



**US Army Corps of Engineers**  
**Engineering and Support Center, Huntsville**

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## STANDARD DESIGN CRITERIA FIRE STATIONS

ONE COMPANY HQ	22 MIN
ONE COMPANY SATELLITE	12 MIN
TWO COMPANY HQ	33 MIN
TWO COMPANY, TWO STORY HQ	33 MIN
TWO COMPANY SATELLITE	22 MIN
THREE COMPANY HQ	44 MIN
THREE COMPANY, TWO STORY HQ	44 MIN
THREE COMPANY SATELLITE	32 MIN

## ROOM BY ROOM DESCRIPTIONS

April 2010

**Standard Design Criteria  
Fire Stations**

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## Standard Design Criteria

### Fire Stations

#### 1. General Requirements:

- The Fire Stations shall be of commercial construction standards.
- The Fire Stations are comprised of three main essential elements: Apparatus Equipment & Maintenance, Administrative & Training, and Living Areas.
- All Fire Stations will have either the Fire Extinguisher Inspection (Non Flight Line/ Flight Line) Room, Clean-Up Room, or PPE Gear Storage Room based on Installation requirements. If a PPE Gear Storage Room is required, the air quality requirements for PPE storage in the Apparatus Bay will no longer be applicable.
- All Fire Station facilities shall be protected by an automatic fires suppression system and full detection system. Provide carbon monoxide (CO) detection in all sleeping and living areas defined as the individual dorm rooms, the dorm room access hallway(s), and the entire day/training room. Activation of detectors shall sound a local alarm. If monitored by the building fire alarm system, CO detectors shall be monitored as a non-latching supervisory alarm initiating device. Activation of CO detectors shall not sound a general building alarm. Provide fire alarm system smoke detectors in the individual dorm rooms and the dorm room access hallway(s) only. Do not provide detection in the apparatus bay or other areas where exhaust fumes may be present. Activation of smoke detectors shall sound a general building fire alarm.
- Walls separating the living and administrative portions of the building from the apparatus bay and maintenance spaces shall be completely sealed to prevent passage of exhaust emissions and the resulting exposure to building occupants and contamination of spaces.
- Provide simultaneous light and audible control for the following spaces when the firefighter alert system is activated: To the outside, Dorm Room dedicated alert lights, corridor lights from Dorm Rooms to the Apparatus Bay, and the Apparatus Bay lights.
- Unless noted otherwise in this document, all ceiling heights shall be a nominal 8'-0". ]
- Unless noted otherwise in this document, interior walls between rooms shall be provided with acoustical batt insulation or other approved system, to obtain an STC rating of at least 40. CAC shall be a minimum of 38.
- Provide steel doors with vision panels except at storage, janitorial, dorm, electrical/mechanical and toilet areas.
- Where exterior windows are provided the following requirements shall be met. Shall comply with ATFP requirements. Salient characteristics include easy to clean and able to withstand continuous use. Individual windows shall be operable and screens shall be provided.
- All interior glass shall be tempered safety glass and mirrors must be constructed with break-resistant materials.
- Mounting height of all electrical outlets will be in accordance with industry standards.
- Unless noted otherwise in this document, all interior flooring material shall be resilient.

## **Standard Design Criteria**

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- In storage rooms where shelves are provided, interior shall be marked with a red line 1 inch in width and located 18 inches below the lowest point of the sprinkler head.
- All caulking used inside the building shall be USDA or NSF approved caulking.
- GFCI outlets shall be installed per electrical code.
- Provide 100% capacity emergency generator back-up power for all Fire Stations.
- Provide mass notification system in accordance with UFC 4-021-01.
- Drive through bays shall be utilized.
- Provide site entrances, exits, service drives and any special circulation areas sized to accommodate the largest vehicle that uses the area. The service drive shall have a controlled access point.
- Based on the electrical design and mechanical/electrical loads, additional electrical room may be added near the apparatus bay and/or second floor. It is the electrical designer responsibility to coordinate with the architectural designer to accommodate additional electrical room square footage requirements and location.

## Standard Design Criteria Fire Stations

### 2. SPACE: Apparatus Bay

- **FUNCTIONAL DESCRIPTION:** The Apparatus Bays house the fire fighting and emergency response vehicles. All bays must accommodate the latest and largest structural and ARFF vehicles. Each bay of the Apparatus Room must include the required support utilities (drops) for vehicles such as exhaust, compressed air, hot and cold water, lighting, and power. Clear spans are preferred for the Apparatus Bays.
- **ADJACENCIES:** Located at the end of Fire Station structure for future expansion. Adjacent to and direct access from Apparatus Bay Support areas and corridor access from Administrative and Living areas.
- **OCCUPANTS:** Fire Station users and Fire fighting and emergency response vehicles storage.
- **MINIMUM AREA:**
  - A Standard Structural Apparatus for a One-Company Fire Station shall be 45 ft. Wide X 91 ft. long (4,095 SF) net.
  - A Standard ARFF Apparatus for a One-Company Fire Station shall be 50 ft. Wide X 91 ft. long (4,550 SF) net.
  - A Standard Structural Apparatus for a Two and Three-Company Fire Station shall be 62 ft. Wide X 91 ft. long (5,642 SF) net.
  - A Standard ARFF Apparatus for a Two and Three-Company Fire Station shall be 70 ft. Wide X 91 ft. long (6,370 SF) net.
  - An additional Structural bay shall be 17 ft. Wide X 91 ft. Length (1,547 SF) net.
  - An additional Structural bay shall be 20 ft. Wide X 91 ft. Length (1,820 SF) net.
- **CEILING HEIGHT:** 16 ft. minimum.
- **MINIMUM FLOOR and BASE CONSTRUCTION/SURFACE PERFORMANCE:** Provide a sealed concrete surface. A non-skid, low-maintenance traffic coating may also be acceptable. Slope floor to trench drains. A base material, appropriate for the flooring material used, is required. Salient characteristics include easy to clean, durable (able to withstand wet conditions, dirty conditions, and be petroleum resistant), easily repairable, easy to maintain, and slip resistant.
- **MINIMUM WALL CONSTRUCTION/SURFACE PERFORMANCE:** Concrete masonry units (CMU). Provide epoxy paints on all wall surfaces. Salient characteristics include durable and easy to clean, repairable, and easy to maintain.
- **MINIMUM CEILING CONSTRUCTION/SURFACE PERFORMANCE:** Ceiling not required; however, consider finishing exposed structure. Coordinate mechanical, electrical and plumbing components. None of the ceiling components can be located below minimum ceiling height.
- **DOORS/FRAME:** Salient characteristics include easy to clean, easy to maintain and repair, and compliance to building codes. Doors, frames, and hardware shall be able to withstand constant opening and closing. Shall be fitted with a locking mechanism and lever type handle that allows the door to be opened from the inside while locked. Doors shall be provided with self-closing device and vision panel.

## Standard Design Criteria

### Fire Stations

- **PLUMBING:** Provide minimum 3-in. diameter water service with 2.5-in. diameter National Standard Threads ball-valve outlets, one (1) at the front of each bay and one (1) at the rear of each bay. Provide an emergency eye wash fountain and shower. Provide foot-operated mop sink with mop hanging rack. Provide connection for ice machine. Provide standard cold water hose bibb for every two truck bays. Provide floor trench drains to accommodate all vehicles. All apparatus room drains should connect to an approved oil/water separator prior to discharge. If an exterior wash area is provided, size the separator for the total volume and connect the exterior drain to this separator.
- **HVAC:** The Apparatus Bay is typically heated. Maintain 55 F (13 C) minimum temperature except in areas with very mild winter conditions. Determine exceptions on a case-by-case basis based on climatic conditions. The Apparatus Bay will not be air conditioned except through waiver process. In addition to climatic conditions, consider the energy costs and sustainability impacts.

A complete Apparatus Bay Air Cleaning System shall be utilized consisting of exhaust filtration for apparatus and for off-gassing from PPE. A hose based Fire Apparatus Vehicle Exhaust Removal System (FAVERS) system may be used in conjunction with the filtration system.

A Fire Apparatus Vehicle Exhaust Removal System (FAVERS) in compliance with NFPA 1500 to eliminate 100% of vehicle exhaust emissions. A direct vent system that evacuates vehicle exhaust directly to the outside is the preferred FAVERS. Makeup air should be distributed so as to minimize drafts and be introduced above apparatus level since diesel exhaust is heavier than air. In this way, the make-up air flow downward will assist in pushing the exhaust fumes out the Apparatus bay doors when open.

Provide compressed air system on self-retracting lines at each vehicle bay. Consider providing a floor radiant heating element at each bay door in colder climates to prevent the door from freezing to the pavement.

- **FIRE PROTECTION:** Provide per current codes.
- **ELECTRICAL:** Provide outlets per current codes. Locate all outlets at 36 in. above finished floor. Provide self-retracting electric drop cords between vehicles that can reach to either end of the bay. Provide backup power sized to provide full unobstructed operation capability of the apparatus bays. Provide power to each retractable bay door.
- **LIGHTING:** Provide per current codes. Provide energy efficient lighting with instant-start feature. Provide doors with a signaling system to indicate fully raised doors. A red/green indicator should be located on the driver's side at 72 in. above finished floor.
- **COMMUNICATION:**
  - CCTV. None required.
  - CATV/Internal Video. None required.
  - PA/Audio. Provide speakers and horns with visual element.
  - Telephone. Provide one line with internal two-way communication.
  - Data. Provide data drops as required by equipment.
  - Security. None required.
- **ACOUSTICS:** None

## Standard Design Criteria Fire Stations

- **CASEWORKS/BUILT-IN EQUIPMENT:** None
- **SPECIAL REQUIREMENTS:**  
For Structural bays provide 14 ft. by 14 ft. apparatus bay doors with electric eye and/or automatic reverse device. For ARFF bays provide 18 ft. by 18 ft. doors as recommended by NFPA 403. Even if ARFF vehicles are only intended to be housed on one side of a double bay, provide the 18 ft. by 18 ft. doors on both sides to permit drive through and to allow flexibility of use. Provide manual means to open doors in case of power failure. If solid door panels are used, provide insulated doors. Consider providing doors with radio operated closing devices that can be activated from the vehicle.

Ensure both the internal floor slope and the approach drive slope allow the fire protection vehicles to transition into and out of the Apparatus Bay without bottoming out or without impeding driver sightlines.

## Standard Design Criteria

### Fire Stations

#### 3. **SPACE: Station Captain's Suite** (Headquarters Fire Stations only).

- **FUNCTIONAL DESCRIPTION:** This area includes a typical office space and workstation. An adjacent private bedroom should be directly accessible from the Fire Chief's Office.
- **ADJACENCIES:** Shall be accessible from the Apparatus Bay and an observation window shall be provided to the Apparatus Bay. Shall be adjacent to the Assistant Chief/Shift Supervisor's Suite. The private bedroom shall have direct access to the Assistant Chief/Shift Supervisor's private toilet.
- **OCCUPANTS:** Station Captain.
- **MINIMUM AREA:**  
Station Captain's Suite: 120 SF, Net.  
Private Dorm Room: 85 SF, Net.
- **CEILING HEIGHT:** 8 ft. minimum.
- **MINIMUM FLOOR and BASE CONSTRUCTION/SURFACE PERFORMANCE:** Salient characteristics include durable and easy to clean, repairable, and easy to maintain. A base material, appropriate for the flooring material used, is required.
- **MINIMUM WALL CONSTRUCTION/SURFACE PERFORMANCE:** Concrete masonry units (CMU) at shared walls with Apparatus Equipment & Maintenance areas. GWB is an allowable material, including a furred application attached to the CMU walls. Provide a low-maintenance finish such as egg-shell latex paint. Salient characteristics include durable and easy to clean, repairable, and easy to maintain.
- **MINIMUM CEILING CONSTRUCTION/SURFACE PERFORMANCE:** Salient characteristics include ease of accessibility to mechanical system above ceiling, durable, and shall provide an aesthetically pleasing surface, free of sags or other defects.
- **DOORS/FRAME:** Salient characteristics include durability. Doors, frames, and hardware shall be able to withstand constant opening and closing. Shall be fitted with a locking mechanism and lever type handle that allows the door to be opened from the inside while locked. Doors shall be provided with self-closing device and the office door with a vision panel.
- **OBSERVATION WINDOW/FRAME:** Salient characteristics include durability. Glass shall be tinted for privacy.
- **PLUMBING:** None.
- **HVAC:** Provide independent thermostat.
- **FIRE PROTECTION:** Provide per current codes. Provide smoke and CO detectors.
- **ELECTRICAL:** Provide outlets per current codes. Multiple electrical and data outlets to be provided to accommodate computers and other office equipment.

## Standard Design Criteria Fire Stations

- **LIGHTING:** Provide per current codes. Provide residential-style fixtures and task lighting at individual desks. In addition to the ambient and task lighting fixtures, provide a dedicated alert light fixture that is controllable from the Watch Desk/Dispatch and tied into the firefighting alert system with a red-tinted bulb or lens.
- **COMMUNICATION:**
  - CCTV. None required.
  - CATV/Internal Video. Provide one outlet in the office area and one outlet in the bedroom area.
  - PA/Audio. Provide speaker.
  - Telephone. Provide one line with internal two-way communication.
  - Data. Provide data drops as required by equipment.
  - Security. None required.
- **ACOUSTICS:** Provide partition and door construction with a minimum STC rating of 52.
- **CASEWORKS/BUILT-IN EQUIPMENT:** None.
- **SPECIAL REQUIREMENTS:** The Station Captain's Suite will be located off of the Apparatus Bay. Walls shared with the Administrative & Training areas are allowed to be of materials other than CMU.

