		<u>FEATURES<sup>1</sup>:</u>
		<u>Fixed Items:</u>
		Doors to receive light-tight perimeter seal
		4' of tack board 101100
		<u>Fire Suppression:</u>
		Fire suppression system 211000
		<u>Plumbing:</u>
		N/A
		<u>HVAC:</u>
		Supply/return air system Div. 23
		<u>Electrical:</u>
		Fluorescent lighting 265100
		Illumination level: See Table 8600-4
		Single level switching 262726
		1 duplex receptacle 262726
		Warning light to control room 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.

**JE / 07.0603 OPTOMETRIC OCCUPATIONS**

CHAPTER 6: CAREER-TECHNICAL SCHOOL

**CT-P4-1**

<b><u>PROGRAM DESCRIPTION:</u></b>		<b>FEATURES<sup>1</sup>:</b>	Spec.
A combination of subject matter and experiences designed to train a person to prepare, assemble, and/or fit corrective lenses prescribed by a physician or optometrist. These occupations may include optical surfacing, optical finishing, optical stylist, and/or optical dispensing.		<b><u>Fixed Items:</u></b>	<b><u>Ref.#</u></b>
<b>Program Type:</b>	4	24' of marker board, tack board, or tackable wall surface	101100
<b>Size Requirements:</b>	1,200 SF Lab	30' of sink base cabinets w/2 sinks	123550
<b>Lab Requirements:</b>		30' of wall cabinets	123550
<b><u>FINISHES:</u></b>		Pencil sharpener support (optional)	062000
<b>Flooring:</b>		Windows with integral blinds	085113
ET, sheet vinyl, or linoleum	Spec. <u>Ref #</u> 096500	(2) Paper towel dispensers	102813
	096516	Projection screen, 6'x8'	115213
<b>Base:</b>		Fume hood	115313
Resilient	096500	<b><u>Fire Suppression:</u></b>	
<b>Ceiling:</b>		Fire suppression system	211000
Suspended acoustical	095113	<b><u>Plumbing:</u></b>	
<b>Walls:</b>		Plumbing connections	221116/221119/224000
Painted concrete masonry units	042000/ 099100	12 Compressed air connections	221500
		Safety shower/eyewash	224000
<b><u>LOOSE FURNISHINGS:</u></b>		Master gas shut-off valve	226313
(6) 4-person epoxy-top student tables with electric & natural gas		<b><u>HVAC:</u></b>	
(24) Student chairs/stools		Supply/return air system	Div. 23
(1) Teacher station & chair		Independent temperature control	230923
Wastebasket		Fume hood exhaust	Div. 23
<b>Electronic Safety and Security:</b>		<b><u>Electrical:</u></b>	
Life safety devices per code	283111	Fluorescent lighting	265100
<b>Miscellaneous:</b>		Illumination level: See Table 8600-5	
Pencil sharpener (optional)		Multilevel switching	262726
		30 duplex receptacles	262726
<b><i>Duplex receptacle with dedicated circuit for wireless devices</i></b>		Double duplex receptacle adjacent to each data and video port	262726
		220V service	262726
		<b><u>Communications:</u></b>	
		1 <b>projector</b> video port and video display device	271543/274119
		1 voice port and phone	271513/273123
		1 data port near teacher workstation	271513
		Clock	275313
		Central sound system	275123
		Sound reinforcement system	275127
		<b>Ultra-short throw interactive projector</b>	274119
		<b>Wireless access point (WAP) as determined by Design – refer to Note 2</b>	<b>272133</b>
		<b>Classroom technology center video port</b>	<b>271543, 274116, 274119, 275127</b>

**NOTES:**

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

**JE / 07.0603 OPTOMETRIC OCCUPATIONS**  
**Exam Room**

## CHAPTER 6: CAREER-TECHNICAL SCHOOL

		Spec. Ref.#
<b>Program Type:</b>	4	
<b>Size Requirements:</b>	100 SF	
<b>Requirements:</b>		
<u>FINISHES:</u>	Spec. Ref #	
Flooring:		
ET, sheet vinyl, or linoleum	096500 096516	
Base:		
Resilient	096500	
Ceiling:		
Suspended acoustical	095113	
Walls:		
Painted concrete masonry units	042000/ 099100	
<u>LOOSE FURNISHINGS:</u>		
2 stools		
<u>ENVIRONMENTAL CONSIDERATIONS:</u>		
▪ Wall minimum STC 48		
▪ Ceiling minimum CAC 35, NRC 0.70		
		<b>FEATURES<sup>1</sup>:</b>
		<u>Fixed Items:</u>
		4' of base cabinets 123550
		<u>Fire Suppression:</u>
		Fire suppression system 211000
		<u>Plumbing:</u>
		N/A
		<u>HVAC:</u>
		Supply/return air system Div. 23
		Independent temperature control 230923
		<u>Electrical:</u>
		Fluorescent lighting 265100
		Illumination level: See Table 8600-5
		Single level switching 262726
		4 duplex receptacles 262726
		Double duplex receptacle adjacent to data port 262726
		<u>Communications:</u>
		1 data port 271513
		1 voice port and phone 271513/273123
		1 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.

**JF / 07.0994 PATIENT CARE TECHNICIAN  
CT-P4-1**

CHAPTER 6: CAREER-TECHNICAL SCHOOL

<p><b><u>PROGRAM DESCRIPTION:</u></b> Subject matter and laboratory experiences to provide students with the knowledge and skills in the care of patients of all ages under the direction and supervision of a registered nurse or licensed practical nurse and for advance nursing skills.</p> <p><b>Program Type:</b> 4</p> <p><b>Size Requirements:</b> 1,500 SF Lab</p> <p><b>Lab Requirements:</b></p> <table border="0"> <tr> <td></td> <td style="text-align: right;">Spec.</td> </tr> <tr> <td><b><u>FINISHES:</u></b></td> <td style="text-align: right;"><b><u>Ref #</u></b></td> </tr> <tr> <td>Flooring:</td> <td></td> </tr> <tr> <td>    ET, sheet vinyl, or linoleum</td> <td style="text-align: right;">096500</td> </tr> <tr> <td></td> <td style="text-align: right;">096516</td> </tr> <tr> <td>Base:</td> <td></td> </tr> <tr> <td>    Resilient</td> <td style="text-align: right;">096500</td> </tr> <tr> <td>Ceiling:</td> <td></td> </tr> <tr> <td>    Suspended acoustical</td> <td style="text-align: right;">095113</td> </tr> <tr> <td>Walls:</td> <td></td> </tr> <tr> <td>    Painted concrete masonry units</td> <td style="text-align: right;">042000/ 099100</td> </tr> <tr> <td><b><u>LOOSE FURNISHINGS:</u></b></td> <td></td> </tr> <tr> <td>    (12) Two-person work tables</td> <td></td> </tr> <tr> <td>    (24) Student chairs/stools</td> <td></td> </tr> <tr> <td>    (1) Teacher station &amp; chair</td> <td></td> </tr> <tr> <td>    Wastebasket</td> <td></td> </tr> <tr> <td><b><u>Electronic Safety and Security:</u></b></td> <td></td> </tr> <tr> <td>    Life safety devices per code</td> <td style="text-align: right;">283111</td> </tr> <tr> <td><b><u>Miscellaneous:</u></b></td> <td></td> </tr> <tr> <td>    Pencil sharpener (optional)</td> <td></td> </tr> <tr> <td><b><i>Duplex receptacle with dedicated circuit for wireless devices</i></b></td> <td></td> </tr> </table>		Spec.	<b><u>FINISHES:</u></b>	<b><u>Ref #</u></b>	Flooring:		ET, sheet vinyl, or 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**NOTES:**

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

**JF / 07.0994 PATIENT CARE TECHNICIAN  
Training Restroom**
**CHAPTER 6: CAREER-TECHNICAL SCHOOL**

		Spec. Ref.#
<b>Program Type:</b>	4	
<b>Size Requirements:</b>	120 SF	
<b>Requirements:</b>		
<b><u>FINISHES:</u></b>	<b>Spec. Ref #</b>	
<b>Flooring:</b>		
Rubber, linoleum, ET, or	096500	123550
sheet vinyl	096515	102813
Option: ceramic mosaic tile,	093000	102813
porcelain tile base, or	096723	102813
resinous flooring		102813
<b>Base:</b>		
Resilient	096500	102813
Option: ceramic mosaic tile base,	093000	102813
porcelain tile base, or	096723	102813
resinous flooring		102813
<b>Ceiling:</b>		
Suspended acoustical	095113	102813
<b>Walls:</b>		
Painted concrete masonry units	042000/ 099100	102813
<b><u>LOOSE FURNISHINGS:</u></b>		
Wastebasket		
<b><u>ENVIRONMENTAL CONSIDERATIONS:</u></b>		
▪ Wall minimum STC 48		
▪ Ceiling minimum CAC 35, NRC 0.70		
		<b>FEATURES<sup>1</sup>:</b>
		<b><u>Fixed Items:</u></b>
		3' vanity with sink
		Paper towel dispenser
		Soap dispenser
		36" and 42" grab bars
		16"x24" mirror
		Toilet paper holder
		Bathtub grab bars
		Bath curtain rod
		<b><u>Fire Suppression:</u></b>
		Fire suppression system
		<b><u>Plumbing:</u></b>
		Tank-type toilet
		Residential bathtub
		Plumbing connections
		<b><u>HVAC:</u></b>
		Exhaust air system
		Supplemental heat as required
		<b><u>Electrical:</u></b>
		Fluorescent lighting
		Illumination level: See Table 8600-5
		Single level switching
		2 duplex receptacles
		<b><u>Communications:</u></b>
		Central sound system
		<b><u>Electronic Safety and Security:</u></b>
		Life safety devices per code
		<b><u>Miscellaneous:</u></b>
		N/A

**NOTES:**

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

**JF / 07.0994 PATIENT CARE TECHNICIAN  
Laundry Room**

CHAPTER 6: CAREER-TECHNICAL SCHOOL

<b>Program Type:</b> 4		<b>FEATURES<sup>1</sup>:</b>	Spec. Ref.#
<b>Size Requirements:</b> 120 SF		<b>Fixed Items:</b>	
		6' of base cabinets	123550
		6' of adjustable shelving	062000
<b>Requirements:</b>		<b>Fire Suppression:</b>	
	Spec. Ref #	Fire suppression system	211000
<b>FINISHES:</b>		<b>Plumbing:</b>	
Flooring:		Plumbing connections	221116/221119/224000
ET, sheet vinyl, or linoleum	096500 096516	Washer/dryer connections	224000
Base:		<b>HVAC:</b>	
Resilient	096500	Exhaust air system	Div. 23
Ceiling:		Supplemental heat as required	Div. 23
Suspended acoustical	095113	Dryer vent system	Div. 23
Walls:		<b>Electrical:</b>	
Painted concrete masonry units	042000/ 099100	Fluorescent lighting	265100
		Illumination level: See Table 8600-5	
		Single level switching	262726
		4 duplex receptacles	262726
<b>LOOSE FURNISHINGS:</b>		<b>Communications:</b>	
Clothes washer		Clock	275313
Electric clothes dryer		Central sound system	275123
Wastebasket			
		<b>Electronic Safety and Security:</b>	
		Life safety devices per code	283111
<b>ENVIRONMENTAL CONSIDERATIONS:</b>		<b>Miscellaneous:</b>	
▪ Wall minimum STC 45		N/A	
▪ Ceiling minimum CAC 35, NRC 0.70			

**NOTES:**

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

**B1 / 34.0020 PERFORMING ARTS  
CT-P4-1**

CHAPTER 6: CAREER-TECHNICAL SCHOOL

<p><b><u>PROGRAM DESCRIPTION:</u></b>                  Programs that focus on the creation, interpretation, and performance of works that use auditory, kinesthetic, and visual phenomena to express ideas and emotions in various forms. Communications, business principles, and leadership skill development related to the industry are essential to the program. Specialization areas includes music, dance, and theater.</p> <p><b>Program Type:</b>           <b>4</b></p> <p><b>Size Requirements:</b>                  1,500 SF Dance/Music Room</p> <table border="0" style="width: 100%;"> <tr> <td style="width: 80%;"></td> <td style="text-align: right;">Spec.</td> </tr> <tr> <td><b><u>FINISHES:</u></b></td> <td style="text-align: right;"><b><u>Ref #</u></b></td> </tr> <tr> <td>Flooring:</td> <td></td> </tr> <tr> <td>    Hardwood</td> <td style="text-align: right;">096000</td> </tr> <tr> <td>Base:</td> <td></td> </tr> <tr> <td>    Resilient</td> <td style="text-align: right;">096500</td> </tr> <tr> <td>Ceiling:</td> <td></td> </tr> <tr> <td>    Painted, exposed structure</td> <td style="text-align: right;">099100</td> </tr> <tr> <td>Walls:</td> <td></td> </tr> <tr> <td>    Painted concrete masonry units</td> <td style="text-align: right;">042000/ 099100</td> </tr> <tr> <td>    Acoustical wall treatment</td> <td style="text-align: right;">098000</td> </tr> <tr> <td><b><u>LOOSE FURNISHINGS:</u></b></td> <td></td> </tr> <tr> <td>(25) Student stools/chairs</td> <td></td> </tr> </table>		Spec.	<b><u>FINISHES:</u></b>	<b><u>Ref #</u></b>	Flooring:		Hardwood	096000	Base:		Resilient	096500	Ceiling:		Painted, exposed structure	099100	Walls:		Painted concrete masonry units	042000/ 099100	Acoustical wall treatment	098000	<b><u>LOOSE FURNISHINGS:</u></b>		(25) Student stools/chairs		<table border="0" style="width: 100%;"> <tr> <td><b><u>FEATURES<sup>1</sup>:</u></b></td> <td style="text-align: right;">Spec.</td> </tr> <tr> <td><b><u>Fixed Items:</u></b></td> <td style="text-align: right;"><b><u>Ref.#</u></b></td> </tr> <tr> <td>8' of tack board</td> <td style="text-align: right;">101100</td> </tr> <tr> <td>16' length of 60" high mirrors</td> <td style="text-align: right;">088300</td> </tr> <tr> <td>16' of ballet bars</td> <td style="text-align: right;">116615</td> </tr> <tr> <td><b><u>Fire Suppression:</u></b></td> <td></td> </tr> <tr> <td>    Fire suppression system</td> <td style="text-align: right;">211000</td> </tr> <tr> <td><b><u>Plumbing:</u></b></td> <td></td> </tr> <tr> <td>    Drinking water cooler</td> <td style="text-align: right;">224000</td> </tr> <tr> <td><b><u>HVAC:</u></b></td> <td></td> </tr> <tr> <td>    Supply/return air system</td> <td style="text-align: right;">Div. 23</td> </tr> <tr> <td>    Independent temperature control</td> <td style="text-align: right;">230923</td> </tr> <tr> <td><b><u>Electrical:</u></b></td> <td></td> </tr> <tr> <td>    Fluorescent lighting</td> <td style="text-align: right;">265100</td> </tr> <tr> <td>    Illumination level: See Table 8600-5</td> <td></td> </tr> <tr> <td>    Track lighting</td> <td style="text-align: right;">265100</td> </tr> <tr> <td>    Multilevel switching</td> <td style="text-align: right;">262726</td> </tr> <tr> <td>    10 duplex receptacles</td> <td style="text-align: right;">262726</td> </tr> <tr> <td>    Double duplex receptacle adjacent to each data and video port</td> <td style="text-align: right;">262726</td> </tr> <tr> <td><b><u>Communications:</u></b></td> <td></td> </tr> <tr> <td>    1 <b>projector</b> video port</td> <td style="text-align: right;">271543</td> </tr> <tr> <td>    1 voice port and phone</td> <td style="text-align: right;">271513/273123</td> </tr> <tr> <td>    Clock</td> <td style="text-align: right;">275313</td> </tr> <tr> <td>    Central sound system</td> <td style="text-align: right;">275123</td> </tr> <tr> <td>    Sound reinforcement system</td> <td style="text-align: right;">275125</td> </tr> <tr> <td><b><u>Electronic Safety and Security:</u></b></td> <td></td> </tr> <tr> <td>    Life safety devices per code</td> <td style="text-align: right;">283111</td> </tr> <tr> <td><b><u>Miscellaneous:</u></b></td> <td></td> </tr> <tr> <td>    N/A</td> <td></td> </tr> </table>	<b><u>FEATURES<sup>1</sup>:</u></b>	Spec.	<b><u>Fixed Items:</u></b>	<b><u>Ref.#</u></b>	8' of tack board	101100	16' length of 60" high mirrors	088300	16' of ballet bars	116615	<b><u>Fire Suppression:</u></b>		Fire suppression system	211000	<b><u>Plumbing:</u></b>		Drinking water cooler	224000	<b><u>HVAC:</u></b>		Supply/return air system	Div. 23	Independent temperature control	230923	<b><u>Electrical:</u></b>		Fluorescent lighting	265100	Illumination level: See Table 8600-5		Track lighting	265100	Multilevel switching	262726	10 duplex receptacles	262726	Double duplex receptacle adjacent to each data and video port	262726	<b><u>Communications:</u></b>		1 <b>projector</b> video port	271543	1 voice port and phone	271513/273123	Clock	275313	Central sound system	275123	Sound reinforcement system	275125	<b><u>Electronic Safety and Security:</u></b>		Life safety devices per code	283111	<b><u>Miscellaneous:</u></b>		N/A	
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**NOTES:**

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

**B1 / 34.0020 PERFORMING ARTS  
Practice Room**

## CHAPTER 6: CAREER-TECHNICAL SCHOOL

		Spec. Ref.#
<b>Program Type:</b>	4	
<b>Size Requirements:</b>	150 SF	
<b>Requirements:</b>		
<u>FINISHES:</u>	Spec. Ref #	
Flooring:		
ET, sheet vinyl, or linoleum	096500	
	096516	
Optional: carpet	096816	
Base:		
Resilient	096500	
Ceiling:		
Suspended acoustical	095113	
Absorptive 25%, reflective 25%, diffusive 50%		
Walls:		
Painted concrete masonry units	042000/ 099100	
Acoustical wall treatment (varies with geometry of room)	098000	
<u>LOOSE FURNISHINGS:</u>		
L1 Music Stands		
L2 Music chairs		
		<u>FEATURES<sup>1</sup>:</u>
		<u>Fixed Items:</u>
		N/A
		<u>Fire Suppression:</u>
		Fire suppression system 211000
		<u>Plumbing:</u>
		Plumbing connections 221116/221119/224000
		<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
		Single level switching 262726
		4 duplex receptacles 262726
		<u>Communications:</u>
		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>
		Interior window 081113/088000

NOTES:

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

**JK / 07.0305 SURGICAL TECHNOLOGY  
CT-P4-1**
**CHAPTER 6: CAREER-TECHNICAL SCHOOL**

		Spec. Ref.#
<b><u>PROGRAM DESCRIPTION:</u></b>		
A combination of subject matter and experiences designed to prepare a person to serve as a general assistant on the surgical team in the operating unit.		
<b>Program Type:</b>	4	
<b>Size Requirements:</b>	1,000 SF Lab	
<b>Lab Requirements:</b>		
<b><u>FINISHES:</u></b>	Spec. Ref #	
Flooring:		
ET, sheet vinyl, or linoleum	096500 096516	
Base:		
Resilient	096500	
Ceiling:		
Suspended acoustical	095113	
Walls:		
Painted concrete masonry units	042000/ 099100	
<b><u>LOOSE FURNISHINGS:</u></b>		
(12) Two-person work tables		
(24) Student chairs/stools		
(1) Teacher station & chair		
Wastebasket		
<b><u>Electronic Safety and Security:</u></b>		
Life safety devices per code	283111	
<b><u>Miscellaneous:</u></b>		
Pencil sharpener (optional)		
<b><i>Duplex receptacle with dedicated circuit for wireless devices</i></b>		
<b><u>FEATURES<sup>1</sup>:</u></b>		
<b><u>Fixed Items:</u></b>		
24' marker board, tack board, or tackable wall surface		101100
20' of sink base cabinets w/1 sink		123550
20' of wall cabinets		123550
Pencil sharpener support (optional)		062000
Windows with integral blinds		085113
Paper towel dispenser		102813
Projection screen, 6'x8'		115213
<b><u>Fire Suppression:</u></b>		
Fire suppression system		211000
<b><u>Plumbing:</u></b>		
Plumbing connections		221116/221119/224000
<b><u>HVAC:</u></b>		
Supply/return air system		Div. 23
Independent temperature control		230923
<b><u>Electrical:</u></b>		
Fluorescent lighting		265100
Illumination level: See Table 8600-5		
Multilevel switching		262726
10 duplex receptacles (minimum)		262726
Double duplex receptacle adjacent to each data and video port		262726
<b><u>Communications:</u></b>		
1 <b>projector</b> video port and video display device		271543/274119
1 voice port and phone		271513/273123
1 data port near teacher workstation		271513
<b>Wireless access point cable above ceiling</b>		271513
Clock		275313
Central sound system		275123
Sound reinforcement system		275127
<b>Wireless access point (WAP) as determined by Design – refer to Note 2</b>		<b>272133</b>
<b>Classroom technology center video port</b>		<b>271543, 274116, 274119, 275127</b>

**NOTES:**

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

**JK / 07.0305 SURGICAL TECHNOLOGY  
Operating Room**

CHAPTER 6: CAREER-TECHNICAL SCHOOL

<b>Program Type:</b> 4			<b>FEATURES<sup>1</sup>:</b>	Spec.
<b>Size Requirements:</b> 800 SF			<u>Fixed Items:</u>	<u>Ref.#</u>
			4' of base cabinets w/1 sink	123550
			Paper towel dispenser	102813
<b>Requirements:</b>			<u>Fire Suppression:</u>	
	Spec.		Fire suppression system	211000
<u>FINISHES:</u>	<u>Ref #</u>		<u>Plumbing:</u>	
Flooring:			Plumbing connections	
ET, sheet vinyl, or linoleum	096500		221116/221119/224000	
	096516		<u>HVAC:</u>	
Base:			Supply/return air system	Div. 23
Resilient	096500		Independent temperature control	230923
Ceiling:			<u>Electrical:</u>	
Suspended acoustical	095113		Fluorescent lighting	265100
Walls:			Illumination level: See Table 8600-5	
Painted concrete masonry units	042000/ 099100		Single level switching	262726
			6 duplex receptacles	262726
			Double duplex receptacle adjacent to data port	262726
<u>LOOSE FURNISHINGS:</u>			<u>Communications:</u>	
Wastebasket			1 data port per room	271513
			Clock	275313
			Central sound system	275123
<u>ENVIRONMENTAL CONSIDERATIONS:</u>			<u>Electronic Safety and Security:</u>	
▪ Wall minimum STC 48			Life safety devices per code	283111
▪ Ceiling minimum CAC 35, NRC 0.70			<u>Miscellaneous:</u>	
			N/A	

**NOTES:**

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

**JK / 07.0305 SURGICAL TECHNOLOGY  
Instrument Room**
**CHAPTER 6: CAREER-TECHNICAL SCHOOL**

		Spec. Ref.#
<b>Program Type:</b>	4	
<b>Size Requirements:</b>	700 SF	
<b>Requirements:</b>		
<u>FINISHES:</u>	Spec. Ref #	
Flooring:		
ET, sheet vinyl, or linoleum	096500 096516	
Base:		
Resilient	096500	
Ceiling:		
Suspended acoustical	095113	
Walls:		
Painted concrete masonry units	042000/ 099100	
<u>LOOSE FURNISHINGS:</u>		
Wastebasket		
<u>ENVIRONMENTAL CONSIDERATIONS:</u>		
▪ Wall minimum STC 45		
▪ Ceiling minimum CAC 35, NRC 0.70		
		<b>FEATURES<sup>1</sup>:</b>
		<u>Fixed Items:</u>
		20' of base cabinets w/1 sink
		123550
		10' of wall cabinets
		123550
		Paper towel dispenser
		102813
		<u>Fire Suppression:</u>
		Fire suppression system
		211000
		<u>Plumbing:</u>
		Plumbing connections
		221116/221119/224000
		<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
		Single level switching
		262726
		6 duplex receptacles
		262726
		Double duplex receptacle adjacent to data port
		262726
		<u>Communications:</u>
		1 data port per room
		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.

**JK / 07.0305 SURGICAL TECHNOLOGY  
Scrub Room**

CHAPTER 6: CAREER-TECHNICAL SCHOOL

<b>Program Type:</b> 4			<b>FEATURES<sup>1</sup>:</b>	Spec. Ref.#
<b>Size Requirements:</b> 500 SF			<b>Fixed Items:</b>	
			12' of base and wall cabinets	123550
			Paper towel dispenser	102813
<b>Requirements:</b>			<b>Fire Suppression:</b>	
	Spec. Ref #		Fire suppression system	211000
<b>FINISHES:</b>			<b>Plumbing:</b>	
Flooring:			2 scrub sinks	224000
Sheet vinyl or linoleum	096500		Plumbing connections	221116/221119/224000
	096516			
Base:				
Resilient	096500			
Ceiling:			<b>HVAC:</b>	
Suspended acoustical	095113		Supply/return air system	Div. 23
			Independent temperature control	230923
Walls:			<b>Electrical:</b>	
Painted concrete masonry units	042000/ 099100		Fluorescent lighting	265100
			Illumination level: See Table 8600-5	
			Single level switching	262726
			6 duplex receptacles	262726
<b>LOOSE FURNISHINGS:</b>			<b>Communications:</b>	
Wastebasket			Clock	275313
			Central sound system	275123
<b>ENVIRONMENTAL CONSIDERATIONS:</b>			<b>Electronic Safety and Security:</b>	
▪ Wall minimum STC 45			Life safety devices per code	283111
▪ Ceiling minimum CAC 35, NRC 0.70			<b>Miscellaneous:</b>	
			N/A	

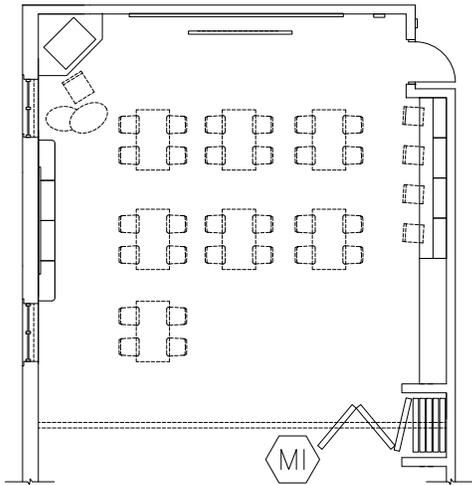
**NOTES:**

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

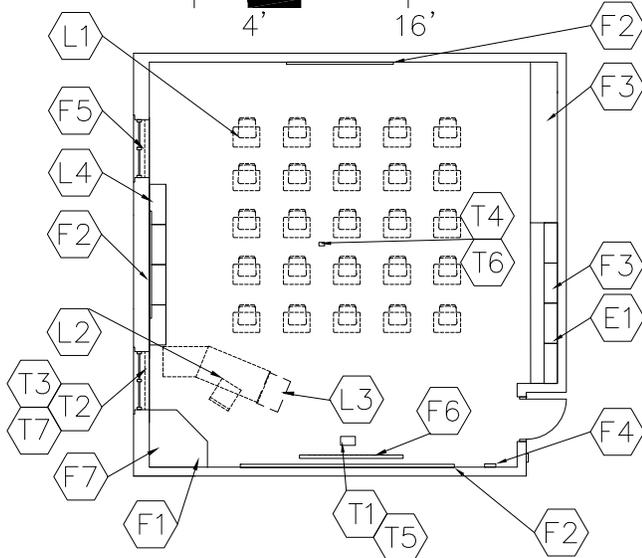
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**RELATED CLASSROOM  
CT-P4-2**

**CHAPTER 6: CAREER-TECHNICAL HIGH 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 related lab
- 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
- Proximity to main corridor to accommodate other students without interrupting lab

**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:**

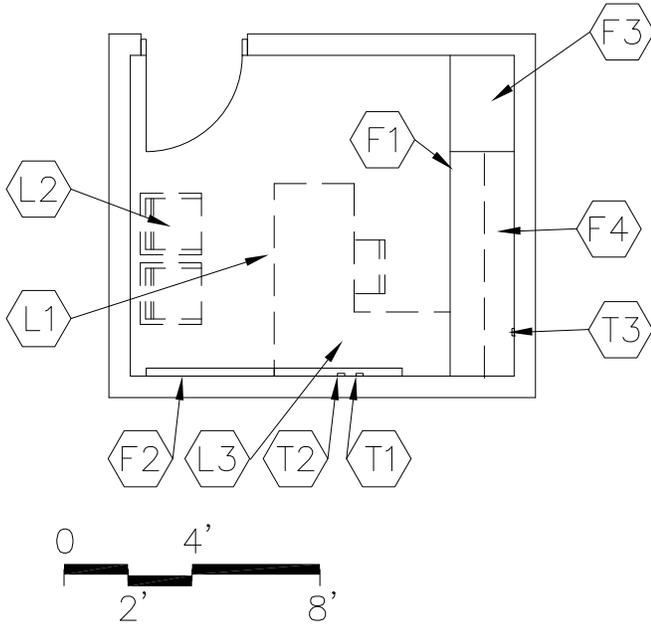
1. Loose furnishings shown represent one of many possible arrangements.
2. Depending upon the educational program of the district, a tall wardrobe may be placed in this classroom or could be placed in a teacher prep area/workroom.

**RELATED CLASSROOM  
CT-P4-2**
**CHAPTER 6: CAREER-TECHNICAL HIGH SCHOOL**

<u>FINISHES<sup>1</sup>:</u>	Spec. Ref.#	<u>FEATURES<sup>1</sup>:</u>	Spec. Ref.#
<u>Flooring:</u>		<u>Fixed Items:</u>	
Carpet or carpet tile	096816	<b>F1</b> Tall wardrobe with file drawers	123550
Optional: linoleum, ET, or sheet vinyl	096516 096500 096813	<b>F2</b> 20'-32' combination marker board, tack board and tackable wall surface	101100
<u>Base:</u>		<b>F3</b> 18'-24' combination base and wall cabinets	123550
Resilient base	096500	<b>F4</b> Pencil sharpener support (optional)	062000
<u>Ceiling:</u>		<b>F5</b> Windows with integral blinds	085113
Suspended, acoustical	095113	<b>F6</b> Projection screen (optional)	115213
<u>Walls:</u>		<b>F7</b> Technology support casework	123550
Painted concrete masonry units	042000/099100	<u>Fire Suppression:</u>	
		Fire suppression system	211000
		<u>Plumbing:</u>	
		N/A	
		<u>HVAC:</u>	
<u>LOOSE FURNISHINGS:</u>		Supply/return air system	Div. 23
L1 Student desks and chairs		Independent temperature control	230923
L2 Teacher desk or workstation/computer support and chair		<u>Electrical:</u>	
L3 File cabinet		Fluorescent lighting:	265100
L4 9' of low bookcases (fixed or mobile) 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 <b>projector</b> video port	271543
		T2 1 voice port and phone	271513/273123
		T3 1 data port near teacher workstation	271513
		T4 <b>Wireless access point cable above ceiling</b>	271513
		Clock	275313
		Central sound system	275123
		Sound reinforcement system	275127
<u>Miscellaneous:</u>		T5 <b>Ultra-short throw interactive</b> projector	274119
Pencil sharpener ( <i>optional</i> )		T6 <b>Wireless access point (WAP) as determined by Design – refer to Note 4</b>	272133
M1 Operable partitions between classrooms are optional	02226	T7 <b>Classroom technology center video port</b>	271543, 274116, 274119, 275127
<b>E1 Duplex receptacle with dedicated circuit for wireless devices</b>		<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. Where appropriate, some casework may be mobile to add flexibility and become part of the loose furnishings.
4. **Baseline includes WAP cable per classroom. WAP device quantity / placement per 272133 requirements.**



**PROGRAM ACTIVITIES:**

- Private space for program instructor
- One-on-one conferences with academic instructors, students, etc.