## Standard Design Criteria

### Fire Stations

#### 4. **SPACE: Personal Protection Equipment (PPE) Gear Storage**

- **FUNCTIONAL DESCRIPTION:** This area provides storage for the firefighters' protective gear. A well-ventilated locker is assigned to each member of the firefighting crew. Sufficient floor area in front of each locker is required for easy access during emergencies.
- **ADJACENCIES:** Located along the side walls of the Apparatus Bay. Should be directly accessible from the Apparatus Bay if required to be a room.
- **OCCUPANTS:** Fire Station Staff
- **MINIMUM AREA:** Room: 160 SF, Net. If part of Apparatus Bay, area is included in the Apparatus Bay net area.
- **CEILING HEIGHT:** 8 ft. minimum. If part of Apparatus Bay, shall meet the Apparatus Bay ceiling requirements.
- **MINIMUM FLOOR and BASE CONSTRUCTION/SURFACE PERFORMANCE:** Provide a sealed concrete surface sloped to drain. A non-skid, low-maintenance traffic coating may also be acceptable. A base material, appropriate for the flooring material used, is required. Salient characteristics include easy to clean, durable (able to withstand wet and dirty conditions), easily repairable, easy to maintain, and slip resistant.
- **MINIMUM WALL CONSTRUCTION/SURFACE PERFORMANCE:** Concrete masonry units (CMU). Provide epoxy paints or industrial latex on all wall surfaces. Salient characteristics include durable and easy to clean, repairable, and easy to maintain.
- **MINIMUM CEILING CONSTRUCTION/SURFACE PERFORMANCE:** Provide acoustical ceiling panel (ACP) or gypsum wall board (GWB) ceiling with industrial latex or epoxy paint. Salient characteristics include durable and shall provide an aesthetically pleasing surface, free of sags or other defects. If part of Apparatus Bay, shall meet the Apparatus Bay ceiling requirements.
- **DOORS/FRAME:** Salient characteristics include easy to clean, easy to maintain and repair, and compliance to building codes. Doors, frames, and hardware shall be able to withstand constant opening and closing. Doors shall be provided with self-closing device and vision panel.
- **PLUMBING:** A floor drain is required in this area that shall be self priming, or designed to prevent sewer gases from entering the occupied space by a proven and maintenance-free design. If part of Apparatus Bay, provide hose bib.
- **HVAC:** The area shall be kept under constant negative pressure to evacuate gaseous emissions from stored gear to the outside or filtration equipment that is designed to filter and remove gaseous emissions from PPE shall be provided. If part of Apparatus Bay, the area shall have an air quality system to filter and remove gaseous emissions from stored gear.
- **FIRE PROTECTION:** Provide per current codes.

## Standard Design Criteria Fire Stations

- **ELECTRICAL:** Provide outlets per current codes.
- **LIGHTING:** Provide per current codes. Provide 50 ft. candles (540 Lux) with fluorescent energy efficient light fixtures.
- **COMMUNICATION:**
  - CCTV. None required.
  - CATV/Internal Video. None required.
  - PA/Audio. Provide speakers and horns with visual element.
  - Telephone. None required.
  - Data. None required.
  - Security. None required.
- **ACOUSTICS:** None.
- **CASEWORKS/BUILT-IN EQUIPMENT:** None.
- **SPECIAL REQUIREMENTS:** Locker layout should permit free air circulation around and throughout clothing.

## Standard Design Criteria Fire Stations

### 5. SPACE: Hose Storage

- **FUNCTIONAL DESCRIPTION:** This area provides for storage of hoses. Hoses are rolled and stored on mobile storage racks.
- **ADJACENCIES:** Located along the side walls of the Apparatus Bay.
- **OCCUPANTS:** Fire Station Staff
- **MINIMUM AREA:** Area is included in the Apparatus Bay net area.
- **CEILING HEIGHT:** Shall meet the Apparatus Bay ceiling requirements.
- **MINIMUM FLOOR and BASE CONSTRUCTION/SURFACE PERFORMANCE:** Provide a sealed concrete surface sloped to drain. A non-skid, low-maintenance traffic coating may also be acceptable. A base material, appropriate for the flooring material used, is required. Salient characteristics include easy to clean, durable (able to withstand wet and dirty conditions), easily repairable, easy to maintain, and slip resistant.
- **MINIMUM WALL CONSTRUCTION/SURFACE PERFORMANCE:** Concrete masonry units (CMU). Provide epoxy paints or industrial latex on all wall surfaces. Salient characteristics include durable and easy to clean, repairable, and easy to maintain.
- **MINIMUM CEILING CONSTRUCTION/SURFACE PERFORMANCE:** Shall meet the Apparatus Bay ceiling requirements.
- **DOORS/FRAME:** None
- **PLUMBING:** A floor drain is required in this area that shall be self priming, or designed to prevent sewer gases from entering the occupied space by a proven and maintenance-free design. Provide hose bib.
- **HVAC:** Ensure space is well ventilated.
- **FIRE PROTECTION:** Provide per current codes.
- **ELECTRICAL:** Provide outlets per current codes. Dedicated outlets required to support drying equipment (if provided).
- **LIGHTING:** Provide per current codes. Provide 50 ft. candles (540 Lux) with fluorescent energy efficient light fixtures.
- **COMMUNICATION:**
  - CCTV. None required.
  - CATV/Internal Video. None required.
  - PA/Audio. Provide a speaker.
  - Telephone. None required.
  - Data. None required.
  - Security. None required.
- **ACOUSTICS:** None.

## Standard Design Criteria Fire Stations

- **CASEWORKS/BUILT-IN EQUIPMENT:** Consider providing hose drying oven in areas where required by climatic conditions.
- **SPECIAL REQUIREMENTS:** Layout should permit free air circulation around the hoses.

## Standard Design Criteria

### Fire Stations

#### 6. SPACE: SCBA Maintenance Room

- **FUNCTIONAL DESCRIPTION:** The Self-Contained Breathing Apparatus (SCBA) Maintenance Room is used for the maintenance and minor repair of the SCBA equipment. It includes a work bench, ample task lighting, and shelving for storage of parts and equipment. The room also contains a Mask Pressure Testing Machine.
- **ADJACENCIES:** Accessible from Apparatus Bay and shall have direct access to the SCBA Compressor Room.
- **OCCUPANTS:** Fire Station Staff
- **MINIMUM AREA:** 144 SF, Net.
- **CEILING HEIGHT:** 8 ft. minimum.
- **MINIMUM FLOOR and BASE CONSTRUCTION/SURFACE PERFORMANCE:** Provide a sealed concrete surface sloped to drain. A non-skid, low-maintenance traffic coating may also be acceptable. A base material, appropriate for the flooring material used, is required. Salient characteristics include easy to clean, durable (able to withstand wet and dirty conditions), easily repairable, easy to maintain, and slip resistant.
- **MINIMUM WALL CONSTRUCTION/SURFACE PERFORMANCE:** Concrete masonry units (CMU). Provide epoxy paints or industrial latex on all wall surfaces. Salient characteristics include durable and easy to clean, repairable, and easy to maintain.
- **MINIMUM CEILING CONSTRUCTION/SURFACE PERFORMANCE:** Provide acoustical ceiling panel (ACP) or gypsum wall board (GWB) ceiling with industrial latex or epoxy paint. Salient characteristics include durable and shall provide an aesthetically pleasing surface, free of sags or other defects.
- **DOORS/FRAME:** Salient characteristics include easy to clean, easy to maintain and repair, and compliance to building codes. Doors, frames, and hardware shall be able to withstand constant opening and closing. Shall be fitted with a locking mechanism and lever type handle that allows the door to be opened from the inside while locked. Doors shall be provided with self-closing device and vision panel.
- **PLUMBING:** A floor drain for condensate is required in this area that shall be self priming, or designed to prevent sewer gases from entering the occupied space by a proven and maintenance-free design.
- **HVAC:** The area shall be kept under constant negative pressure to evacuate gaseous emissions from stored gear to the outside or filtration equipment that is designed to filter and remove gaseous emissions from equipment shall be provided. Provide any additional ventilation requirements for compressor equipment.
- **FIRE PROTECTION:** Provide per current codes.
- **ELECTRICAL:** Provide outlets per current codes. Provide additional outlets and power as required by equipment.

## Standard Design Criteria Fire Stations

- **LIGHTING:** Provide per current codes. Provide 50 ft. candles (540 Lux) with fluorescent energy efficient light fixtures. Provide task lighting for the work/service bench.
- **COMMUNICATION:**
  - CCTV. None required.
  - CATV/Internal Video. None required.
  - PA/Audio. Provide a speaker.
  - Telephone. Provide one line with internal two-way communication.
  - Data. Provide data drops as required by equipment.
  - Security. None required.
- **ACOUSTICS:** Provide partition and door construction with a minimum STC rating of 52.
- **CASEWORKS/BUILT-IN EQUIPMENT:** Provide equipment safety cage and storage shelving.
- **SPECIAL REQUIREMENTS:** None.

## Standard Design Criteria

### Fire Stations

#### 7. SPACE: SCBA Compressor Room

- **FUNCTIONAL DESCRIPTION:** The Self-Contained Breathing Apparatus (SCBA) Compressor Room houses the main compressor unit used to charge the apparatus with filtered air.
- **ADJACENCIES:** Provide direct access to the SCBA Maintenance Room.
- **OCCUPANTS:** Fire Station Staff
- **MINIMUM AREA:** 50 SF, Net.
- **CEILING HEIGHT:** 8 ft. minimum.
- **MINIMUM FLOOR and BASE CONSTRUCTION/SURFACE PERFORMANCE:** Provide a sealed concrete surface sloped to drain. A non-skid, low-maintenance traffic coating may also be acceptable. A base material, appropriate for the flooring material used, is required. Salient characteristics include easy to clean, durable (able to withstand wet and dirty conditions), easily repairable, easy to maintain, and slip resistant.
- **MINIMUM WALL CONSTRUCTION/SURFACE PERFORMANCE:** Concrete masonry units (CMU). Provide epoxy paints or industrial latex on all wall surfaces. Salient characteristics include durable and easy to clean, repairable, and easy to maintain.
- **MINIMUM CEILING CONSTRUCTION/SURFACE PERFORMANCE:** Provide acoustical ceiling panel (ACP) or gypsum wall board (GWB) ceiling with industrial latex or epoxy paint. Salient characteristics include durable and shall provide an aesthetically pleasing surface, free of sags or other defects.
- **DOORS/FRAME:** Salient characteristics include easy to clean, easy to maintain and repair, and compliance to building codes. Doors, frames, and hardware shall be able to withstand constant opening and closing. Doors shall be provided with self-closing device and vision panel.
- **PLUMBING:** Provide compressed air lines to Apparatus Bay and SCBA Maintenance Room. A floor drain for condensate is required in this area that shall be self priming, or designed to prevent sewer gases from entering the occupied space by a proven and maintenance-free design.
- **HVAC:** The area shall be kept under constant negative pressure to evacuate gaseous emissions from stored gear to the outside or filtration equipment that is designed to filter and remove gaseous emissions from equipment shall be provided. Provide any additional ventilation requirements for compressor equipment.
- **FIRE PROTECTION:** Provide per current codes.
- **ELECTRICAL:** Provide outlets per current codes. Provide additional outlets and power as required by equipment.
- **LIGHTING:** Provide per current codes. Provide 50 ft. candles (540 Lux) with fluorescent energy efficient light fixtures.

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- **COMMUNICATION:**
  - CCTV. None required.
  - CATV/Internal Video. None required.
  - PA/Audio. Provide a speaker.
  - Telephone. None required.
  - Data. None required.
  - Security. None required.
- **ACOUSTICS:** Provide partition and door construction with a minimum STC rating of 52.
- **CASEWORKS/BUILT-IN EQUIPMENT:** None
- **SPECIAL REQUIREMENTS:** Provide double door access for installation of the main compressor unit to the exterior.

## Standard Design Criteria

### Fire Stations

#### 8. SPACE: Protective Clothing Laundry

- **FUNCTIONAL DESCRIPTION:** Utilized to wash and disinfect firefighters' protective clothing/gear. The room should accommodate large commercial-grade washers and dryers and a drip-dry rack.
- **ADJACENCIES:** Provide direct access through the Apparatus Bay to the exterior. If a Clean-Up Room is provided, the Protective Clothing Laundry Room shall be adjacent to the Clean-Up room and a service window provided.
- **OCCUPANTS:** Fire Station Staff
- **MINIMUM AREA:** One-Company: 100 SF, Net. Two-Company: 180 SF, Net. Three-Company: 150 SF, Net.
- **CEILING HEIGHT:** 8 ft. minimum.
- **MINIMUM FLOOR and BASE CONSTRUCTION/SURFACE PERFORMANCE:** Provide a sealed concrete surface sloped to drain. A non-skid, low-maintenance traffic coating may also be acceptable. A base material, appropriate for the flooring material used, is required. Salient characteristics include easy to clean, durable (able to withstand wet conditions, dirty conditions, and spills related to the chemicals within), easily repairable, easy to maintain, and slip resistant.
- **MINIMUM WALL CONSTRUCTION/SURFACE PERFORMANCE:** Concrete masonry units (CMU). Provide epoxy paints or industrial latex on all wall surfaces. Salient characteristics include durable and easy to clean, repairable, and easy to maintain.
- **MINIMUM CEILING CONSTRUCTION/SURFACE PERFORMANCE:** Provide moisture resistant acoustical ceiling panel (ACP) or gypsum wall board (GWB) ceiling with industrial latex or epoxy paint. Salient characteristics include durable and shall provide an aesthetically pleasing surface, free of sags or other defects.
- **DOORS/FRAME:** If doors are provided, salient characteristics include easy to clean, easy to maintain and repair, and compliance to building codes. Doors, frames, and hardware shall be able to withstand constant opening and closing. Doors shall be provided with self-closing device and vision panel.
- **SERVICE WINDOW/FRAME:** Salient characteristics include durability. Only if Clean-Up Room is required in the Fire Station.
- **PLUMBING:** Provide water supply and drain to each washer. A floor drain is required in this area that shall be self priming, or designed to prevent sewer gases from entering the occupied space by a proven and maintenance-free design.
- **HVAC:** The area shall be kept under constant negative pressure to evacuate gaseous emissions from stored gear to the outside or filtration equipment that is designed to filter and remove gaseous emissions from equipment shall be provided.
- **FIRE PROTECTION:** Provide per current codes.