**SPATIAL RELATIONSHIPS:**

- Near related lab
- Direct access to school circulation areas

**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.

**OFFICE  
CT-P4-3**

## CHAPTER 6: CAREER-TECHNICAL SCHOOL

<u>FINISHES<sup>1</sup>:</u>	Spec. Ref.#	<u>FEATURES<sup>1</sup>:</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
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			
Wastebasket		<u>Electrical:</u>	
		Single level switching	262726
		Fluorescent lighting	265100
		Illumination level: See Table 8600-5	
		4 duplex receptacles	262726
		Double duplex receptacle adjacent	
		to data and video port	262726
		<u>Communications:</u>	
		T1 1 voice port and phone	271513/273123
		T2 1 data port near workstation	271513
		T3 1 <b>projector</b> video port	271543
		Central sound system	275123
		Clock	275313
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
		<u>Miscellaneous:</u>	
		N/A	

NOTES:

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

PROGRAM ACTIVITIES:

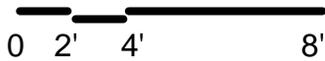
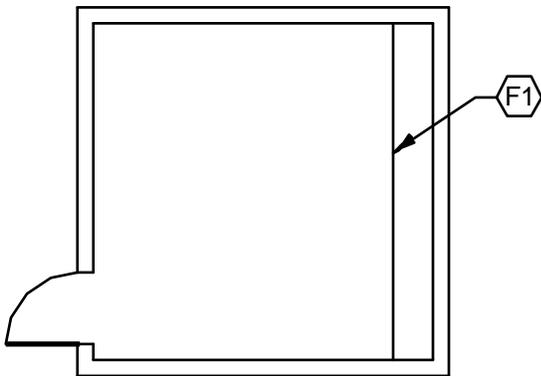
- Space for storage of lab equipment

SPATIAL RELATIONSHIPS:

- Near related lab

ENVIRONMENTAL CONSIDERATIONS:

N/A



CAPACITY:  
SIZE:

N/A  
200 SF

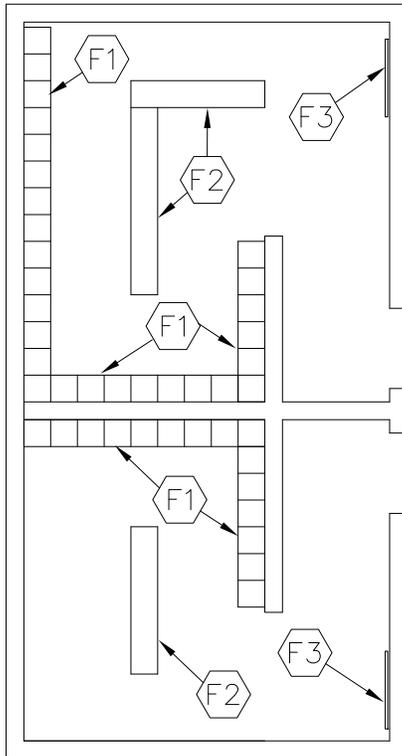
NOTES:

**STORAGE AREA  
CT-P4-4**
**CHAPTER 6: CAREER-TECHNICAL SCHOOL**

	Spec. Ref.#		Spec. Ref.#
<u>FINISHES<sup>1</sup>:</u>		<u>FEATURES<sup>1</sup>:</u>	
Flooring:		<u>Fixed Items<sup>1</sup>:</u>	
<b>Sealed</b> concrete	033000	F1 8'-20' of open shelving	
		Depth may vary (fixed or loose)	123550
Base:		<u>Fire Suppression:</u>	
Resilient base	096500	Fire suppression system	211000
Ceiling:		<u>Plumbing:</u>	
Exposed structure	---	N/A	
Walls:		<u>HVAC:</u>	
Painted concrete masonry units	042000/099100	To be determined by Design Professional	
		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 8600-5	
		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.



50 total lockers

CAPACITY:  
SIZE:

N/A  
450 SF

**PROGRAM ACTIVITIES:**

- Personal and health needs for the program Specific users.
- Changing of clothes and/or uniforms.
- Storage of personal items while students are in lab.

**SPATIAL RELATIONSHIPS:**

- Adjacent to related lab

**ENVIRONMENTAL CONSIDERATIONS:**

- Sanitary and durable finishes.
- Environmental sound control  
Wall minimum STC 40  
Ceiling minimum CAC 35, NRC 0.70

**NOTES:**

1. Large and small changing areas are interchangeable for either males or females. Determination based on male/female ratio within each program.

**CHANGING ROOM  
CT-P4-5**
**CHAPTER 6: CAREER-TECHNICAL SCHOOL**

<u>FINISHES<sup>1</sup>:</u>	Spec. Ref.#	<u>FEATURES<sup>1</sup>:</u>	Spec. Ref.#
<u>Flooring:</u>		<u>Fixed Items<sup>1</sup>:</u>	
Polished concrete finishing, or colored concrete finishing	033510 033519	F1 Student lockers	105113
Optional: linoleum or rubber	096500 096516	F2 Locker benches	062000
		F3 24" x 60" mirror	102813
<u>Base:</u>		<u>Fire Suppression:</u>	
Resilient base	096500	Fire suppression system	211000
<u>Ceiling:</u>		<u>Plumbing:</u>	
Suspended, acoustical with high impact hold down clips	095113	N/A	
<u>Walls:</u>		<u>HVAC:</u>	
Painted concrete masonry units	042000 / 099100	Supply/Return air system	Div. 23
		Exhaust air system	Div. 23
		Supplemental heat as required	Div. 23
		Individual temperature control	230923
<u>LOOSE FURNISHINGS</u>		<u>Electrical:</u>	
Wastebaskets		Single level switching	262726
		Fluorescent lighting	265100
		Illumination level: See Table 8600-6	
		2 Duplex receptacles	262726
		Means of egress lighting per code	265100
		<u>Communications:</u>	
		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.

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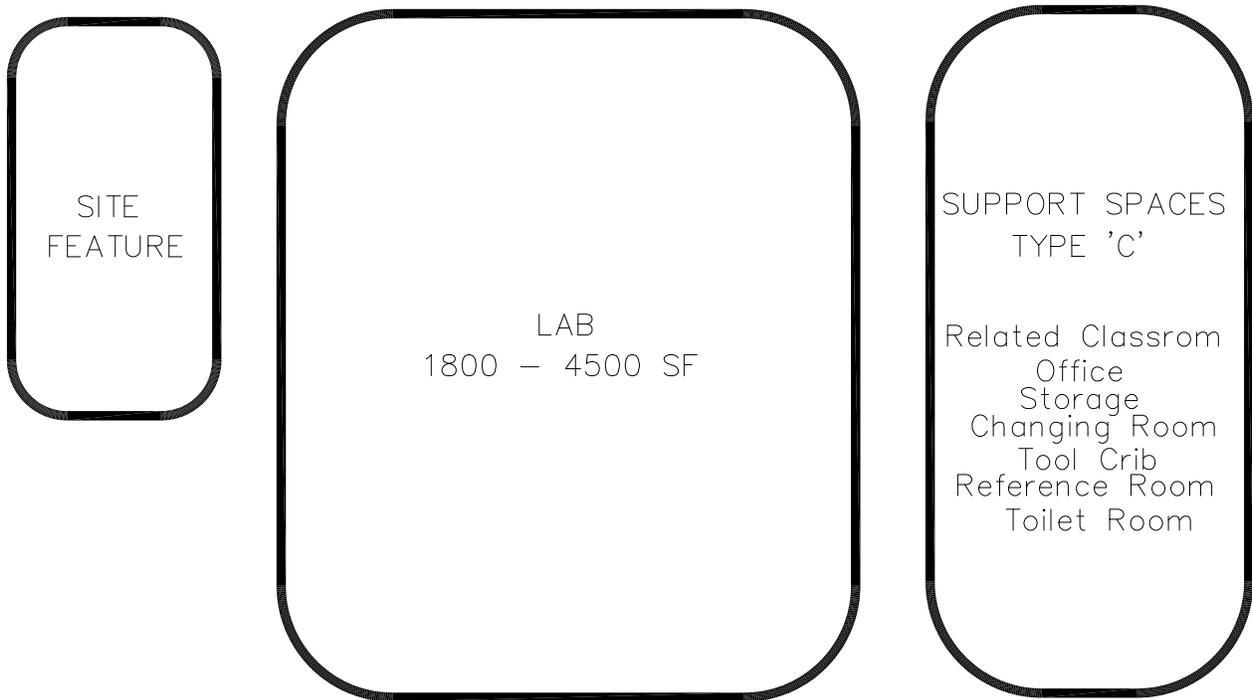
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**Program Type 5**

Description: Medium to large sized lab space with enhanced support space.  
 Lab space to be “high-bay” (18’ min. clearance) with exposed building structure.  
 Lab to utilize standard construction with the following exception – lab floor slab to be 8” thick.  
 Support space to be finished with sealed concrete or vinyl composition tile, paint, and suspended acoustical ceiling. Lab may have possible site feature.

***Related classroom office, changing room, reference room, and toilet room may be air-conditioned. The high bay labs have no air conditioning unless noted otherwise.***



**NOTES:**

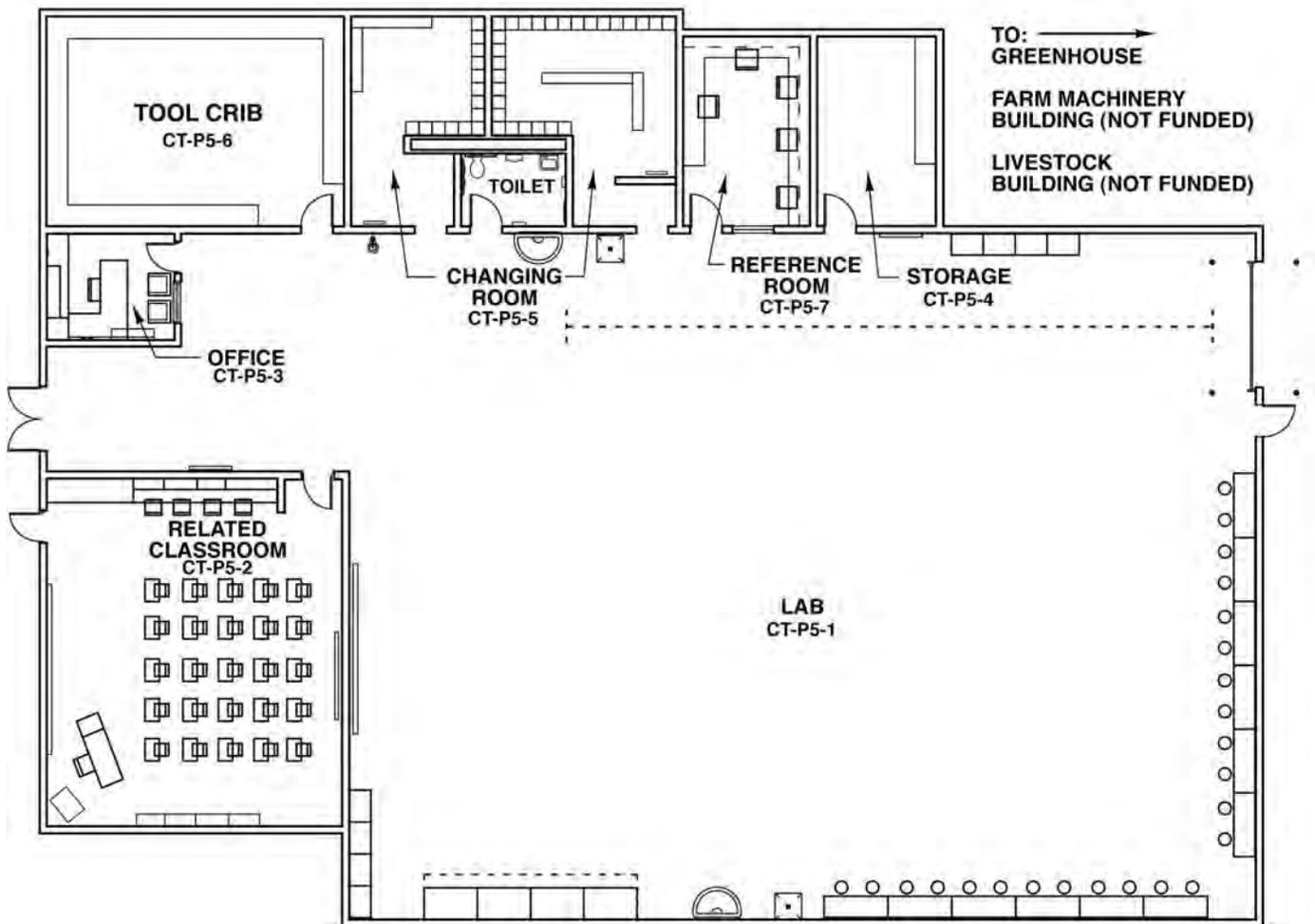
This is an example of how the Program Type 5 spaces in a career-technical school could be arranged. This is meant only to demonstrate the relationships between various spaces of this area.

Following are the Program Type 5 space plates:

- CT-P5-1 Lab
- CT-P5-2 Related Classroom
- CT-P5-3 Office
- CT-P5-4 Storage
- CT-P5-5 Changing Room
- CT-P5-6 Tool Crib
- CT-P5-7 Reference Room
- CT-P5-8 Toilet Room

**PROGRAM TYPE 5  
EXAMPLE**

CHAPTER 6: CAREER-TECHNICAL SCHOOL

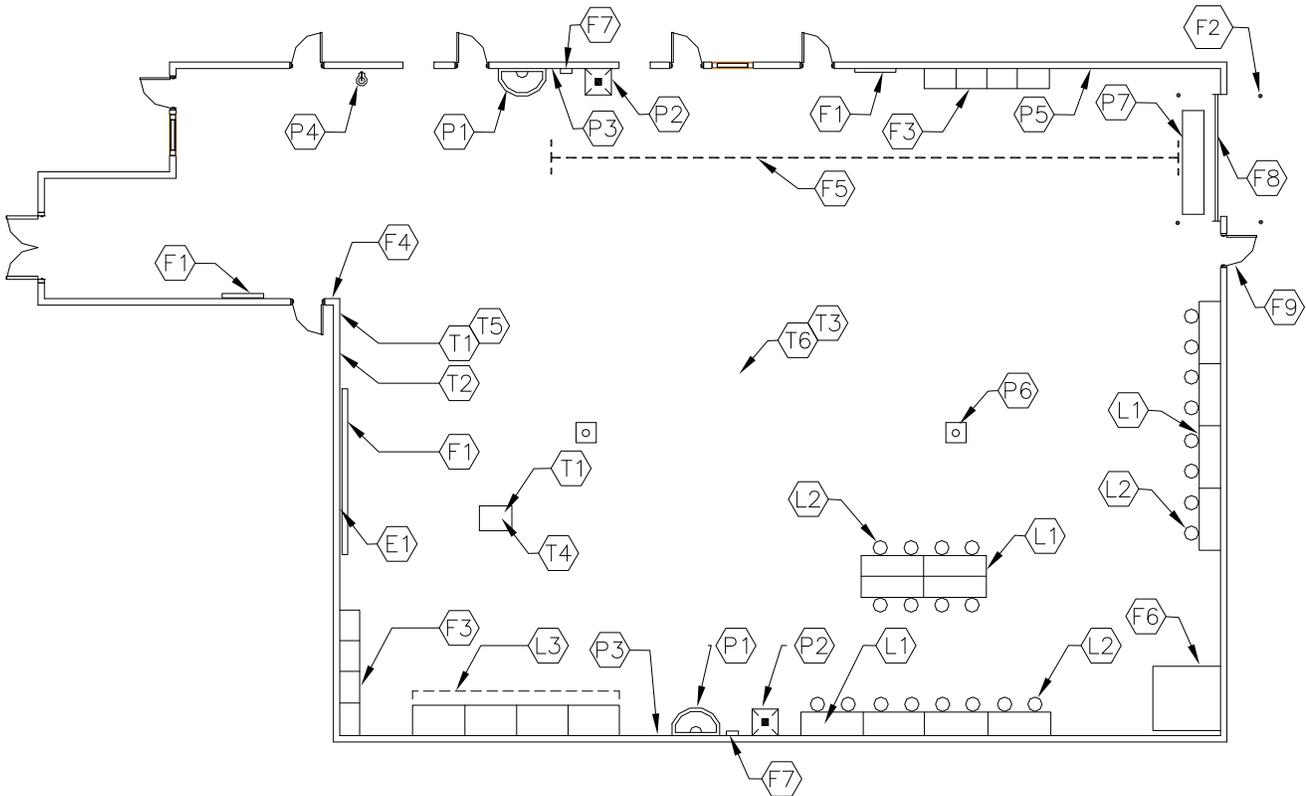


**Program Type 5**

This is an example to show the possible relationships of spaces for this program type.

**NOTES:**

1. See lab descriptions within this section for specific lab requirements.
2. See individual space plates at the end of this section for specific requirements.



<p>CAPACITY: 24 Students                  SIZE: 1,800 – 4,500 SF                  (see lab summaries for exact sizes)                  ANCILLARY SPACES: CT-P5-2 thru CT-P5-8</p>	
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**NOTES:**

1. Loose furnishings shown represent one of many possible arrangements.
2. Graphic plate is an example only. Other labs within this program are not drawn – refer to lab summaries within this program type for information on a particular lab.

**LAB**  
**CT-P5-1**

CHAPTER 6: CAREER-TECHNICAL SCHOOL

PROGRAM ACTIVITIES:

- Large and small group instruction
- Group and individual work
- Demonstrations

SPATIAL RELATIONSHIPS:

- Near other related labs
- Adjacent to typical support spaces
- Proximity to large group restrooms
- Located away from noisy or public activities
- Proximity to core academic area and common use areas
- 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. Finishes/Features: Refer to Chapter 9 for specification references.
2. Loose Furnishings: Refer to Lab Profiles within this section.
3. Loose Furnishings, fixed equipment, utility locations, and general footprint of room shown represent one of many possible arrangements.

**01.0301 AGRIBUSINESS AND PRODUCTION SYSTEMS**

CHAPTER 6: CAREER-TECHNICAL SCHOOL

**CT-P5-1**

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**A0/01.0301 AGRIBUSINESS AND PRODUCTION SYSTEMS****CT-P5-1**

## CHAPTER 6: CAREER-TECHNICAL SCHOOL

<u>PROGRAM DESCRIPTION:</u>	Spec. Ref.#
Applies principles of economics, business management and marketing in both an entrepreneur/manager and an employee role to the leadership, planning, development, and analyzing of business enterprises related to agriculture, food, and natural resources.	
<b>Program Type:</b> 5	
<b>Size Requirements:</b> 4,500 SF Lab	
<b>Lab Requirements:</b>	Spec.
<u>FINISHES:</u>	<u>Ref #</u>
Flooring:	
Sealed concrete	033000
Ceiling:	
Painted, exposed structure	099100
Walls:	
Painted concrete masonry units	042000/ 099100
<u>LOOSE FURNISHINGS:</u>	
L1 (12) Workbenches with heavy-duty metal tops	
L2 (24) Stools or chairs	
L3 (4) Welding tables	
Wastebasket	
<u>SITE FEATURES:</u>	
Greenhouse - 1000 SF	133413
Concrete flooring (with drains)	
Minimum of one 8'x10' overhead door	
Provide electrical, plumbing, and heating/ventilation systems as per greenhouse manufacturer's recommendations	
Minimum of 2 hose bibs	
Fire suppression system if required	
Plan for the following if required by school curriculum requirements:	
Farm machinery building	
Livestock building	
Overhead chain hoist	
Miscellaneous: Pencil sharpener (optional)	
<u>Electronic Safety and Security:</u>	
Life safety devices per code	283111
<b>E1 Duplex receptacle with dedicated circuit for wireless devices</b>	
<u>Communications (cont'd):</u>	
<b>T6 Wireless access point (WAP) as determined by Design – refer to Note 2</b>	<b>272133</b>
<u>FEATURES<sup>1</sup>:</u>	
<u>Fixed Items:</u>	
F1 24' of marker board, tack board, or tackable wall surface	101100
<b>F2</b> Steel bollards at overhead door, both sides	055000
F3 24' of tall storage cabinets	123550
F4 Pencil sharpener support (optional)	062000
F5 Overhead chain hoist	412223
F7 (4) Paper towel dispensers	102813
F8 12'x14' motorized overhead sectional door to exterior	083613
F9 3'x7' hollow metal service door to exterior	081113
<u>Fire Suppression:</u>	
Fire suppression system	211000
<u>Plumbing:</u>	
P1 2 washfountains (minimum)	224000
P2 2 utility sinks (minimum)	224000
P3 2 hose bibbs (minimum)	224000
P4 Safety shower/eyewash	224500
P5 6 compressed air connections	221513
P6 2 floor drains	224000
P7 1 trench drain	224000
Plumbing connections	221116/221119/224000
<u>HVAC:</u>	
Supply/return air system	Div. 23
Independent temperature control	230923
Welding hood exhaust	Div. 23
<u>Electrical:</u>	
High intensity lighting or fluorescent lighting	265100
Illumination level: See Table 8600-5	
Multilevel switching	262726
30 duplex receptacles (minimum)	262726
Double duplex receptacle adjacent to each data and video port	262726
(6) 220 volt receptacles	262726
<u>Communications:</u>	
T1 1 <b>projector</b> video port and video display device	271543/274119
T2 1 voice port and phone	271513/273123
T3 <b>Wireless access point cable above ceiling</b>	271513
Clock	275313
Central sound system	275123
<b>T5 Classroom technology center video port</b>	<b>271543, 274116, 274119, 275127</b>

NOTES:

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

**T2 / 17.0303 AUTO SPECIALIZATION**

CHAPTER 6: CAREER-TECHNICAL SCHOOL

**CT-P5-1**

<b>PROGRAM DESCRIPTION:</b>		<b>FEATURES<sup>1</sup>:</b>	Spec. Ref.#
Specialized learning experiences that involve more intensive training in a single automotive system. Examples may include Automotive Detailing, Custom Car Prep, High Performance, Alternative Fuel, Engine Repair, and Transmission Service.		<u>Fixed Items:</u>	
<b>Program Type:</b>	5	24' of marker board, tack board, or tackable wall surface	101100
<b>Size Requirements:</b>	3,500 SF Lab	24' of tall storage cabinets	123550
Lab Requirements:		Pencil sharpener support (optional)	062000
		(4) Paper towel dispensers	102813
		12'x14' motorized overhead sectional door to exterior	083613
		3'x7' hollow metal service door to exterior	081113
		Steel bollards at overhead door, both sides	055000
		<u>Fire Suppression:</u>	
		Fire suppression system	211000
<b>FINISHES:</b>	Spec. Ref #	<u>Plumbing:</u>	
Flooring:		2 washfountains (minimum)	224000
<b>Sealed</b> concrete	033000	2 utility sinks (minimum)	224000
Ceiling:		2 hose bibbs (minimum)	224000
Painted, exposed structure	099100	Safety shower/eyewash	224000
Walls:		2 floor drains	224000
Painted concrete masonry units	042000/ 099100	1 trench drain	224000
		6 compressed air connections	221513
		Plumbing connections	221116/221119/224000
<b>LOOSE FURNISHINGS:</b>		<u>HVAC:</u>	
(8) Workbenches with heavy-duty metal tops		Supply/return air system	Div. 23
(24) Stools or chairs		Independent temperature control	230923
Wastebasket		Vehicle exhaust system	Div. 23
		<u>Electrical:</u>	
		High intensity lighting or fluorescent lighting	265100
		Illumination level: See Table 8600-5	
		Multilevel switching	262726
		30 duplex receptacles (minimum)	262726
		Double duplex receptacle adjacent to each data and video port	262726
		(6) 220 volt receptacles	262726
		<u>Communications:</u>	
		1 <b>projector</b> video port and video display device	271543/274119
		1 voice port and phone	271513/273123
		<b>Wireless access point cable above ceiling</b>	271513
		Clock	275313
		Central sound system	275123
		<b>Wireless access point (WAP) as determined by Design – refer to Note 2</b>	<b>272133</b>
<u>The following items to be funded by the School District:</u>			
Car lifts			
<u>Electronic Safety and Security:</u>			
Life safety devices per code			283111
<u>Miscellaneous:</u> Pencil sharpener (optional)			
<b>Duplex receptacle with dedicated circuit for wireless devices</b>			
<u>Communications (cont'd):</u>			
<b>Classroom technology center video port</b>			<b>271543, 274116, 274119, 275127</b>

**NOTES:**

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

**D0 / 17.1004 BRICK, BLOCK, and CEMENT MASONRY  
CT-P5-1**

CHAPTER 6: CAREER-TECHNICAL SCHOOL

<p><b><u>PROGRAM DESCRIPTION:</u></b> Specialized classroom and laboratory experiences concerned with the cutting, chipping, and fixing in position of brick and concrete block. Included is instruction in the care and use of tools, equipment, and materials for the preparation and performance of masonry construction; the selection and preparation of materials used in the laying of brick and block; and training in blueprint reading, record keeping, estimating, and safety.</p> <p><b>Program Type:</b> 5</p> <p><b>Size Requirements:</b> 3,500 SF Lab</p> <p><b>Lab Requirements:</b></p> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 80%;"></th> <th style="text-align: center; width: 20%;">Spec. 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**NOTES:**

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

**D1 / 17.1011 BUILDING AND PROPERTY MAINTENANCE  
D2 / 17.1017 BUILDING TECHNOLOGY**

## CHAPTER 6: CAREER-TECHNICAL SCHOOL

**CT-P5-1**

<b><u>PROGRAM DESCRIPTION:</u></b>		<b>Spec.</b>
<b><u>FINISHES:</u></b>		<b><u>Ref #</u></b>
Organized learning experiences in the classroom and laboratory concerned with the skills necessary to keep the physical structure of an office building, factory, apartment building, house, or similar structure in good repair. Included is instruction in carpentry; roofing application and repair; ceramic tile and masonry application and repair; electrical installation and repair; painting and wallpapering; and plumbing.		
<b>Program Type:</b>	5	
<b>Size Requirements:</b>	3,000 SF Lab	
<b>Lab Requirements:</b>		
<b><u>FINISHES:</u></b>		
Flooring:		
Sealed concrete	033000	
Ceiling:		
Painted, exposed structure	099100	
Walls:		
Painted concrete masonry units	042000/ 099100	
<b><u>LOOSE FURNISHINGS:</u></b>		
(12) Workbenches with heavy-duty metal tops		
(24) Stools or chairs		
(2) Welding tables		
Wastebasket		
<b><u>Electronic Safety and Security:</u></b>		
Life safety devices per code	283111	
<b><u>Miscellaneous:</u></b>		
Pencil sharpener (optional)		
<b><i>Duplex receptacle with dedicated circuit for wireless devices</i></b>		
<b><u>Communications (cont'd):</u></b>		
<b><i>Wireless access point cable above ceiling</i></b>		
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Clock	275313	
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<b><i>Wireless access point (WAP) as determined by Design – refer to Note 2</i></b>		
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<b><i>Classroom technology center video port</i></b>		
	<b>271543, 274116, 274119, 275127</b>	
<b><u>FEATURES<sup>1</sup>:</u></b>		
<b><u>Fixed Items:</u></b>		
24' of marker board, tack board, or tackable wall surface		101100
24' of tall storage cabinets		123550
Pencil sharpener support (optional)		062000
(3) Paper towel dispensers		102813
12'x14' motorized overhead sectional door to exterior		083613
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Steel bollards at overhead door, both sides		055000
<b><u>Fire Suppression:</u></b>		
Fire suppression system		211000
<b><u>Plumbing:</u></b>		
1 washfountain (minimum)		224000
2 utility sinks (minimum)		224000
2 hose bibbs (minimum)		224000
Safety shower/eyewash		224000
2 floor drains		224000
1 trench drain		224000
6 compressed air connections		221500
2 natural gas connections		226313
Master gas shut-off valve		226313
Plumbing connections	221116/221119/224000	
<b><u>HVAC:</u></b>		
Supply/return air system		Div. 23
Independent temperature control		230923
Welding hood and exhaust		Div. 23
<b><u>Electrical:</u></b>		
High intensity lighting or fluorescent lighting		265100
Illumination level: See Table 8600-5		
Multilevel switching		262726
30 duplex receptacles (minimum)		262726
Double duplex receptacle adjacent to each data and video port		262726
(2) 220 volt receptacles		262726
(2) 277 volt receptacles		262726
(2) 408 volt receptacles		262726
Room safety push-button		262726
<b><u>Communications:</u></b>		
1 <b>projector</b> video port and video display device		271543/274119
1 voice port and phone		271513/273123

**NOTES:**

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

**D6 / 17.1100 CUSTODIAL SERVICES  
CT-P5-1**

CHAPTER 6: CAREER-TECHNICAL SCHOOL

<b>PROGRAM DESCRIPTION:</b> Utilizes industry standards and a math, science, ELA, and technology framework to introduce concepts of layout, assembly, installation, testing, and maintenance of electrical fixtures and apparatus, and the wiring used in electrical systems.		<b>FEATURES<sup>1</sup>:</b>	Spec. Ref.#
<b>Program Type:</b>	5	<b>Fixed Items:</b>	
<b>Size Requirements:</b>	2,500 SF Lab	24' of marker board, tack board, or tackable wall surface	101100
<b>Lab Requirements:</b>		24' of tall storage cabinets	123550
		Pencil sharpener support (optional)	062000
		(3) Paper towel dispensers	102813
		12'x14' motorized overhead sectional door to exterior	083613
		3'x7' hollow metal service door to exterior	081113
		Steel bollards at overhead door, both sides	055000
		<b>Fire Suppression:</b>	
		Fire suppression system	211000
<b>FINISHES:</b>		<b>Plumbing:</b>	
Flooring:		1 washfountain (minimum)	224000
Sealed concrete	033000	2 utility sinks (minimum)	224000
Ceiling:		2 hose bibbs (minimum)	224000
Painted, exposed structure	099100	Safety shower/eyewash	224000
Walls:		2 floor drains	224000
Painted concrete masonry units	042000/ 099100	1 trench drain	224000
		Plumbing connections	221116/221119/224000
		<b>HVAC:</b>	
		Supply/return air system	Div. 23
		Independent temperature control	230923
<b>LOOSE FURNISHINGS:</b>		<b>Electrical:</b>	
(12) Workbenches with heavy-duty metal tops		High intensity lighting or fluorescent lighting	265100
(24) Stools or chairs		Illumination level: See Table 8600-5	
Wastebasket		Multilevel switching	262726
		30 duplex receptacles (minimum)	262726
<b>Electronic Safety and Security:</b>		Double duplex receptacle adjacent to each data and video port	262726
Life safety devices per code	283111	(6) 220 volt receptacles	262726
<b>Miscellaneous:</b>		<b>Communications:</b>	
Pencil sharpener (optional)		1 <b>projector</b> video port	271543
		1 voice port and phone	271513/273123
<b>Duplex receptacle with dedicated circuit for wireless devices</b>		<b>Wireless access point cable above ceiling</b>	271513
		Clock	275313
		Central sound system	275123
		<b>Wireless access point (WAP) as determined by Design – refer to Note 2</b>	<b>272133</b>
		<b>Classroom technology center video port</b>	<b>271543, 274116, 274119, 275127</b>

**NOTES:**

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

**D7 / 17.1002 ELECTRICAL TRADES  
CT-P5-1**

CHAPTER 6: CAREER-TECHNICAL SCHOOL

<p><b><u>PROGRAM DESCRIPTION:</u></b> Specialized classroom and laboratory experiences concerned with the layout, assembly, installation, testing, and maintenance of electrical fixtures and apparatus, and the wiring used in electrical systems. Instruction is provided in worksite safety; electrical principles; the application of codes and standards; residential, commercial, and industrial installations including motors and specialized systems; and the reading, interpretation, and application of blueprints and wiring diagrams. A one year program option is available with an exit in residential wiring, or with an exit in commercial/industrial wiring upon the recommendation of the local advisory committee and the approval of the local board of education.</p> <p><b>Program Type:</b> 5 <b>Size Requirements:</b> 3,000 SF Lab Lab Requirements: Spec. <b><u>FINISHES:</u></b> Ref # Flooring: Sealed concrete 033000 Ceiling: Painted, exposed structure 099100 Walls: Painted concrete masonry units 042000/ 099100</p> <p><b><u>LOOSE FURNISHINGS:</u></b> (12) Workbenches with heavy-duty non-conductive tops (24) Stools or chairs Wastebasket</p> <p><b><u>Electronic Safety and Security:</u></b> Life safety devices per code 283111</p> <p><b><u>Miscellaneous:</u></b> Pencil sharpener (optional)</p> <p><b><i>Duplex receptacle with dedicated circuit for wireless devices</i></b></p> <p><b><u>Communications(cont'd):</u></b> Clock 275313 Central sound system 275123</p> <p><b><i>Wireless access point (WAP) as determined by Design – refer to Note 2</i></b> <b>272133</b></p> <p><b><i>Classroom technology center video port</i></b> <b>271543, 274116, 274119, 275127</b></p>	<p>Spec. Ref.#</p> <p><b><u>FEATURES<sup>1</sup>:</u></b> <b><u>Fixed Items:</u></b> 24' of marker board, tack board, or tackable wall surface 101100 24' of tall storage cabinets 123550 Pencil sharpener support (optional) 062000 (3) Paper towel dispensers 102813 12'x14' motorized overhead sectional door to exterior 083613 3'x7' hollow metal service door to exterior 081113 Steel bollards at overhead door, both sides 055000</p> <p><b><u>Fire Suppression:</u></b> Fire suppression system 211000</p> <p><b><u>Plumbing:</u></b> 1 washfountain (minimum) 224000 2 utility sinks (minimum) 224000 2 hose bibbs (minimum) 224000 Safety shower/eyewash 224000 2 floor drains 224000 1 trench drain 224000 Plumbing connections 221116/221119/224000</p> <p><b><u>HVAC:</u></b> Supply/return air system Div. 23 Independent temperature control 230923</p> <p><b><u>Electrical:</u></b> High intensity lighting or fluorescent lighting 265100 Illumination level: See Table 8600-5 Multilevel switching 262726 30 duplex receptacles (minimum) 262726 Double duplex receptacle adjacent to each data and video port 262726 208v 3-phase service 262726 480v 3-phase service 262726 100 amp 208v 3-phase bus duct 262726 100 amp 480v 3-phase bus duct 262726 Fiber optic service 262726 Cat 5 service 262726 Room safety push-button 262726</p> <p><b><u>Communications:</u></b> 1 <b>projector</b> video port and video display device 271543/274119 1 voice port and phone 271513/273123 <b><i>Wireless access point cable above ceiling</i></b> 271513</p>
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**NOTES:**

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

**D8 / 17.0100 ENVIRONMENTAL CONTROL TECHNOLOGIES****CT-P5-1**

## CHAPTER 6: CAREER-TECHNICAL SCHOOL

<b>PROGRAM DESCRIPTION:</b>		<b>Spec.</b>
<b>Classroom and laboratory experiences that enable the student to become proficient in the installation, repair, and maintenance of residential, commercial, and industrial air-conditioning systems. Included is instruction related to electrical principles; electric motors; controls; refrigeration, heating and air-conditioning principles and practices; and piping systems.</b>		<b>Ref.#</b>
<b>Program Type:</b>	5	
<b>Size Requirements:</b>	3,000 SF Lab	
<b>Lab Requirements:</b>		
<b>FINISHES:</b>	<b>Spec.</b>	
	<b>Ref #</b>	
<b>Flooring:</b>		
Sealed concrete	033000	
<b>Ceiling:</b>		
Painted, exposed structure	099100	
<b>Walls:</b>		
Painted concrete masonry units	042000/ 099100	
<b>LOOSE FURNISHINGS:</b>		
(8) Workbenches with heavy-duty metal tops		
(24) Stools or chairs		
(4) Welding tables		
Wastebasket		
<b>Electronic Safety and Security:</b>		
Life safety devices per code	283111	
<b>Miscellaneous:</b>		
Pencil sharpener (optional)		
Duplex receptacle with dedicated circuit for wireless devices		
<b>Communications (cont'd):</b>		
Wireless access point (WAP) as determined by Design – refer to Note 2	272133	
Classroom technology center video port	271543, 274116, 274119, 275127	
<b>FEATURES<sup>1</sup>:</b>		
<b>Fixed Items:</b>		
24' of marker board, tack board, or tackable wall surface		101100
24' of tall storage cabinets		123550
Pencil sharpener support (optional)		062000
(3) Paper towel dispensers		102813
12'x14' motorized overhead sectional door to exterior		083613
3'x7' hollow metal service door to exterior		081113
Steel bollards at overhead door, both sides		055000
<b>Fire Suppression:</b>		
Fire suppression system		211000
<b>Plumbing:</b>		
1 washfountain (minimum)		224000
2 utility sinks (minimum)		224000
2 hose bibbs (minimum)		224000
Safety shower/eyewash		224000
2 floor drains		224000
1 trench drain		224000
6 natural gas connections		226313
Master gas shut-off valve		226313
Plumbing connections		221116/221119/224000
<b>HVAC:</b>		
Supply/return air system		Div. 23
Independent temperature control		230923
Welding hood and exhaust		Div. 23
<b>Electrical:</b>		
High intensity lighting or fluorescent lighting		265100
Illumination level: See Table 8600-5		
Multilevel switching		262726
30 duplex receptacles (minimum)		262726
Double duplex receptacle adjacent to each data and video port		262726
(2) 220 volt receptacles		262726
(2) 227 volt receptacles		262726
(2) 408 volt receptacles		262726
<b>Communications:</b>		
1 projector video port		271543
1 voice port and phone		271513/273123
Wireless access point cable above ceiling		271513
Clock		275313
Central sound system		275123

**NOTES:**

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

**D9 / 17.1003 HEAVY EQUIPMENT (Construction)**

CHAPTER 6: CAREER-TECHNICAL SCHOOL

**CT-P5-1**

		Spec. Ref.#
<b><u>PROGRAM DESCRIPTION:</u></b>		
Classroom and practical work experiences concerned with the operation, maintenance, and repair of heavy-duty construction equipment, such as bulldozers, backhoes, cranes, graders, tractors, concrete mixers, crawler-mounted shovels, trailer-mounted compressors, and the gasoline or diesel engines powering the equipment.		
<b>Program Type:</b>	5	
<b>Size Requirements:</b>	4,500 SF Lab	
<b>Lab Requirements:</b>		
<b><u>FINISHES:</u></b>	Spec. Ref #	
Flooring:		
Sealed concrete	033000	
Ceiling:		
Painted, exposed structure	099100	
Walls:		
Painted concrete masonry units	042000/ 099100	
<b><u>LOOSE FURNISHINGS:</u></b>		
(8) Workbenches with heavy-duty metal tops		
(24) Stools or chairs		
Wastebasket		
<b><u>Electronic Safety and Security:</u></b>		
Life safety devices per code	283111	
<b><u>Miscellaneous:</u></b>		
Pencil sharpener (optional)		
<b><i>Duplex receptacle with dedicated circuit for wireless device</i></b>		
<b><u>Communications (cont'd):</u></b>		
<b><i>Wireless access point (WAP) as determined by Design – refer to Note 2</i></b>	<b>272133</b>	
<b><i>Classroom technology center video port</i></b>	<b>271543, 274116, 274119, 275127</b>	
<b><u>FEATURES<sup>1</sup>:</u></b>		
<b><u>Fixed Items:</u></b>		
24' of marker board, tack board, or tackable wall surface		101100
24' of tall storage cabinets		123550
Pencil sharpener support (optional)		062000
(3) Paper towel dispensers		102813
12'x14' motorized overhead sectional door to exterior		083613
3'x7' hollow metal service door to exterior		081113
Steel bollards at overhead door, both sides		055000
<b><u>Fire Suppression:</u></b>		
Fire suppression system		211000
<b><u>Plumbing:</u></b>		
1 washfountain (minimum)		224000
2 utility sinks (minimum)		224000
2 hose bibbs (minimum)		224000
Safety shower/eyewash		224000
2 floor drains		224000
1 trench drain		224000
6 compressed air connections		221500
Plumbing connections		221116/221119/224000
<b><u>HVAC:</u></b>		
Supply/return air system		Div. 23
Independent temperature control		230923
<b><u>Electrical:</u></b>		
High intensity lighting or fluorescent lighting		265100
Illumination level: See Table 8600-5		
Multilevel switching		262726
30 duplex receptacles (minimum)		262726
Double duplex receptacle adjacent to each data and video port		262726
(2) 220 volt receptacles		262726
<b><u>Communications:</u></b>		
1 <b>projector</b> video port		271543
1 voice port and phone		271513/273123
<b>Wireless access point cable above ceiling</b>		271513
Clock		275313
Central sound system		275123

**NOTES:**

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

**R2 / 17.1012 INTEGRATED SYSTEMS TECHNOLOGY  
CT-P5-1**

## CHAPTER 6: CAREER-TECHNICAL SCHOOL

<u>PROGRAM DESCRIPTION:</u>	<u>FEATURES<sup>1</sup>:</u>	Spec. Ref.#
Organized learning experiences in the classroom and shop concerned with the maintenance of machinery and mechanical equipment of an industrial plant or factory. Inspection, disassembly, repair, and reassembly of machines and equipment is included in the training experience. Skill training in the use of tools in several trades is also included.	<u>Fixed Items:</u>	
	24' of chalk/marker board, tack board, or tackable wall surface	101100
	24' of tall storage cabinets	123550
	Pencil sharpener support (optional)	062000
	(4) Paper towel dispensers	102813
	12'x14' motorized overhead sectional door to exterior	083613
	3'x7' hollow metal service door to exterior	081113
	Steel bollards at overhead door, both sides	055000
	<u>Fire Suppression:</u>	
	Fire suppression system	211000
	<u>Plumbing:</u>	
	2 washfountains (minimum)	224000
	2 utility sinks (minimum)	224000
	2 hose bibbs (minimum)	224000
	Safety shower/eyewash	224000
	2 floor drains	224000
	1 trench drain	224000
	6 compressed air connections	221500
	Plumbing connections	221116/221119/224000
	<u>HVAC:</u>	
	Supply/return air system	Div. 23
	Independent temperature control	230923
	Welding hood and exhaust	Div. 23
	<u>Electrical:</u>	
	High intensity lighting or fluorescent lighting	265100
	Illumination level: See Table 8600-5	
	Multilevel switching	262726
	30 duplex receptacles (minimum)	262726
	Double duplex receptacle adjacent to each data and video port	262726
	(4) 220 volt receptacles	262726
	208v 3-phase service	262726
	480v 3-phase service	262726
	Room safety push-button	262726
	<u>Communications:</u>	
	1 <b>projector</b> video port	271543
	1 voice port and phone	271513/273123
	<b>Wireless access point cable above ceiling</b>	271513
	Clock	275313
<u>FINISHES:</u>		
Flooring:		
Sealed concrete	Spec. Ref #	033000
Ceiling:		
Painted, exposed structure		099100
Walls:		
Painted concrete masonry units		042000/ 099100
<u>LOOSE FURNISHINGS:</u>		
(12) Workbenches with heavy-duty metal tops		
(24) Stools or chairs		
(4) Welding tables		
Wastebasket		
<u>Electronic Safety and Security:</u>		
Life safety devices per code		283111
<u>Miscellaneous:</u>		
Pencil sharpener (optional)		
<b>Duplex receptacle with dedicated circuit for wireless devices</b>		
<u>Communications (cont'd):</u>		
Central sound system		275123
<b>Wireless access point (WAP) as determined by Design – refer to Note 2</b>		<b>272133</b>
<b>Classroom technology center video port</b>		<b>271543, 274116, 274119, 275127</b>
<u>NOTES:</u>		
1. Finishes/Features: Refer to Chapter 9 for specification references.		
2. This lab may be air-conditioned.		
3. <b>Baseline includes WAP cable per classroom. WAP device quantity / placement per 272133 requirements.</b>		

**DA / 17.1005 INTERIOR DESIGN AND APPLICATIONS**

CHAPTER 6: CAREER-TECHNICAL SCHOOL

**CT-P5-1**

<b>PROGRAM DESCRIPTION:</b>		<b>Spec.</b>
Utilizes industry standards and a math, science, ELA, and technology framework to introduce concepts of the interior construction industry; including painting, wallpapering, flooring, tiling, drywall, trim, lighting, and more.		<b>Ref.#</b>
<b>Program Type:</b>	5	
<b>Size Requirements:</b>	3,000 SF Lab	
<b>Lab Requirements:</b>		
<b>FINISHES:</b>	<b>Spec.</b>	
	<b>Ref #</b>	
<b>Flooring:</b>		
Sealed concrete	033000	
<b>Ceiling:</b>		
Painted, exposed structure	099100	
<b>Walls:</b>		
Painted concrete masonry units	042000/ 099100	
<b>LOOSE FURNISHINGS:</b>		
(12) Workbenches with heavy-duty metal tops		
(24) Stools or chairs		
Wastebasket		
<b>Electronic Safety and Security:</b>		
Life safety devices per code	283111	
<b>Miscellaneous:</b>		
Pencil sharpener (optional)		
Duplex receptacle with dedicated circuit for wireless devices		
<b>Communications (cont'd):</b>		
Classroom technology center video port		
271543, 274116, 274119, 275127		
<b>FEATURES<sup>1</sup>:</b>		
<b>Fixed Items:</b>		
24' of chalk/marker board, tack board, or tackable wall surface		101100
24' of tall storage cabinets		123550
Pencil sharpener support (optional)		062000
(4) Paper towel dispensers		102813
12'x14' motorized overhead sectional door to exterior		083613
3'x7' hollow metal service door to exterior		081113
Steel bollards at overhead door, both sides		055000
<b>Fire Suppression:</b>		
Fire suppression system		211000
<b>Plumbing:</b>		
2 washfountains (minimum)		224000
2 utility sinks (minimum)		224000
2 hose bibbs (minimum)		224000
Safety shower/eyewash		224000
2 floor drains		224000
1 trench drain		224000
Plumbing connections		221116/221119/224000
<b>HVAC:</b>		
Supply/return air system		Div. 23
Independent temperature control		230923
<b>Electrical:</b>		
High intensity lighting or fluorescent lighting		265100
Illumination level: See Table 8600-5		
Multilevel switching		262726
30 duplex receptacles (minimum)		262726
Double duplex receptacle adjacent to each data and video port		262726
<b>Communications:</b>		
1 projector video port and video display device		271543/274119
1 voice port and phone		271513/273123
Wireless access point cable above ceiling		271513
Clock		275313
Central sound system		275123
Wireless access point (WAP) as determined by Design – refer to Note 2		272133

**NOTES:**

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

**R3 / 17.1300 MANUFACTURING DESIGN AND DEVELOPMENT****CT-P5-1**

## CHAPTER 6: CAREER-TECHNICAL SCHOOL

<b>PROGRAM DESCRIPTION:</b>		<b>Spec.</b>
<b>FEATURES<sup>1</sup>:</b>		<b>Ref.#</b>
<u>Mfg Design &amp; Development:</u> Utilizing business and industry, math, English, science, and technology standards, introduces concepts of Design and Development Technologies: Design Process, Teamwork and Project Management, Marketing, Technical Applications, Modeling, Materials and Quality Assurance.		
<b>Program Type:</b>	5	
<b>Size Requirements:</b>	4,500 SF Lab	
<b>Lab Requirements:</b>		
<b>FINISHES:</b>	<b>Spec.</b>	
	<b>Ref #</b>	
<b>Flooring:</b>		
Sealed concrete	033000	
<b>Ceiling:</b>		
Painted, exposed structure	099100	
<b>Walls:</b>		
Painted concrete masonry units	042000/ 099100	
<b>LOOSE FURNISHINGS:</b>		
(12) Workbenches with heavy-duty metal tops		
(24) Stools or chairs		
Wastebasket		
<b>Electronic Safety and Security:</b>		
Life safety devices per code	283111	
<b>Miscellaneous:</b>		
Pencil sharpener (optional)		
<b>Duplex receptacle with dedicated circuit for wireless devices</b>		
<b>Communications (cont'd):</b>		
Central sound system	275123	
<b>Wireless access point (WAP) as determined by Design – refer to Note 2</b>		<b>272133</b>
<b>Classroom technology center video port</b>		<b>271543, 274116, 274119, 275127</b>
<b>Fixed Items:</b>		
24' of marker board, tack board, or tackable wall surface		101100
24' of tall storage cabinets		123550
Pencil sharpener support (optional)		062000
(3) Paper towel dispensers		102813
12'x14' motorized overhead sectional door to exterior		083613
3'x7' hollow metal service door to exterior		081113
Steel bollards at overhead door, both sides		055000
<b>Fire Suppression:</b>		
Fire suppression system		211000
<b>Plumbing:</b>		
1 washfountain (minimum)		224000
2 utility sinks (minimum)		224000
2 hose bibbs (minimum)		224000
Safety shower/eyewash		224000
2 floor drains		224000
1 trench drain		224000
6 compressed air connections		221500
Plumbing connections		221116/221119/224000
<b>HVAC:</b>		
Supply/return air system		Div. 23
Independent temperature control		230923
<b>Electrical:</b>		
High intensity lighting or fluorescent lighting		265100
Illumination level: See Table 8600-5		
Multilevel switching		262726
30 duplex receptacles (minimum)		262726
Double duplex receptacle adjacent to each data and video port		262726
(4) 220 volt receptacles		262726
208v 3-phase service		262726
480v 3-phase service		262726
Room safety push-button		262726
<b>Communications:</b>		
1 <b>projector</b> video port and video display device		271543/274119
1 voice port and phone		271513/273123
<b>Wireless access point cable above ceiling</b>		<b>271513</b>
Clock		275313

**NOTES:**

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

**A6 / 01.0701 NATURAL RESOURCE MANAGEMENT**

CHAPTER 6: CAREER-TECHNICAL SCHOOL

**CT-P5-1**

<p><b><u>PROGRAM DESCRIPTION:</u></b>                  Applies science to management and protection of renewable and non-renewable resources; includes fundamentals of land use, watersheds, wildlife, fisheries and forestry. Communications, business principles and leadership skill development are essential to the program.</p> <p><b>Program Type:</b> 5</p> <p><b>Size Requirements:</b> 3,000 SF Lab</p> <p>Lab Requirements: Spec.</p> <p><b><u>FINISHES:</u></b></p> <table border="0"> <tr> <td></td> <td style="text-align: right;"><b>Ref #</b></td> </tr> <tr> <td>Flooring: Sealed concrete</td> <td style="text-align: right;">033000</td> </tr> <tr> <td>Ceiling:</td> <td></td> </tr> <tr> <td>    Painted, exposed structure</td> <td style="text-align: right;">099100</td> </tr> <tr> <td>Walls:</td> <td></td> </tr> <tr> <td>    Painted concrete masonry units</td> <td style="text-align: right;">042000/ 099100</td> </tr> </table> <p><b><u>LOOSE FURNISHINGS:</u></b>                  (12) Workbenches with heavy-duty metal tops                  (24) Stools or chairs                  (2) Welding tables                  Wastebasket</p> <p><b><u>Miscellaneous:</u></b>                  Pencil sharpener (optional)</p> <p><b><u>SITE FEATURES:</u></b></p> <table border="0"> <tr> <td>Greenhouse – 1,000 SF</td> <td style="text-align: right;">133413</td> </tr> </table> <ul style="list-style-type: none"> <li>▪ ½ earth flooring, ½ concrete flooring (with floor drains)</li> <li>▪ Minimum of one 8'x10' overhead door</li> <li>▪ Provide electrical, plumbing, and heating/ventilation systems as per greenhouse manufacturer's recommendations.</li> <li>▪ Minimum of 4 hose bibbs</li> <li>▪ Fire suppression system if required</li> </ul> <p><b><u>Electronic Safety and Security:</u></b></p> <table border="0"> <tr> <td>Life safety devices per code</td> <td style="text-align: right;">283111</td> </tr> </table> <p><b><u>Communications (cont'd):</u></b>  <b><i>Duplex receptacle with dedicated circuit for wireless devices</i></b>  <b><i>Wireless access point (WAP) as determined by Design – refer to Note 2</i></b>  <span style="float: right;"><b>272133</b></span>  <b><i>Classroom technology center video port</i></b>  <span 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**NOTES:**

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

**DB / 17.1007 PLUMBING AND PIPEFITTING  
CT-P5-1**

CHAPTER 6: CAREER-TECHNICAL SCHOOL

<b>PROGRAM DESCRIPTION:</b>		<b>Spec.</b>
<b>FINISHES:</b>		<b>Ref.#</b>
Specialized classroom and laboratory experiences concerned with layout, assembly, installation, alteration, and repair of piping systems and related fixtures and fittings. Included is instruction in the use of pipe-cutting, bending, grooving, and threading tools; the maintenance and use of welding, soldering, and brazing equipment; the care and safe use of hand and power tools and equipment; and the reading, interpretation, and application of blueprints and piping diagrams.		
<b>Program Type:</b>	5	
<b>Size Requirements:</b>	3,000 SF Lab	
<b>Lab Requirements:</b>		
	Spec.	
	<u>Ref #</u>	
<b>FINISHES:</b>		
Flooring:		
Sealed concrete	033000	
Ceiling:		
Painted, exposed structure	099100	
Walls:		
Painted concrete masonry units	042000/ 099100	
<b>LOOSE FURNISHINGS:</b>		
(12) Workbenches with heavy-duty metal tops		
(24) Stools or chairs		
(4) Welding tables		
Wastebasket		
<b>Electronic Safety and Security:</b>		
Life safety devices per code	283111	
<b>Miscellaneous:</b>		
Pencil sharpener (optional)		
<b>Duplex receptacle with dedicated circuit for wireless devices</b>		
<b>Communications (cont'd):</b>		
<b>Wireless access point cable above ceiling</b>	271513	
Clock	275313	
Central sound system	275123	
<b>Wireless access point (WAP) as determined by Design – refer to Note 2</b>	272133	
<b>Classroom technology center video port</b>	271543, 274116, 274119, 275127	
<b>FEATURES<sup>1</sup>:</b>		
<b>Fixed Items:</b>		
24' of marker board, tack board, or tackable wall surface	101100	
24' of tall storage cabinets	123550	
Pencil sharpener support (optional)	062000	
(3) Paper towel dispensers	102813	
12'x14' motorized overhead sectional door to exterior	083613	
3'x7' hollow metal service door to exterior	081113	
Steel bollards at overhead door, both sides	055000	
<b>Fire Suppression:</b>		
Fire suppression system	211000	
<b>Plumbing:</b>		
1 washfountain (minimum)	224000	
2 utility sinks (minimum)	224000	
2 hose bibbs (minimum)	224000	
Safety shower/eyewash	224000	
2 floor drains	224000	
1 trench drain	224000	
6 compressed air connections	221500	
6 natural gas connections	226313	
Master gas shut-off valve	226313	
Plumbing connections	221116/221119/224000	
<b>HVAC:</b>		
Supply/return air system	Div. 23	
Independent temperature control	230923	
Welding hood and exhaust	Div. 23	
Individual exhaust system for each gas-fired piece of equipment	Div. 23	
<b>Electrical:</b>		
High intensity lighting or fluorescent lighting	265100	
Illumination level: See Table 8600-5		
Multilevel switching	262726	
30 duplex receptacles (minimum)	262726	
Double duplex receptacle adjacent to each data and video port	262726	
(6) 220 volt receptacles	262726	
Room safety push-button	262726	
<b>Communications:</b>		
1 <b>projector</b> video port and video display device	271543/274119	
1 voice port and phone	271513/273123	

**NOTES:**

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

**T8 / 17.3100 POWER EQUIPMENT TECHNOLOGY**

CHAPTER 6: CAREER-TECHNICAL SCHOOL

**CT-P5-1**

		Spec. Ref.#
<b><u>PROGRAM DESCRIPTION:</u></b>		
Training in this program focuses on 2 and 4 cycle gasoline powered engines and their use in outdoor power and recreational equipment. This includes the basic service and preventative maintenance of equipment.		
<b>Program Type:</b>	5	
<b>Size Requirements:</b>	3,500 SF Lab	
Lab Requirements:		
<b><u>FINISHES:</u></b>	Spec. Ref #	
Flooring:		
Sealed concrete	033000	
Ceiling:		
Painted, exposed structure	099100	
Walls:		
Painted concrete masonry units	042000/ 099100	
<b><u>LOOSE FURNISHINGS:</u></b>		
(12) Workbenches with heavy-duty metal tops		
(24) Stools or chairs		
(2) Welding tables		
Wastebasket		
<b><u>Electronic Safety and Security:</u></b>		
Life safety devices per code	283111	
<b><u>Miscellaneous:</u></b>		
Pencil sharpener (optional)		
<b><i>Duplex receptacle with dedicated circuit for wireless devices</i></b>		
<b><u>Communications (cont'd):</u></b>		
<b><i>Wireless access point (WAP) as determined by Design – refer to Note 2</i></b>		
<b>272133</b>		
<b><i>Classroom technology center video port</i></b>		
<b>271543, 274116, 274119, 275127</b>		
<b><u>FEATURES<sup>1</sup>:</u></b>		
<b><u>Fixed Items:</u></b>		
24' of marker board, tack board, or tackable wall surface		101100
24' of tall storage cabinets		123550
Pencil sharpener support (optional)		062000
(4) Paper towel dispensers		102813
12'x14' motorized overhead sectional door to exterior		083613
3'x7' hollow metal service door to exterior		081113
Steel bollards at overhead door, both sides		055000
<b><u>Fire Suppression:</u></b>		
Fire suppression system		211000
<b><u>Plumbing:</u></b>		
2 washfountains (minimum)		224000
2 utility sinks (minimum)		224000
2 hose bibbs (minimum)		224000
Safety shower/eyewash		224000
4 floor drains		224000
1 trench drain		224000
6 compressed air connections		221500
Plumbing connections		221116/221119/224000
<b><u>HVAC:</u></b>		
Supply/return air system		Div. 23
Independent temperature control		230923
Welding hood and exhaust		Div. 23
<b><u>Electrical:</u></b>		
High intensity lighting or fluorescent lighting		265100
Illumination level: See Table 8600-5		
Multilevel switching		262726
30 duplex receptacles (minimum)		262726
Double duplex receptacle adjacent to each data and video port		262726
(6) 220 volt receptacles		262726
<b><u>Communications:</u></b>		
1 <b>projector</b> video port and video display device		271543/274119
1 voice port and phone		271513/273123
<b>Wireless access point cable above ceiling</b>		271513
Clock		275313
Central sound system		275123

**NOTES:**

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

**F4 / 17.1402 POWER TRANSMISSION  
CT-P5-1**

## CHAPTER 6: CAREER-TECHNICAL SCHOOL

<u>PROGRAM DESCRIPTION:</u>	<u>FEATURES<sup>1</sup>:</u>	Spec. Ref.#
Specialized classroom and laboratory experiences concerned with erecting and maintaining power lines and circuits for transmission and distribution of electrical power, and assembling and erecting related equipment and structures.	<u>Fixed Items:</u>	
	24' of marker board, tack board, or tackable wall surface	101100
	24' of tall storage cabinets	123550
	Pencil sharpener support (optional)	062000
	(4) Paper towel dispensers	102813
	12'x14' motorized overhead sectional door to exterior	083613
	3'x7' hollow metal service door to exterior	081113
	Steel bollards at overhead door, both sides	055000
	Provide (6) holes in floor to accommodate utility poles. Provide removable metal covers when not in use.	
	<u>Fire Suppression:</u>	
	Fire suppression system	211000
	<u>Plumbing:</u>	
	1 washfountain (minimum)	224000
	2 utility sinks (minimum)	224000
	2 hose bibbs (minimum)	224000
	Safety shower/eyewash	224000
	2 floor drains	224000
	1 trench drain	224000
	6 compressed air connections	221500
	Plumbing connections	221116/221119/224000
	<u>HVAC:</u>	
	Supply/return air system	Div. 23
	Independent temperature control	230923
	<u>Electrical:</u>	
	High intensity lighting or fluorescent lighting	265100
	Illumination level: See Table 8600-5	
	Multilevel switching	262726
	30 duplex receptacles (minimum)	262726
	Double duplex receptacle adjacent to each data and video port	262726
	<u>Communications:</u>	
	1 <b>projector</b> video port and video display device	271543/274119
	1 voice port and phone	271513/273123
	<b>Wireless access point cable above ceiling</b>	271513
	Clock	275313
	Central sound system	275123
<u>PROGRAM DESCRIPTION:</u>		
Specialized classroom and laboratory experiences concerned with erecting and maintaining power lines and circuits for transmission and distribution of electrical power, and assembling and erecting related equipment and structures.		
<b>Program Type:</b> 5		
<b>Size Requirements:</b> 3,500 SF Lab		
<b>Lab Requirements:</b>		
	Spec. Ref #	
<u>FINISHES:</u>		
Flooring:		
Sealed concrete	033000	
Ceiling:		
Painted, exposed structure	099100	
Walls:		
Painted concrete masonry units	042000/ 099100	
<u>LOOSE FURNISHINGS:</u>		
(12) Workbenches with heavy-duty metal tops		
(24) Stools or chairs		
Wastebasket		
<u>Electronic Safety and Security:</u>		
Life safety devices per code	283111	
<u>Miscellaneous:</u>		
Pencil sharpener (optional)		
<b>Duplex receptacle with dedicated circuit for wireless devices</b>		
<u>Communications (cont'd):</u>		
<b>Wireless access point (WAP) as determined by Design – refer to Note 2</b>	<b>272133</b>	
<b>Classroom technology center video port</b>	<b>271543, 274116, 274119, 275127</b>	

NOTES:

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

**R6 / 17.2306 WELDING and CUTTING  
CT-P5-1**

## CHAPTER 6: CAREER-TECHNICAL SCHOOL

<u>PROGRAM DESCRIPTION:</u>	<u>FEATURES<sup>1</sup>:</u>	Spec. Ref.#
Utilizing business and industry, math, science, and technology standards, introduces concepts of metal welding, brazing, and flame cutting.	<u>Fixed Items:</u>	
	24' of marker board, tack board, or tackable wall surface	101100
	24' of tall storage cabinets	123550
	Pencil sharpener support (optional)	062000
	(3) Paper towel dispensers	102813
	12'x14' motorized overhead sectional door to exterior	083613
	3'x7' hollow metal service door to exterior	081113
	Steel bollards at overhead door, both sides	055000
	<u>Fire Suppression:</u>	
	Fire suppression system	211000
	<u>Plumbing:</u>	
	1 washfountain (minimum)	224000
	2 utility sinks (minimum)	224000
	2 hose bibbs (minimum)	224000
	Safety shower/eyewash	224000
	2 floor drains	224000
	1 trench drain	224000
	6 compressed air connections	221500
	Plumbing connections	221116/221119/224000
	<u>HVAC:</u>	
	Supply/return air system	Div. 23
	Independent temperature control	230923
	Welding hood and exhaust	Div. 23
	<u>Electrical:</u>	
	High intensity lighting or fluorescent lighting	265100
	Illumination level: See Table 8600-5	
	Multilevel switching	262726
	30 duplex receptacles (minimum)	262726
	Double duplex receptacle adjacent to each data and video port	262726
	(6) 220 volt receptacles	262726
	480v 3-phase service	262726
	Room safety push-button	262726
	<u>Communications:</u>	
	1 <b>projector</b> video port and video display device	271543/274119
	1 voice port and phone	271513/273123
	<b>Wireless access point cable above ceiling</b>	271513
	Clock	275313
<u>PROGRAM DESCRIPTION:</u>		
Program Type: 5		
Size Requirements: 3,500 SF Lab		
Lab Requirements:		
	Spec. Ref #	
<u>FINISHES:</u>		
Flooring:		
Sealed concrete	033000	
Ceiling:		
Painted, exposed structure	099100	
Walls:		
Painted concrete masonry units	042000/ 099100	
<u>LOOSE FURNISHINGS:</u>		
(20) Welding tables with heavy-duty metal tops		
(24) Stools or chairs		
(4) 4'x4' metal worktables		
(1) Steel tube storage rack		
(1) Sheet steel storage rack		
Wastebasket		
<u>Electronic Safety and Security:</u>		
Life safety devices per code	283111	
<u>Miscellaneous:</u>		
Pencil sharpener (optional)		
The following item may be funded by the school district:		
Overhead hoist crane		
<b>Duplex receptacle with dedicated circuit for wireless devices</b>		
<u>Communications (cont'd):</u>		
Central sound system	275123	
<b>Wireless access point (WAP) as determined by Design – refer to Note 2</b>	<b>272133</b>	
<b>Classroom technology center video port</b>	<b>271543, 274116, 274119, 275127</b>	