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- **ELECTRICAL:** Provide outlets per current codes. Provide additional outlets and power as required by equipment.
- **LIGHTING:** Provide per current codes. Provide 50 ft. candles (540 Lux) with fluorescent energy efficient light fixtures.
- **COMMUNICATION:**
  - CCTV. None required.
  - CATV/Internal Video. None required.
  - PA/Audio. Provide a speaker.
  - Telephone. None required.
  - Data. None required.
  - Security. None required.
- **ACOUSTICS:** Provide partition and door construction with a minimum STC rating of 52.
- **CASEWORKS/BUILT-IN EQUIPMENT:** None
- **SPECIAL REQUIREMENTS:** None.

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### Fire Stations

#### 9. **SPACE: Equipment Wash/Disinfection**

- **FUNCTIONAL DESCRIPTION:** Utilized to clean and disinfect firefighters' protective clothing/gear and equipment when fire trucks return from a fire or other event. It includes a wash-off area where incoming equipment can be washed, desalinated, and dried.
- **ADJACENCIES:** Shall be adjacent to the Work Room/Equipment Maintenance Room and have access from the Apparatus Bay.
- **OCCUPANTS:** Fire Station Staff
- **MINIMUM AREA:** 150 SF, Net.
- **CEILING HEIGHT:** 8 ft. minimum.
- **MINIMUM FLOOR and BASE CONSTRUCTION/SURFACE PERFORMANCE:** Provide a sealed concrete surface sloped to drain. A non-skid, low-maintenance traffic coating may also be acceptable. A base material, appropriate for the flooring material used, is required. Salient characteristics include easy to clean, durable (able to withstand wet conditions, dirty conditions, and spills related to the chemicals within), easily repairable, easy to maintain, and slip resistant.
- **MINIMUM WALL CONSTRUCTION/SURFACE PERFORMANCE:** Concrete masonry units (CMU). Provide epoxy paints or industrial latex on all wall surfaces. Shall use stainless steel wainscot in wash area. Salient characteristics include durable and easy to clean, repairable, and easy to maintain.
- **MINIMUM CEILING CONSTRUCTION/SURFACE PERFORMANCE:** Provide moisture resistant acoustical ceiling panel (ACP) or moisture resistant gypsum wall board (GWB) ceiling with industrial latex or epoxy paint. Salient characteristics include durable and shall provide an aesthetically pleasing surface, free of sags or other defects.
- **DOORS/FRAME:** If doors are provided, salient characteristics include easy to clean, easy to maintain and repair, and compliance to building codes. Doors, frames, and hardware shall be able to withstand constant opening and closing. Doors shall be provided with self-closing device and vision panel.
- **PLUMBING:** Provide floor mop sink, with hose and spray nozzle. Provide a minimum three-compartment stainless steel sink and a drip dryer rack. Provide an oil-water separator with holding tank for wastewater from drains. Provide compressed air supply. A floor drain is required in this area that shall be self priming, or designed to prevent sewer gases from entering the occupied space by a proven and maintenance-free design.
- **HVAC:** The area shall be kept under constant negative pressure to evacuate gaseous emissions from stored gear to the outside or filtration equipment that is designed to filter and remove gaseous emissions from equipment shall be provided.
- **FIRE PROTECTION:** Provide per current codes.

## Standard Design Criteria Fire Stations

- **ELECTRICAL:** Provide outlets per current codes.
- **LIGHTING:** Provide per current codes. Provide 50 ft. candles (540 Lux) with fluorescent energy efficient light fixtures.
- **COMMUNICATION:**
  - CCTV. None required.
  - CATV/Internal Video. None required.
  - PA/Audio. Provide a speaker.
  - Telephone. None required.
  - Data. None required.
  - Security. None required.
- **ACOUSTICS:** Provide partition and door construction with a minimum STC rating of 52.
- **CASEWORKS/BUILT-IN EQUIPMENT:** None
- **SPECIAL REQUIREMENTS:** None.

## Standard Design Criteria

### Fire Stations

#### 10. SPACE: Work Room/Equipment Maintenance

- **FUNCTIONAL DESCRIPTION:** Utilized to for the minor repair and maintenance of firefighters' equipment.
- **ADJACENCIES:** Shall be adjacent to the Equipment Wash/Disinfection Room and have access from the Apparatus Bay.
- **OCCUPANTS:** Fire Station Staff
- **MINIMUM AREA:** 120 SF, Net.
- **CEILING HEIGHT:** 8 ft. minimum.
- **MINIMUM FLOOR and BASE CONSTRUCTION/SURFACE PERFORMANCE:** Provide a sealed concrete surface sloped to drain. A non-skid, low-maintenance traffic coating may also be acceptable. A base material, appropriate for the flooring material used, is required. Salient characteristics include easy to clean, durable (able to withstand wet conditions, dirty conditions, and spills related to the chemicals within), easily repairable, easy to maintain, and slip resistant.
- **MINIMUM WALL CONSTRUCTION/SURFACE PERFORMANCE:** Concrete masonry units (CMU). Provide epoxy paints or industrial latex on all wall surfaces. Salient characteristics include durable and easy to clean, repairable, and easy to maintain.
- **MINIMUM CEILING CONSTRUCTION/SURFACE PERFORMANCE:** Provide moisture resistant acoustical ceiling panel (ACP) or moisture resistant gypsum wall board (GWB) ceiling with industrial latex or epoxy paint. Salient characteristics include durable and shall provide an aesthetically pleasing surface, free of sags or other defects.
- **DOORS/FRAME:** If doors are provided, salient characteristics include easy to clean, easy to maintain and repair, and compliance to building codes. Doors, frames, and hardware shall be able to withstand constant opening and closing. Doors shall be provided with self-closing device and vision panel.
- **PLUMBING:** Provide an oil-water separator with holding tank for wastewater from drains. Provide compressed air supply. A floor drain is required in this area that shall be self priming, or designed to prevent sewer gases from entering the occupied space by a proven and maintenance-free design.
- **HVAC:** The area shall be kept under constant negative pressure to evacuate gaseous emissions from stored gear to the outside or filtration equipment that is designed to filter and remove gaseous emissions from equipment shall be provided.
- **FIRE PROTECTION:** Provide per current codes.
- **ELECTRICAL:** Provide outlets per current codes. Provide additional outlets and power as required by equipment.
- **LIGHTING:** Provide per current codes. Provide 50 ft. candles (540 Lux) with fluorescent energy efficient light fixtures. Provide task lighting for work/service bench.

## Standard Design Criteria Fire Stations

- **COMMUNICATION:**
  - CCTV. None required.
  - CATV/Internal Video. None required.
  - PA/Audio. Provide a speaker.
  - Telephone. Provide one line with internal two-way communication.
  - Data. None required.
  - Security. None required.
- **ACOUSTICS:** Provide partition and door construction with a minimum STC rating of 52.
- **CASEWORKS/BUILT-IN EQUIPMENT:** None
- **SPECIAL REQUIREMENTS:** None.

## Standard Design Criteria

### Fire Stations

#### 11. **SPACE: EMS Equipment Storage (Including Lockable Medical Cabinet)**

- **FUNCTIONAL DESCRIPTION:** Utilized for the storage of basic first aid supplies. The Lockable Medical Storage Cabinet is often a cabinet or subspace within the EMT Storage area and is for storage of drugs, needles, and other restricted medical supplies. Access to EMT Storage is restricted and controlled to prevent theft and abuse of controlled substances.
- **ADJACENCIES:** Shall be accessible from the Apparatus Bay. The EMS Equipment Storage is located in the HAZMAT/ CBRNE storage area in Headquarters Fire Stations.
- **OCCUPANTS:** EMS Staff
- **MINIMUM AREA:** 25 SF, Net. Area added to the HAZMAT/ CBRNE storage area in Headquarters Fire Stations.
- **CEILING HEIGHT:** 8 ft. minimum.
- **MINIMUM FLOOR and BASE CONSTRUCTION/SURFACE PERFORMANCE:** Provide low maintenance sheet or tile vinyl flooring material. A base material, appropriate for the flooring material used, is required. Salient characteristics include easy to clean, durable (able to withstand wet conditions, dirty conditions, and spills related to the chemicals within), easily repairable, easy to maintain, and slip resistant.
- **MINIMUM WALL CONSTRUCTION/SURFACE PERFORMANCE:** Concrete masonry units (CMU). Provide epoxy paints or industrial latex on all wall surfaces. Salient characteristics include durable and easy to clean, repairable, and easy to maintain.
- **MINIMUM CEILING CONSTRUCTION/SURFACE PERFORMANCE:** Provide “clean room” type acoustical ceiling panel (ACP) or gypsum wall board (GWB) ceiling with industrial latex or epoxy paint. Salient characteristics include durable and shall provide an aesthetically pleasing surface, free of sags or other defects.
- **DOORS/FRAME:** Salient characteristics include easy to clean, easy to maintain and repair, and compliance to building codes. Doors, frames, and hardware shall be able to withstand constant opening and closing. Doors shall be provided with self-closing device. Non applicable in a Headquarters Fire Stations.
- **PLUMBING:** None.
- **HVAC:** The space must be fully conditioned.
- **FIRE PROTECTION:** Provide per current codes.
- **ELECTRICAL:** Provide outlets per current codes. Provide additional outlets and power as required by equipment.
- **LIGHTING:** Provide per current codes. Provide 50 ft. candles (540 Lux) with fluorescent energy efficient light fixtures.

## Standard Design Criteria Fire Stations

- **COMMUNICATION:**  
CCTV. None required.  
CATV/Internal Video. None required.  
PA/Audio. None required.  
Telephone. None required.  
Data. None required.  
Security. None required.
- **ACOUSTICS:** Provide partition and door construction with a minimum STC rating of 52.
- **CASEWORKS/BUILT-IN EQUIPMENT:** Provide wall shelving units
- **SPECIAL REQUIREMENTS:** In the Satellite Fire Stations provide a keyed lock set at the access point to the space.

## Standard Design Criteria

### Fire Stations

#### 12. **SPACE: HAZMAT/CBRNE and Spare PPE Equipment Storage** (Headquarters Fire Stations only).

- **FUNCTIONAL DESCRIPTION:** A dedicated storage room housing only equipment classified for use with hazardous materials. Provide sufficient floor and open shelf storage areas.
- **ADJACENCIES:** Shall be accessible from the Apparatus Bay. The EMS Equipment Storage and Logistics' Office is located in the HAZMAT/ CBRNE storage area in Headquarter Fire Stations.
- **OCCUPANTS:** Logistics Officer/ EMS Staff
- **MINIMUM AREA:** One-Company Headquarters: 240 SF, Net. Two-Company (Two-Story) Headquarters: 360 SF, Net. Three-Company (Two-Story) Headquarters: 480 SF, Net.
- **CEILING HEIGHT:** 8 ft. minimum.
- **MINIMUM FLOOR and BASE CONSTRUCTION/SURFACE PERFORMANCE:** Provide low maintenance sheet or tile vinyl flooring material. A base material, appropriate for the flooring material used, is required. Salient characteristics include easy to clean, durable (able to withstand wet conditions, dirty conditions, and spills related to the chemicals within), easily repairable, easy to maintain, and slip resistant.
- **MINIMUM WALL CONSTRUCTION/SURFACE PERFORMANCE:** Concrete masonry units (CMU). Provide epoxy paints or industrial latex on all wall surfaces. Salient characteristics include durable and easy to clean, repairable, and easy to maintain.
- **MINIMUM CEILING CONSTRUCTION/SURFACE PERFORMANCE:** Provide "clean room" type acoustical ceiling panel (ACP) or gypsum wall board (GWB) ceiling with industrial latex or epoxy paint. Salient characteristics include durable and shall provide an aesthetically pleasing surface, free of sags or other defects.
- **DOORS/FRAME:** Salient characteristics include easy to clean, easy to maintain and repair, and compliance to building codes. Doors, frames, and hardware shall be able to withstand constant opening and closing. Shall be fitted with a locking mechanism and lever type handle that allows the door to be opened from the inside while locked. Doors shall be provided with self-closing device and vision panel.
- **PLUMBING:** None.
- **HVAC:** The area shall be kept under constant negative pressure to evacuate gaseous emissions from stored gear to the outside or filtration equipment that is designed to filter and remove gaseous emissions from equipment shall be provided.
- **FIRE PROTECTION:** Provide per current codes.
- **ELECTRICAL:** Provide outlets per current codes.