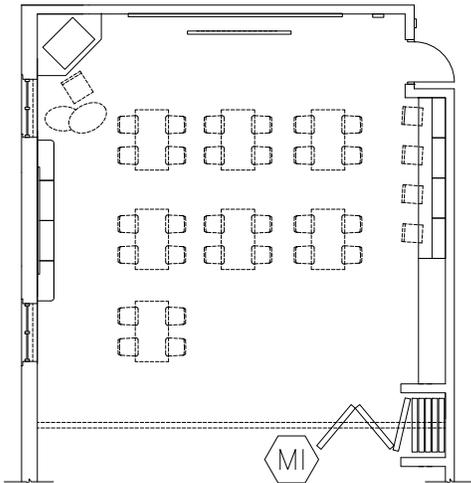
NOTES:

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

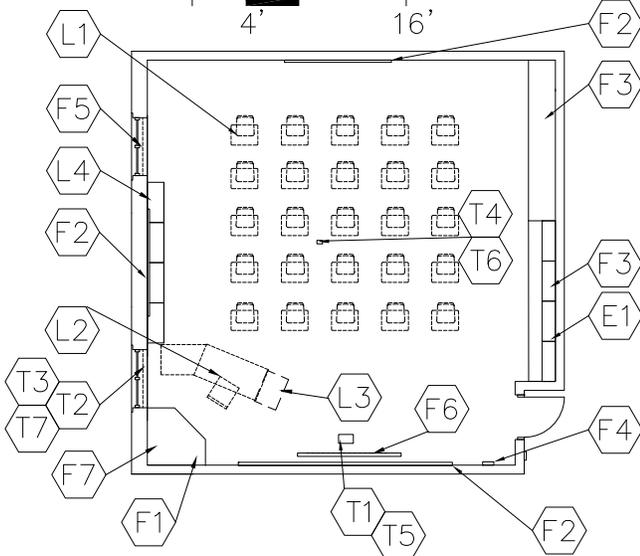
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**RELATED CLASSROOM  
CT-P5-2**

**CHAPTER 6: CAREER-TECHNICAL HIGH 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 related lab
- 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
- Proximity to main corridor to accommodate other students without interrupting lab

**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.

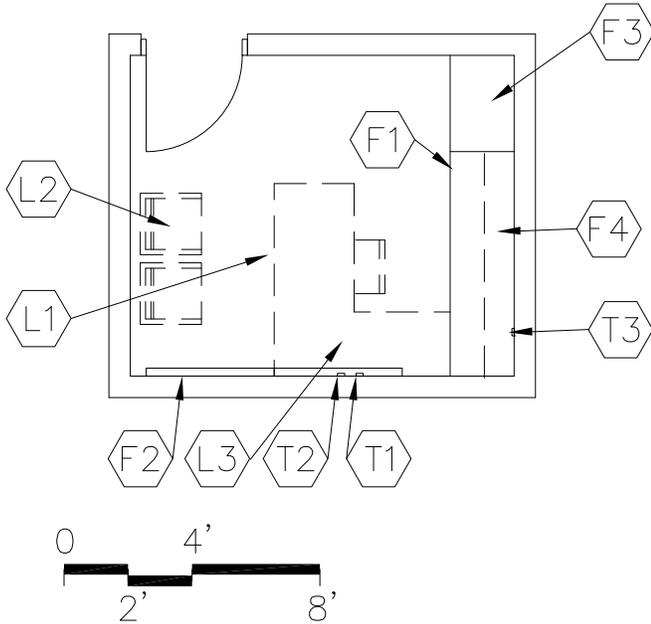
**RELATED CLASSROOM  
CT-P5-2**
**CHAPTER 6: CAREER-TECHNICAL HIGH SCHOOL**

<u>FINISHES<sup>1</sup>:</u>	Spec. Ref.#	<u>FEATURES<sup>1</sup>:</u>	Spec. Ref.#
<u>Flooring:</u>		<u>Fixed Items:</u>	
Carpet or carpet tile	096816	<b>F1</b> Tall wardrobe with file drawers	123550
Optional: linoleum, ET, or sheet vinyl	096516 096500 096813	<b>F2</b> 20'-32' combination marker board, tack board and tackable wall surface	101100
<u>Base:</u>		<b>F3</b> 18'-24' combination base and wall cabinets	123550
Resilient base	096500	<b>F4</b> Pencil sharpener support (optional)	062000
<u>Ceiling:</u>		<b>F5</b> Windows with integral blinds	085113
Suspended, acoustical	095113	<b>F6</b> Projection screen (optional)	115213
<u>Walls:</u>		<b>F7</b> Technology support casework	123550
Painted concrete masonry units	042000/099100	<u>Fire Suppression:</u>	
		Fire suppression system	211000
		<u>Plumbing:</u>	
		N/A	
		<u>HVAC:</u>	
		Supply/return air system	Div. 23
		Independent temperature control	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 <b>projector</b> video port	271543
		T2 1 voice port and phone	271513/273123
		T3 1 data port near teacher workstation	271513
		T4 <b>Wireless access point cable above ceiling</b>	271513
		Clock	275313
		Central sound system	275123
		Sound reinforcement system	275127
		T5 <b>Ultra-short throw interactive</b> projector	274119
		T6 <b>Wireless access point (WAP) as determined by Design – refer to Note 4</b>	272133
		T7 <b>Classroom technology center video port</b>	271543, 274116, 274119, 275127
		<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. Where appropriate, some casework may be mobile to add flexibility and become part of the loose furnishings.
4. **Baseline includes WAP cable per classroom. WAP device quantity / placement per 272133 requirements.**

**CHAPTER 6: CAREER-TECHNICAL SCHOOL**



**PROGRAM ACTIVITIES:**

- Private space for program instructor
- One-on-one conferences with academic instructors, students, etc.

**SPATIAL RELATIONSHIPS:**

- Near related lab
- Direct access to school circulation areas

**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.

**OFFICE  
CT-P5-3**
**CHAPTER 6: CAREER-TECHNICAL SCHOOL**

<u>FINISHES<sup>1</sup>:</u>	Spec. Ref.#	<u>FEATURES<sup>1</sup>:</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
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			
Wastebasket		<u>Electrical:</u>	
		Single level switching	262726
		Fluorescent lighting	265100
		Illumination level: See Table 8600-5	
		4 duplex receptacles	262726
		Double duplex receptacle adjacent	
		to data and video port	262726
		<u>Communications:</u>	
		T1 1 voice port and phone	271513/273123
		T2 1 data port near workstation	271513
		T3 1 <b>projector</b> video port	271543
		Central sound system	275123
		Clock	275313
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
		<u>Miscellaneous:</u>	
		N/A	

**NOTES:**

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

**PROGRAM ACTIVITIES:**

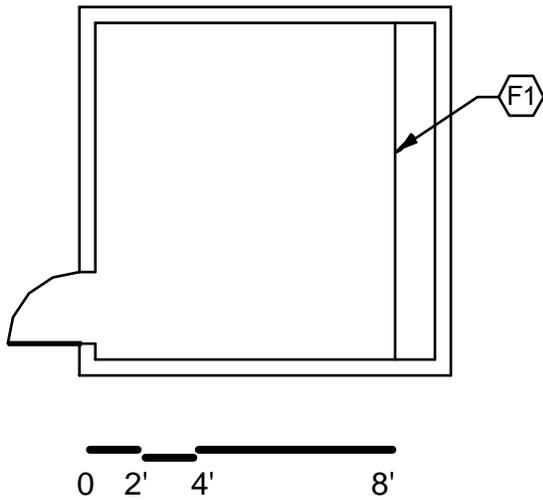
- Space for storage of lab equipment

**SPATIAL RELATIONSHIPS:**

- Near related lab

**ENVIRONMENTAL CONSIDERATIONS:**

N/A



CAPACITY:  
SIZE:

N/A  
200 SF

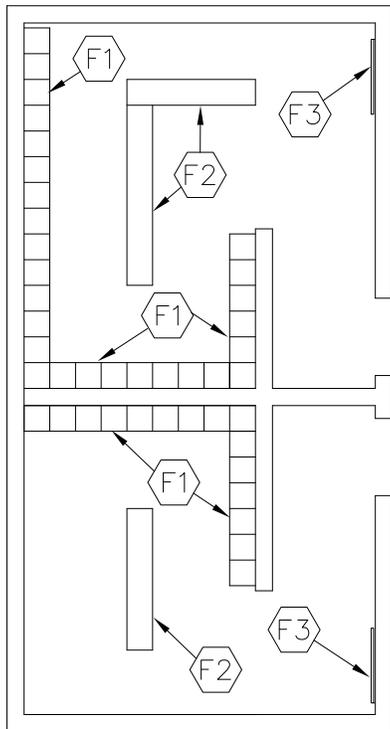
NOTES:

**STORAGE AREA  
CT-P5-4**
**CHAPTER 6: CAREER-TECHNICAL SCHOOL**

	Spec. Ref.#		Spec. Ref.#
<u>FINISHES<sup>1</sup>:</u>		<u>FEATURES<sup>1</sup>:</u>	
Flooring:		<u>Fixed Items<sup>1</sup>:</u>	
<b>Sealed</b> concrete	033000	F1 8'-20' of open shelving	
		Depth may vary (fixed or loose)	123550
Base:		<u>Fire Suppression:</u>	
Resilient base	096500	Fire suppression system	211000
Ceiling:		<u>Plumbing:</u>	
Exposed structure	---	N/A	
Walls:		<u>HVAC:</u>	
Painted concrete masonry units	042000/099100	To be determined by Design Professional	
		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 8600-5	
		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.

**PROGRAM ACTIVITIES:**

- Personal and health needs for the program Specific users.
- Changing of clothes and/or uniforms.
- Storage of personal items while students are in lab.

**SPATIAL RELATIONSHIPS:**

- Adjacent to related lab

**ENVIRONMENTAL CONSIDERATIONS:**

- Sanitary and durable finishes.
- Environmental sound control  
Wall minimum STC 40  
Ceiling minimum CAC 35, NRC 0.70

CAPACITY: N/A  
SIZE: 9 SF per student (see Note 2)

**NOTES:**

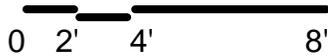
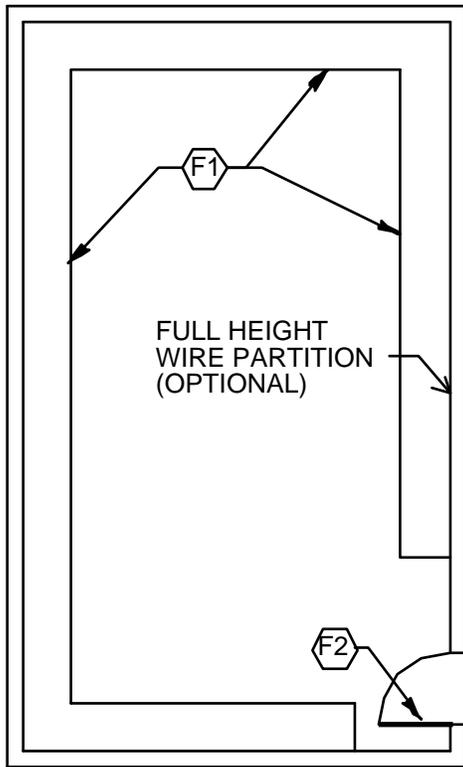
1. Large and small changing areas are interchangeable for either males or females.  
Determination based on male/female ratio within each program.
2. Student count determined by total number of approved program spaces Types 5, 6, and 7 times 30.

**CHANGING ROOM  
CT-P5-4**
**CHAPTER 6: CAREER-TECHNICAL SCHOOL**

<u>FINISHES<sup>1</sup>:</u>	Spec. Ref.#	<u>FEATURES<sup>1</sup>:</u>	Spec. Ref.#
<u>Flooring:</u>		<u>Fixed Items<sup>1</sup>:</u>	
Polished concrete finishing, or colored concrete finishing	033510 033519	F1 Student lockers	105113
Optional: linoleum, or rubber	096500 096516	F2 Locker benches	062000
		F3 24" x 60" mirror	102813
<u>Base:</u>		<u>Fire Suppression:</u>	
Resilient base	096500	Fire suppression system	211000
<u>Ceiling:</u>		<u>Plumbing:</u>	
Suspended, acoustical with high impact hold down clips	095113	N/A	
<u>Walls:</u>		<u>HVAC:</u>	
Painted concrete masonry units	042000 / 099100	Supply/Return air system	Div. 23
		Exhaust air system	Div. 23
		Supplemental heat as required	Div. 23
		Individual temperature control	230923
<u>LOOSE FURNISHINGS</u>		<u>Electrical:</u>	
Wastebaskets		Single level switching	262726
		Fluorescent lighting	265100
		Illumination level: See Table 8600-6	
		2 Duplex receptacles	262726
		Means of egress lighting per code	265100
		<u>Communications:</u>	
		Clock	275313
		Central Sound System	275123
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
		<u>Miscellaneous:</u>	
		N/A	

**NOTES:**

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



**PROGRAM ACTIVITIES:**

- Storage of program related tools and instruments.
- Storage of students' tools.

**SPATIAL RELATIONSHIPS:**

- Adjacent to related lab

**ENVIRONMENTAL CONSIDERATIONS:**

- Sanitary and durable finishes

CAPACITY:  
SIZE:  
ANCILLARY SPACES:

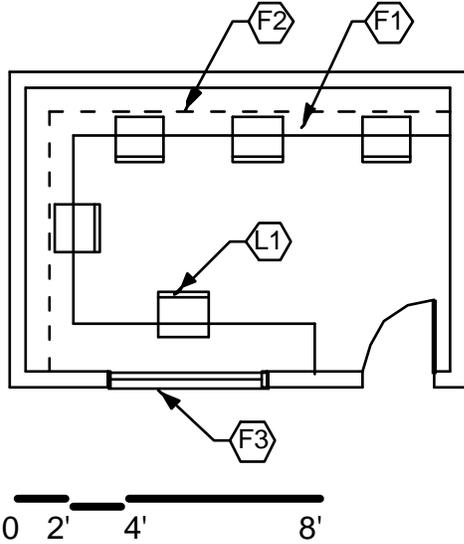
N/A  
550 SF

**TOOL CRIB**  
**CT-P5-6**
**CHAPTER 6: CAREER-TECHNICAL SCHOOL**

	Spec. Ref.#		Spec. Ref.#
<b><u>FINISHES</u><sup>1</sup>:</b>		<b><u>FEATURES</u><sup>1</sup>:</b>	
Flooring:		<b><u>Fixed Items</u><sup>1</sup>:</b>	
<b>Sealed</b> concrete	033000	F1 80' of open metal shelving (total), Depth may vary (fixed or loose)	105613
Optional: linoleum, or rubber	096500 096516	F2 Dutchdoor	105613
Base:		<b><u>Fire Suppression:</u></b>	
Resilient base	096500	Fire suppression system	211000
Ceiling:		<b><u>Plumbing:</u></b>	
Suspended, acoustical	095113	N/A	
Walls:		<b><u>HVAC:</u></b>	
Painted concrete masonry units	042000 / 099100	Exhaust air system	Div. 23
		Supplemental heat as required	Div. 23
<b><u>LOOSE FURNISHINGS</u></b>		<b><u>Electrical:</u></b>	
N/A		Single level switching	262726
		Fluorescent lighting	265100
		Illumination level: See Table 8600-5	
		4 Duplex receptacles	262726
		<b><u>Communications:</u></b>	
		N/A	
		<b><u>Electronic Safety and Security:</u></b>	
		Life safety devices per code	283111
		<b><u>Miscellaneous:</u></b>	
		N/A	

**NOTES:**

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



**PROGRAM ACTIVITIES:**

- Individual computer research.
- Reference program specific manuals.
- Small group meetings.

**SPATIAL RELATIONSHIPS:**

- Adjacent to related lab

**ENVIRONMENTAL CONSIDERATIONS:**

- Sanitary and durable finishes
- Environmental sound control
  - Wall minimum STC 45
  - Ceiling minimum CAC 35, NRC 0.70

CAPACITY:  
SIZE:

N/A  
200 SF

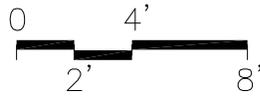
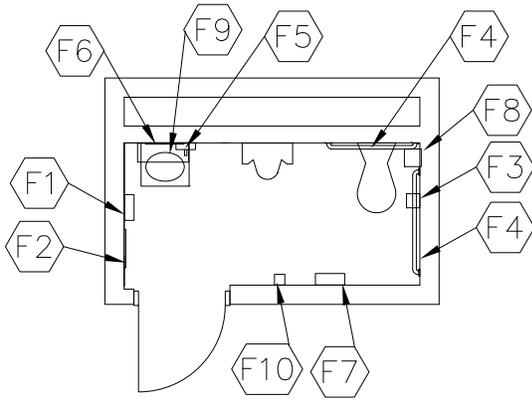
NOTES:

**REFERENCE ROOM  
CT-P5-7**
**CHAPTER 6: CAREER-TECHNICAL SCHOOL**

	Spec. Ref.#		Spec. Ref.#
<b><u>FINISHES<sup>1</sup>:</u></b>		<b><u>FEATURES<sup>1</sup>:</u></b>	
<b>Flooring:</b>		<b><u>Fixed Items:</u></b>	
<b>Sealed</b> concrete	033000	F1 34' of plastic lam. counter	062000
<b>Base:</b>		F2 27' of adjustable shelving	062000
Resilient base	096500	F3 Interior window	081113/088000
<b>Ceiling:</b>		<b><u>Fire Suppression:</u></b>	
Suspended, acoustical	095113	Fire suppression system	211000
<b>Walls:</b>		<b><u>Plumbing:</u></b>	
Painted concrete masonry units		N/A	
	042000 / 099100	<b><u>HVAC:</u></b>	
<b><u>LOOSE FURNISHINGS</u></b>		Supply/return air system	Div. 23
L3 Student chairs		Exhaust air system	Div. 23
Wastebasket		Supplemental heat as required	Div. 23
		<b><u>Electrical:</u></b>	
		Single level switching	262726
		Fluorescent lighting	265100
		Illumination level: See Table 8600-5	
		2 Duplex receptacles	262726
		Duplex receptacle adjacent to	
		Each data and video port	262726
		<b><u>Communications:</u></b>	
		T1 6 data ports	271513
		<b><u>Electronic Safety and Security:</u></b>	
		Life safety devices per code	283111
		<b><u>Miscellaneous:</u></b>	
		N/A	

**NOTES:**

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



**PROGRAM ACTIVITIES:**

- Personal and health needs for the program
- Specific users
- Changing of clothes and/or uniforms.

**SPATIAL RELATIONSHIPS:**

- Adjacent to related lab

**ENVIRONMENTAL CONSIDERATIONS:**

- Sanitary and durable finishes.
- Environmental sound control  
 Wall minimum STC 48  
 Ceiling minimum CAC 35, NRC 0.70

CAPACITY:  
SIZE:

N/A  
68 SF

NOTES:

**TOILET ROOM**  
**CT-P5-8**
**CHAPTER 6: CAREER-TECHNICAL SCHOOL**

	Spec. Ref.#		Spec. Ref.#
<b><u>FINISHES<sup>1</sup>:</u></b>		<b><u>FEATURES<sup>1</sup>:</u></b>	
Sealed concrete	033000	<b><u>Fixed Items:</u></b>	
Optional: rubber	096500	F1 Towel dispenser	102813
Base:		F2 24" x 60" mirror	102813
Resilient base	096500	F3 Toilet tissue holder	102813
Ceiling:		F4 36" and 42" grab bars	102813
Suspended, acoustical	095113	F5 Soap dispenser	102813
Walls:		F6 16" x 24" mirror	102813
Painted concrete masonry units	042000 / 099100	F7 Sanitary product dispenser	102813
		F8 Sanitary product receptacle	102813
		F9 Stainless steel shelf (optional)	102813
		F10 Coat hook	102813
<b><u>LOOSE FURNISHINGS</u></b>		<b><u>Fire Suppression:</u></b>	
Wastebaskets		Fire suppression system	211000
		<b><u>Plumbing:</u></b>	
		Plumbing connections	221116/221119/224000
		<b><u>HVAC:</u></b>	
		Supply/return air system	Div. 23
		Exhaust air system	Div. 23
		Supplemental heat as required	Div. 23
		Individual temperature control	230923
		<b><u>Electrical:</u></b>	
		Single level switching	262726
		Fluorescent lighting	265100
		Illumination level: See Table 8600-5	
		2 Duplex receptacles	262726
		Means of egress lighting per code	265100
		<b><u>Communications:</u></b>	
		Clock	275313
		<b><u>Electronic Safety and Security:</u></b>	
		Life safety devices per code	283111
		<b><u>Miscellaneous:</u></b>	
		N/A	

**NOTES:**

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

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**PROGRAM TYPE 6**

## CHAPTER 6: CAREER-TECHNICAL SCHOOL

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**Program Type 6**

Description: Medium to large sized lab space with enhanced support space.

Lab space to be "high-bay" (18' min. clearance) with exposed building structure.

Lab to utilize standard construction with the following exception – lab floor slab to be 8" thick.

Support space to be finished with sealed concrete or vinyl composition tile, paint, and suspended acoustical ceiling. Lab may have possible site feature.

**Related classroom, office, changing room, reference room, and toilet room may be air-conditioned. Program specific spaces may be air-conditioned if the space is self-contained and curriculum and use require air-conditioning. High bay labs have no air-conditioning unless noted otherwise.**

**NOTES:**

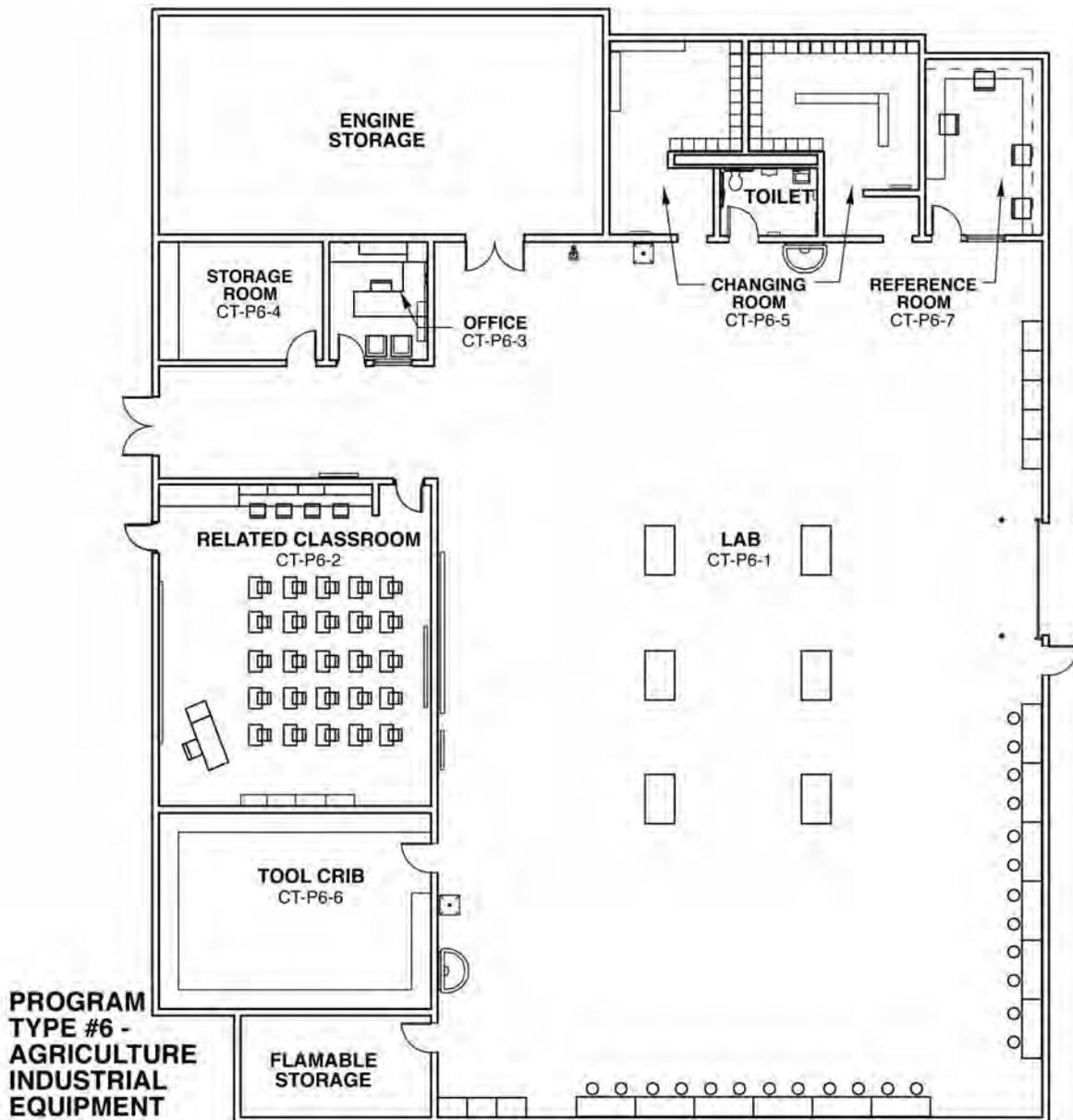
This is an example of how the Program Type 6 spaces in a career-technical school could be arranged. This is meant only to demonstrate the relationships between various spaces of this area.

Following are the Program Type 6 space plates:

CT-P6-1	Lab
CT-P6-2	Related Classroom
CT-P6-3	Office
CT-P6-4	Storage
CT-P6-5	Changing Room
CT-P6-6	Tool Crib
CT-P6-7	Reference Room
CT-P6-8	Toilet Room

**PROGRAM TYPE 6  
EXAMPLE**

CHAPTER 6: CAREER-TECHNICAL SCHOOL

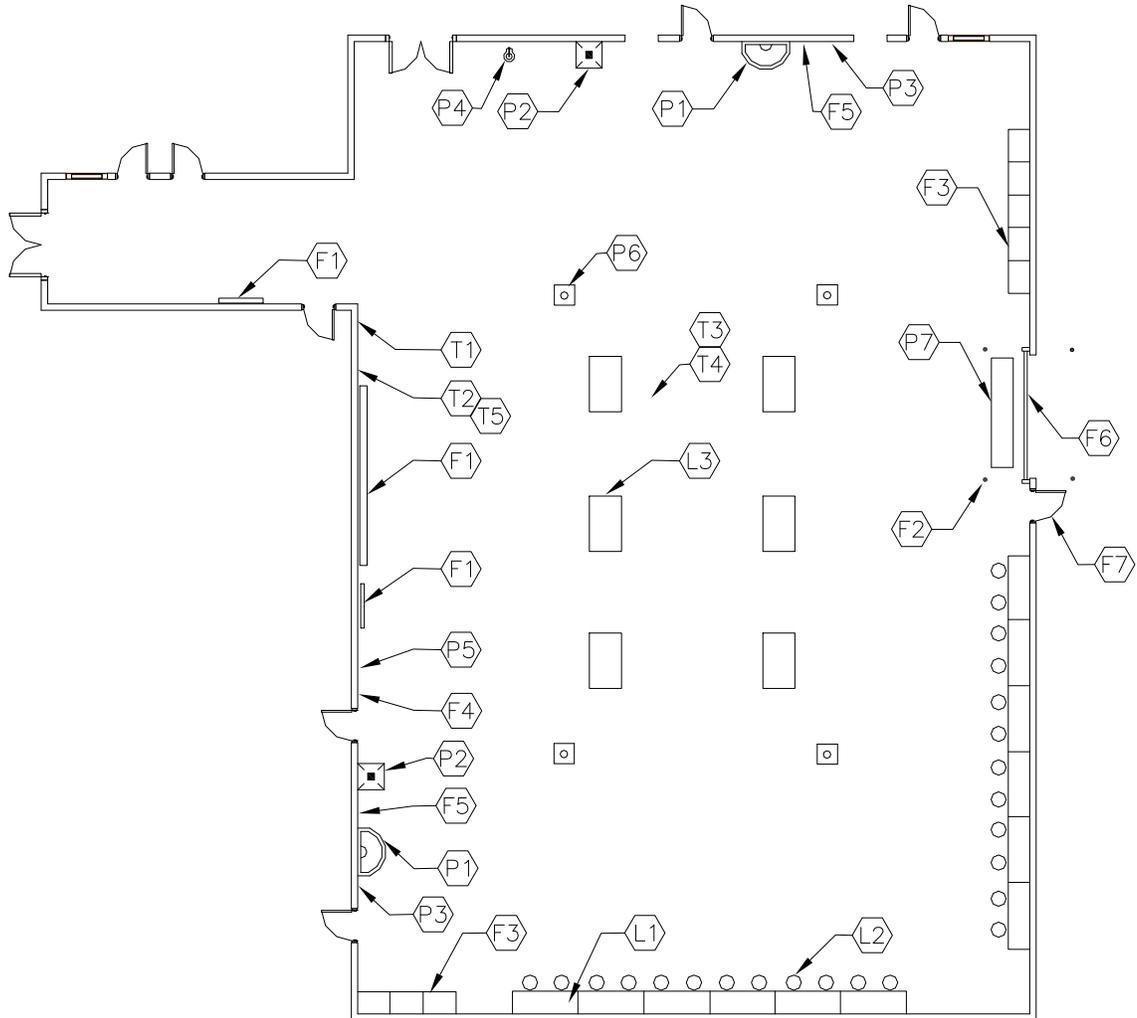


**Program Type 6**

This is an example to show the possible relationships of spaces for this program type.

**NOTES:**

1. See lab descriptions within this section for specific lab requirements.
2. See individual space plates at the end of this section for specific requirements.



CAPACITY:	24 Students
SIZE:	1,500 – 6,000 SF
	(see lab summaries for exact sizes)
ANCILLARY SPACES:	CT-P6-2 thru CT-P6-8

**NOTES:**

1. Loose furnishings shown represent one of many possible arrangements.
2. Graphic plate is an example only. Other labs within this program are not drawn – refer to lab summaries within this program type for information on a particular lab.

**LAB**  
**CT-P6-1**

CHAPTER 6: CAREER-TECHNICAL SCHOOL

PROGRAM ACTIVITIES:

- Large and small group instruction
- Group and individual work
- Demonstrations

SPATIAL RELATIONSHIPS:

- Near other related labs
- Adjacent to typical support spaces
- Proximity to large group restrooms
- Located away from noisy or public activities
- Proximity to core academic area and common use areas
- 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. Finishes/Features: Refer to Chapter 9 for specification references.
2. Loose Furnishings: Refer to Lab Profiles within this section.
3. Loose Furnishings, fixed equipment, utility locations, and general footprint of room shown represent one of many possible arrangements.

**A1 / 01.0201 AGRICULTURAL AND INDUSTRIAL POWER TECHNOLOGY**

CHAPTER 6: CAREER-TECHNICAL SCHOOL

**CT-P6-1**

<b>PROGRAM DESCRIPTION:</b>		<b>FEATURES<sup>1</sup>:</b>		Spec.
		<b>Fixed Items:</b>		<b>Ref.#</b>
Programs provide instruction in the operations or processes concerned with the selection, operation maintenance, and use of agricultural power, agricultural machinery and equipment, structures and utilities, soil and water management.		F1	24' of marker board, tack board, or tackable wall surface	101100
<b>Program Type:</b> 6		F2	Steel bollards at overhead door, both sides	055000
<b>Size Requirements:</b> 5,000 SF Lab		F3	24' of tall storage cabinets	123550
Lab Requirements:		F4	Pencil sharpener support (optional)	062000
		F5	(4) Paper towel dispensers	102813
		F6	12'x14' motorized overhead sectional door to exterior	083613
		F7	3'x7' hollow metal service door to exterior	081113
<b>FINISHES:</b>		<b>Fire Suppression:</b>		
<b>Flooring:</b>		Fire suppression system		
Sealed concrete	Spec. Ref #	211000		
	033000	<b>Plumbing:</b>		
<b>Ceiling:</b>		P1	2 washfountains (minimum)	224000
Painted, exposed structure	099100	P2	2 utility sinks (minimum)	224000
<b>Walls:</b>		P3	2 hose bibbs (minimum)	224000
Painted concrete masonry units	042000/ 099100	P4	Safety shower/eyewash	224000
		P5	6 compressed air connections	221500
		P6	4 floor drains	224000
		P7	1 trench drain	224000
		Plumbing connections 221116/221119/224000		
<b>LOOSE FURNISHINGS:</b>		<b>HVAC:</b>		
L1	(12) Workbenches with heavy-duty metal tops	Supply/return air system		
L2	(24) Stools or chairs	Independent temperature control		
L3	(6) Welding tables	Welding hood and exhaust		
	Wastebasket	Vehicle exhaust system		
		Div. 23 230923 Div. 23 Div. 23		
<b>Electronic Safety and Security:</b>		<b>Electrical:</b>		
	Life safety devices per code	High intensity lighting or fluorescent lighting		
	283111	Illumination level: See Table 8600-5		
<b>Miscellaneous:</b>		Multilevel switching		
	Pencil sharpener (optional)	30 duplex receptacles (minimum)		
E1	Duplex receptacle with dedicated circuit for wireless devices	Double duplex receptacle adjacent to each data and video port		
		(6) 220 volt receptacles		
		262726 262726 262726		
<b>Communications (cont'd):</b>		<b>Communications:</b>		
	Clock	T1		
	275313	1 projector video port and video display device		
	Central sound system	271543/274119		
T4	Wireless access point (WAP) as determined by Design – refer to Note 2	T2		
	272133	1 voice port and phone		
		271513/273123		
T5	Classroom technology center video port	T3		
	271543, 274116, 274119, 275127	Wireless access point cable above ceiling		
		271513		

**NOTES:**

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

**A1 / 01.0201 AGRICULTURAL AND INDUSTRIAL POWER TECHNOLOGY****Engine Storage**

CHAPTER 6: CAREER-TECHNICAL SCHOOL

		Spec. Ref.#	
<b>Program Type:</b>	6		
<b>Size Requirements:</b>	1,000 SF		
<b>Requirements:</b>			
<u>FINISHES:</u>	Spec. Ref #		
Flooring:			
Sealed concrete	033000		
Ceiling:			
Suspended, acoustical	095113		
Option: painted, exposed structure	099100		
Walls:			
Painted concrete masonry units	042000/ 099100		
<u>LOOSE FURNISHINGS:</u>			
N/A			
<u>ENVIRONMENTAL CONSIDERATIONS:</u>			
▪ Wall only minimum STC 45			
▪ This room to be one-story (14'+/-) tall, located within high-bay program.			
		<u>FEATURES<sup>1</sup>:</u>	
		<u>Fixed Items:</u>	
		Pair of doors	081113
		<u>Fire Suppression:</u>	
		Fire suppression system	211000
		<u>Plumbing:</u>	
		N/A	
		<u>HVAC:</u>	
		Supplemental heat as required	Div. 23
		<u>Electrical:</u>	
		Fluorescent lighting	265100
		Illumination level: See Table 8600-5	
		Single level switching	262726
		4 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.

**A1 / 01.0201 AGRICULTURAL AND INDUSTRIAL POWER TECHNOLOGY**

CHAPTER 6: CAREER-TECHNICAL SCHOOL

**Flammable Material Storage**

<b>Program Type:</b> 6			<b>FEATURES<sup>1</sup>:</b>	Spec.
<b>Size Requirements:</b> 200 SF			<b>Fixed Items:</b>	<u>Ref.#</u>
			N/A	
<b>Requirements:</b>			<b>Fire Suppression:</b>	
			Fire suppression system	211000
	Spec.			
<b>FINISHES:</b>	<u>Ref #</u>		<b>Plumbing:</b>	
Flooring:			N/A	
Sealed concrete	033000			
Ceiling:			<b>HVAC:</b>	
Fire-rated gypsum wallboard	092113		Supplemental heat as required	Div. 23
			Independent ventilation	Div. 23
Walls:			<b>Electrical:</b>	
Painted concrete masonry units	042000/ 099100		Fluorescent lighting	265100
			Illumination level: See Table 8600-5	
			Single level switching	262726
			2 duplex receptacles	262726
<b>LOOSE FURNISHINGS:</b>			<b>Communications:</b>	
N/A			Central sound system	275123
<b>ENVIRONMENTAL CONSIDERATIONS:</b>			<b>Electronic Safety and Security:</b>	
▪ Wall minimum STC 45			Life safety devices per code	283111
▪ This room to be one-story (14'+/-) tall, located within high-bay program.			<b>Miscellaneous:</b>	
			N/A	

**NOTES:**

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

**T1 / 17.0301 AUTO COLLISION REPAIR  
CT-P6-1**

## CHAPTER 6: CAREER-TECHNICAL SCHOOL

<u>PROGRAM DESCRIPTION:</u>	<u>FEATURES<sup>1</sup>:</u>	Spec. Ref.#
Specialized learning experiences concerned with all phases of the repair of damaged vehicle bodies and frames. Areas of instruction may include: Painting and Refinishing, Mechanical/Electrical Repair, Structural and Non-Structural Repair.	<u>Fixed Items:</u>	
	24' of marker board, tack board, or tackable wall surface	101100
	24' of tall storage cabinets	123550
	Pencil sharpener support (optional)	062000
	(4) Paper towel dispensers	102813
	12'x14' motorized overhead sectional door to exterior	083613
	3'x7' hollow metal service door to exterior	081113
	Steel bollards at overhead door, both sides	055000
	<u>Fire Suppression:</u>	
	Fire suppression system	211000
	<u>Plumbing:</u>	
	2 washfountains (minimum)	224000
	2 utility sinks (minimum)	224000
	2 hose bibbs (minimum)	224000
	Safety shower/eyewash	224000
	8 compressed air connections	221500
	4 floor drains	224000
	1 trench drain	224000
	Plumbing connections	221116/221119/224000
	<u>HVAC:</u>	
	Supply/return air system	Div. 23
	Independent temperature control	230923
	<u>Electrical:</u>	
	High intensity lighting or fluorescent lighting	265100
	Illumination level: See Table 8600-5	
	Multilevel switching	262726
	30 duplex receptacles (minimum)	262726
	Double duplex receptacle adjacent to each data and video port	262726
	(4) 220 volt receptacles	262726
	<u>Communications:</u>	
	1 <b>projector</b> video port and video display device	271543/274119
	1 voice port and phone	271513/273123
	<b>Wireless access point cable above ceiling</b>	271513
	Clock	275313
	Central sound system	275123
<u>PROGRAM DESCRIPTION:</u>		
Program Type: 6		
Size Requirements: 5,000 SF Lab		
Lab Requirements:		
	Spec. Ref #	
<u>FINISHES:</u>		
Flooring:		
Sealed concrete		033000
Ceiling:		
Painted, exposed structure		099100
Walls:		
Painted concrete masonry units		042000/ 099100
<u>LOOSE FURNISHINGS:</u>		
(6) Workbenches with heavy-duty metal tops		
(24) Stools or chairs		
Wastebasket		
<u>Electronic Safety and Security:</u>		
Life safety devices per code		283111
<u>Miscellaneous:</u>		
Pencil sharpener (optional)		
<b>Duplex receptacle with dedicated circuit for wireless devices</b>		
<u>Communications (cont'd):</u>		
<b>Wireless access point (WAP) as determined by Design – refer to Note 2</b>		<b>272133</b>
<b>Classroom technology center video port</b>		<b>271543, 274116, 274119, 275127</b>
<u>The following items are to be funded by the School District:</u>		
Car lifts		
Frame racks		

NOTES:

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

**T1 / 17.0301 AUTO COLLISION REPAIR  
Auto Parts Storage**

CHAPTER 6: CAREER-TECHNICAL SCHOOL

<b>Program Type:</b> 6		<b>FEATURES<sup>1</sup>:</b>	Spec. Ref.#
<b>Size Requirements:</b> 300 SF		<b>Fixed Items:</b> 30' of heavy duty adjustable steel shelving	105613
<b>Requirements:</b>		<b>Fire Suppression:</b> Fire suppression system	211000
<b>FINISHES:</b>		<b>Plumbing:</b> N/A	
Flooring:	Sealed concrete	Spec. Ref #	033000
Ceiling:	Suspended, acoustical		095113
Walls:	Painted concrete masonry units		042000/ 099100
<b>LOOSE FURNISHINGS:</b> N/A		<b>HVAC:</b> Supplemental heat as required	Div. 23
<b>ENVIRONMENTAL CONSIDERATIONS:</b>		<b>Electrical:</b> Fluorescent lighting Illumination level: See Table 8600-5 Single level switching 4 duplex receptacles	265100 262726 262726
<ul style="list-style-type: none"> <li>▪ Wall minimum STC 45</li> <li>▪ This room to be one-story (14'+/-) tall, located within high-bay program.</li> </ul>		<b>Communications:</b> Central sound system	275123
		<b>Electronic Safety and Security:</b> Life safety devices per code	283111
		<b>Miscellaneous:</b> N/A	

**NOTES:**

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

**T3 / 17.0302 AUTO TECHNOLOGY  
CT-P6-1**

CHAPTER 6: CAREER-TECHNICAL SCHOOL

<p><b><u>PROGRAM DESCRIPTION:</u></b> Learning experiences involving the service and repair of the mechanical components of the vehicle. The focus of the program will be in the ASE areas of Electrical/Electronic Systems, and Suspension and Steering, Brakes and Engine Performance.</p> <p><b>Program Type:</b> 6 <b>Size Requirements:</b> 5,000 SF Lab Lab Requirements:</p> <p><b><u>FINISHES:</u></b></p> <p>Flooring: Sealed concrete Spec. Ref # 033000</p> <p>Ceiling: Painted, exposed structure 099100</p> <p>Walls: Painted concrete masonry units 042000/ 099100</p> <p><b><u>LOOSE FURNISHINGS:</u></b> (6) Workbenches with heavy-duty metal tops (24) Stools or chairs Wastebasket</p> <p><b><u>Electronic Safety and Security:</u></b> Life safety devices per code 283111</p> <p><b><u>Miscellaneous:</u></b> Pencil sharpener (optional)</p> <p><b><u>The following items are to be funded by the School District:</u></b> Car lifts Frame racks</p> <p><b><u>Communications (cont'd):</u></b> <b>Wireless access point (WAP) as determined by Design – refer to Note 2</b> <b>272133</b> <b>Classroom technology center video port</b> <b>271543, 274116, 274119, 275127</b></p>	<p style="text-align: right;">Spec. Ref.#</p> <p><b><u>FEATURES<sup>1</sup>:</u></b> <b><u>Fixed Items:</u></b> 24' of marker board, tack board, or tackable wall surface 101100 24' of tall storage cabinets 123550 Pencil sharpener support (optional) 062000 (4) Paper towel dispensers 102813 12'x14' motorized overhead sectional door to exterior 083613 3'x7' hollow metal service door to exterior 081113 Steel bollards at overhead door, both sides 055000</p> <p><b><u>Fire Suppression:</u></b> Fire suppression system 211000</p> <p><b><u>Plumbing:</u></b> 2 washfountains (minimum) 224000 2 utility sinks (minimum) 224000 2 hose bibbs (minimum) 224000 Safety shower/eyewash 224000 8 compressed air connections 221500 4 floor drains 224000 1 trench drain 224000 Plumbing connections 221116/221119/224000</p> <p><b><u>HVAC:</u></b> Supply/return air system Div. 23 Independent temperature control 230923 Vehicle exhaust system Div. 23</p> <p><b><u>Electrical:</u></b> High intensity lighting or fluorescent lighting 265100 Illumination level: See Table 8600-5 Multilevel switching 262726 30 duplex receptacles (minimum) 262726 Double duplex receptacle adjacent to each data and video port 262726 (6) 220 volt receptacles 262726</p> <p><b><u>Communications:</u></b> 1 <b>projector</b> video port and video display device 271543/274119 1 voice port and phone 271513/273123 <b>Wireless access point cable above ceiling</b> 271513 Clock 275313 Central sound system 275123</p>
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**NOTES:**

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

**T3 / 17.0302 AUTO TECHNOLOGY  
Engine Storage**

CHAPTER 6: CAREER-TECHNICAL SCHOOL

<p><b>Program Type:</b> 6</p> <p><b>Size Requirements:</b> 800 SF</p> <p>Requirements:</p> <p><u>FINISHES:</u> Flooring: Sealed concrete</p> <p>Ceiling: Suspended, acoustical Option: painted, exposed structure</p> <p>Walls: Painted concrete masonry units</p> <p><u>LOOSE FURNISHINGS:</u> N/A</p> <p><u>ENVIRONMENTAL CONSIDERATIONS:</u></p> <ul style="list-style-type: none"> <li>▪ Wall minimum STC 45</li> <li>▪ This room to be one-story (14'+/-) tall, located within high-bay program.</li> </ul>	<p style="text-align: right;">Spec. Ref.#</p> <p><u>FEATURES<sup>1</sup>:</u> <u>Fixed Items:</u> Pair of doors</p> <p><u>Fire Suppression:</u> Fire suppression system</p> <p><u>Plumbing:</u> N/A</p> <p><u>HVAC:</u> Supplemental heat as required Independent ventilation</p> <p><u>Electrical:</u> Fluorescent lighting Illumination level: See Table 8600-5 Single level switching 4 duplex receptacles</p> <p><u>Communications:</u> Central sound system</p> <p><u>Electronic Safety and Security:</u> Life safety devices per code</p> <p><u>Miscellaneous:</u> N/A</p>
	<p>811113</p> <p>211000</p> <p>033000</p> <p>095113 099100</p> <p>042000/ 099100</p> <p>265100 262726 262726</p> <p>275123</p> <p>283111</p>

NOTES:

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

**T3 / 17.0302 AUTO TECHNOLOGY  
Machine Room**
**CHAPTER 6: CAREER-TECHNICAL SCHOOL**

		Spec. Ref.#
<b>Program Type:</b>	6	
<b>Size Requirements:</b>	900 SF	
<b>Requirements:</b>		
<u>FINISHES:</u>	Spec. Ref #	
Flooring:		
Sealed concrete	033000	
Ceiling:		
Suspended, acoustical	095113	
Option: painted, exposed structure	099100	
Walls:		
Painted concrete masonry units	042000/ 099100	
<u>LOOSE FURNISHINGS:</u>		
(4) Work tables		
Wastebasket		
<u>ENVIRONMENTAL CONSIDERATIONS:</u>		
▪ Wall only minimum STC 45		
▪ This room to be one-story (14'+/-) tall, located within high-bay program.		
		<u>FEATURES<sup>1</sup>:</u>
		<u>Fixed Items:</u>
		16' of tall cabinets 123550
		Paper towel dispenser 102813
		<u>Fire Suppression:</u>
		Fire suppression system 211000
		<u>Plumbing:</u>
		Utility sink 224000
		Plumbing connections 221116/221119/224000
		<u>HVAC:</u>
		Supplemental heat as required Div. 23
		Independent ventilation Div. 23
		<u>Electrical:</u>
		Fluorescent lighting 265100
		Illumination level: See Table 8600-5
		Single level switching 262726
		4 duplex receptacles 262726
		220 v service 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.

**T3 / 17.0302 AUTO TECHNOLOGY  
Flammable Material Storage**

CHAPTER 6: CAREER-TECHNICAL SCHOOL

<b>Program Type:</b> 6		<b>FEATURES<sup>1</sup>:</b>	Spec. Ref.#
<b>Size Requirements:</b> 60 SF		<b>Fixed Items:</b> 3' of heavy duty adjustable steel shelving	105613
<b>Requirements:</b>		<b>Fire Suppression:</b> Fire suppression system	211000
<b>FINISHES:</b>		<b>Plumbing:</b> N/A	
Flooring:	Sealed concrete	Spec. Ref #	033000
Ceiling:	Fire-rated gypsum drywall		092113
Walls:	Painted concrete masonry units		042000/ 099100
<b>LOOSE FURNISHINGS:</b> N/A		<b>HVAC:</b> Supplemental heat as required Independent ventilation	Div. 23 Div. 23
<b>ENVIRONMENTAL CONSIDERATIONS:</b>		<b>Electrical:</b> Fluorescent lighting Illumination level: See Table 8600-5 Single level switching 2 duplex receptacles	265100 262726 262726
<ul style="list-style-type: none"> <li>▪ Wall minimum STC 45</li> <li>▪ This room to be one-story (14'+/-) tall, located within high-bay program.</li> </ul>		<b>Communications:</b> Central sound system	275123
		<b>Electronic Safety and Security:</b> Life safety devices per code	283111
		<b>Miscellaneous:</b> N/A	

**NOTES:**

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

**D3 / 17.1001 CARPENTRY  
CT-P6-1**

CHAPTER 6: CAREER-TECHNICAL SCHOOL

<p><b><u>PROGRAM DESCRIPTION:</u></b> Classroom and laboratory experiences involving the layout, construction, and repair of residential and commercial structures. Included is instruction in the care and use of power tools, equipment, and materials used in the construction process; floor, wall, ceiling, and roof framing; the installation of insulation and roofing; and interior and exterior finish detail.</p> <p><b>Program Type:</b> 6 <b>Size Requirements:</b> 4,000 SF Lab Lab Requirements:</p> <p style="text-align: right;">Spec. <u>Ref #</u></p> <p><b><u>FINISHES:</u></b></p> <p>Flooring: Sealed concrete 033000</p> <p>Ceiling: Painted, exposed structure 099100</p> <p>Walls: Painted concrete masonry units 042000/ 099100</p> <p><b><u>LOOSE FURNISHINGS:</u></b> (12) Workbenches with heavy-duty wooden tops (24) Stools or chairs Wastebasket</p> <p><b><u>Miscellaneous:</u></b> Pencil sharpener (optional) <b><i>Duplex receptacle with dedicated circuit for wireless devices</i></b></p> <p><b><u>Electronic Safety and Security:</u></b> Life safety devices per code 283111</p> <p><b><u>Communications(cont'd):</u></b> <b><i>Wireless access point (WAP) as determined by Design – refer to Note 2</i></b> <b><i>272133</i></b> <b><i>Classroom technology center video port</i></b> <b><i>271543, 274116, 274119, 275127</i></b></p>	<p><b><u>FEATURES<sup>1</sup>:</u></b> <b><u>Fixed Items:</u></b></p> <p>24' of marker board, tack board, or tackable wall surface 101100 24' of tall storage cabinets 123550 Pencil sharpener support (optional) 062000 (3) Paper towel dispensers 102813 12'x14' motorized overhead sectional door to exterior 083613 3'x7' hollow metal service door to exterior 081113 Steel bollards at overhead door, both sides 055000 (2) Lumber storage racks 061000</p> <p><b><u>Fire Suppression:</u></b> Fire suppression system 211000</p> <p><b><u>Plumbing:</u></b> 1 washfountain (minimum) 224000 2 utility sinks (minimum) 224000 2 hose bibbs (minimum) 224000 Safety shower/eyewash 224000 6 compressed air connections 221500 2 floor drains 224000 1 trench drain 224000 Plumbing connections 221116/221119/224000</p> <p><b><u>HVAC:</u></b> Supply/return air system Div. 23 Independent temperature control 230923 Dust collection system 233513</p> <p><b><u>Electrical:</u></b> High intensity lighting or fluorescent lighting 265100 Illumination level: See Table 8600-5 Multilevel switching 262726 30 duplex receptacles (minimum) 262726 Double duplex receptacle adjacent to each data and video port 262726 Room safety push-button 262726</p> <p><b><u>Communications:</u></b> 1 <b><i>projector</i></b> video port and video display device 271543/274119 1 voice port and phone 271513/273123 <b><i>Wireless access point cable above ceiling</i></b> 271513 Clock 275313 Central sound system 275123</p>
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**NOTES:**

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

**D3 / 17.1001 CARPENTRY**  
**Finishing Room**

CHAPTER 6: CAREER-TECHNICAL SCHOOL

<b>Program Type:</b> 6		<b>FEATURES<sup>1</sup>:</b>	Spec.
<b>Size Requirements:</b> 500 SF		<b>Fixed Items:</b>	<b>Ref.#</b>
		16' of pegboard	060565
		Pair of doors	081113
<b>Requirements:</b>		<b>Fire Suppression:</b>	
	Spec.	Fire suppression system	211000
	<b>Ref #</b>		
<b>FINISHES:</b>		<b>Plumbing:</b>	
Flooring:		N/A	
Sealed concrete	033000		
Ceiling:		<b>HVAC:</b>	
Suspended, acoustical	095113	Supplemental heat as required	Div. 23
		Independent ventilation	Div. 23
Walls:		<b>Electrical:</b>	
Painted concrete masonry units	042000/ 099100	Fluorescent lighting	265100
		Illumination level: See Table 8600-5	
		Single level switching	262726
		4 duplex receptacles	262726
<b>LOOSE FURNISHINGS:</b>		<b>Communications:</b>	
(2) Work tables		Central sound system	275123
		Clock	275313
<b>ENVIRONMENTAL CONSIDERATIONS:</b>		<b>Electronic Safety and Security:</b>	
▪ Wall only minimum STC 45		Life safety devices per code	283111
▪ This room to be one-story (14'+/-) tall, located within high-bay program.		<b>Miscellaneous:</b>	
		N/A	

**NOTES:**

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

**D3 / 17.1001 CARPENTRY****Material Storage**

## CHAPTER 6: CAREER-TECHNICAL SCHOOL

		Spec. Ref.#	
<b>Program Type:</b>	6		
<b>Size Requirements:</b>	800 SF		
<b>Requirements:</b>			
<u>FINISHES:</u>	Spec. Ref #		
Flooring:			
Sealed concrete	033000		
Ceiling:			
Suspended, acoustical	095113		
Walls:			
Painted concrete masonry units	042000/ 099100		
<u>LOOSE FURNISHINGS:</u>			
	N/A		
<u>ENVIRONMENTAL CONSIDERATIONS:</u>			
▪ Wall minimum STC 45			
▪ This room to be one-story (14'+/-) tall, located within high-bay program.			
		<b>FEATURES<sup>1</sup>:</b>	
		<u>Fixed Items:</u>	
		N/A	
		<u>Fire Suppression:</u>	
		Fire suppression system	211000
		<u>Plumbing:</u>	
		N/A	
		<u>HVAC:</u>	
		Supplemental heat as required	Div. 23
		<u>Electrical:</u>	
		Fluorescent lighting	265100
		Illumination level: See Table 8600-5	
		Single level switching	262726
		4 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.

**CONSTRUCTION (2 clusters)**  
**D4 / 17.1805 Design/Build - D5 / 17.1806 Management**

## CHAPTER 6: CAREER-TECHNICAL SCHOOL

**CT-P6-1**

<u>PROGRAM DESCRIPTION:</u>	Spec. Ref.#
<b>C-D/B:</b> Utilizes industry standards and a math, science, ELA, and technology framework to introduce concepts of designing, planning, managing, building and maintaining the built environment.	
<b>C-M:</b> Classroom and laboratory experiences combining advanced academics and the skills and knowledge essential to the construction industry. Focus is on supervision, planning, and management of the construction process. The program will follow the state TCP and culminate in an associate degree.	
<b>Program Type:</b> 6	
<b>Size Requirements:</b> 3,000 SF Lab	
<b>Lab Requirements:</b>	
Spec. <u>Ref #</u>	
<b>FINISHES:</b>	
Flooring:	
Sealed concrete	033000
Ceiling:	
Painted, exposed structure	099100
Walls:	
Painted concrete masonry units	042000/ 099100
<b>LOOSE FURNISHINGS:</b>	
(12) Workbenches with heavy-duty metal tops	
(24) Stools or chairs	
(2) Welding tables	
Wastebasket	
<b>Electronic Safety and Security:</b>	
Life safety devices per code	283111
<b>Miscellaneous:</b>	
Pencil sharpener (optional)	
<b>Duplex receptacle with dedicated circuit for wireless device</b>	
<b>Communications (cont'd):</b>	
<b>Wireless access point (WAP) as determined by Design – refer to Note 2</b>	<b>272133</b>
<b>Classroom technology center video port</b>	<b>271543, 274116, 274119, 275127</b>
<b>FEATURES<sup>1</sup>:</b>	
<b>Fixed Items:</b>	
24' of marker board, tack board, or tackable wall surface	101100
24' of tall storage cabinets	123550
Pencil sharpener support (optional)	062000
(3) Paper towel dispensers	102813
12'x14' motorized overhead sectional door to exterior	083613
3'x7' hollow metal service door to exterior	081113
Steel bollards at overhead door, both sides	055000
<b>Fire Suppression:</b>	
Fire suppression system	211000
<b>Plumbing:</b>	
1 washfountain (minimum)	224000
2 utility sinks (minimum)	224000
2 hose bibbs (minimum)	224000
Safety shower/eyewash	224000
6 compressed air connections	221500
2 floor drains	224000
1 trench drain	224000
Plumbing connections	221116/221119/224000
<b>HVAC:</b>	
Supply/return air system	Div. 23
Independent temperature control	230923
Welding hood and exhaust	233515
<b>Electrical:</b>	
High intensity lighting or fluorescent lighting	265100
Illumination level: See Table 8600-5	
Multilevel switching	262726
30 duplex receptacles (minimum)	262726
Double duplex receptacle adjacent to each data and video port	262726
480v 3-phase service	262726
<b>Communications:</b>	
1 <b>projector</b> video port and video display Device	271543/274119
1 voice port and phone	271513/273123
<b>Wireless access point cable above ceiling</b>	271513
Clock	275313
Central sound system	275123

**NOTES:**

1. Finishes/Features: Refer to Chapter 9 for specification references.
2. This lab may be air-conditioned.
3. **Baseline includes WAP cable per classroom. WAP device quantity / placement per 272133 requirements.**

**CONSTRUCTION (2clusters)**  
**D4 / 17.1805 Design/Build - D5 / 17.1806 Management**  
**CAD Room**

## CHAPTER 6: CAREER-TECHNICAL SCHOOL

		Spec. Ref.#
<b>Program Type:</b>	6	
<b>Size Requirements:</b>	400 SF	
<b>Requirements:</b>		
<b>FINISHES:</b>	Spec. Ref #	
Flooring:		
ET, rubber,	096500	
sheet vinyl, or linoleum	096516	
Base:		
Resilient	096500	
Ceiling:		
Suspended acoustical	095113	
Walls:		
Painted concrete masonry units	042000/ 099100	
<b>LOOSE FURNISHINGS:</b>		
(10) 2-person tables		
(20) Student chairs		
(1) Teacher station & chair		
Wastebasket		
<b>ENVIRONMENTAL CONSIDERATIONS:</b>		
▪ Wall only minimum STC 45		
▪ This room to be one-story (14'+/-) tall, located within high-bay program.		
		<b>FEATURES<sup>1</sup>:</b>
		<b>Fixed Items:</b>
		6' of marker board 101100
		8' of tall storage cabinets 123550
		Projection screen, 6'x8' 115213
		<b>Fire Suppression:</b>
		Fire suppression system 211000
		<b>Plumbing:</b>
		N/A
		<b>HVAC:</b>
		Supply/return air system Div. 23
		Independent temperature control 230923
		<b>Electrical:</b>
		Fluorescent lighting, parabolic lenses:265100
		Illumination level: See Table 8600-5
		Single level switching 262726
		4 duplex receptacles 262726
		Double duplex receptacle adjacent to each data port 262726
		<b>Communications:</b>
		1 <b>projector</b> video port 271543
		1 data port near teacher workstation 271513
		<b>Wireless access point cable above ceiling</b>
		271513
		Central sound system 275123
		<b>Ultra-short throw interactive projector</b>
		274119
		<b>Wireless access point (WAP) as determined by Design – refer to Note 2</b>
		<b>272133</b>
		<b>Classroom technology center video port</b>
		<b>271543, 274116, 274119, 275127</b>
		<b>Electronic Safety and Security:</b>
		Life safety devices per code 283111
		<b>Miscellaneous:</b>
		<b>Duplex receptacle with dedicated circuit for wireless devices</b>

**NOTES:**

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

**F3 / 17.1810 ENGINEERING TECHNOLOGIES**

## CHAPTER 6: CAREER-TECHNICAL SCHOOL

**CT-P6-1**

<u>PROGRAM DESCRIPTION:</u>	<u>FEATURES<sup>1</sup>:</u>	Spec. Ref.#
Combined with the first course in the pathway and utilizing business and industry technical standards and within a math, science, ELA, technology framework. Introduces concepts of engineering related to mechanical, electrical, and industrial engineering and leads to post-secondary education.	<u>Fixed Items:</u>	
<b>Program Type:</b> 6	24' of marker board, tack board, or tackable wall surface	101100
<b>Size Requirements:</b> 1,500 SF Lab	24' of tall storage cabinets	123550
<b>Lab Requirements:</b>	Pencil sharpener support (optional)	062000
	(3) Paper towel dispensers	102813
	12'x14' motorized overhead sectional door to exterior	083613
	3'x7' hollow metal service door to exterior	081113
	Steel bollards at overhead door, both sides	055000
Spec. Ref #	<u>Fire Suppression:</u>	
<u>FINISHES:</u>	Fire suppression system	211000
Flooring:	<u>Plumbing:</u>	
Sealed concrete	1 washfountain (minimum)	224000
	2 utility sinks (minimum)	224000
Ceiling:	2 hose bibbs (minimum)	224000
Painted, exposed structure	Safety shower/eyewash	224000
	6 compressed air connections	221500
Walls:	2 floor drains	224000
Painted concrete masonry units	1 trench drain	224000
	Plumbing connections	221116/221119/224000
<u>LOOSE FURNISHINGS:</u>	<u>HVAC:</u>	
(12) Workbenches with heavy-duty metal tops	Supply/return air system	Div. 23
(24) Stools or chairs	Independent temperature control	230923
(4) Welding tables	Welding hood and exhaust	233515
Wastebasket	<u>Electrical:</u>	
<u>Electronic Safety and Security:</u>	High intensity lighting or fluorescent lighting	265100
Life safety devices per code	Illumination level: See Table 8600-5	
	Multilevel switching	262726
<u>Miscellaneous:</u>	30 duplex receptacles (minimum)	262726
Pencil sharpener (optional)	Double duplex receptacle adjacent to each data and video port	262726
<b>Duplex receptacle with dedicated circuit for wireless devices</b>	(6) 220 volt receptacles	262726
<u>Communications (cont'd):</u>	<u>Communications:</u>	
<b>Wireless access point (WAP) as determined by Design – refer to Note 2</b>	1 <b>projector</b> video port and video display Device	271543/274119
<b>272133</b>	1 voice port and phone	271513/273123
<b>Classroom technology center video port</b>	<b>Wireless access point cable above ceiling</b>	271513
<b>271543, 274116, 274119, 275127</b>	Clock	275313
	Central sound system	275123

NOTES:

1. Finishes/Features: Refer to Chapter 9 for specification references.
2. This program has the option of being located in high bay or low bay (Type 3) space with associated features adjusted for the needs of the space, building type, and curriculum with OSFC approval.
3. This lab may be air-conditioned.
4. **Baseline includes WAP cable per classroom. WAP device quantity / placement per 272133 requirements.**