## Standard Design Criteria Fire Stations

- **LIGHTING:** Provide per current codes. Provide 50 ft. candles (540 Lux) with fluorescent energy efficient light fixtures.
- **COMMUNICATION:**
  - CCTV. None required.
  - CATV/Internal Video. None required.
  - PA/Audio. None required.
  - Telephone. None required.
  - Data. None required.
  - Security. None required.
- **ACOUSTICS:** Provide partition and door construction with a minimum STC rating of 52.
- **CASEWORKS/BUILT-IN EQUIPMENT:** None.
- **SPECIAL REQUIREMENTS:** Provide sufficient floor and open shelf storage areas. Entrance shall be double doors.

## Standard Design Criteria Fire Stations

### 13. **SPACE: Logistics' Office** (Headquarters Fire Stations only).

- **FUNCTIONAL DESCRIPTION:** This area includes a typical office space and workstation.
- **ADJACENCIES:** Shall be accessible from the Apparatus Bay. The Logistics' Office is located in the HAZMAT/ CBRNE storage area in Headquarter Fire Stations.
- **OCCUPANTS:** Logistics Officer
- **MINIMUM AREA:** 80 SF, Net. Area added to the HAZMAT/ CBRNE storage area.
- **CEILING HEIGHT:** 8 ft. minimum.
- **MINIMUM FLOOR and BASE CONSTRUCTION/SURFACE PERFORMANCE:** Provide low maintenance sheet or tile vinyl flooring material. A base material, appropriate for the flooring material used, is required. Salient characteristics include easy to clean, durable (able to withstand wet conditions, dirty conditions, and spills related to the chemicals within), easily repairable, easy to maintain, and slip resistant.
- **MINIMUM WALL CONSTRUCTION/SURFACE PERFORMANCE: Concrete** masonry units (CMU). Provide epoxy paints or industrial latex on all wall surfaces. Salient characteristics include durable and easy to clean, repairable, and easy to maintain.
- **MINIMUM CEILING CONSTRUCTION/SURFACE PERFORMANCE:** Provide "clean room" type acoustical ceiling panel (ACP) or gypsum wall board (GWB) ceiling with industrial latex or epoxy paint. Salient characteristics include durable and shall provide an aesthetically pleasing surface, free of sags or other defects.
- **DOORS/FRAME:** Salient characteristics include easy to clean, easy to maintain and repair, and compliance to building codes. Doors, frames, and hardware shall be able to withstand constant opening and closing. Shall be fitted with a locking mechanism and lever type handle that allows the door to be opened from the inside while locked. Doors shall be provided with self-closing device and vision panel.
- **PLUMBING:** None.
- **HVAC:** The area shall be kept under constant negative pressure to evacuate gaseous emissions from stored gear to the outside or filtration equipment that is designed to filter and remove gaseous emissions from equipment shall be provided.
- **FIRE PROTECTION:** Provide per current codes. Provide a smoke detector.
- **ELECTRICAL:** Provide outlets per current codes. Multiple electrical and data outlets to be provided to accommodate computers and other office equipment.
- **LIGHTING:** Provide per current codes. Provide task lighting at workstation. In addition to the ambient and task lighting fixtures, provide a dedicated alert light fixture that is controllable from the Watch Desk/Dispatch and tied into the firefighting alert system with a red-tinted bulb or lens.

## Standard Design Criteria Fire Stations

- **COMMUNICATION:**
  - CCTV. None required.
  - CATV/Internal Video. Provide one outlet in the office area.
  - PA/Audio. Provide a speaker.
  - Telephone. Provide one line with internal two-way communication.
  - Data. Provide data drops as required by equipment.
  - Security. None required.
- **ACOUSTICS:** Provide partition and door construction with a minimum STC rating of 52.
- **CASEWORKS/BUILT-IN EQUIPMENT:** None.
- **SPECIAL REQUIREMENTS:** None.

## Standard Design Criteria

### Fire Stations

#### 14. **SPACE: Fire Extinguisher Inspection (Non Flight Line)**

- **FUNCTIONAL DESCRIPTION:** This room accommodates a work bench with adequate lighting to perform maintenance and service of extinguishers, safety cage, scale, recharge kit, and parts storage bins.
- **ADJACENCIES:** Shall be directly accessible from the Apparatus Bay. Based on installation requirements, shall have an outdoor agent storage area.
- **OCCUPANTS:** Fire Station Staff
- **MINIMUM AREA:** 160 SF, Net.
- **CEILING HEIGHT:** 8 ft. minimum.
- **MINIMUM FLOOR and BASE CONSTRUCTION/SURFACE PERFORMANCE:** Provide a sealed concrete surface sloped to drain. A non-skid, low-maintenance traffic coating may also be acceptable. A base material, appropriate for the flooring material used, is required. Salient characteristics include easy to clean, durable (able to withstand wet and dirty conditions), easily repairable, easy to maintain, and slip resistant.
- **MINIMUM WALL CONSTRUCTION/SURFACE PERFORMANCE:** Concrete masonry units (CMU). Provide epoxy paints or industrial latex on all wall surfaces. Salient characteristics include durable and easy to clean, repairable, and easy to maintain.
- **MINIMUM CEILING CONSTRUCTION/SURFACE PERFORMANCE:** Provide acoustical ceiling panel (ACP) or gypsum wall board (GWB) ceiling with industrial latex or epoxy paint. Salient characteristics include durable and shall provide an aesthetically pleasing surface, free of sags or other defects.
- **DOORS/FRAME:** Salient characteristics include easy to clean, easy to maintain and repair, and compliance to building codes. Doors, frames, and hardware shall be able to withstand constant opening and closing. Shall be fitted with a locking mechanism and lever type handle that allows the door to be opened from the inside while locked. Doors shall be provided with self-closing device and vision panel.
- **PLUMBING:** Provide a hose bibb and eye wash fountain. A floor drain is required in this area that shall be self priming, or designed to prevent sewer gases from entering the occupied space by a proven and maintenance-free design.
- **HVAC:** The area shall be kept under constant negative pressure to evacuate gaseous emissions from stored gear to the outside or filtration equipment that is designed to filter and remove gaseous emissions from equipment shall be provided. Provide a compressed air system with self-retracting lines at the work bench.
- **FIRE PROTECTION:** Provide per current codes.
- **ELECTRICAL:** Provide outlets per current codes.
- **LIGHTING:** Provide per current codes. Provide 50 ft. candles (540 Lux) with fluorescent energy efficient light fixtures. Provide task lighting at workstation.

## Standard Design Criteria Fire Stations

- **COMMUNICATION:**
  - CCTV. None required.
  - CATV/Internal Video. Provide one outlet in the office area.
  - PA/Audio. Provide a speaker.
  - Telephone. Provide one line with internal two-way communication.
  - Data. Provide quad outlet at work bench and in locations where required to accommodate equipment.
  - Security. None required.
- **ACOUSTICS:** Provide partition and door construction with a minimum STC rating of 52.
- **CASEWORKS/BUILT-IN EQUIPMENT:** None.
- **SPECIAL REQUIREMENTS:** Entrance shall be double doors. Based on installation requirements, shall have an outdoor agent storage area. The outdoor storage area is covered, enclosed with a secured screen. The outdoor storage area is covered, enclosed with a secured screen, and accommodates tank recovery, spare tanks, and spare gaseous agent re-servicing tanks at 40 SF, net per station.

## Standard Design Criteria

### Fire Stations

#### 15. **SPACE: Fire Extinguisher Inspection (Flight Line)**

- **FUNCTIONAL DESCRIPTION:** This room accommodates a work bench with adequate lighting to perform maintenance and service of extinguishers, safety cage, scale, recharge kit, and parts storage bins.
- **ADJACENCIES:** Shall be directly accessible from the Apparatus Bay. Based on installation requirements, shall have an outdoor agent storage area.
- **OCCUPANTS:** Fire Station Staff
- **MINIMUM AREA:** 160 SF, Net.
- **CEILING HEIGHT:** 8 ft. minimum.
- **MINIMUM FLOOR and BASE CONSTRUCTION/SURFACE PERFORMANCE:** Provide a sealed concrete surface sloped to drain. A non-skid, low-maintenance traffic coating may also be acceptable. A base material, appropriate for the flooring material used, is required. Salient characteristics include easy to clean, durable (able to withstand wet and dirty conditions), easily repairable, easy to maintain, and slip resistant.
- **MINIMUM WALL CONSTRUCTION/SURFACE PERFORMANCE:** Concrete masonry units (CMU). Provide epoxy paints or industrial latex on all wall surfaces. Salient characteristics include durable and easy to clean, repairable, and easy to maintain.
- **MINIMUM CEILING CONSTRUCTION/SURFACE PERFORMANCE:** Provide acoustical ceiling panel (ACP) or gypsum wall board (GWB) ceiling with industrial latex or epoxy paint. Salient characteristics include durable and shall provide an aesthetically pleasing surface, free of sags or other defects.
- **DOORS/FRAME:** Salient characteristics include easy to clean, easy to maintain and repair, and compliance to building codes. Doors, frames, and hardware shall be able to withstand constant opening and closing. Shall be fitted with a locking mechanism and lever type handle that allows the door to be opened from the inside while locked. Doors shall be provided with self-closing device and vision panel.
- **PLUMBING:** Provide a hose bibb and eye wash fountain. A floor drain is required in this area that shall be self priming, or designed to prevent sewer gases from entering the occupied space by a proven and maintenance-free design.
- **HVAC:** The area shall be kept under constant negative pressure to evacuate gaseous emissions from stored gear to the outside or filtration equipment that is designed to filter and remove gaseous emissions from equipment shall be provided. Provide a compressed air system with self-retracting lines at the work bench.
- **FIRE PROTECTION:** Provide per current codes.
- **ELECTRICAL:** Provide outlets per current codes.
- **LIGHTING:** Provide per current codes. Provide 50 ft. candles (540 Lux) with fluorescent energy efficient light fixtures. Provide task lighting at workstation.

## Standard Design Criteria Fire Stations

- **COMMUNICATION:**
  - CCTV. None required.
  - CATV/Internal Video. Provide one outlet in the office area.
  - PA/Audio. Provide a speaker.
  - Telephone. Provide one line with internal two-way communication.
  - Data. Provide quad outlet at work bench and in locations where required to accommodate equipment.
  - Security. None required.
- **ACOUSTICS:** Provide partition and door construction with a minimum STC rating of 52.
- **CASEWORKS/BUILT-IN EQUIPMENT:** None.
- **SPECIAL REQUIREMENTS:** Entrance shall be double doors. Based on installation requirements, shall have an outdoor agent storage area. The outdoor storage area is covered, enclosed with a secured screen. The outdoor storage area is covered, enclosed with a secured screen, and accommodates tank recovery, spare tanks, and spare gaseous agent re-servicing tanks at 40 SF, net per station.

## Standard Design Criteria Fire Stations

### 16. SPACE: Clean-Up Room

- **FUNCTIONAL DESCRIPTION:** This area provides showers and lockers for the fire station staff to decontaminate themselves before entering the Living portion of the Fire Station. A service window shall be provided to the Protective Clothing Laundry room.
- **ADJACENCIES:** Shall be directly accessible from the Apparatus Bay. The Clean-Up Room shall be adjacent to Protective Clothing Laundry Room and a service window provided.
- **OCCUPANTS:** Fire Station Staff
- **MINIMUM AREA:** 160 SF, Net.
- **CEILING HEIGHT:** 8 ft. minimum.
- **MINIMUM FLOOR and BASE CONSTRUCTION/SURFACE PERFORMANCE:** Provide a sealed concrete surface sloped to drain. A base material, appropriate for the flooring material used, is required. Salient characteristics include easy to clean, durable (able to withstand wet and dirty conditions), easily repairable, easy to maintain, and slip resistant.
- **MINIMUM WALL CONSTRUCTION/SURFACE PERFORMANCE:** Concrete masonry units (CMU). Provide epoxy paints or industrial latex on all wall surfaces. Salient characteristics include durable and easy to clean, repairable, and easy to maintain.
- **MINIMUM CEILING CONSTRUCTION/SURFACE PERFORMANCE:** Provide skim-coated cementitious backer board ceiling. Salient characteristics include durable and shall provide an aesthetically pleasing surface, free of sags or other defects.
- **DOORS/FRAME:** Salient characteristics include easy to clean, easy to maintain and repair, and compliance to building codes. Doors, frames, and hardware shall be able to withstand constant opening and closing. Shall be fitted with a locking mechanism and lever type handle that allows the door to be opened from the inside while locked. Doors shall be provided with self-closing device.
- **SERVICE WINDOW/FRAME:** Salient characteristics include durability.
- **PLUMBING:** Provide private shower stalls. See Special Requirements below for distribution. A floor drain is required in this area that shall be self priming, or designed to prevent sewer gases from entering the occupied space by a proven and maintenance-free design.
- **HVAC:** Provide per current codes.
- **FIRE PROTECTION:** Provide per current codes.
- **ELECTRICAL:** Provide outlets per current codes.
- **LIGHTING:** Provide per current codes.

## Standard Design Criteria Fire Stations

- **COMMUNICATION:**
  - CCTV. None required.
  - CATV/Internal Video. None required.
  - PA/Audio. Provide a speaker.
  - Telephone. None required.
  - Data. None required.
  - Security. None required.
- **ACOUSTICS:** Provide partition and door construction with a minimum STC rating of 52.
- **CASEWORKS/BUILT-IN EQUIPMENT:** Provide 12-in deep minimum solid surface materials for seating. Provide 24-in. deep minimum resin based materials for showers.
- **SPECIAL REQUIREMENTS:** Provide sufficient floor areas for lockers. The following shall be provided:
  - Minimum two private showers w/ changing areas and full privacy doors shall be provided for One-Company Fire Stations.
  - Minimum two private showers w/ changing areas and full privacy doors shall be provided for Two-Company Fire Stations.
  - Minimum three private showers w/ changing areas and full privacy doors shall be provided for Three-Company Fire Stations.