**F3 / 17.1810 ENGINEERING TECHNOLOGIES  
CAD Room**

## CHAPTER 6: CAREER-TECHNICAL SCHOOL

		Spec. Ref.#
<b>Program Type:</b>	6	
<b>Size Requirements:</b>	400 SF	
<b>Requirements:</b>		
<b><u>FINISHES:</u></b>	<b>Spec. Ref #</b>	<b><u>FEATURES</u><sup>1</sup>:</b>
Flooring:		<b><u>Fixed Items:</u></b>
ET, rubber,	096500	6' of marker board
sheet vinyl, or linoleum	096516	8' of tall storage cabinets
		Projection screen, 6'x8'
Base:		<b><u>Fire Suppression:</u></b>
Resilient	096500	Fire suppression system
Ceiling:		<b><u>Plumbing:</u></b>
Suspended acoustical	095113	N/A
Walls:		<b><u>HVAC:</u></b>
Painted concrete masonry units	042000/ 099100	Supply/return air system
		Independent temperature control
<b><u>LOOSE FURNISHINGS:</u></b>		<b><u>Electrical:</u></b>
(10) 2-person tables		Fluorescent lighting, parabolic lenses:265100
(20) Student chairs		Illumination level: See Table 8600-5
(1) Teacher station & chair		Single level switching
Wastebasket		4 duplex receptacles
		Double duplex receptacle adjacent to each data port
<b><u>ENVIRONMENTAL CONSIDERATIONS:</u></b>		<b><u>Communications:</u></b>
▪ Wall only minimum STC 45		1 data port near teacher workstation
▪ This room to be one-story (14'+/-) tall, located within high-bay program.		<b><i>Wireless access point cable above ceiling</i></b>
<b><u>Miscellaneous:</u></b>		
<b><i>Duplex receptacle with dedicated circuit for wireless devices</i></b>		
		<b><i>Wireless access point (WAP) as determined by Design – refer to Note 2</i></b>
		<b><i>Classroom technology center video port</i></b>
		<b><i>271543, 274116, 274119, 275127</i></b>
		<b><u>Electronic Safety and Security:</u></b>
		Life safety devices per code

**NOTES:**

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

**A4 / 01.1001 FOOD SCIENCE AND TECHNOLOGY**

CHAPTER 6: CAREER-TECHNICAL SCHOOL

**CT-P6-1**

<b>PROGRAM DESCRIPTION:</b>		<b>Spec. Ref.#</b>
Applies principles of biology, chemistry, and physics to the research and development, production, processing, and distribution of food products meeting quality assurance standards in a system that is safe and secure.		
<b>Program Type:</b>	6	
<b>Size Requirements:</b>	2,000 SF Lab	
<b>Lab Requirements:</b>		
<b>FINISHES:</b>	<b>Spec. Ref #</b>	
<b>Flooring:</b>		
Sealed concrete	033000	
Option: Epoxy, resinous flooring	096723	
<b>Ceiling:</b>		
Painted, exposed structure	099100	
<b>Walls:</b>		
Painted concrete masonry units	042000/ 099100	
Option: Fiberglass reinforced plastic panels		
<b>LOOSE FURNISHINGS:</b>		
(8) Workbenches with heavy-duty stainless steel tops		
(24) Stools or chairs (stainless steel)		
Wastebasket		
<b>Electronic Safety and Security:</b>		
Life safety devices per code	283111	
<b>Miscellaneous:</b>		
Pencil sharpener (optional)		
<b>Communications (cont'd):</b>		
<b>Duplex receptacle with dedicated circuit for wireless devices</b>		
<b>Wireless access point (WAP) as determined by Design – refer to Note 2</b>	<b>272133</b>	
<b>Classroom technology center video port</b>	<b>271543, 274116, 274119, 275127</b>	
<b>FEATURES<sup>1</sup>:</b>		
<b>Fixed Items:</b>		
24' of marker board, tack board, or tackable wall surface	101100	
Pencil sharpener support (optional)	062000	
(3) Paper towel dispensers	102813	
12'x14' motorized overhead sectional door to exterior	083613	
3'x7' hollow metal service door to exterior	081113	
Steel bollards at overhead door, both sides	055000	
Overhead hoist system between lab, freezer, and cooler	412223	
<b>Fire Suppression:</b>		
Fire suppression system	211000	
<b>Plumbing:</b>		
1 washfountain (minimum)	224000	
2 utility sinks (minimum)	224000	
2 hose bibbs (minimum)	224000	
Safety shower/eyewash	224000	
2 floor drains	224000	
1 trench drain	224000	
Plumbing connections	221116/221119/224000	
<b>HVAC:</b>		
Supply/return air system	Div. 23	
Independent temperature control	230923	
<b>Electrical:</b>		
High intensity lighting or fluorescent lighting	265100	
Illumination level: See Table 8600-5		
Multilevel switching	262726	
20 duplex receptacles (minimum)	262726	
Double duplex receptacle adjacent to each data and video port	262726	
(2) 220 volt receptacles	262726	
<b>Communications:</b>		
1 <b>projector</b> video port and video display device	271543/274119	
1 voice port and phone	271513/273123	
<b>Wireless access point cable above ceiling</b>	<b>271513</b>	
Clock	275313	
Central sound system	275123	

**NOTES:**

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

**A4 / 01.1001 FOOD SCIENCE AND TECHNOLOGY**

**Freezer**

CHAPTER 6: CAREER-TECHNICAL SCHOOL

<p><b>Program Type:</b> 6</p> <p><b>Size Requirements:</b> 400 SF</p> <p><b>Requirements:</b></p> <p><u>FINISHES:</u>                  Flooring:                  Quarry tile</p> <p>Ceiling:                  Quarry tile base</p> <p>Walls:                  Manufactured insulated panel</p> <p><u>LOOSE FURNISHINGS:</u>                  N/A</p> <p><u>ENVIRONMENTAL CONSIDERATIONS:</u></p> <ul style="list-style-type: none"> <li>▪ Ventilation for refrigeration machinery</li> <li>▪ Cleanable building surfaces</li> <li>▪ Floor to be flush with adjacent kitchen floor</li> </ul>	<p style="text-align: right;">Spec. Ref.#</p> <p><u>FEATURES<sup>1</sup>:</u>  <u>Fixed Items:</u>                  Overhead hoist system</p> <p><u>Fire Suppression:</u>                  Fire suppression system</p> <p><u>Plumbing:</u>                  N/A</p> <p><u>HVAC:</u>                  Exhaust air system for compressors Div. 23</p> <p><u>Electrical:</u>                  Incandescent lighting                  Illumination level: See Table 8600-5                  Single level switching                  Electrical connections to freezer                  Refrigeration equipment</p> <p><u>Communications:</u>                  N/A</p> <p><u>Electronic Safety and Security:</u>                  N/A</p> <p><u>Miscellaneous:</u>                  N/A</p>
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NOTES:

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

**A4 / 01.1001 FOOD SCIENCE AND TECHNOLOGY**

CHAPTER 6: CAREER-TECHNICAL SCHOOL

**Cooler**

<p><b>Program Type:</b> 6</p> <p><b>Size Requirements:</b> 400 SF</p> <p><b>Requirements:</b></p> <p><u>FINISHES:</u>                  Flooring:                  Quarry tile</p> <p>Ceiling:                  Quarry tile base</p> <p>Walls:                  Manufactured insulated panel</p> <p><u>LOOSE FURNISHINGS:</u>                  N/A</p> <p><u>ENVIRONMENTAL CONSIDERATIONS:</u></p> <ul style="list-style-type: none"> <li>▪ Ventilation for refrigeration machinery</li> <li>▪ Cleanable building surfaces</li> <li>▪ Floor to be flush with adjacent kitchen floor</li> </ul>	<p>Spec. <u>Ref.#</u></p> <p>093000</p> <p>093000</p> <p>114000</p>	<p><u>FEATURES</u><sup>1</sup>:</p> <p><u>Fixed Items:</u>                  Overhead hoist system</p> <p><u>Fire Suppression:</u>                  Fire suppression system</p> <p><u>Plumbing:</u>                  N/A</p> <p><u>HVAC:</u>                  Exhaust air system for compressors Div. 23</p> <p><u>Electrical:</u>                  Incandescent lighting                  Illumination level: See Table 8600-5                  Single level switching                  Electrical connections to cooler                  refrigeration equipment</p> <p><u>Communications:</u>                  N/A</p> <p><u>Electronic Safety and Security:</u>                  N/A</p> <p><u>Miscellaneous:</u>                  N/A</p>	<p>412223</p> <p>211000</p> <p>265100</p> <p>262726</p> <p>262726</p>
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NOTES:

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



**A5 / 01.0601 HORTICULTURE  
CT-P6-1**

## CHAPTER 6: CAREER-TECHNICAL SCHOOL

<u>PROGRAM DESCRIPTION:</u>	<u>FEATURES<sup>1</sup>:</u>	Spec. Ref.#
Applies principles of plant anatomy, nutrition, reproduction, genetics, health and artistic design to production, management, processing, and marketing of ornamental plants, landscapes, and floral designs. Communications, business principles and leadership skill development are essential to the program.	<u>Fixed Items:</u>	
	24' of marker board, tack board, or tackable wall surface	101100
	24' of tall storage cabinets	123550
	Pencil sharpener support (optional)	062000
	(3) Paper towel dispensers	102813
	12'x14' motorized overhead sectional door to exterior	083613
	3'x7' hollow metal service door to exterior	081113
	Steel bollards at overhead door, both sides	055000
	<u>Fire Suppression:</u>	
	Fire suppression system	211000
	<u>Plumbing:</u>	
	1 washfountain (minimum)	224000
	2 utility sinks (minimum)	224000
	2 hose bibbs (minimum)	224000
	Safety shower/eyewash	224000
	2 floor drains	224000
	1 trench drain	224000
	Plumbing connections	221116/221119/224000
	<u>HVAC:</u>	
	Supply/return air system	Div. 23
	Independent temperature control	230923
	<u>Electrical:</u>	
	High intensity lighting or fluorescent lighting	265100
	Illumination level: See Table 8600-5	
	Multilevel switching	262726
	30 duplex receptacles (minimum)	262726
	Double duplex receptacle adjacent to each data and video port	262726
	<u>Communications:</u>	
	1 <b>projector</b> video port and video display device	271543/274119
	1 voice port and phone	271513/273123
	<b>Wireless access point cable above ceiling</b>	271523
	Clock	275313
	Central sound system	275123
	<b>Wireless access point (WAP) as determined by Design – refer to Note 2</b>	<b>272133</b>
	<b>Classroom technology center video port</b>	<b>271543, 274116, 274119, 275127</b>
<u>PROGRAM DESCRIPTION:</u>		
Applies principles of plant anatomy, nutrition, reproduction, genetics, health and artistic design to production, management, processing, and marketing of ornamental plants, landscapes, and floral designs. Communications, business principles and leadership skill development are essential to the program.		
<b>Program Type:</b> 6		
<b>Size Requirements:</b> 2,000 SF Lab		
Lab Requirements:		
	Spec. Ref #	
<u>FINISHES:</u>		
Flooring:		
Sealed concrete		033000
Ceiling:		
Painted, exposed structure		099100
Walls:		
Painted concrete masonry units		042000/ 099100
<u>LOOSE FURNISHINGS:</u>		
(12) Workbenches with heavy-duty metal tops		
(24) Stools or chairs		
Wastebasket		
<u>SITE FEATURES:</u>		
Greenhouse – 3,000 SF		133413
½ earth flooring, ½ concrete flooring (w/drains)		
Minimum of one 8'x10' overhead door		
Provide electrical, plumbing, and heating/ventilation systems as per greenhouse manufacturer's recommendations		
Minimum of 4 hose bibs		
Fire suppression system if required		
<u>Electronic Safety and Security:</u>		
Life safety devices per code		283111
<u>Miscellaneous:</u>		
Pencil sharpener (optional)		
<b>Duplex receptacle with dedicated circuit for wireless devices</b>		

NOTES:

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

**A5 / 01.0601 HORTICULTURE  
Retail**

CHAPTER 6: CAREER-TECHNICAL SCHOOL

		Spec. Ref.#
<b>Program Type:</b>	6	
<b>Size Requirements:</b>	400 SF	
<b>Requirements:</b>		
<u>FINISHES:</u>		
<u>Flooring:</u>		
ET, sheet vinyl, or linoleum	Spec. Ref # 096500 096516	
<u>Base:</u>		
Resilient	096500	
<u>Ceiling:</u>		
Suspended, acoustical	095113	
<u>Walls:</u>		
Painted concrete masonry units	042000/ 099100	
<u>LOOSE FURNISHINGS:</u>		
Wastebasket		
<u>ENVIRONMENTAL CONSIDERATIONS:</u>		
<ul style="list-style-type: none"> <li>▪ Wall minimum STC 40</li> <li>▪ Ceiling minimum CAC 35</li> <li>▪ This room to be one-story (14'+/-) tall, located within high-bay program.</li> </ul>		
		<u>FEATURES<sup>1</sup>:</u>
		<u>Fixed Items:</u>
		10' of base cabinets 123550
		4' of cashier's station 123550
		Paper towel dispenser 102813
		<u>Fire Suppression:</u>
		Fire suppression system 211000
		<u>Plumbing:</u>
		1 utility sink 224000
		Plumbing connections 221116/221119/224000
		<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
		Single level switching 262726
		4 duplex receptacles 262726
		Double duplex receptacle adjacent to each data port 262726
		<u>Communications:</u>
		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.

**T7 / 17.1200 MEDIUM/HEAVY TRUCK TECHNICIAN**

CHAPTER 6: CAREER-TECHNICAL SCHOOL

**CT-P6-1**

<b><u>PROGRAM DESCRIPTION:</u></b>	<b><u>FEATURES<sup>1</sup>:</u></b>	Spec.
This program focuses on the service and repair of trucks. Instruction includes the diagnosis, maintenance, and repair of diesel engines operational systems. ASE areas of concentration are: Diesel Engines, Suspension and Steering, Brakes, Electrical/Electronic Systems and Preventative Maintenance Inspection.	<b><u>Fixed Items:</u></b>	<b><u>Ref.#</u></b>
<b>Program Type:</b> 6 <b>Size Requirements:</b> 6,000 SF Lab <b>Lab Requirements:</b>	24' of marker board, tack board, or tackable wall surface 101100 24' of tall storage cabinets 123550 Pencil sharpener support (optional) 062000 (4) Paper towel dispensers 102813 12'x14' motorized overhead sectional door to exterior 083613 3'x7' hollow metal service door to exterior 081113 Steel bollards at overhead door, both sides 055000	
<b><u>FINISHES:</u></b> Flooring: Sealed concrete 033000 Ceiling: Painted, exposed structure 099100 Walls: Painted concrete masonry units 042000/ 099100	<b><u>Fire Suppression:</u></b> Fire suppression system 211000	Spec. <b><u>Ref #</u></b>
<b><u>LOOSE FURNISHINGS:</u></b> (8) Workbenches with heavy-duty metal tops (24) Stools or chairs Wastebasket	<b><u>Plumbing:</u></b> 2 washfountains (minimum) 224000 2 utility sinks (minimum) 224000 2 hose bibbs (minimum) 224000 Safety shower/eyewash 224000 8 compressed air connections 221500 4 floor drains 224000 1 trench drain 224000 Plumbing connections 221116/221119/224000	
<b><u>Miscellaneous:</u></b> Pencil sharpener (optional) <b><i>Duplex receptacle with dedicated circuit for wireless devices</i></b>	<b><u>HVAC:</u></b> Supply/return air system Div. 23 Independent temperature control 230923 Vehicle exhaust system Div. 23	
<b><u>The following items are to be funded by the School District:</u></b>	<b><u>Electrical:</u></b> High intensity lighting or fluorescent lighting 265100 Illumination level: See Table 8600-5 Multilevel switching 262726 30 duplex receptacles (minimum) 262726 Double duplex receptacle adjacent to each data and video port 262726 (6) 220 volt receptacles 262726	
<b><u>Electronic Safety and Security:</u></b> Life safety devices per code 283111	<b><u>Communications:</u></b> 1 <b>projector</b> video port and video display device 271543/274119 1 voice port and phone 271513/273123 <b><i>Wireless access point cable above ceiling</i></b> 271513 Clock 275313 Central sound system 275123	
<b><u>Communications(cont'd):</u></b> <b><i>Wireless access point (WAP) as determined by Design – refer to Note 2</i></b> <b>272133</b> <b><i>Classroom technology center video port</i></b> <b>271543, 274116, 274119, 275127</b>		

**NOTES:**

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

**T7/17.1200 MEDIUM/HEAVY TRUCK TECHNICIAN  
Engine Storage**

CHAPTER 6: CAREER-TECHNICAL SCHOOL

<p><b>Program Type:</b> 6</p> <p><b>Size Requirements:</b> 800 SF</p> <p><b>Requirements:</b></p> <p><u>FINISHES:</u>                  Flooring: Sealed concrete                  Ceiling: Suspended, acoustical                  Option: painted, exposed structure                  Walls: Painted concrete masonry units</p> <p><u>LOOSE FURNISHINGS:</u> N/A</p> <p><u>ENVIRONMENTAL CONSIDERATIONS:</u></p> <ul style="list-style-type: none"> <li>▪ Wall minimum STC 45</li> <li>▪ This room to be one-story (14'+/-) tall, located within high-bay program.</li> </ul>	<p style="text-align: right;">Spec. Ref.#</p> <p><u>FEATURES<sup>1</sup>:</u>  <u>Fixed Items:</u>                  Pair of doors</p> <p><u>Fire Suppression:</u>                  Fire suppression system</p> <p><u>Plumbing:</u>                  N/A</p> <p><u>HVAC:</u>                  Supplemental heat as required                  Independent ventilation</p> <p><u>Electrical:</u>                  Fluorescent lighting                  Illumination level: See Table 8600-5                  Single level switching                  4 duplex receptacles</p> <p><u>Communications:</u>                  Central sound system</p> <p><u>Electronic Safety and Security:</u>                  Life safety devices per code</p> <p><u>Miscellaneous:</u>                  N/A</p>
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**NOTES:**

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

**T7 / 17.1200 MEDIUM/HEAVY TRUCK TECHNICIAN**

CHAPTER 6: CAREER-TECHNICAL SCHOOL

**Flammable Material Storage**

<b>Program Type:</b> 6		<b>FEATURES<sup>1</sup>:</b>	Spec.
<b>Size Requirements:</b> 60 SF		<b>Fixed Items:</b>	<b>Ref.#</b>
		3' of heavy duty adjustable steel shelving	105613
<b>Requirements:</b>		<b>Fire Suppression:</b>	
		Fire suppression system	211000
<b>FINISHES:</b>		<b>Plumbing:</b>	
		N/A	
<b>Flooring:</b>	Spec. Ref #	<b>HVAC:</b>	
Sealed concrete	033000	Supplemental heat as required	Div. 23
<b>Ceiling:</b>		Independent ventilation	Div. 23
Fire-rated gypsum drywall	092113	<b>Electrical:</b>	
<b>Walls:</b>		Fluorescent lighting	265100
Painted concrete masonry units	042000/ 099100	Illumination level: See Table 8600-5	
<b>LOOSE FURNISHINGS:</b>		Single level switching	262726
N/A		2 duplex receptacles	262726
<b>ENVIRONMENTAL CONSIDERATIONS:</b>		<b>Communications:</b>	
<ul style="list-style-type: none"> <li>▪ Wall minimum STC 45</li> <li>▪ This room to be one-story (14'+/-) tall, located within high-bay program.</li> </ul>		Central sound system	275123
		<b>Electronic Safety and Security:</b>	
		Life safety devices per code	283111
		<b>Miscellaneous:</b>	
		N/A	

**NOTES:**

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

**T7/17.1200 MEDIUM/HEAVY TRUCK TECHNICIAN  
Machine Room**

## CHAPTER 6: CAREER-TECHNICAL SCHOOL

		Spec. Ref.#
<b>Program Type:</b>	6	
<b>Size Requirements:</b>	900 SF	
<b>Requirements:</b>		
<u>FINISHES:</u>	Spec. Ref #	
Flooring:		
Sealed concrete	033000	
Ceiling:		
Suspended, acoustical	095113	
Option: painted, exposed structure	099100	
Walls:		
Painted concrete masonry units	042000/ 099100	
<u>LOOSE FURNISHINGS:</u>		
(4) Work tables		
Wastebasket		
<u>ENVIRONMENTAL CONSIDERATIONS:</u>		
▪ Wall only minimum STC 45		
▪ This room to be one-story (14'+/-) tall, located within high-bay program.		
		<u>FEATURES<sup>1</sup>:</u>
		<u>Fixed Items:</u>
		16' of tall cabinets 123550
		Paper towel dispenser 102813
		<u>Fire Suppression:</u>
		Fire suppression system 211000
		<u>Plumbing:</u>
		Utility sink 224000
		Plumbing connections 221116/221119/224000
		<u>HVAC:</u>
		Supplemental heat as required Div. 23
		Independent ventilation Div. 23
		<u>Electrical:</u>
		Fluorescent lighting 265100
		Illumination level: See Table 8600-5
		Single level switching 262726
		4 duplex receptacles 262726
		220 v service 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.

**R5 / 17.2302 PRECISION MACHINING**

CHAPTER 6: CAREER-TECHNICAL SCHOOL

**CT-P6-1**

<b><u>PROGRAM DESCRIPTION:</u></b>	Utilizing business and industry, math, science and technology standards, introduces concepts related to set-up and operation; and the control of various metal working equipment.	<b><u>FEATURES<sup>1</sup>:</u></b>	Spec.
<b>Program Type:</b>	6	<b><u>Fixed Items:</u></b>	<b><u>Ref.#</u></b>
<b>Size Requirements:</b>	3,500 SF Lab	24' of marker board, tack board, or	101100
<b>Lab Requirements:</b>		tackable wall surface	123550
		24' of tall storage cabinets	062000
		Pencil sharpener support (optional)	102813
		(4) Paper towel dispensers	
		12'x14' motorized overhead	
		sectional door to exterior	083613
		3'x7' hollow metal service door	
		to exterior	081113
		Steel bollards at overhead door,	
		both sides	055000
<b><u>FINISHES:</u></b>	Spec.	<b><u>Fire Suppression:</u></b>	
<b>Flooring:</b>	<b><u>Ref #</u></b>	Fire suppression system	211000
Sealed concrete	033000	<b><u>Plumbing:</u></b>	
<b>Ceiling:</b>		2 washfountains (minimum)	224000
Painted, exposed structure	099100	2 utility sinks (minimum)	224000
<b>Walls:</b>		2 hose bibbs (minimum)	224000
Painted concrete masonry units	042000/ 099100	Safety shower/eyewash	224000
		20 compressed air connections	221500
		Flat floor – no floor drains	
		1 trench drain	224000
		Plumbing connections	
		221116/221119/224000	
		<b><u>HVAC:</u></b>	
		Supply/return air system	Div. 23
		Independent temperature control	230923
		<b><u>Electrical:</u></b>	
		High intensity lighting or	265100
		fluorescent lighting	
		Illumination level: See Table 8600-5	
		Multilevel switching	262726
		30 duplex receptacles (minimum)	262726
		Double duplex receptacle adjacent to	
		each data and video port	262726
		220v 3-phase service	262726
		480v 3-phase service	262726
		Room safety push-button	262726
		<b><u>Communications:</u></b>	
		1 <b>projector</b> video port and video display	
		device	271543/274119
		1 voice port and phone	271513/273123
		<b><i>Wireless access point cable above ceiling</i></b>	
			271513
		Clock	275313

**NOTES:**

1. Finishes/Features: Refer to Chapter 9 for specification references.
2. This lab may be air-conditioned.
3. **Baseline includes WAP cable per classroom. WAP device quantity / placement per 272133 requirements.**

**R5 / 17.2302 PRECISION MACHINING  
CNC Room**

## CHAPTER 6: CAREER-TECHNICAL SCHOOL

		Spec. Ref.#
<b>Program Type:</b>	6	
<b>Size Requirements:</b>	900 SF	
<b>Requirements:</b>		
<u>FINISHES:</u>	Spec. Ref #	
Flooring:		
Sealed concrete	033000	
Ceiling:		
Suspended, acoustical	095113	
Option: painted, exposed structure	099100	
Walls:		
Painted concrete masonry units	042000/ 099100	
<u>LOOSE FURNISHINGS:</u>		
(4) Chairs		
<u>ENVIRONMENTAL CONSIDERATIONS:</u>		
▪ Wall only minimum STC 45		
▪ This room to be one-story (14'+/-) tall, located within high-bay program.		
		<u>FEATURES<sup>1</sup>:</u>
		<u>Fixed Items:</u>
		20' of plastic laminate counter
		123550
		20' of adjustable shelving
		062000
		<u>Fire Suppression:</u>
		Fire suppression system
		211000
		<u>Plumbing:</u>
		N/A
		<u>HVAC:</u>
		Supplemental heat as required
		Div. 23
		Independent ventilation (see note 2)
		Div. 23
		<u>Electrical:</u>
		Fluorescent lighting
		265100
		Illumination level: See Table 8600-5
		Single level switching
		262726
		4 duplex receptacles
		262726
		Double duplex receptacle adjacent to
		each data port
		262726
		220v service
		262726
		<u>Communications:</u>
		Central sound system
		275123
		6 data ports
		271513
		<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. Room may be cooled from central HVAC system, but all air must be exhausted and not returned.

**R5 / 17.2302 PRECISION MACHINING  
Inspection Room**

## CHAPTER 6: CAREER-TECHNICAL SCHOOL

<b>Program Type:</b>	6	<u>FEATURES<sup>1</sup>:</u>	Spec. Ref.#
<b>Size Requirements:</b>	150 SF	<u>Fixed Items:</u> 4' of tall storage	123550
<b>Requirements:</b>		<u>Fire Suppression:</u> Fire suppression system	211000
<u>FINISHES:</u>	Spec. Ref #	<u>Plumbing:</u> N/A	
Flooring:		<u>HVAC:</u> Supplemental heat as required	Div. 23
Sealed concrete	033000	<u>Electrical:</u> Fluorescent lighting	265100
Ceiling:		Illumination level: See Table 8600-5	
Suspended, acoustical	095113	Single level switching	262726
Option: painted, exposed structure	099100	4 duplex receptacles	262726
Walls:		<u>Communications:</u> Central sound system	275123
Painted concrete masonry units	042000/ 099100	<u>Electronic Safety and Security:</u> Life safety devices per code	283111
<u>LOOSE FURNISHINGS:</u>		<u>Miscellaneous:</u> N/A	
(1) Work table			
<u>ENVIRONMENTAL CONSIDERATIONS:</u>			
▪ Wall minimum STC 45			
▪ This room to be one-story (14'+/-) tall, located within high-bay program.			

**NOTES:**

1. Finishes/Features: Refer to Chapter 9 for specification references.
2. This room may be air-conditioned.

**DC / 17.3601 WOOD PRODUCT TECHNOLOGIES**  
**CT-P6-1**

CHAPTER 6: CAREER-TECHNICAL SCHOOL

		Spec. Ref.#
<b><u>PROGRAM DESCRIPTION:</u></b>		
Utilizing business and industry, math, science, and technology standards, introduces concepts of wood product materials and technologies; design and production of window frames, molding, trims and panels; and wood crafting skills including the design and manufacture of wood products such as furniture, moldings, trim, fixtures, and cabinetry.		
<b>Program Type:</b>	6	
<b>Size Requirements:</b>	3,000 SF Lab	
<b>Lab Requirements:</b>		
<b><u>FINISHES:</u></b>	Spec. Ref #	
Flooring:		
Sealed concrete	033000	
Ceiling:		
Painted, exposed structure	099100	
Walls:		
Painted concrete masonry units	042000/ 099100	
<b><u>LOOSE FURNISHINGS:</u></b>		
(12) Workbenches with heavy-duty wooden tops		
(24) Stools or chairs		
Wastebasket		
<b><u>Electronic Safety and Security:</u></b>		
Life safety devices per code	283111	
<b><u>Miscellaneous:</u></b>		
Pencil sharpener (optional)		
<b><i>Duplex receptacle with dedicated circuit for wireless devices</i></b>		
<b><u>Communications (cont'd):</u></b>		
<b><i>Wireless access point (WAP) as determined by Design – refer to Note 2</i></b>	<b>272133</b>	
<b><i>Classroom technology center video port</i></b>	<b>271543, 274116, 274119, 275127</b>	
<b><u>FEATURES<sup>1</sup>:</u></b>		
<b><u>Fixed Items:</u></b>		
24' of marker board, tack board, or tackable wall surface		101100
24' of tall storage cabinets		123550
Pencil sharpener support (optional)		062000
(3) Paper towel dispensers		102813
12'x14' motorized overhead sectional door to exterior		083613
3'x7' hollow metal service door to exterior		081113
Steel bollards at overhead door, both sides		055000
<b><u>Fire Suppression:</u></b>		
Fire suppression system		211000
<b><u>Plumbing:</u></b>		
1 washfountain (minimum)		224000
2 utility sinks (minimum)		224000
2 hose bibbs (minimum)		224000
Safety shower/eyewash		224000
2 floor drains		224000
1 trench drain		224000
Plumbing connections		221116/221119/224000
<b><u>HVAC:</u></b>		
Supply/return air system		Div. 23
Independent temperature control		230923
Dust collection system		233513
<b><u>Electrical:</u></b>		
High intensity lighting or fluorescent lighting		265100
Illumination level: See Table 8600-5		
Multilevel switching		262726
30 duplex receptacles (minimum)		262726
Double duplex receptacle adjacent to each data and video port		262726
<b><u>Communications:</u></b>		
1 <b>projector</b> video port and video display device		271543/274119
1 voice port and phone		271513/273123
<b>Wireless access point cable above ceiling</b>		271513
Clock		275313
Central sound system		275123
Room safety push-button		262726
<b><u>NOTES:</u></b>		
1. Finishes/Features: Refer to Chapter 9 for specification references.		
2. <b>Baseline includes WAP cable per classroom. WAP device quantity / placement per 272133 requirements.</b>		

**DC / 17.3601 WOOD PRODUCT TECHNOLOGIES****CHAPTER 6: CAREER-TECHNICAL SCHOOL****Finishing Room**

		Spec. Ref.#
<b>Program Type:</b>	6	
<b>Size Requirements:</b>	500 SF	
<b>Requirements:</b>		
<u>FINISHES:</u>	Spec. Ref #	
Flooring:		
Sealed concrete	033000	
Ceiling:		
Suspended, acoustical	095113	
Option: painted, exposed structure	099100	
Walls:		
Painted concrete masonry units	042000/ 099100	
<u>LOOSE FURNISHINGS:</u>		
(2) Work tables		
<u>ENVIRONMENTAL CONSIDERATIONS:</u>		
▪ Wall only minimum STC 45		
▪ This room to be one-story (14'+/-) tall, located within high-bay program.		
		<u>FEATURES<sup>1</sup>:</u>
		<u>Fixed Items:</u>
		16' of pegboard
		Pair of doors
		060565 081113
		<u>Fire Suppression:</u>
		Fire suppression system
		211000
		<u>Plumbing:</u>
		N/A
		<u>HVAC:</u>
		Supplemental heat as required
		Independent ventilation
		Div. 23 Div. 23
		<u>Electrical:</u>
		Fluorescent lighting
		Illumination level: See Table 8600-5
		Single level switching
		4 duplex receptacles
		265100 262726 262726
		<u>Communications:</u>
		Central sound system
		Clock
		275123 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.