## Standard Design Criteria Fire Stations

### 17. SPACE: Storage of Structural and ARFF Agent

- **FUNCTIONAL DESCRIPTION:** This area is a single-story structure utilized for ease of loading and unloading of firefighting agents.
- **ADJACENCIES:** Shall be separate from the Fire Station building and located along the drive leading into the Apparatus Bay.
- **OCCUPANTS:** Fire Station Staff
- **MINIMUM AREA:** 160 SF, Net.
- **CEILING HEIGHT:** 8 ft. minimum.
- **MINIMUM FLOOR and BASE CONSTRUCTION/SURFACE PERFORMANCE:** Provide a sealed concrete surface sloped to drain. A non-skid, low-maintenance traffic coating may also be acceptable. A base material, appropriate for the flooring material used, is required. Salient characteristics include easy to clean, durable (able to withstand wet and dirty conditions), easily repairable, and easy to maintain.
- **MINIMUM WALL CONSTRUCTION/SURFACE PERFORMANCE:** Concrete masonry units (CMU). Provide epoxy paints or industrial latex on all wall surfaces. Salient characteristics include durable and easy to clean, repairable, and easy to maintain.
- **MINIMUM CEILING CONSTRUCTION/SURFACE PERFORMANCE:** Provide acoustical ceiling panel (ACP) or gypsum wall board (GWB) ceiling with industrial latex or epoxy paint. Salient characteristics include durable and shall provide an aesthetically pleasing surface, free of sags or other defects.
- **DOORS/FRAME:** Salient characteristics include easy to clean, easy to maintain and repair, and compliance to building codes. Doors, frames, and hardware shall be able to withstand constant opening and closing. Shall be fitted with a locking mechanism and lever type handle that allows the door to be opened from the inside while locked. Doors shall be provided with self-closing device.
- **PLUMBING:** Provide a hose bibb and floor drain. Provide eye wash fountain.
- **HVAC:** Provide per current codes. The area shall be kept under constant negative pressure to evacuate gaseous emissions from stored gear to the outside.
- **FIRE PROTECTION:** Provide per current codes.
- **ELECTRICAL:** Provide outlets per current codes.
- **LIGHTING:** Provide per current codes. Provide 50 ft. candles (540 Lux) with fluorescent energy efficient light fixtures.
- **COMMUNICATION:**  
CCTV. None required.  
CATV/Internal Video. Provide one outlet in the office area.

## Standard Design Criteria

### Fire Stations

PA/Audio. Provide a speaker.

Telephone. Provide one line with internal two-way communication.

Data. Provide quad outlet at work bench and in locations where required to accommodate equipment.

Security. None required.

- **ACOUSTICS:** Provide partition and door construction with a minimum STC rating of 52.
- **CASEWORKS/BUILT-IN EQUIPMENT:** None.
- **SPECIAL REQUIREMENTS:** Entrance shall be double doors.

## Standard Design Criteria

### Fire Stations

#### 18. **SPACE: Fire Chief's Office Suite** (Headquarters Fire Stations only).

- **FUNCTIONAL DESCRIPTION:** The area includes a typical office space and workstation. An adjacent private bedroom and private toilet/shower should be directly accessible from the Fire Chief's Office.
- **ADJACENCIES:** This area is in the Administrative Office area of the Fire Station. Shall be adjacent to the Deputy Chief's Office and directly off the Lobby.
- **OCCUPANTS:** Fire Chief.
- **MINIMUM AREA:**  
Fire Chief's Office: 200 SF, Net.  
Fire Chief's Dorm Room: 85 SF, Net.  
Fire Chief's Toilet/Shower: 60 SF, Net.
- **CEILING HEIGHT:** 8 ft. minimum.
- **MINIMUM FLOOR and BASE CONSTRUCTION/SURFACE PERFORMANCE:** Provide durable commercial carpeting in office and sleeping area. Provide ceramic tile and ceramic tile base in toilet/shower. A base material, appropriate for the flooring material used, is required. Base shall be sealed to the flooring in the toilet/shower. Salient characteristics include durable and easy to clean, repairable, easy to maintain, and slip resistant.
- **MINIMUM WALL CONSTRUCTION/SURFACE PERFORMANCE:** Provide a low-maintenance finish such as egg-shell latex paint. In toilet/shower provide moisture and mildew resistant gypsum wall board. Provide a low-maintenance finish such as egg-shell latex paint. On all walls, a minimum 48" tall wainscot is required that is impervious to water and be able to withstand daily sanitizing. Salient characteristics include durable and easy to clean, repairable, and easy to maintain. Consider providing vinyl wall coverings in the toilet/showers.
- **MINIMUM CEILING CONSTRUCTION/SURFACE PERFORMANCE:** Provide acoustical ceiling panels (ACP) in office and sleeping areas. Provide moisture resistant gypsum board ceiling in the toilet. Consider semi-gloss industrial paint in the toilet. Salient characteristics include ease of accessibility to mechanical system above ceiling, durable, and shall provide an aesthetically pleasing surface, free of sags or other defects.
- **DOORS/FRAME:** Salient characteristics include durability. Doors, frames, and hardware shall be able to withstand constant opening and closing. Shall be fitted with a locking mechanism and lever type handle that allows the door to be opened from the inside while locked. Doors shall be a minimum of half-height glass. Doors shall be provided with self-closing device.
- **PLUMBING:** Provide water closet, shower, and lavatory. Consider providing floor drain.
- **HVAC:** Provide per current codes. Consider providing independent thermostat.

## Standard Design Criteria

### Fire Stations

- **FIRE PROTECTION:** Provide per current codes. Provide smoke and CO detectors.
- **ELECTRICAL:** Provide outlets per current codes. Multiple electrical and data outlets to be provided to accommodate computers and other office equipment.
- **LIGHTING:** Provide per current codes. Provide residential-style fixtures and task lighting at desk. In addition to the ambient and task lighting fixtures, provide a dedicated alert light fixture that is controllable from the Watch Desk/Dispatch and tied into the firefighting alert system with a red-tinted bulb or lens.
- **COMMUNICATION:**
  - CCTV. None required.
  - CATV/Internal Video. Provide one outlet in the office area and one outlet in the bedroom area.
  - PA/Audio. Provide speaker.
  - Telephone. Provide one line with internal two-way communication.
  - Data. Provide data drops as required by equipment.
  - Security. None required.
- **ACOUSTICS:** Provide partition and door construction with a minimum STC rating of 52.
- **CASEWORKS/BUILT-IN EQUIPMENT:** Provide 24-in deep minimum solid surface materials for countertop. Provide 24-in deep minimum resin based materials for shower.
- **SPECIAL REQUIREMENTS:** None.

## Standard Design Criteria Fire Stations

### 19. **SPACE: Fire Chief's Conference Room** (Headquarters Fire Stations only).

- **FUNCTIONAL DESCRIPTION:** The area includes a space for a small conference table for 8 to 10 people.
- **ADJACENCIES:** Directly accessible from the corridor in the Administrative Office area.
- **OCCUPANTS:** Fire Station Staff.
- **MINIMUM AREA:** 240 SF, Net.
- **MINIMUM FLOOR and BASE CONSTRUCTION/SURFACE PERFORMANCE:** Provide durable commercial carpeting. Salient characteristics include durable and easy to clean, repairable, and easy to maintain. A base material, appropriate for the flooring material used, is required.
- **MINIMUM WALL CONSTRUCTION/SURFACE PERFORMANCE:** Provide a low-maintenance finish such as egg-shell latex paint. Salient characteristics include durable and easy to clean, repairable, and easy to maintain.
- **MINIMUM CEILING CONSTRUCTION/SURFACE PERFORMANCE:** Provide acoustical ceiling panels (ACP) or gypsum wall board (GWB) ceiling. Salient characteristics include ease of accessibility to mechanical system above ceiling, durable, and shall provide an aesthetically pleasing surface, free of sags or other defects.
- **DOORS/FRAME:** Salient characteristics include durability. Doors, frames, and hardware shall be able to withstand constant opening and closing. Shall be fitted with a locking mechanism and lever type handle that allows the door to be opened from the inside while locked. Doors shall be provided with self-closing device and vision panel.
- **PLUMBING:** None.
- **HVAC:** Provide per current codes. Consider providing independent thermostat.
- **FIRE PROTECTION:** Provide per current codes. Provide a smoke detector.
- **ELECTRICAL:** Provide outlets per current codes. Multiple electrical and data outlets to be provided to accommodate computers and other office equipment.
- **LIGHTING:** Provide per current codes. Provide 50 ft. candles (540 Lux) with fluorescent energy efficient light fixtures. In addition to the ambient lighting fixtures, provide a dedicated alert light fixture that is controllable from the Watch Desk/Dispatch and tied into the firefighting alert system with a red-tinted bulb or lens.
- **COMMUNICATION:**
  - CCTV. None required.
  - CATV/Internal Video. Provide one outlet.
  - PA/Audio. Provide speaker.
  - Telephone. Provide one line with internal two-way communication.
  - Data. Provide data drops as required by equipment.

## Standard Design Criteria Fire Stations

Visual. Provide outlets and data drops for an overhead projector and electric overhead projector screen.

Security. None required.

- **ACOUSTICS:** Provide partition and door construction with a minimum STC rating of 52.
- **CASEWORKS/BUILT-IN EQUIPMENT:** None
- **SPECIAL REQUIREMENTS:** Provide retractable overhead screen and overhead projector mount.

## Standard Design Criteria

### Fire Stations

#### 20. **SPACE:** Deputy Chief's Office (Headquarters Fire Stations only).

- **FUNCTIONAL DESCRIPTION:** The room includes a typical office space and workstation.
- **ADJACENCIES:** This area is in the Administrative Office area of the Fire Station. Shall be adjacent to the Fire Chief's Suite and directly off the Lobby.
- **OCCUPANTS:** Fire Chief.
- **MINIMUM AREA:** 120 SF, Net.
- **CEILING HEIGHT:** 8 ft. minimum.
- **MINIMUM FLOOR and BASE CONSTRUCTION/SURFACE PERFORMANCE:** Provide durable commercial carpeting in office and sleeping areas. Salient characteristics include durable and easy to clean, repairable, and easy to maintain. A base material, appropriate for the flooring material used, is required.
- **MINIMUM WALL CONSTRUCTION/SURFACE PERFORMANCE:** Provide a low-maintenance finish such as egg-shell latex paint. Salient characteristics include durable and easy to clean, repairable, and easy to maintain.
- **MINIMUM CEILING CONSTRUCTION/SURFACE PERFORMANCE:** Provide acoustical ceiling panels (ACP) or gypsum wall board (GWB) ceiling. Consider egg-shell latex paint in office. Salient characteristics include ease of accessibility to mechanical system above ceiling, durable, and shall provide an aesthetically pleasing surface, free of sags or other defects.
- **DOORS/FRAME:** Salient characteristics include durability. Doors, frames, and hardware shall be able to withstand constant opening and closing. Shall be fitted with a locking mechanism and lever type handle that allows the door to be opened from the inside while locked. Doors shall be a minimum of half-height glass. Doors shall be provided with self-closing device.
- **PLUMBING:** None.
- **HVAC:** Provide per current codes. Consider providing independent thermostat.
- **FIRE PROTECTION:** Provide per current codes. Provide a smoke detector.
- **ELECTRICAL:** Provide outlets per current codes. Multiple electrical and data outlets to be provided to accommodate computer and other office equipment.
- **LIGHTING:** Provide per current codes. Provide residential-style fixtures and task lighting at desk. In addition to the ambient and task lighting fixtures, provide a dedicated alert light fixture that is controllable from the Watch Desk/Dispatch and tied into the firefighting alert system with a red-tinted bulb or lens.
- **COMMUNICATION:**  
CCTV. None required.

## Standard Design Criteria Fire Stations

CATV/Internal Video. Provide one outlet in the office area and one outlet in the bedroom area.

PA/Audio. Provide speaker.

Telephone. Provide one line with internal two-way communication.

Data. Provide data drops as required by equipment.

Security. None required.

- **ACOUSTICS:** Provide partition and door construction with a minimum STC rating of 52.
- **CASEWORKS/BUILT-IN EQUIPMENT:** None
- **SPECIAL REQUIREMENTS:** None.

## Standard Design Criteria

### Fire Stations

#### 21. **SPACE: Station Officer's Office/Watch Desk** (Satellite Fire Stations only).

- **FUNCTIONAL DESCRIPTION:** This room provides space for the station officer and/or company officers to perform their administrative functions. The Station Officer's office may serve to control public access to the station. If a Watch Desk function is required, it is typically included in the Station Officer's Office. The Watch Desk receives emergency calls from the Dispatch and contains the security monitors for the station. It is usually occupied 24 hours a day/7 days a week. The room includes a typical office space and workstations for two people.
- **ADJACENCIES:** This area is in the Administrative Office area of the Fire Station. Shall be located directly off the Lobby.
- **OCCUPANTS:** Station Officer.
- **MINIMUM AREA:** 230 SF, Net.
- **CEILING HEIGHT:** 8 ft. minimum.
- **MINIMUM FLOOR and BASE CONSTRUCTION/SURFACE PERFORMANCE:** Provide low maintenance sheet or tile vinyl flooring material. Consider providing durable commercial carpeting. Salient characteristics include durable and easy to clean, repairable, and easy to maintain. A base material, appropriate for the flooring material used, is required.
- **MINIMUM WALL CONSTRUCTION/SURFACE PERFORMANCE:** Provide a low-maintenance finish such as egg-shell latex paint. Salient characteristics include durable and easy to clean, repairable, and easy to maintain.
- **MINIMUM CEILING CONSTRUCTION/SURFACE PERFORMANCE:** Provide acoustical ceiling panels (ACP). Salient characteristics include ease of accessibility to mechanical system above ceiling, durable, and shall provide an aesthetically pleasing surface, free of sags or other defects.
- **DOORS/FRAME:** Salient characteristics include durability. Doors, frames, and hardware shall be able to withstand constant opening and closing. Shall be fitted with a locking mechanism and lever type handle that allows the door to be opened from the inside while locked. Doors shall be a minimum of half-height glass. Doors shall be provided with self-closing device.
- **PLUMBING:** None.
- **HVAC:** Provide per current codes. Consider providing independent thermostat.
- **FIRE PROTECTION:** Provide per current codes. Provide a smoke detector.
- **ELECTRICAL:** Provide electrical and data outlets per current codes and as needed to support the extensive equipment required. Provide two additional quad outlets at the control center console. Provide a switch controlling operation of Apparatus Bay doors.

## Standard Design Criteria

### Fire Stations

- **LIGHTING:** Provide per current codes. Provide 50 ft. candles (540 Lux) with fluorescent energy efficient light fixtures. Provide task lighting at control desk.
  - **COMMUNICATION:**
    - CCTV. If CCTV is provided monitors for the facility cameras will be located here. Provide outlets required to support equipment.
    - CATV/Internal Video. Provide outlets required to support required equipment.
    - PA/Audio. Provide simultaneous light and audible control for the entire fire station.
    - Telephone. Provide regular and secure multi-telephone line required to support switch board operation, telephone, and fax.
    - Data. Provide regular and secure data outlets to support required equipment.
    - Security. Provide vision panel to the Apparatus Bay. Provide pin pad/cipher electric lock with remote push button release and manual key override.
  - **ACOUSTICS:** Provide partition and door construction with a minimum STC rating of 45.
  - **CASEWORKS/BUILT-IN EQUIPMENT:** None
  - **SPECIAL REQUIREMENTS:**
    - Firefighter Alert System:** Provide light and audible control for the following elements when the firefighter alert system is activated: Dorm Room lights (the dedicated alert light), corridor lights from Dorm Rooms to Apparatus Bay, and the Apparatus Bay lights.
- Provide a 36 in. (920 mm) free access area around the entire control console. Provide space for Emergency Information Systems computer. Provide tinted windows.

## Standard Design Criteria

### Fire Stations

#### 22. **SPACE: Assistant Chief/Shift Supervisor's Suite** (Headquarters Fire Stations only).

- **FUNCTIONAL DESCRIPTION:** The area includes a typical office space and workstation. An adjacent private bedroom and private toilet /shower shall be directly accessible from the Assistant Chief's Office.
- **ADJACENCIES:** This area is in the Administrative Office area of the Fire Station. Shall be adjacent to the Station's Captain Suite and directly accessible from the corridor in the Administrative Office area. The private toilet/shower shall be accessible from the Station's Captain Dorm room, also.
- **OCCUPANTS:** Assistant Chief/Shift Supervisor.
- **MINIMUM AREA:**  
Assistant Chief/Shift Supervisor's Suite: 120 SF, Net.  
Assistant Chief/Shift Supervisor's Dorm Room: 85 SF, Net.  
Assistant Chief/Shift Supervisor's Toilet/Shower: 60 SF, Net.
- **CEILING HEIGHT:** 8 ft. minimum.
- **MINIMUM FLOOR and BASE CONSTRUCTION/SURFACE PERFORMANCE:** In the Office and dorm areas, provide low maintenance sheet or tile vinyl flooring material. Consider providing commercial carpeting. Provide ceramic tile and ceramic tile base in toilet/shower. A base material, appropriate for the flooring material used, is required. Base shall be sealed to the flooring in the toilet/shower. Salient characteristics include durable and easy to clean, repairable, easy to maintain, and slip resistant.
- **MINIMUM WALL CONSTRUCTION/SURFACE PERFORMANCE:** Concrete masonry units (CMU) at shared walls with Apparatus Equipment & Maintenance areas. GWB is an allowable material, including a furred application attached to the CMU walls. In the office and dorm room, provide a low-maintenance finish such as egg-shell latex paint. In toilet/shower provide moisture and mildew resistant gypsum wall board. Provide a low-maintenance finish such as egg-shell latex paint. On all walls, a minimum 48" tall wainscot is required that is impervious to water and be able to withstand daily sanitizing. Salient characteristics include durable and easy to clean, repairable, and easy to maintain. Consider providing vinyl wall coverings in the toilet/showers.
- **MINIMUM CEILING CONSTRUCTION/SURFACE PERFORMANCE:** Provide acoustical ceiling panels (ACP) in office and dorm areas. Provide moisture resistant gypsum board ceiling in the toilet. Consider semi-gloss industrial paint in the toilet. Salient characteristics include ease of accessibility to mechanical system above ceiling, durable, and shall provide an aesthetically pleasing surface, free of sags or other defects.
- **DOORS/FRAME:** Salient characteristics include durability. Doors, frames, and hardware shall be able to withstand constant opening and closing. Shall be fitted with a locking mechanism and lever type handle that allows the door to be opened from the inside while locked. Doors shall be a minimum of half-height glass. Doors shall be provided with self-closing device.

## Standard Design Criteria

### Fire Stations

- **PLUMBING:** Provide water closet, shower, and lavatory. Consider providing floor drain.
- **HVAC:** Provide per current codes. Consider providing independent thermostat.
- **FIRE PROTECTION:** Provide per current codes. Provide smoke and CO detectors.
- **ELECTRICAL:** Provide outlets per current codes. Multiple electrical and data outlets to be provided to accommodate computers and other office equipment.
- **LIGHTING:** Provide per current codes. Provide residential-style fixtures and task lighting at desk. In addition to the ambient and task lighting fixtures, provide a dedicated alert light fixture that is controllable from the Watch Desk/Dispatch and tied into the firefighting alert system with a red-tinted bulb or lens.
- **COMMUNICATION:**
  - CCTV. None required.
  - CATV/Internal Video. Provide one outlet in the office area and one outlet in the bedroom area.
  - PA/Audio. Provide speaker.
  - Telephone. Provide one line with internal two-way communication.
  - Data. Provide data drops as required by equipment.
  - Security. None required.
- **ACOUSTICS:** Provide partition and door construction with a minimum STC rating of 52.
- **CASEWORKS/BUILT-IN EQUIPMENT:** Provide 24-in deep minimum solid surface materials for countertops. Provide 24-in deep minimum resin based materials for shower.
- **SPECIAL REQUIREMENTS:** The Assistant Chief/Shift Supervisor's Suite will likely have CMU walls and more durable finishes than typical offices. The Assistant Chief/Shift Supervisor's Suite walls shared with the Administrative & Training areas are allowed to be of materials other than CMU.

## Standard Design Criteria Fire Stations

### 23. SPACE: General Administration Storage

- **FUNCTIONAL DESCRIPTION:** This area is general storage for office supplies and other supplies.
- **ADJACENCIES:** This area is in the Administrative Office area of the Fire Station. Shall be directly accessible from the corridor and/or Lobby in the Administrative Office area.
- **OCCUPANTS:** Fire Station Staff.
- **MINIMUM AREA:** 80 SF, Net.
- **CEILING HEIGHT:** 8 ft. minimum.
- **MINIMUM FLOOR and BASE CONSTRUCTION/SURFACE PERFORMANCE:** Salient characteristics include durable and easy to clean, repairable, and easy to maintain. A base material, appropriate for the flooring material used, is required.
- **MINIMUM WALL CONSTRUCTION/SURFACE PERFORMANCE:** Provide a low-maintenance finish such as egg-shell latex paint. Salient characteristics include durable and easy to clean, repairable, and easy to maintain.
- **MINIMUM CEILING CONSTRUCTION/SURFACE PERFORMANCE:** Provide acoustical ceiling panels (ACP). Salient characteristics include ease of accessibility to mechanical system above ceiling, durable, and shall provide an aesthetically pleasing surface, free of sags or other defects.
- **DOORS/FRAME:** Salient characteristics include durability. Doors, frames, and hardware shall be able to withstand constant opening and closing. Shall be fitted with a locking mechanism and lever type handle that allows the door to be opened from the inside while locked. Doors shall be provided with self-closing device.
- **PLUMBING:** None.
- **HVAC:** Provide per current codes.
- **FIRE PROTECTION:** Provide per current codes. Provide a smoke detector.
- **ELECTRICAL:** Provide outlets per current codes.
- **LIGHTING:** Provide per current codes. Provide 50 ft. candles (540 Lux) with fluorescent energy efficient light fixtures.
- **COMMUNICATION:**
  - CCTV. None required.
  - CATV/Internal Video. None required.
  - PA/Audio. None required.
  - Telephone. None required.
  - Data. None required.
  - Security. None required.

## Standard Design Criteria Fire Stations

- **ACOUSTICS:** Provide partition and door construction with a minimum STC rating of 40.
- **CASEWORKS/BUILT-IN EQUIPMENT:** None
- **SPECIAL REQUIREMENTS:** A minimum of 4 adjustable shelves with heavy duty standards and brackets will be provided. Provide shelves on as many walls of the storage rooms as possible while maintaining adequate circulation space. Shelving shall be able to support 100 pounds per lineal foot.

## Standard Design Criteria

### Fire Stations

#### 24. SPACE: Lobby

- **FUNCTIONAL DESCRIPTION:** This area serves as the entrance to the facility and a gathering/waiting space for the visiting public. The Lobby should be recognizable from the outside as a well-lit, inviting space.
- **ADJACENCIES:** This area is in the Administrative Office area of the Fire Station and is the main entrance into the Fire Station.
- **OCCUPANTS:** Fire Station Visitors.
- **MINIMUM AREA:** 100 SF, Net.
- **CEILING HEIGHT:** 8 ft. minimum.
- **MINIMUM FLOOR and BASE CONSTRUCTION/SURFACE PERFORMANCE:** Salient characteristics include durable and easy to clean, repairable, and easy to maintain. A base material, appropriate for the flooring material used, is required. Consider stone or quarry tile with stone or tile base.
- **MINIMUM WALL CONSTRUCTION/SURFACE PERFORMANCE:** Provide a low-maintenance finish such as egg-shell latex paint. Salient characteristics include durable and easy to clean, repairable, and easy to maintain. Consider providing vinyl wall coverings.
- **MINIMUM CEILING CONSTRUCTION/SURFACE PERFORMANCE:** Provide decorative acoustical ceiling panels (ACP). Salient characteristics include ease of accessibility to mechanical system above ceiling, durable, and shall provide an aesthetically pleasing surface, free of sags or other defects.
- **DOORS/FRAME:** Salient characteristics include durability. Doors, frames, and hardware shall be able to withstand constant opening and closing. Provide a set of storefront double 3 foot by 7 foot doors, fitted with a locking mechanism and flush panic hardware at the entry. To ensure maximum visibility, doors shall be fully glazed. Doors shall be provided with self-closing device.
- **PLUMBING:** Provide water for an ABA compliant electric water cooler.
- **HVAC:** Provide per current codes.
- **FIRE PROTECTION:** Provide per current codes. Provide a smoke detector.
- **ELECTRICAL:** Provide outlets per current codes. Consider outlets for display cases.
- **LIGHTING:** Provide per current codes. Consider decorative lighting fixtures and task lighting.
- **COMMUNICATION:**
  - CCTV. None required.
  - CATV/Internal Video. None required.
  - PA/Audio. Provide speaker.

## Standard Design Criteria Fire Stations

Telephone. Consider providing one line for local and toll-free calls or a pay phone.

Data. None required.

Security. None required.

- **ACOUSTICS:** None.
- **CASEWORKS/BUILT-IN EQUIPMENT:** None
- **SPECIAL REQUIREMENTS:**  
Provide airlock at main entrance when necessary.

Consider a recessed, built-in mat at entry.

## Standard Design Criteria Fire Stations

### 25. SPACE: Public Toilet

- **FUNCTIONAL DESCRIPTION:** This area shall be an ABA compliant toilet area for visitors.
- **ADJACENCIES:** This area is in the Administrative Office area of the Fire Station. Public toilets shall be located directly adjacent to the Lobby. Staff toilets shall be accessible from the corridors, and should be spread out around the facility.
- **OCCUPANTS:** Visitor.
- **MINIMUM AREA:** 48 SF, Net.
- **MINIMUM FLOOR and BASE CONSTRUCTION/SURFACE PERFORMANCE:** Floors shall be able to keep water from getting under the flooring material. Salient characteristics include durable and easy to clean, repairable, easy to maintain, and slip resistant. A base material, appropriate for the flooring material used, is required. Base shall be sealed to the flooring.
- **MINIMUM WALL CONSTRUCTION/SURFACE PERFORMANCE:** Providing moisture and mildew resistant gypsum wall board. Provide a low-maintenance finish such as egg-shell latex paint. On all walls, a minimum 48" tall wainscot is required that is impervious to water and be able to withstand daily sanitizing. Salient characteristics include durable and easy to clean, repairable, and easy to maintain.
- **MINIMUM CEILING CONSTRUCTION/SURFACE PERFORMANCE.** Provide moisture resistant gypsum board ceiling. Consider semi-gloss industrial paint. Salient characteristics include ease of accessibility to mechanical system above ceiling, durable, and shall provide an aesthetically pleasing surface, free of sags or other defects.
- **DOORS/FRAME:** Salient characteristics include durability. Doors, frames, and hardware shall be able to withstand constant opening and closing. Door shall be fitted with a locking mechanism and lever type handle that allows the door to be opened from the inside while locked. Doors shall be provided with self-closing device.
- **PLUMBING:** 1 ABA compliance water closet, and 1 ABA compliant lavatory. A floor drain is required in this area that shall be self priming, or designed to prevent sewer gases from entering the occupied space by a proven and maintenance-free design.
- **HVAC:** Provide per current codes. Local exhaust vent above toilet.
- **FIRE PROTECTION:** Provide per current codes. Provide a smoke detector.
- **ELECTRICAL:** Provide outlets per current codes.
- **LIGHTING:** Provide per current codes.
- **COMMUNICATION:**  
CCTV. None required.  
CATV/Internal Video. None required.  
PA/Audio. None required.