**DC / 17.3601 WOOD PRODUCT TECHNOLOGIES**  
**Material Storage**

CHAPTER 6: CAREER-TECHNICAL SCHOOL

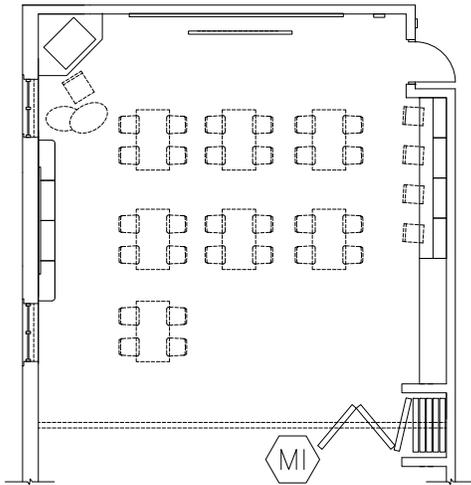
<p><b>Program Type:</b> 6</p> <p><b>Size Requirements:</b> 800 SF</p> <p><b>Requirements:</b></p> <p><u>FINISHES:</u>                  Flooring:                  Sealed concrete</p> <p>Ceiling:                  Suspended, acoustical                  Option: painted, exposed structure</p> <p>Walls:                  Painted concrete masonry units</p> <p><u>LOOSE FURNISHINGS:</u>                  N/A</p> <p><u>ENVIRONMENTAL CONSIDERATIONS:</u></p> <ul style="list-style-type: none"> <li>▪ Wall minimum STC 45</li> <li>▪ This room to be one-story (14'+/-) tall, located within high-bay program.</li> </ul>	<p style="text-align: right;">Spec. Ref.#</p> <p><u>FEATURES<sup>1</sup>:</u>  <u>Fixed Items:</u>                  N/A</p> <p><u>Fire Suppression:</u>                  Fire suppression system 211000</p> <p><u>Plumbing:</u>                  N/A</p> <p><u>HVAC:</u>                  Supplemental heat as required Div. 23</p> <p><u>Electrical:</u>                  Fluorescent lighting 265100                  Illumination level: See Table 8600-5                  Single level switching 262726                  4 duplex receptacles 262726</p> <p><u>Communications:</u>                  Central sound system 275123</p> <p><u>Electronic Safety and Security:</u>                  Life safety devices per code 283111</p> <p><u>Miscellaneous:</u>                  N/A</p>
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NOTES:

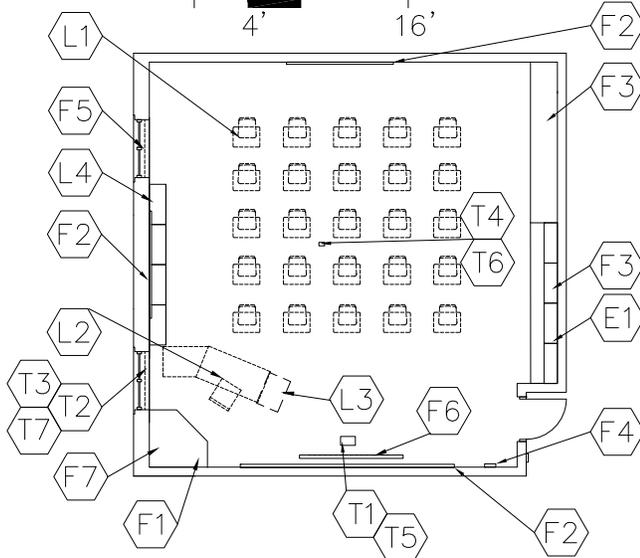
1. Finishes/Features: Refer to Chapter 9 for specification references.

**RELATED CLASSROOM  
CT-P6-2**

**CHAPTER 6: CAREER-TECHNICAL HIGH 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 related lab
- 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
- Proximity to main corridor to accommodate other students without interrupting lab

**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:**

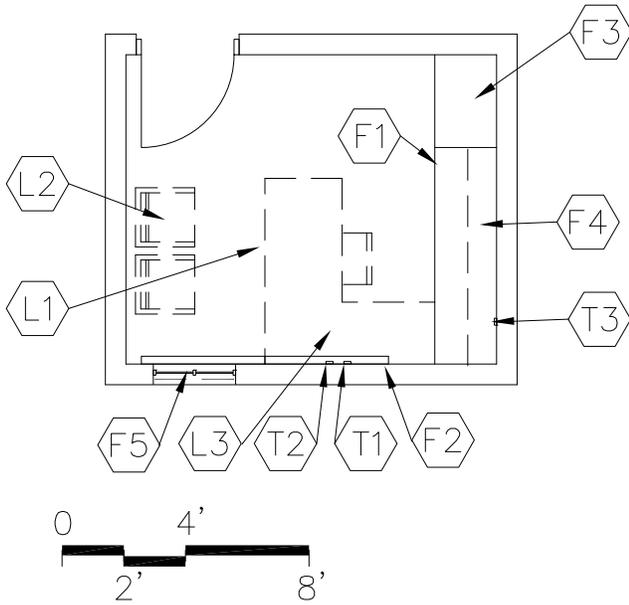
1. Loose furnishings shown represent one of many possible arrangements.
2. Depending upon the educational program of the district, a tall wardrobe may be placed in this classroom or could be placed in a teacher prep area/workroom.

**RELATED CLASSROOM  
CT-P6-2**
**CHAPTER 6: CAREER-TECHNICAL HIGH SCHOOL**

<u>FINISHES<sup>1</sup>:</u>	Spec. Ref.#	<u>FEATURES<sup>1</sup>:</u>	Spec. Ref.#
<u>Flooring:</u>		<u>Fixed Items:</u>	
Carpet or carpet tile	096816	<b>F1</b> Tall wardrobe with file drawers	123550
Optional: linoleum, ET, or sheet vinyl	096516 096500 096813	<b>F2</b> 20'-32' combination marker board, tack board and tackable wall surface	101100
<u>Base:</u>		<b>F3</b> 18'-24' combination base and wall cabinets	123550
Resilient base	096500	<b>F4</b> Pencil sharpener support (optional)	062000
<u>Ceiling:</u>		<b>F5</b> Windows with integral blinds	085113
Suspended, acoustical	095113	<b>F6</b> Projection screen (optional)	115213
<u>Walls:</u>		<b>F7</b> Technology support casework	123550
Painted concrete masonry units	042000/099100	<u>Fire Suppression:</u>	
		Fire suppression system	211000
		<u>Plumbing:</u>	
		N/A	
		<u>HVAC:</u>	
<u>LOOSE FURNISHINGS:</u>		Supply/return air system	Div. 23
L1 Student desks and chairs		Independent temperature control	230923
L2 Teacher desk or workstation/computer support and chair		<u>Electrical:</u>	
L3 File cabinet		Fluorescent lighting:	265100
L4 9' of low bookcases (fixed or mobile) 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 <b>projector</b> video port	271543
		T2 1 voice port and phone	271513/273123
		T3 1 data port near teacher workstation	271513
		T4 <b>Wireless access point cable above ceiling</b>	271513
		Clock	275313
		Central sound system	275123
		Sound reinforcement system	275127
<u>Miscellaneous:</u>		T5 <b>Ultra-short throw interactive</b> projector	274119
Pencil sharpener ( <i>optional</i> )		T6 <b>Wireless access point (WAP) as determined by Design – refer to Note 4</b>	272133
M1 Operable partitions between classrooms are optional	02226	T7 <b>Classroom technology center video port</b>	271543, 274116, 274119, 275127
<b>E1 Duplex receptacle with dedicated circuit for wireless devices</b>		<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. Where appropriate, some casework may be mobile to add flexibility and become part of the loose furnishings.
4. **Baseline includes WAP cable per classroom. WAP device quantity / placement per 272133 requirements.**



**PROGRAM ACTIVITIES:**

- Private space for program instructor
- One-on-one conferences with academic instructors, students, etc.

**SPATIAL RELATIONSHIPS:**

- Near related lab
- Direct access to school circulation areas

**ENVIRONMENTAL CONSIDERATIONS:**

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

CAPACITY: 1 - 3 persons  
SIZE: 120 SF

**NOTES:**

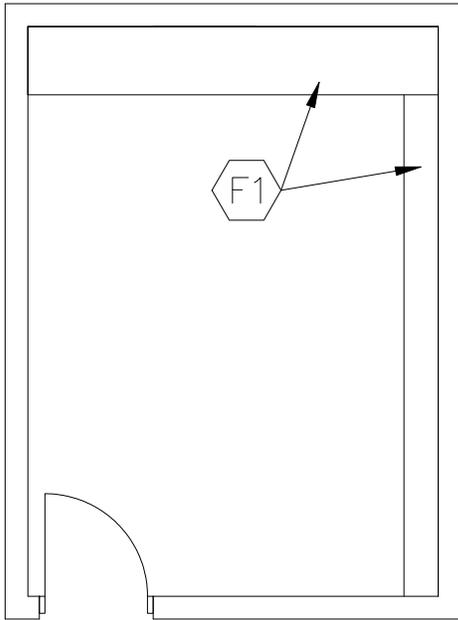
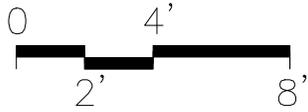
1. Loose furnishings shown represent one of many possible arrangements.

**OFFICE  
CT-P6-3**
**CHAPTER 6: CAREER-TECHNICAL SCHOOL**

<u>FINISHES<sup>1</sup>:</u>	Spec. Ref.#	<u>FEATURES<sup>1</sup>:</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
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			
Wastebasket		<u>Electrical:</u>	
		Single level switching	262726
		Fluorescent lighting	265100
		Illumination level: See Table 8600-5	
		4 duplex receptacles	262726
		Double duplex receptacle adjacent	
		to data and video port	262726
		<u>Communications:</u>	
		T1 1 voice port and phone	271513/273123
		T2 1 data port near workstation	271513
		T3 1 <b>projector</b> video port	271543
		Central sound system	275123
		Clock	275313
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
		<u>Miscellaneous:</u>	
		N/A	

**NOTES:**

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



**PROGRAM ACTIVITIES:**

- Space for storage of lab equipment

**SPATIAL RELATIONSHIPS:**

- Near related lab

**ENVIRONMENTAL CONSIDERATIONS:**

N/A

CAPACITY:  
SIZE:

N/A  
200 SF

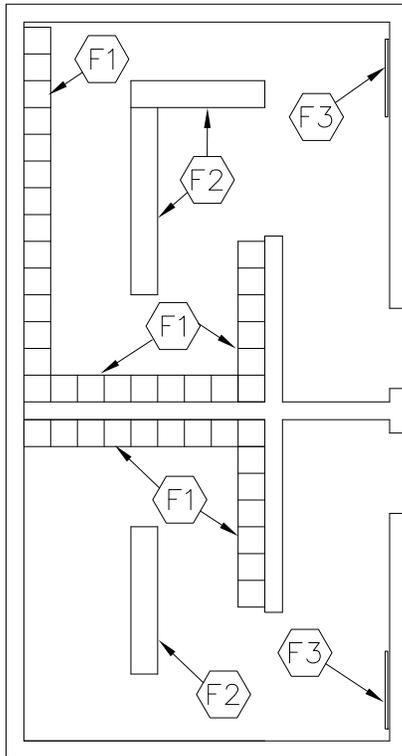
NOTES:

**STORAGE AREA  
CT-P6-4**
**CHAPTER 6: CAREER-TECHNICAL SCHOOL**

	Spec. Ref.#		Spec. Ref.#
<u>FINISHES<sup>1</sup>:</u>		<u>FEATURES<sup>1</sup>:</u>	
Flooring:		<u>Fixed Items<sup>1</sup>:</u>	
<b>Sealed</b> concrete	033000	F1 8'-20' of open shelving	
		Depth may vary (fixed or loose)	123550
Base:		<u>Fire Suppression:</u>	
Resilient base	096500	Fire suppression system	211000
Ceiling:		<u>Plumbing:</u>	
Exposed structure	---	N/A	
Walls:		<u>HVAC:</u>	
Painted concrete masonry units	042000/099100	To be determined by Design Professional	
		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 8600-5	
		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.



50 total lockers

CAPACITY: N/A  
 SIZE: 9 SF per student (see Note 2)

**PROGRAM ACTIVITIES:**

- Personal and health needs for the program Specific users.
- Changing of clothes and/or uniforms.
- Storage of personal items while students are in lab.

**SPATIAL RELATIONSHIPS:**

- Adjacent to related lab

**ENVIRONMENTAL CONSIDERATIONS:**

- Sanitary and durable finishes.
- Environmental sound control  
 Wall minimum STC 40  
 Ceiling minimum CAC 35, NRC 0.70

**NOTES:**

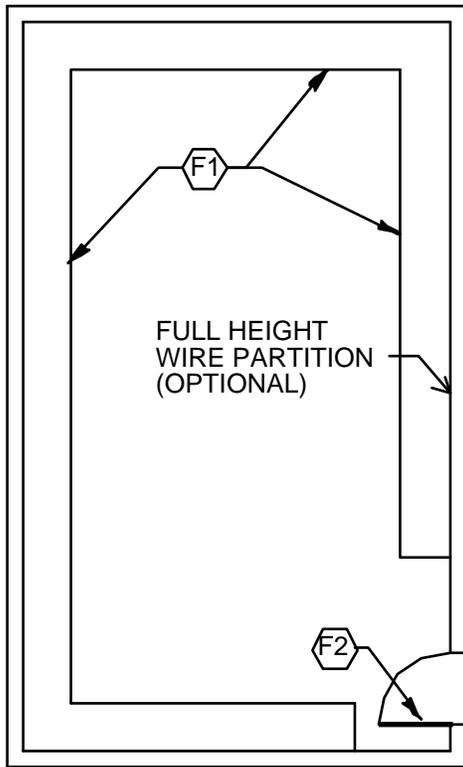
1. Large and small changing areas are interchangeable for either males or females. Determination based on male/female ratio within each program.
2. Student count determined by total number of approved program spaces Types 5, 6, and 7 times 30.

**CHANGING ROOM  
CT-P6-5**
**CHAPTER 6: CAREER-TECHNICAL SCHOOL**

<u>FINISHES<sup>1</sup>:</u>	Spec. Ref.#	<u>FEATURES<sup>1</sup>:</u>	Spec. Ref.#
<u>Flooring:</u>		<u>Fixed Items<sup>1</sup>:</u>	
Polished concrete finishing, or colored concrete finishing	033510 033519	F1 Student lockers	105113
Optional: linoleum or rubber	096500 096516	F2 Locker benches	062000
		F3 24" x 60" mirror	102813
<u>Base:</u>		<u>Fire Suppression:</u>	
Resilient base	096500	Fire suppression system	211000
<u>Ceiling:</u>		<u>Plumbing:</u>	
Suspended, acoustical with high impact hold down clips	095113	N/A	
<u>Walls:</u>		<u>HVAC:</u>	
Painted concrete masonry units	042000 / 099100	Supply/Return air system	Div. 23
		Exhaust air system	Div. 23
		Supplemental heat as required	Div. 23
		Individual temperature control	230923
<u>LOOSE FURNISHINGS</u>		<u>Electrical:</u>	
Wastebaskets		Single level switching	262726
		Fluorescent lighting	265100
		Illumination level: See Table 8600-6	
		2 Duplex receptacles	262726
		Means of egress lighting per code	265100
		<u>Communications:</u>	
		Clock	275313
		Central Sound System	275123
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
		<u>Miscellaneous:</u>	
		N/A	

**NOTES:**

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



**PROGRAM ACTIVITIES:**

- Storage of program related tools and instruments.
- Storage of students' tools.

**SPATIAL RELATIONSHIPS:**

- Adjacent to related lab

**ENVIRONMENTAL CONSIDERATIONS:**

- Sanitary and durable finishes

CAPACITY:  
SIZE:  
ANCILLARY SPACES:

N/A  
550 SF

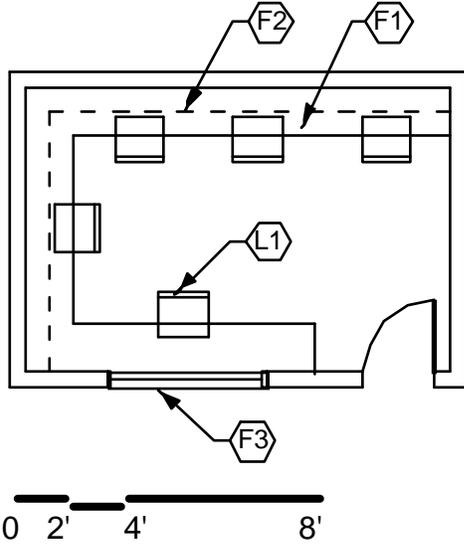
NOTES:

**TOOL CRIB**  
**CT-P6-6**
**CHAPTER 6: CAREER-TECHNICAL SCHOOL**

	Spec. Ref.#		Spec. Ref.#
<b><u>FINISHES</u><sup>1</sup>:</b>		<b><u>FEATURES</u><sup>1</sup>:</b>	
Flooring:		<b><u>Fixed Items</u><sup>1</sup>:</b>	
<b>Sealed</b> concrete	033000	F1 80' of open metal shelving (total),	
Optional: linoleum, or rubber	096500	Depth may vary (fixed or loose)	105613
	096516	F2 Dutch door	105613
Base:		<b><u>Fire Suppression:</u></b>	
Resilient base	096500	Fire suppression system	211000
Ceiling:		<b><u>Plumbing:</u></b>	
Suspended, acoustical	095113	N/A	
Walls:		<b><u>HVAC:</u></b>	
Painted concrete masonry units		Exhaust air system	Div. 23
	042000 / 099100	Supplemental heat as required	Div. 23
<b><u>LOOSE FURNISHINGS</u></b>		<b><u>Electrical:</u></b>	
N/A		Single level switching	262726
		Fluorescent lighting	265100
		Illumination level: See Table 8600-5	
		4 Duplex receptacles	262726
		<b><u>Communications:</u></b>	
		N/A	
		<b><u>Electronic Safety and Security:</u></b>	
		Life safety devices per code	283111
		<b><u>Miscellaneous:</u></b>	
		N/A	

**NOTES:**

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



PROGRAM ACTIVITIES:

- Individual computer research.
- Reference program specific manuals.
- Small group meetings.

SPATIAL RELATIONSHIPS:

- Adjacent to related lab

ENVIRONMENTAL CONSIDERATIONS:

- Sanitary and durable finishes
- Environmental sound control
  - Wall **only** minimum STC **45**
  - Ceiling minimum CAC 35, NRC 0.70

CAPACITY:  
SIZE:

N/A  
200 SF

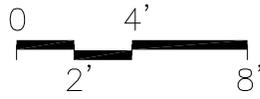
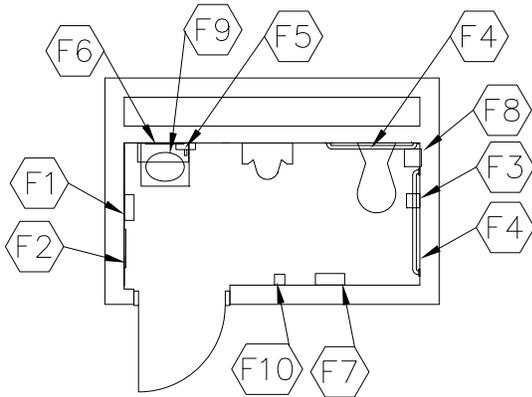
NOTES:

**REFERENCE ROOM  
CT-P6-7**
**CHAPTER 6: CAREER-TECHNICAL SCHOOL**

	Spec. Ref.#		Spec. Ref.#
<b><u>FINISHES<sup>1</sup>:</u></b>		<b><u>FEATURES<sup>1</sup>:</u></b>	
Flooring:		<b><u>Fixed Items:</u></b>	
<b>Sealed</b> concrete	033000	F1 34' of plastic lam. counter	062000
Optional: rubber	096500	F2 27' of adjustable shelving	062000
Base:		F3 Interior window	081113/ 088000
Resilient base	096500	<b><u>Fire Suppression:</u></b>	
Ceiling:		Fire suppression system	211000
Suspended, acoustical	095113	<b><u>Plumbing:</u></b>	
Walls:		N/A	
Painted concrete masonry units	042000 / 099100	<b><u>HVAC:</u></b>	
<b><u>LOOSE FURNISHINGS</u></b>		Supply/return air system	Div. 23
L3 Student chairs		Exhaust air system	Div. 23
Wastebasket		Supplemental heat as required	Div. 23
		<b><u>Electrical:</u></b>	
		Single level switching	262726
		Fluorescent lighting	265100
		Illumination level: See Table 8600-5	
		2 Duplex receptacles	262726
		Duplex receptacle adjacent to	
		Each data and video port	262726
		<b><u>Communications:</u></b>	
		T1 6 data ports	271513
		<b><u>Electronic Safety and Security:</u></b>	
		Life safety devices per code	283111
		<b><u>Miscellaneous:</u></b>	
		N/A	

**NOTES:**

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



**PROGRAM ACTIVITIES:**

- Personal and health needs for the program
- Specific users
- Changing of clothes and/or uniforms.

**SPATIAL RELATIONSHIPS:**

- Adjacent to related lab

**ENVIRONMENTAL CONSIDERATIONS:**

- Sanitary and durable finishes.
- Environmental sound control  
 Wall minimum STC 48  
 Ceiling minimum CAC 35, NRC 0.70

CAPACITY:  
SIZE:

N/A  
68 SF

NOTES:

**TOILET ROOM**  
**CT-P6-8**
**CHAPTER 6: CAREER-TECHNICAL SCHOOL**

	Spec. Ref.#		Spec. Ref.#
<b><u>FINISHES<sup>1</sup>:</u></b>		<b><u>FEATURES<sup>1</sup>:</u></b>	
Flooring:		<b><u>Fixed Items:</u></b>	
<b>Sealed concrete</b>	<b>093000</b>	F1 Towel dispenser	102813
Optional: Rubber	096500	F2 24" x 60" mirror	102813
Base:		F3 Toilet tissue holder	102813
Resilient base	096500	F4 36" and 42" grab bars	102813
Ceiling:		F5 Soap dispenser	102813
Suspended, acoustical	095113	F6 16" x 24" mirror	102813
Walls:		F7 Sanitary product dispenser	102813
Painted concrete masonry units		F8 Sanitary product receptacle	102813
	042000 / 099100	F9 Stainless steel shelf (optional)	102813
		F10 Coat hook	102813
<b><u>LOOSE FURNISHINGS</u></b>		<b><u>Fire Suppression:</u></b>	
Wastebaskets		Fire suppression system	211000
		<b><u>Plumbing:</u></b>	
		Plumbing connections	221116/221119/224000
		<b><u>HVAC:</u></b>	
		Supply/return air system	Div. 23
		Exhaust air system	Div. 23
		Supplemental heat as required	Div. 23
		Individual temperature control	230923
		<b><u>Electrical:</u></b>	
		Single level switching	262726
		Fluorescent lighting	265100
		Illumination level: See Table 8600-5	
		2 Duplex receptacles	262726
		Means of egress lighting per code	265100
		<b><u>Communications:</u></b>	
		Clock	275313
		<b><u>Electronic Safety and Security:</u></b>	
		Life safety devices per code	283111
		<b><u>Miscellaneous:</u></b>	
		N/A	

**NOTES:**

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

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**Program Type 7**

Description: Large to very large-sized lab space with enhanced support space.

Lab space to be "high-bay" (18' min. clearance) with exposed building structure.

Lab to utilize standard construction with the following exception – lab floor slab to be 8" thick.

Support space to be finished with sealed concrete or vinyl composition tile, paint, and suspended acoustical ceiling.

**Related classroom, office, changing room, reference room, and toilet room may be air-conditioned. The high bay lab is NOT air-conditioned. Program specific spaces are NOT air-conditioned.**

**NOTES:**

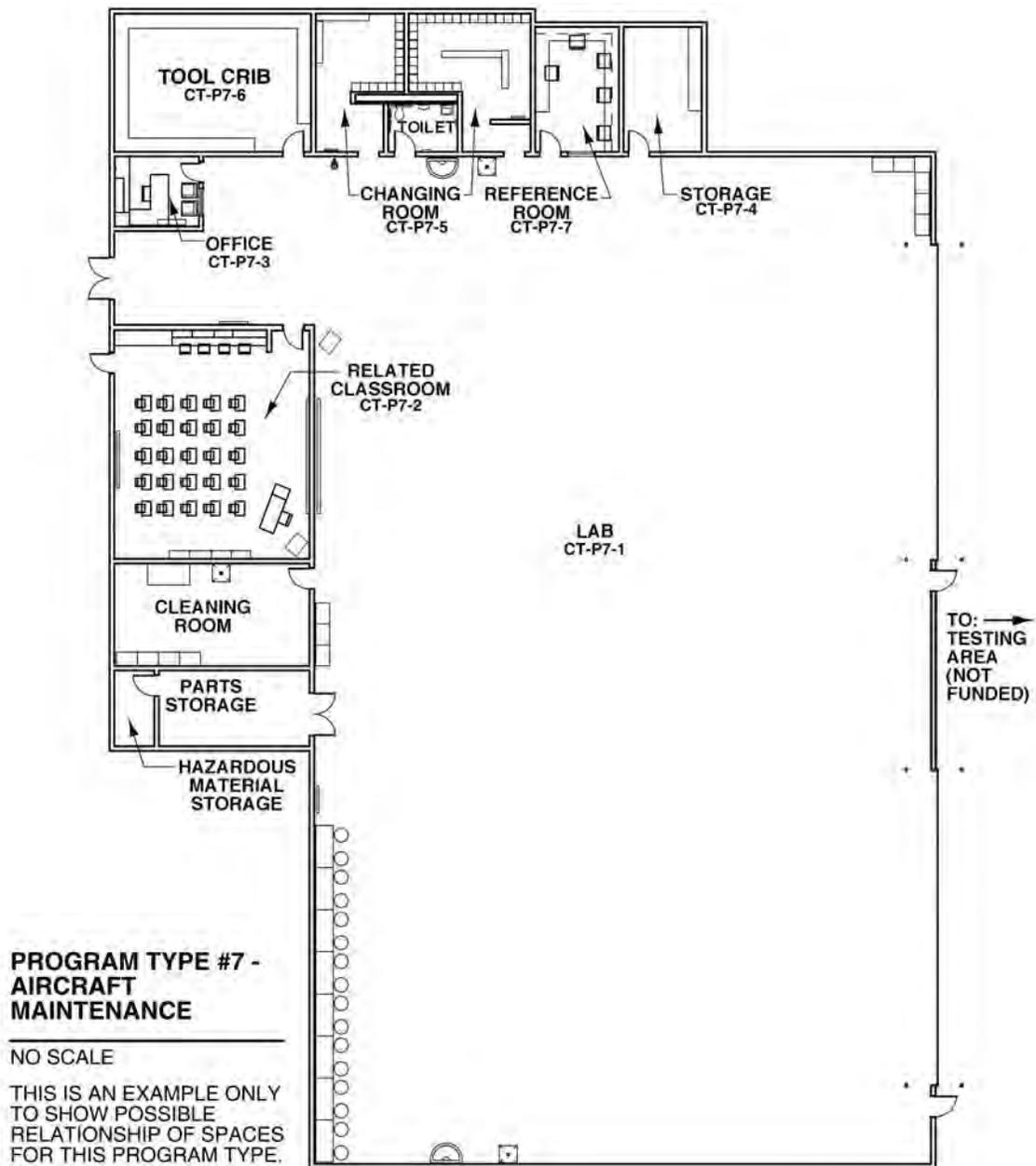
This is an example of how the Program Type 7 spaces in a career-technical school could be arranged. This is meant only to demonstrate the relationships between various spaces of this area.

Following are the Program Type 7 space plates:

CT-P7-1	Lab
CT-P7-2	Related Classroom
CT-P7-3	Office
CT-P7-4	Storage
CT-P7-5	Changing Room
CT-P7-6	Tool Crib
CT-P7-7	Reference Room
CT-P7-8	Toilet Room

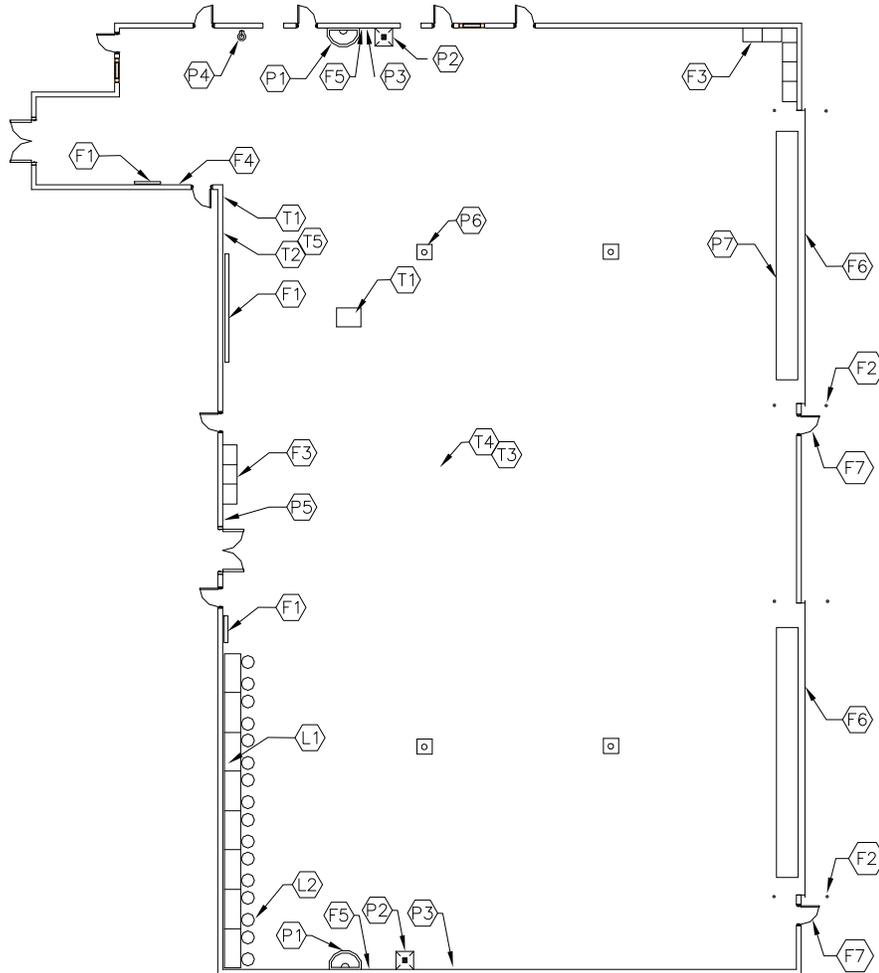
**PROGRAM TYPE 7  
EXAMPLE**

CHAPTER 6: CAREER-TECHNICAL SCHOOL



**NOTES:**

1. See lab descriptions within this section for specific lab requirements.
2. See individual space plates at the end of this section for specific requirements.



<p><b>CAPACITY:</b> 24 Students  <b>SIZE:</b> 8,000 – 13,000 SF          (see lab summaries for exact sizes)  <b>ANCILLARY SPACES:</b> CT-P7-2 thru CT-P7-8</p>	
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**NOTES:**

1. Loose furnishings shown represent one of many possible arrangements.
2. Graphic plate is an example only. Other labs within this program are not drawn – refer to lab summaries within this program type for information on a particular lab.

**LAB**  
**CT-P7-1**

CHAPTER 6: CAREER-TECHNICAL SCHOOL

PROGRAM ACTIVITIES:

- Large and small group instruction
- Group and individual work
- Demonstrations

SPATIAL RELATIONSHIPS:

- Near other related labs
- Adjacent to typical support spaces
- Proximity to large group restrooms
- Located away from noisy or public activities
- Proximity to core academic area and common use areas
- 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. Finishes/Features: Refer to Chapter 9 for specification references.
2. Loose Furnishings: Refer to Lab Profiles within this section.
3. Loose Furnishings, fixed equipment, utility locations, and general footprint of room shown represent one of many possible arrangements.

**T0 / 17.0401 AIRCRAFT MAINTENANCE  
CT-P7-1**

CHAPTER 6: CAREER-TECHNICAL SCHOOL

<p><b><u>PROGRAM DESCRIPTION:</u></b> Classroom and lab learning experiences concerned with the inspection, repair, servicing, and overhauling of all airplane parts, including engines, propellers, instruments, airframes, fuel and oil tanks, control cables and hydraulic units. Involves learning the use of technical manuals and various types of testing equipment.</p> <p><b>Program Type:</b> 7 <b>Size Requirements:</b> 13,000 SF Lab <b>Lab Requirements:</b></p> <p><b><u>FINISHES:</u></b></p> <p>Flooring: Sealed concrete 033000</p> <p>Ceiling: Painted, exposed structure 099100</p> <p>Walls: Painted concrete masonry units 042000/ 099100</p> <p><b><u>LOOSE FURNISHINGS:</u></b></p> <p>L1 (8) Workbenches with heavy-duty metal tops L2 (24) Stools or chairs Wastebasket</p> <p><b><u>Electronic Safety and Security:</u></b> Life safety devices per code 283111</p> <p><b><u>Miscellaneous:</u></b> Pencil sharpener (optional)</p> <p><b>E1 Duplex receptacle with dedicated circuit for wireless devices</b></p> <p><b>The following items to be funded by the School District:</b> Paint booth, paint prep station, paint mixing station</p> <p><b><u>Communications (cont'd):</u></b> <b>T4 Wireless access point (WAP) as determined by Design – refer to Note 2 272133</b> <b>T5 Classroom technology center video port 271543, 274116, 274119, 275127</b></p>	<p style="text-align: right;">Spec. Ref.#</p> <p><b><u>FEATURES<sup>1</sup>:</u></b> <b><u>Fixed Items:</u></b></p> <p>F1 24' of marker board, tack board, or tackable wall surface 101100</p> <p>F2 Reserved</p> <p>F3 24' of tall storage cabinets 123550</p> <p>F4 Pencil sharpener support (optional) 062000</p> <p>F5 (4) Paper towel dispensers 102813</p> <p>F6 (2) 35'high x 45'long motorized overhead sectional doors to exterior 083613</p> <p>F7 (2) 3'x7' hollow metal service doors to exterior 081113</p> <p>F8 Steel bollards at overhead door, both sides 055000</p> <p><b><u>Fire Suppression:</u></b> Fire suppression system 211000</p> <p><b><u>Plumbing:</u></b></p> <p>P1 2 washfountains (minimum) 224000</p> <p>P2 2 utility sinks (minimum) 224000</p> <p>P3 3 hose bibbs (minimum) 224000</p> <p>P4 Safety shower/eyewash 224000</p> <p>P5 14 compressed air connections 221500</p> <p>P6 2 floor drains 224000</p> <p>P7 1 trench drain 224000</p> <p>Plumbing connections 221116/221119/224000</p> <p><b><u>HVAC:</u></b> Supply/return air system Div. 23 Independent temperature control 230923</p> <p><b><u>Electrical:</u></b> High intensity lighting or fluorescent lighting 265100 Illumination level: See Table 8600-5 Multilevel switching 262726 40 duplex receptacles (minimum) 262726 Double duplex receptacle adjacent to each data and video port 262726 220v service 262726</p> <p><b><u>Communications:</u></b></p> <p>T1 1 <b>projector</b> video port and video display device 271543/274119</p> <p>T2 1 voice port and phone 271513/273123</p> <p>T3 <b>Wireless access point cable above ceiling</b> 271513 Clock 275313 Central sound system 275123</p>
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- NOTES:**
1. Finishes/Features: Refer to Chapter 9 for specification references.
  2. **Baseline includes WAP cable per classroom. WAP device quantity / placement per 272133 requirements.**



**T0 / 17.0401 AIRCRAFT MAINTENANCE**

CHAPTER 6: CAREER-TECHNICAL SCHOOL

**Parts Storage**

<b>Program Type:</b> 7			<b>FEATURES<sup>1</sup>:</b>	Spec.
<b>Size Requirements:</b> 300 SF			<u>Fixed Items:</u>	<u>Ref.#</u>
			30' of heavy duty steel adjustable shelving	105613
<b>Requirements:</b>			<u>Fire Suppression:</u>	
	Spec.		Fire suppression system	211000
<u>FINISHES:</u>	<u>Ref #</u>		<u>Plumbing:</u>	
Flooring:			N/A	
Sealed concrete	033000		<u>HVAC:</u>	
Ceiling:			Supplemental heat as required	Div. 23
Fire-rated gypsum drywall	092113		Independent ventilation	Div. 23
Walls:			<u>Electrical:</u>	
Painted concrete masonry units	042000/ 099100		Fluorescent lighting	265100
			Illumination level: See Table 8600-5	
<u>LOOSE FURNISHINGS:</u>			Single level switching	262726
N/A			2 duplex receptacles	262726
			<u>Communications:</u>	
			Central sound system	275123
<u>ENVIRONMENTAL CONSIDERATIONS:</u>			<u>Electronic Safety and Security:</u>	
▪ Wall minimum STC 45			Life safety devices per code	283111
▪ This room to be one-story (14'+/-) tall, located within high-bay program.			<u>Miscellaneous:</u>	
			N/A	

NOTES:

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

**T0 / 17.0401 AIRCRAFT MAINTENANCE  
Hazardous Material Storage**

CHAPTER 6: CAREER-TECHNICAL SCHOOL

<p><b>Program Type:</b> 7</p> <p><b>Size Requirements:</b> 60 SF</p> <p><b>Requirements:</b></p> <p><u>FINISHES:</u>                  Flooring:                  Sealed concrete</p> <p>Ceiling:                  Fire-rated gypsum drywall</p> <p>Walls:                  Painted concrete masonry units</p> <p><u>LOOSE FURNISHINGS:</u>                  N/A</p> <p><u>ENVIRONMENTAL CONSIDERATIONS:</u></p> <ul style="list-style-type: none"> <li>▪ Wall minimum STC 45</li> <li>▪ This room to be one-story (14'+/-) tall, located within high-bay program.</li> </ul>	<p style="text-align: right;">Spec. Ref.#</p> <p><u>FEATURES<sup>1</sup>:</u>  <u>Fixed Items:</u>                  N/A</p> <p><u>Fire Suppression:</u>                  Fire suppression system 211000</p> <p><u>Plumbing:</u>                  N/A</p> <p><u>HVAC:</u>                  Supplemental heat as required Div. 23</p> <p><u>Electrical:</u>                  Fluorescent lighting 265100                  Illumination level: See Table 8600-5                  Single level switching 262726                  2 duplex receptacles 262726</p> <p><u>Communications:</u>                  Central sound system 275123</p> <p><u>Electronic Safety and Security:</u>                  Life safety devices per code 283111</p> <p><u>Miscellaneous:</u>                  N/A</p>
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NOTES:

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

**A2 / 01.0901 ANIMAL SCIENCE AND MANAGEMENT (EQUINE)**

CHAPTER 6: CAREER-TECHNICAL SCHOOL

**CT-P7-1**

<b><u>PROGRAM DESCRIPTION:</u></b>	Applies principles of anatomy and physiology, nutrition, reproduction, health, and genetics and behavior to the production, management, marketing, and training of domestic animals.	<b><u>FEATURES<sup>1</sup>:</u></b>	Spec.
<b>Program Type:</b>	7	<b><u>Fixed Items:</u></b>	<b><u>Ref.#</u></b>
<b>Size Requirements:</b>	8,000 SF Lab	180' of metal pipe rail fencing	055000
<b>Lab Requirements:</b>	Spec. <b><u>Ref #</u></b>	12' x 14'motorized overhead	083613
<b><u>FINISHES:</u></b>	Flooring: Compacted earth	sectional door to exterior	081113
<b>Ceiling:</b>	Painted, exposed structure 099100	3'x7' hollow metal service door to exterior	081113
<b>Walls:</b>	Painted exposed structure 099100	Steel bollards at overhead door, both sides	055000
<b><u>LOOSE FURNISHINGS:</u></b>	N/A	<b><u>Fire Suppression:</u></b>	211000
<b><u>SITE FEATURE:</u></b>	Plan for the following if required by school curriculum requirements: Fenced riding area	Fire suppression system	
<b><u>NOTES:</u></b>	1. Finishes/Features: Refer to Chapter 9 for specification references.	<b><u>Plumbing:</u></b>	224000
		2 hose bibbs (minimum)	221116/221119/224000
		Plumbing connections	
		<b><u>HVAC:</u></b>	Div. 23
		Supply/return air system	230923
		Independent temperature control	
		<b><u>Electrical:</u></b>	265100
		High intensity lighting or fluorescent lighting	Illumination level: See Table 8600-5
		Illumination level: See Table 8600-5	262726
		Multilevel switching	262726
		12 duplex receptacles (minimum)	
		<b><u>Communications:</u></b>	271513/273123
		1 voice port and phone	275313
		Clock	275123
		Central sound system	
		<b><u>Electronic Safety and Security:</u></b>	283111
		Life safety devices per code	
		<b><u>Miscellaneous:</u></b>	N/A

**A2 / 01.0901 ANIMAL SCIENCE AND MANAGEMENT (EQUINE)**

**Stables**

CHAPTER 6: CAREER-TECHNICAL SCHOOL

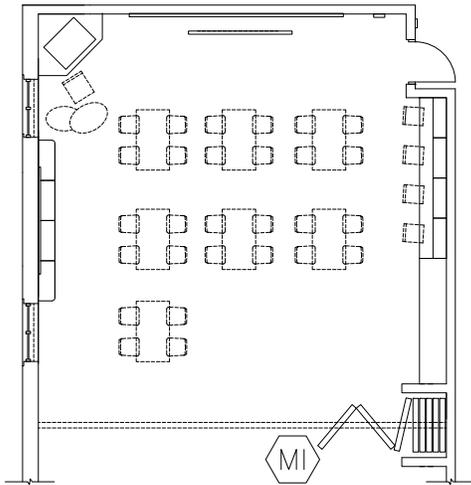
<p><b>Program Type:</b> 7</p> <p><b>Size Requirements:</b> 6,800 SF</p> <p><b>Requirements:</b></p> <p><u>FINISHES:</u>                  Flooring:                  Sealed concrete</p> <p>Ceiling:                  Painted, exposed structure</p> <p>Walls:                  Exposed wood                  At wash stalls, provide fiberglass reinforced plastic panels</p> <p><u>LOOSE FURNISHINGS:</u>                  Teacher desk and chair                  File cabinet                  Wastebasket</p> <p><u>ENVIRONMENTAL CONSIDERATIONS:</u></p> <ul style="list-style-type: none"> <li>▪ This room to be one-story (14'+/-) tall, adjacent to indoor riding area.</li> <li>▪ Building is to be of wood construction.</li> <li>▪ Optional: Provide loft space above stalls for storage.</li> </ul>	<p style="text-align: right;">Spec. Ref.#</p> <p><u>FEATURES<sup>1</sup>:</u>  <u>Fixed Items:</u>                  (4) Paper towel dispensers</p> <p><u>Fire Suppression:</u>                  Fire suppression system</p> <p><u>Plumbing:</u>                  6 frost-free hose bibbs                  Plumbing connections                  221116/221119/224000                  Floor drains with clean-out pits</p> <p><u>HVAC:</u>                  N/A</p> <p><u>Electrical:</u>                  Fluorescent lighting                  Illumination level: See Table 8600-5                  Multilevel switching                  12 duplex receptacles (minimum)</p> <p><u>Communications:</u>                  1 voice port and phone                  1 data port                  Central sound system</p> <p><u>Electronic Safety and Security:</u>                  Life safety devices per code</p> <p><u>Miscellaneous:</u>                  N/A</p>
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NOTES:

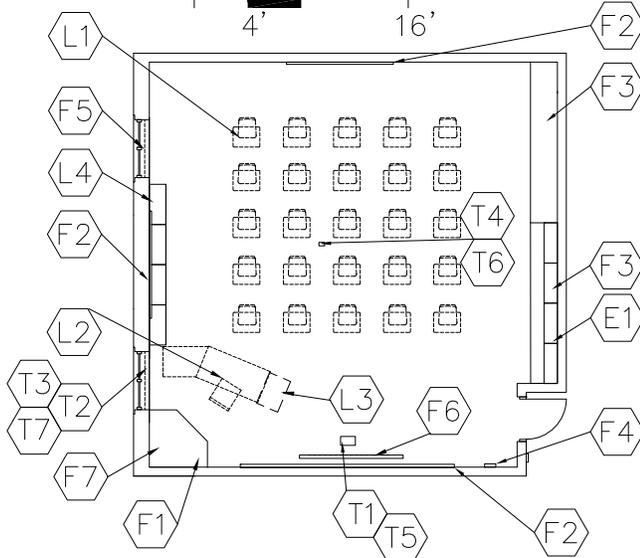
1. Finishes/Features: Refer to Chapter 9 for specification references.

**RELATED CLASSROOM  
CT-P7-2**

**CHAPTER 6: CAREER-TECHNICAL HIGH 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 related lab
- 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
- Proximity to main corridor to accommodate other students without interrupting lab

**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:**

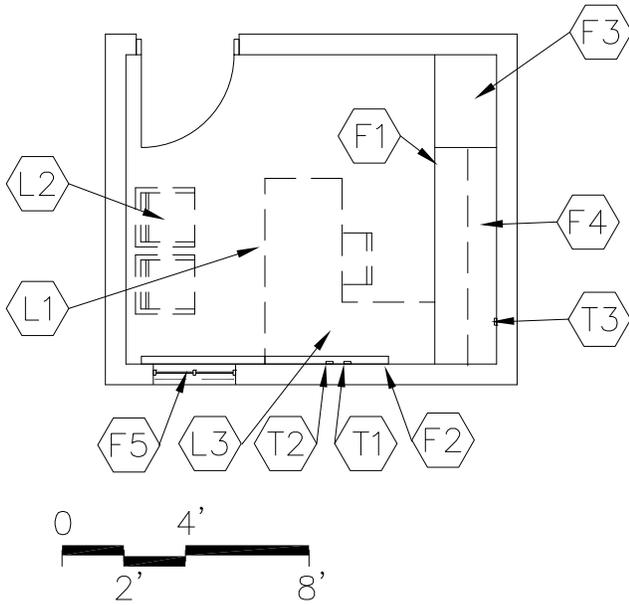
1. Loose furnishings shown represent one of many possible arrangements.
2. Depending upon the educational program of the district, a tall wardrobe may be placed in this classroom or could be placed in a teacher prep area/workroom.

**RELATED CLASSROOM  
CT-P7-2**
**CHAPTER 6: CAREER-TECHNICAL HIGH SCHOOL**

<u>FINISHES<sup>1</sup>:</u>	Spec. Ref.#	<u>FEATURES<sup>1</sup>:</u>	Spec. Ref.#
<u>Flooring:</u>		<u>Fixed Items:</u>	
Carpet or carpet tile	096816	<b>F1</b> Tall wardrobe with file drawers	123550
Optional: linoleum, ET, or sheet vinyl	096516 096500 096813	<b>F2</b> 20'-32' combination marker board, tack board and tackable wall surface	101100
<u>Base:</u>		<b>F3</b> 18'-24' combination base and wall cabinets	123550
Resilient base	096500	<b>F4</b> Pencil sharpener support (optional)	062000
<u>Ceiling:</u>		<b>F5</b> Windows with integral blinds	085113
Suspended, acoustical	095113	<b>F6</b> Projection screen (optional)	115213
<u>Walls:</u>		<b>F7</b> Technology support casework	123550
Painted concrete masonry units	042000/099100	<u>Fire Suppression:</u>	
		Fire suppression system	211000
		<u>Plumbing:</u>	
		N/A	
		<u>HVAC:</u>	
<u>LOOSE FURNISHINGS:</u>		Supply/return air system	Div. 23
L1 Student desks and chairs		Independent temperature control	230923
L2 Teacher desk or workstation/computer support and chair		<u>Electrical:</u>	
L3 File cabinet		Fluorescent lighting:	265100
L4 9' of low bookcases (fixed or mobile) 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 <b>projector</b> video port	271543
		T2 1 voice port and phone	271513/273123
		T3 1 data port near teacher workstation	271513
		T4 <b>Wireless access point cable above ceiling</b>	271513
<u>Miscellaneous:</u>		Clock	275313
Pencil sharpener ( <i>optional</i> )		Central sound system	275123
		Sound reinforcement system	275127
M1 Operable partitions between classrooms are optional	02226	T5 <b>Ultra-short throw interactive</b> projector	274119
<b>E1 Duplex receptacle with dedicated circuit for wireless devices</b>		T6 <b>Wireless access point (WAP) as determined by Design – refer to Note 4</b>	272133
		T7 <b>Classroom technology center video port</b>	271543, 274116, 274119, 275127
		<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. Where appropriate, some casework may be mobile to add flexibility and become part of the loose furnishings.
4. **Baseline includes WAP cable per classroom. WAP device quantity / placement per 272133 requirements.**



**PROGRAM ACTIVITIES:**

- Private space for program instructor
- One-on-one conferences with academic instructors, students, etc.

**SPATIAL RELATIONSHIPS:**

- Near related lab
- Direct access to school circulation areas

**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.

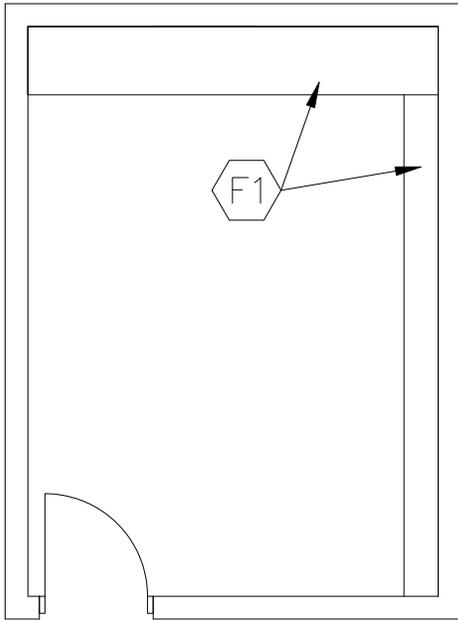
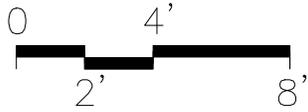
**OFFICE  
CT-P7-3**

## CHAPTER 6: CAREER-TECHNICAL SCHOOL

<u>FINISHES<sup>1</sup>:</u>	Spec. Ref.#	<u>FEATURES<sup>1</sup>:</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
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			
Wastebasket		<u>Electrical:</u>	
		Single level switching	262726
		Fluorescent lighting	265100
		Illumination level: See Table 8600-5	
		4 duplex receptacles	262726
		Double duplex receptacle adjacent	
		to data and video port	262726
		<u>Communications:</u>	
		T1 1 voice port and phone	271513/273123
		T2 1 data port near workstation	271513
		T3 1 <b>projector</b> video port	271543
		Central sound system	275123
		Clock	275313
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
		<u>Miscellaneous:</u>	
		N/A	

NOTES:

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



**PROGRAM ACTIVITIES:**

- Space for storage of lab equipment

**SPATIAL RELATIONSHIPS:**

- Near related lab

**ENVIRONMENTAL CONSIDERATIONS:**

N/A

CAPACITY:  
SIZE:

N/A  
200 SF

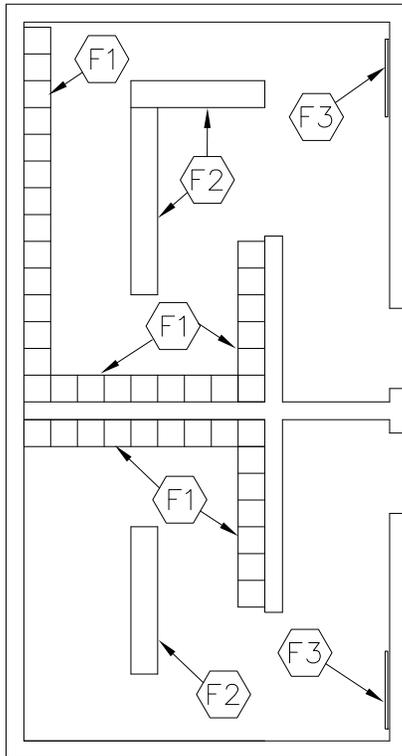
NOTES:

**STORAGE AREA  
CT-P7-4**
**CHAPTER 6: CAREER-TECHNICAL SCHOOL**

	Spec. Ref.#		Spec. Ref.#
<u>FINISHES<sup>1</sup>:</u>		<u>FEATURES<sup>1</sup>:</u>	
Flooring:		<u>Fixed Items<sup>1</sup>:</u>	
<b>Sealed</b> concrete	033000	F1 8'-20' of open shelving	
		Depth may vary (fixed or loose)	123550
Base:		<u>Fire Suppression:</u>	
Resilient base	096500	Fire suppression system	211000
Ceiling:		<u>Plumbing:</u>	
Exposed structure	---	N/A	
Walls:		<u>HVAC:</u>	
Painted concrete masonry units	042000/099100	To be determined by Design Professional	
		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 8600-5	
		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.



50 total lockers

CAPACITY: N/A  
 SIZE: 9 SF per student (see Note 2)

**PROGRAM ACTIVITIES:**

- Personal and health needs for the program Specific users.
- Changing of clothes and/or uniforms.
- Storage of personal items while students are in lab.

**SPATIAL RELATIONSHIPS:**

- Adjacent to related lab

**ENVIRONMENTAL CONSIDERATIONS:**

- Sanitary and durable finishes.
- Environmental sound control  
 Wall minimum STC 40  
 Ceiling minimum CAC 35, NRC 0.70

**NOTES:**

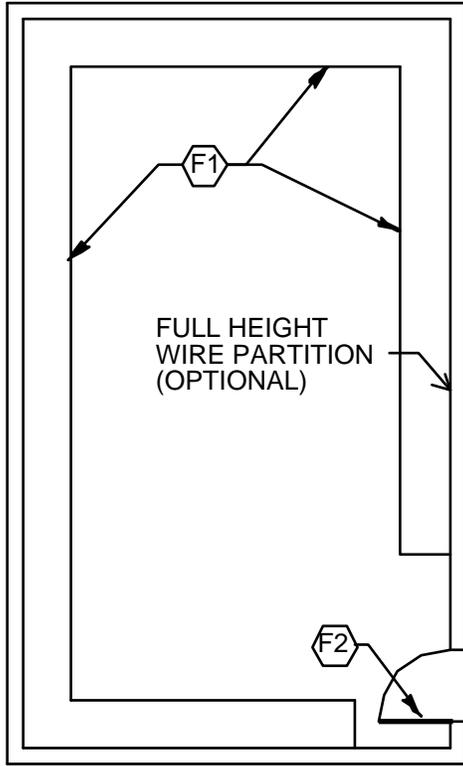
1. Large and small changing areas are interchangeable for either males or females. Determination based on male/female ratio within each program.
2. Student count determined by total number of approved program spaces Types 5, 6, and 7 times 30.

**CHANGING ROOM  
CT-P7-5**
**CHAPTER 6: CAREER-TECHNICAL SCHOOL**

<u>FINISHES<sup>1</sup>:</u>	Spec. Ref.#	<u>FEATURES<sup>1</sup>:</u>	Spec. Ref.#
<u>Flooring:</u>		<u>Fixed Items<sup>1</sup>:</u>	
Polished concrete finishing, or colored concrete finishing	033510 033519	F1 Student lockers	105113
Optional: linoleum or rubber	096500 096516	F2 Locker benches	062000
		F3 24" x 60" mirror	102813
<u>Base:</u>		<u>Fire Suppression:</u>	
Resilient base	096500	Fire suppression system	211000
<u>Ceiling:</u>		<u>Plumbing:</u>	
Suspended, acoustical with high impact hold down clips	095113	N/A	
<u>Walls:</u>		<u>HVAC:</u>	
Painted concrete masonry units	042000 / 099100	Supply/Return air system	Div. 23
		Exhaust air system	Div. 23
		Supplemental heat as required	Div. 23
		Individual temperature control	230923
<u>LOOSE FURNISHINGS</u>		<u>Electrical:</u>	
Wastebaskets		Single level switching	262726
		Fluorescent lighting	265100
		Illumination level: See Table 8600-6	
		2 Duplex receptacles	262726
		Means of egress lighting per code	265100
		<u>Communications:</u>	
		Clock	275313
		Central Sound System	275123
		<u>Electronic Safety and Security:</u>	
		Life safety devices per code	283111
		<u>Miscellaneous:</u>	
		N/A	

**NOTES:**

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



**PROGRAM ACTIVITIES:**

- Storage of program related tools and instruments.
- Storage of students' tools.

**SPATIAL RELATIONSHIPS:**

- Adjacent to related lab

**ENVIRONMENTAL CONSIDERATIONS:**

- Sanitary and durable finishes

CAPACITY:  
SIZE:  
ANCILLARY SPACES:

N/A  
550 SF

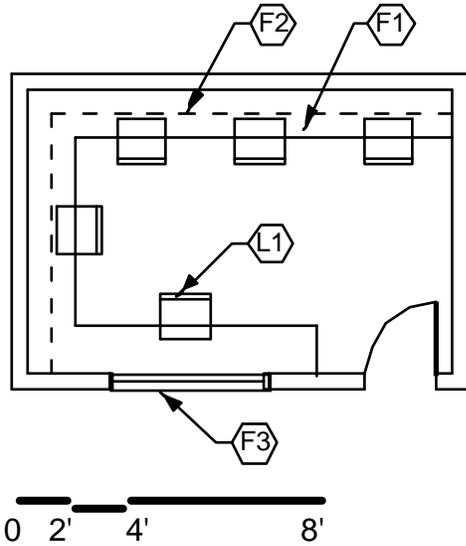
NOTES:

**TOOL CRIB**  
**CT-P7-6**
**CHAPTER 6: CAREER-TECHNICAL SCHOOL**

	Spec. Ref.#		Spec. Ref.#
<b><u>FINISHES</u><sup>1</sup>:</b>		<b><u>FEATURES</u><sup>1</sup>:</b>	
Flooring:		<b><u>Fixed Items</u><sup>1</sup>:</b>	
<b>Sealed</b> concrete	033000	F1 80' of open metal shelving (total),	
Optional: linoleum, or rubber	096500	Depth may vary (fixed or loose)	105613
	096516	F2 Dutch door	105613
Base:		<b><u>Fire Suppression:</u></b>	
Resilient base	096500	Fire suppression system	211000
Ceiling:		<b><u>Plumbing:</u></b>	
Suspended, acoustical	095113	N/A	
Walls:		<b><u>HVAC:</u></b>	
Painted concrete masonry units		Exhaust air system	Div. 23
	042000 / 099100	Supplemental heat as required	Div. 23
<b><u>LOOSE FURNISHINGS</u></b>		<b><u>Electrical:</u></b>	
N/A		Single level switching	262726
		Fluorescent lighting	265100
		Illumination level: See Table 8600-5	
		4 Duplex receptacles	262726
		<b><u>Communications:</u></b>	
		N/A	
		<b><u>Electronic Safety and Security:</u></b>	
		Life safety devices per code	283111
		<b><u>Miscellaneous:</u></b>	
		N/A	

**NOTES:**

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



PROGRAM ACTIVITIES:

- Individual computer research.
- Reference program specific manuals.
- Small group meetings.

SPATIAL RELATIONSHIPS:

- Adjacent to related lab

ENVIRONMENTAL CONSIDERATIONS:

- Sanitary and durable finishes
- Environmental sound control
  - Wall **only** minimum STC **45**
  - Ceiling minimum CAC 35, NRC 0.70

CAPACITY:  
SIZE:

N/A  
200 SF

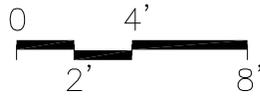
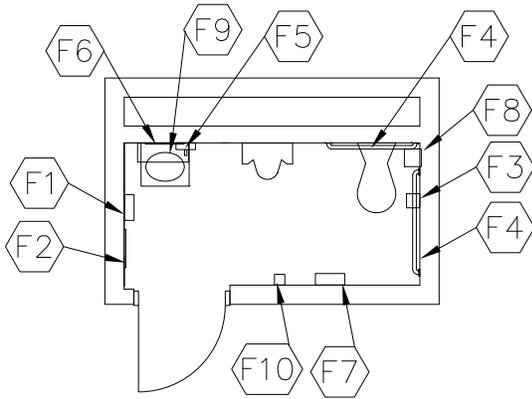
NOTES:

**REFERENCE ROOM  
CT-P7-7**
**CHAPTER 6: CAREER-TECHNICAL SCHOOL**

	Spec. Ref.#		Spec. Ref.#
<b><u>FINISHES<sup>1</sup>:</u></b>		<b><u>FEATURES<sup>1</sup>:</u></b>	
Flooring:		<b><u>Fixed Items:</u></b>	
<b>Sealed</b> concrete	033000	F1 34' of plastic lam. counter	062000
Optional: rubber	096500	F2 27' of adjustable shelving	062000
Base:		F3 Interior window	081113/ 088000
Resilient base	096500	<b><u>Fire Suppression:</u></b>	
Ceiling:		Fire suppression system	211000
Suspended, acoustical	095113	<b><u>Plumbing:</u></b>	
Walls:		N/A	
Painted concrete masonry units	042000 / 099100	<b><u>HVAC:</u></b>	
<b><u>LOOSE FURNISHINGS</u></b>		Supply/return air system	Div. 23
L3 Student chairs		Exhaust air system	Div. 23
Wastebasket		Supplemental heat as required	Div. 23
		<b><u>Electrical:</u></b>	
		Single level switching	262726
		Fluorescent lighting	265100
		Illumination level: See Table 8600-5	
		2 Duplex receptacles	262726
		Duplex receptacle adjacent to	
		Each data and video port	262726
		<b><u>Communications:</u></b>	
		T1 6 data ports	271513
		<b><u>Electronic Safety and Security:</u></b>	
		Life safety devices per code	283111
		<b><u>Miscellaneous:</u></b>	
		N/A	

**NOTES:**

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



**PROGRAM ACTIVITIES:**

- Personal and health needs for the program
- Specific users
- Changing of clothes and/or uniforms.

**SPATIAL RELATIONSHIPS:**

- Adjacent to related lab

**ENVIRONMENTAL CONSIDERATIONS:**

- Sanitary and durable finishes.
- Environmental sound control  
 Wall minimum STC 48  
 Ceiling minimum CAC 35, NRC 0.70

CAPACITY:  
SIZE:

N/A  
68 SF

NOTES:

**TOILET ROOM  
CT-P7-8**
**CHAPTER 6: CAREER-TECHNICAL SCHOOL**

	Spec. Ref.#		Spec. Ref.#
<b><u>FINISHES<sup>1</sup>:</u></b>		<b><u>FEATURES<sup>1</sup>:</u></b>	
Flooring:		<b><u>Fixed Items:</u></b>	
<b>Sealed concrete</b>	<b>093000</b>	F1 Towel dispenser	102813
Optional: Rubber	096500	F2 24" x 60" mirror	102813
Base:		F3 Toilet tissue holder	102813
Resilient base	096500	F4 36" and 42" grab bars	102813
Ceiling:		F5 Soap dispenser	102813
Suspended, acoustical	095113	F6 16" x 24" mirror	102813
Walls:		F7 Sanitary product dispenser	102813
Painted concrete masonry units		F8 Sanitary product receptacle	102813
	042000 / 099100	F9 Stainless steel shelf (optional)	102813
		F10 Coat hook	102813
<b><u>LOOSE FURNISHINGS</u></b>		<b><u>Fire Suppression:</u></b>	
Wastebaskets		Fire suppression system	211000
		<b><u>Plumbing:</u></b>	
		Plumbing connections	221116/221119/224000
		<b><u>HVAC:</u></b>	
		Supply/return air system	Div. 23
		Exhaust air system	Div. 23
		Supplemental heat as required	Div. 23
		Individual temperature control	230923
		<b><u>Electrical:</u></b>	
		Single level switching	262726
		Fluorescent lighting	265100
		Illumination level: See Table 8600-5	
		2 Duplex receptacles	262726
		Means of egress lighting per code	265100
		<b><u>Communications:</u></b>	
		Clock	275313
		<b><u>Electronic Safety and Security:</u></b>	
		Life safety devices per code	283111
		<b><u>Miscellaneous:</u></b>	
		N/A	

**NOTES:**

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