## Standard Design Criteria Fire Stations

Telephone. None required.

Data. None required.

Security. None required.

- **ACOUSTICS:** None.
- **CASEWORKS/BUILT-IN EQUIPMENT:** Provide 24-in deep minimum solid surface materials for countertop.
- **SPECIAL REQUIREMENTS:** None.

## Standard Design Criteria

### Fire Stations

#### 26. **SPACE:** Dispatch's Suite (Headquarters Fire Stations only).

- **FUNCTIONAL DISCRIPTION:** The main access control point with direct visual contact with the entry, lobby, and public toilet. Responsible for receiving and dispatching fire related emergency calls. This area contains the security monitors for the station and is occupied 24 hours a day, 7 days a week. Provide a dedicated toilet and kitchenette, and dedicated IT room directly adjacent to and accessible from the Dispatch Room for staff use. Provide tinted windows. If possible, operators should be able to see exterior conditions.
- **ADJACENCIES:** This area is in the Administrative Office area of the Fire Station. This area is adjacent to lobby area. Shall have direct visual control service window to and direct access to the Lobby.
- **OCCUPANTS:** Dispatch staff.
- **MINIMUM AREA:**  
Dispatch's Suite: 256 SF, Net.  
Dispatch's Toilet: 48 SF, Net.  
Dispatch's Kitchenette: 20 SF, Net.
- **CEILING HEIGHT:** 8 ft. minimum.
- **MINIMUM FLOOR and BASE CONSTRUCTION/SURFACE PERFORMANCE:** In the Dispatch and Kitchenette, provide low maintenance sheet or tile vinyl flooring material. Consider providing commercial carpeting. In the toilet, floors shall able to keep water from getting under the flooring material. A base material, appropriate for the flooring material used, is required. Base shall be sealed to the flooring in the toilet. Salient characteristics include durable and easy to clean, repairable, easy to maintain, and slip resistant.
- **MINIMUM WALL CONSTRUCTION/SURFACE PERFORMANCE:** In the Dispatch and Kitchenette, provide a low-maintenance finish such as egg-shell latex paint. In the toilet, provide moisture and mildew resistant gypsum wall board. Provide a low-maintenance finish such as egg-shell latex paint. On all walls, a minimum 48" tall wainscot is required that is impervious to water and be able to withstand daily sanitizing. Salient characteristics include durable and easy to clean, repairable, and easy to maintain. Consider providing vinyl wall coverings in the toilet/shower.
- **MINIMUM CEILING CONSTRUCTION/SURFACE PERFORMANCE:** In the Dispatch and Kitchenette, provide acoustical ceiling panels (ACP). In the toilet, provide moisture resistant gypsum board ceiling. Consider semi-gloss industrial paint. Salient characteristics include ease of accessibility to mechanical system above ceiling, durable, and shall provide an aesthetically pleasing surface, free of sags or other defects.
- **DOORS/FRAME:** Salient characteristics include durability. Doors, frames, and hardware shall be able to withstand constant opening and closing. Door shall be fitted with a locking mechanism and lever type handle that allows the door to be opened from the inside while locked. Doors shall be provided with self-closing device.

## Standard Design Criteria

### Fire Stations

- **SERVICE WINDOW/FRAME:** Provide window with pass-through transaction drawer. Salient characteristics include durability.
- **PLUMBING:** Provide an ABA-accessible toilet with a lavatory and water closet. Provide a kitchenette with a kitchen sink and disposal.
- **HVAC:** Provide per current codes. Provide independent environmental control equipment.
- **FIRE PROTECTION:** Provide per current codes. Provide a smoke detector.
- **ELECTRICAL:** Provide outlets per current codes and as needed to support all equipment, including charging equipment for handhelds. Provide a switch controlling open only operation of Apparatus Bay doors.
- **LIGHTING:** Provide per current codes. Provide 50 ft. candles (540 Lux) with fluorescent energy efficient light fixtures and emergency battery back-up. Consider providing task lighting at control desk.
- **COMMUNICATION:**
  - CCTV. If CCTV is provided, monitors for the facility cameras will be located here. Provide outlets required to support equipment.
  - CATV/Internal Video. Provide outlets required to support equipment.
  - PA/Audio. Provide a speaker and a microphone.
  - Telephone. Provide regular and secure multi-telephone line required to support switchboard operation, telephone, and fax.
  - Data. Provide regular and secure data outlets to support required equipment.
  - Security. Provide pin pad/cipher electric lock with remote push button release and manual key override.
- **ACOUSTICS:** Provide partition and door construction with a minimum STC rating of 49.
- **CASEWORKS/BUILT-IN EQUIPMENT:** At kitchenette, provide wall and base cabinets with 24-in deep solid surface counter. Provide 24-in deep minimum solid surface materials for countertop.
- **SPECIAL REQUIREMENTS:**  
Comply with the requirements for “Communication Centers” in NFPA 1221.

Note that some equipment requires free access area around the entire control console. Design this space appropriate to the equipment being provided. Note any special requirements for the E911 system, if appropriate. If required for selected equipment, provide a conduit to the roof for a roof mounted antennae.

**Firefighter Alert System:** Provide light and audible control for the following elements when the firefighter alert system is activated: Dorm Room lights (the dedicated alert light), corridor lights from Dorm Rooms to Apparatus Bay, and the Apparatus Bay lights.

The generator must provide back-up power for all Dispatch Room systems. In addition, provide uninterrupted power supply (UPS) for the dispatch equipment.

## Standard Design Criteria Fire Stations

### 27. SPACE: UPS Room.

- **FUNCTIONAL DISCRPTION:** This room houses the equipment racks for the Dispatch or Station Officer's Office/Watch Desk area's computer networks, telephone, communication feeds, and an Uninterrupted Power Source (UPS).
- **ADJACENCIES:** This area is in the Administrative Office area of the Fire Station. UPS room shall be provided adjacent to and accessible from the Dispatch or Station Officer's Office/Watch Desk area.
- **OCCUPANTS:** Dispatch staff/Station Officer.
- **MINIMUM AREA:** 60 SF, Net.
- **CEILING HEIGHT:** 8 ft. minimum.
- **MINIMUM FLOOR and BASE CONSTRUCTION/SURFACE PERFORMANCE:** Provide low maintenance sheet or tile vinyl flooring material. Salient characteristics include easy to clean, maintain, and repair. A base material, appropriate for the flooring material used, is required.
- **MINIMUM WALL CONSTRUCTION/SURFACE PERFORMANCE:** Provide a low-maintenance finish such as egg-shell latex paint. Salient characteristics include durable and easy to clean, repairable, and easy to maintain.
- **MINIMUM CEILING CONSTRUCTION/SURFACE PERFORMANCE:** Provide gypsum wall board (GWB) ceiling. Consider egg-shell latex paint. Salient characteristics include ease of accessibility to mechanical system above ceiling, durable, and shall provide an aesthetically pleasing surface, free of sags or other defects.
- **DOORS/FRAME:** Salient characteristics include durability. Doors, frames, and hardware shall be able to withstand constant opening and closing. Door shall be fitted with a locking mechanism and lever type handle that allows the door to be opened from the inside while locked. Doors shall be provided with self-closing device.
- **SERVICE WINDOW/FRAME:** Provide window with pass-through transaction drawer. Salient characteristics include durability.
- **PLUMBING:** None.
- **HVAC:** Provide per current codes.
- **FIRE PROTECTION:** Provide per current codes. Provide a smoke detector.
- **ELECTRICAL:** Provide outlets per current codes and as needed to support the extensive equipment required. Provide two additional quad outlets. Provide a transient voltage surge suppression panel board.
- **LIGHTING:** Provide per current codes.
- **COMMUNICATION:**  
CCTV. None required.  
CATV/Internal Video. None required.

## Standard Design Criteria Fire Stations

PA/Audio. None required.

Telephone. Provide telephone line as required to support equipment.

Data. Provide data lines as required to support equipment.

Security. Provide a cipher lock at the door.

- **ACOUSTICS:** None.
- **CASEWORKS/BUILT-IN EQUIPMENT:** None.
- **SPECIAL REQUIREMENTS:** Comply with the requirements for USAISEC Technical Guide for Installation Information Infrastructure Architecture (I3A).

## Standard Design Criteria

### Fire Stations

#### 28. SPACE: Telecommunications Room

- **FUNCTIONAL DISCRIPTION:** This room shall be used for the termination of all data and communication utilities in the facility. The equipment racks for the facility's computer networks, telephone, communication feeds, and Uninterrupted Power Source (UPS) are housed in this room.
- **ADJACENCIES:** This area is in the Administrative Office area of the Fire Station. Shall be directly accessible from the corridor in the Administrative Office area and preferably centrally located in the facility.
- **OCCUPANTS:** Fire Station Staff.
- **MINIMUM AREA:** 180 SF, Net.
- **CEILING HEIGHT:** 8 ft. minimum.
- **MINIMUM FLOOR and BASE CONSTRUCTION/SURFACE PERFORMANCE:** Provide low maintenance sheet or tile vinyl flooring material. Salient characteristics include durable and easy to clean, repairable, and easy to maintain. A base material, appropriate for the flooring material used, is required.
- **MINIMUM WALL CONSTRUCTION/SURFACE PERFORMANCE:** Provide a low-maintenance finish such as egg-shell latex paint. Salient characteristics include durable and easy to clean, repairable, and easy to maintain.
- **MINIMUM CEILING CONSTRUCTION/SURFACE PERFORMANCE:** Provide gypsum wall board (GWB) ceiling. Consider egg-shell latex paint. Salient characteristics include ease of accessibility to mechanical system above ceiling, durable, and shall provide an aesthetically pleasing surface, free of sags or other defects.
- **DOORS/FRAME:** Salient characteristics include durability. Doors, frames, and hardware shall be able to withstand constant opening and closing. Door shall open 180 degrees into the corridor. Door shall be fitted with a locking mechanism and lever type handle that allows the door to be opened from the inside while locked. Doors shall be provided with self-closing device.
- **PLUMBING:** None.
- **HVAC:** Provide per current codes.
- **FIRE PROTECTION:** Provide per current codes. Provide a smoke detector.
- **ELECTRICAL:** Provide outlets per current codes and as needed to support the extensive equipment required. Provide two additional quad outlets. Provide a transient voltage surge suppression panel board.
- **LIGHTING:** Provide per current codes.
- **COMMUNICATION:**  
CCTV. None required.  
CATV/Internal Video. None required.

## Standard Design Criteria Fire Stations

PA/Audio. None required.

Telephone. Provide telephone line as required to support equipment.

Data. Provide data lines as required to support equipment.

Security. Provide a cipher lock at the door.

- **ACOUSTICS:** None.
- **CASEWORKS/BUILT-IN EQUIPMENT:** None.
- **SPECIAL REQUIREMENTS:** Comply with the requirements for USAISEC Technical Guide for Installation Information Infrastructure Architecture (I3A).

## Standard Design Criteria Fire Stations

### 29. **SPACE: Assistant Chief of Fire Prevention's Office** (Headquarters Fire Stations only).

- **FUNCTIONAL DESCRIPTION:** The room includes a typical office space and workstation.
- **ADJACENCIES:** This area is in the Administrative Office area of the Fire Station. Shall be adjacent to and directly off the Fire Inspectors' Office.
- **OCCUPANTS:** Assistant Chief of Fire Prevention.
- **MINIMUM AREA:** 120 SF, Net.
- **CEILING HEIGHT:** 8 ft. minimum.
- **MINIMUM FLOOR and BASE CONSTRUCTION/SURFACE PERFORMANCE:** Provide low maintenance sheet or tile vinyl flooring material. Consider providing durable commercial carpeting. Salient characteristics include durable and easy to clean, repairable, and easy to maintain. A base material, appropriate for the flooring material used, is required.
- **MINIMUM WALL CONSTRUCTION/SURFACE PERFORMANCE:** Provide a low-maintenance finish such as egg-shell latex paint. Salient characteristics include durable and easy to clean, repairable, and easy to maintain.
- **MINIMUM CEILING CONSTRUCTION/SURFACE PERFORMANCE:** Provide acoustical ceiling panels (ACP). Salient characteristics include ease of accessibility to mechanical system above ceiling, durable, and shall provide an aesthetically pleasing surface, free of sags or other defects.
- **DOORS/FRAME:** Salient characteristics include durability. Doors, frames, and hardware shall be able to withstand constant opening and closing. Shall be fitted with a locking mechanism and lever type handle that allows the door to be opened from the inside while locked. Doors shall be a minimum of half-height glass. Doors shall be provided with self-closing device.
- **PLUMBING:** None.
- **HVAC:** Provide per current codes. Consider providing independent thermostat.
- **FIRE PROTECTION:** Provide per current codes. Provide a smoke detector.
- **ELECTRICAL:** Provide outlets per current codes. Multiple electrical and data outlets to be provided to accommodate computer and other office equipment.
- **LIGHTING:** Provide per current codes. Provide residential-style fixtures and task lighting at desk.
- **COMMUNICATION:**  
CCTV. None required.  
CATV/Internal Video. Provide one outlet.

## Standard Design Criteria Fire Stations

PA/Audio. Provide speaker.

Telephone. Provide one line with internal two-way communication.

Data. Provide data outlets as required by equipment.

Security. None required.

- **ACOUSTICS:** Provide partition and door construction with a minimum STC rating of 39.
- **CASEWORKS/BUILT-IN EQUIPMENT:** None
- **SPECIAL REQUIREMENTS:** None.

## Standard Design Criteria

### Fire Stations

#### 30. SPACE: Inspector(s)' Office (Headquarters Fire Stations only).

- **FUNCTIONAL DESCRIPTION:** The room includes a typical office space and workstation.
- **ADJACENCIES:** This area is in the Administrative Office area of the Fire Station. Shall be adjacent to Fire Inspectors' Office. Shall be directly accessible from the corridor in the Administrative Office area.
- **OCCUPANTS:** Fire Inspector(s)' Staff.
- **MINIMUM AREA:**  
One Company Headquarters: 144 SF, Net. One Inspector  
Two Company Headquarters: 288 SF, Net. Two Inspectors  
Three Company Headquarters: 432 SF, Net. Three Inspectors
- **CEILING HEIGHT:** 8 ft. minimum.
- **MINIMUM FLOOR and BASE CONSTRUCTION/SURFACE PERFORMANCE:** Provide low maintenance sheet or tile vinyl flooring material. Consider providing durable commercial carpeting. Salient characteristics include durable and easy to clean, repairable, and easy to maintain. A base material, appropriate for the flooring material used, is required.
- **MINIMUM WALL CONSTRUCTION/SURFACE PERFORMANCE:** Provide a low-maintenance finish such as egg-shell latex paint. Salient characteristics include durable and easy to clean, repairable, and easy to maintain.
- **MINIMUM CEILING CONSTRUCTION/SURFACE PERFORMANCE:** Provide acoustical ceiling panels (ACP). Salient characteristics include ease of accessibility to mechanical system above ceiling, durable, and shall provide an aesthetically pleasing surface, free of sags or other defects.
- **DOORS/FRAME:** Salient characteristics include durability. Doors, frames, and hardware shall be able to withstand constant opening and closing. Shall be fitted with a locking mechanism and lever type handle that allows the door to be opened from the inside while locked. Doors shall be provided with self-closing device.
- **PLUMBING:** None.
- **HVAC:** Provide per current codes.
- **FIRE PROTECTION:** Provide per current codes. Provide a smoke detector.
- **ELECTRICAL:** Provide outlets per current codes. Multiple electrical and data outlets to be provided to accommodate computer and other office equipment.
- **LIGHTING:** Provide per current codes. Provide task lighting at desk.
- **COMMUNICATION:**  
CCTV. None required.

## Standard Design Criteria Fire Stations

CATV/Internal Video. Provide one outlet.

PA/Audio. Provide speaker.

Telephone. Provide one line with internal two-way communication per Fire Inspector's workstation.

Data. Provide data outlets as required by equipment.

Security. None required.

- **ACOUSTICS:** Provide partition and door construction with a minimum STC rating of 39.
- **CASEWORKS/BUILT-IN EQUIPMENT:** None
- **SPECIAL REQUIREMENTS:** None.

## Standard Design Criteria

### Fire Stations

#### 31. **SPACE: Training Officer's Office** (Headquarters Fire Stations only).

- **FUNCTIONAL DESCRIPTION:** The room includes a typical office space and workstation. Observation windows shall be provided to the Computer Training/Testing Room and Department Training Room to monitor and control access.
- **ADJACENCIES:** This area is in the Administrative Office area of the Fire Station. Shall be directly accessible from the corridor in the Administrative Office area. Shall be adjacent to the Department Training Room and Computer Training/Testing Room with an observation window to each room.
- **OCCUPANTS:** Training Officer.
- **MINIMUM AREA:** 100 SF, Net.
- **CEILING HEIGHT:** 8 ft. minimum.
- **MINIMUM FLOOR and BASE CONSTRUCTION/SURFACE PERFORMANCE:** Provide low maintenance sheet or tile vinyl flooring material. Consider providing durable commercial carpeting. Salient characteristics include durable and easy to clean, repairable, and easy to maintain. A base material, appropriate for the flooring material used, is required.
- **MINIMUM WALL CONSTRUCTION/SURFACE PERFORMANCE:** Provide a low-maintenance finish such as egg-shell latex paint. Salient characteristics include durable and easy to clean, repairable, and easy to maintain.
- **MINIMUM CEILING CONSTRUCTION/SURFACE PERFORMANCE:** Provide acoustical ceiling panels (ACP). Salient characteristics include ease of accessibility to mechanical system above ceiling, durable, and shall provide an aesthetically pleasing surface, free of sags or other defects.
- **DOORS/FRAME:** Salient characteristics include durability. Doors, frames, and hardware shall be able to withstand constant opening and closing. Shall be fitted with a locking mechanism and lever type handle that allows the door to be opened from the inside while locked. Doors shall be a minimum of half-height glass. Doors shall be provided with self-closing device.
- **OBSERVATION WINDOW/FRAME:** Salient characteristics include durability. Glass shall be tinted for privacy.
- **PLUMBING:** None.
- **HVAC:** Provide per current codes. Consider providing independent thermostat.
- **FIRE PROTECTION:** Provide per current codes. Provide a smoke detector.
- **ELECTRICAL:** Provide outlets per current codes. Multiple electrical and data outlets to be provided to accommodate computer and other office equipment.

## Standard Design Criteria Fire Stations

- **LIGHTING:** Provide per current codes. Provide residential-style fixtures and task lighting at desk.
- **COMMUNICATION:**
  - CCTV. None required.
  - CATV/Internal Video. Provide one outlet.
  - PA/Audio. Provide speaker.
  - Telephone. Provide one line with internal two-way communication.
  - Data. Provide data outlets as required by equipment.
  - Security. None required.
- **ACOUSTICS:** Provide partition and door construction with a minimum STC rating of 39.
- **CASEWORKS/BUILT-IN EQUIPMENT:** None
- **SPECIAL REQUIREMENTS:** None.

## Standard Design Criteria Fire Stations

### 32. **SPACE:** Department Training Room (Headquarters Fire Stations only).

- **FUNCTIONAL DESCRIPTION:** This area is utilized for continuing education and training. It is sized to accommodate the entire on-duty population of the Fire Station.
- **ADJACENCIES:** This area is in the Administrative Office area of the Fire Station. Shall be directly accessible from the corridor in the Administrative Office area. Shall be adjacent to and have direct access to Training Room Storage room. Shall be adjacent to the Training Officer's Office and Computer Training/Testing Room with an observation window from the Training Officer's Office.
- **OCCUPANTS:** Fire Station Staff.
- **MINIMUM AREA:**  
One Company Headquarters: 420 SF, Net.  
Two Company Headquarters: 700 SF, Net.  
Three Company Headquarters: 980 SF, Net.
- **CEILING HEIGHT:** 8 ft. minimum.
- **MINIMUM FLOOR and BASE CONSTRUCTION/SURFACE PERFORMANCE:** Provide low maintenance sheet or tile vinyl flooring material. Consider providing durable commercial carpeting. Salient characteristics include durable and easy to clean, repairable, and easy to maintain. A base material, appropriate for the flooring material used, is required.
- **MINIMUM WALL CONSTRUCTION/SURFACE PERFORMANCE:** Provide a low-maintenance finish such as egg-shell latex paint. Salient characteristics include durable and easy to clean, repairable, and easy to maintain.
- **MINIMUM CEILING CONSTRUCTION/SURFACE PERFORMANCE:** Provide acoustical ceiling panels (ACP). Salient characteristics include ease of accessibility to mechanical system above ceiling, durable, and shall provide an aesthetically pleasing surface, free of sags or other defects.
- **DOORS/FRAME:** Salient characteristics include durability. Doors, frames, and hardware shall be able to withstand constant opening and closing. Shall be fitted with a locking mechanism and lever type handle that allows the door to be opened from the inside while locked. Doors shall be a minimum of half-height glass. Doors shall be provided with self-closing device.
- **PLUMBING:** None.
- **HVAC:** Provide per current codes. Provide independent thermostat.
- **FIRE PROTECTION:** Provide per current codes. Provide a smoke detector.
- **ELECTRICAL:** Provide outlets per current codes. Providing direct power to each work table.
- **LIGHTING:** Provide per current codes.

## Standard Design Criteria Fire Stations

- **COMMUNICATION:**  
CCTV. None required.  
CATV/Internal Video. Provide one outlet.  
PA/Audio. Provide speaker.  
Telephone. Provide one line with internal two-way communication.  
Data. Provide data outlets to every workstation. Provide outlets and data drops for an overhead projector and electric overhead projector screen.  
Security. None required.
- **ACOUSTICS:** Provide partition and door construction with a minimum STC rating of 45.
- **CASEWORKS/BUILT-IN EQUIPMENT:** Provide overhead retractable screen and overhead projector mount.
- **SPECIAL REQUIREMENTS:** Provide audiovisual capabilities with phone and Internet connections for each training station. Provide retractable overhead screen and overhead projector mount.

## Standard Design Criteria

### Fire Stations

#### 33. **SPACE: Training Room Storage** (Headquarters Fire Stations only).

- **FUNCTIONAL DESCRIPTION:** This area is storage for audiovisual equipment, media, and additional equipment and furnishings.
- **ADJACENCIES:** This area is in the Administrative Office area of the Fire Station. Shall be directly accessible from the Department Training Room.
- **OCCUPANTS:** Training Officer.
- **MINIMUM AREA:** 80 SF, Net.
- **CEILING HEIGHT:** 8 ft. minimum.
- **MINIMUM FLOOR and BASE CONSTRUCTION/SURFACE PERFORMANCE:** Salient characteristics include durable and easy to clean, repairable, and easy to maintain. A base material, appropriate for the flooring material used, is required.
- **MINIMUM WALL CONSTRUCTION/SURFACE PERFORMANCE:** Provide a low-maintenance finish such as egg-shell latex paint. Salient characteristics include durable and easy to clean, repairable, and easy to maintain.
- **MINIMUM CEILING CONSTRUCTION/SURFACE PERFORMANCE:** Provide acoustical ceiling panels (ACP). Salient characteristics include ease of accessibility to mechanical system above ceiling, durable, and shall provide an aesthetically pleasing surface, free of sags or other defects.
- **DOORS/FRAME:** Salient characteristics include durability. Doors, frames, and hardware shall be able to withstand constant opening and closing. Shall be fitted with a locking mechanism and lever type handle that allows the door to be opened from the inside while locked. Doors shall be provided with self-closing device.
- **PLUMBING:** None.
- **HVAC:** Provide per current codes.
- **FIRE PROTECTION:** Provide per current codes. Provide a smoke detector.
- **ELECTRICAL:** Provide outlets per current codes.
- **LIGHTING:** Provide per current codes. Provide 50 ft. candles (540 Lux) with fluorescent energy efficient light fixtures.
- **COMMUNICATION:**
  - CCTV. None required.
  - CATV/Internal Video. None required.
  - PA/Audio. None required.
  - Telephone. None required.
  - Data. None required.
  - Security. None required.

## Standard Design Criteria Fire Stations

- **ACOUSTICS:** Provide partition and door construction with a minimum STC rating of 40.
- **CASEWORKS/BUILT-IN EQUIPMENT:** None
- **SPECIAL REQUIREMENTS:** A minimum of 4 adjustable shelves with heavy duty standards and brackets will be provided. Provide shelves on as many walls of the storage rooms as possible while maintaining adequate circulation space. Shelving shall be able to support 100 pounds per lineal foot.

## Standard Design Criteria Fire Stations

### 34. SPACE: Computer Training/ Testing Room

- **FUNCTIONAL DESCRIPTION:** This area is utilized for Computer Training and Testing consisting of space for carrels for study and testing.
- **ADJACENCIES:** This area is in the Administrative Office area of the Fire Station. Shall be directly accessible from the corridor in the Administrative Office area. Shall be adjacent to the Training Officer's with an observation window from the Training Officer's Office.
- **OCCUPANTS:** Fire Station Staff.
- **MINIMUM AREA:** 190 SF, Net.
- **CEILING HEIGHT:** 8 ft. minimum.
- **MINIMUM FLOOR and BASE CONSTRUCTION/SURFACE PERFORMANCE:** Provide low maintenance sheet or tile vinyl flooring material. Consider providing durable commercial carpeting. Salient characteristics include durable and easy to clean, repairable, and easy to maintain. A base material, appropriate for the flooring material used, is required.
- **MINIMUM WALL CONSTRUCTION/SURFACE PERFORMANCE:** Provide a low-maintenance finish such as egg-shell latex paint. Salient characteristics include durable and easy to clean, repairable, and easy to maintain.
- **MINIMUM CEILING CONSTRUCTION/SURFACE PERFORMANCE:** Provide acoustical ceiling panels (ACP). Salient characteristics include ease of accessibility to mechanical system above ceiling, durable, and shall provide an aesthetically pleasing surface, free of sags or other defects.
- **DOORS/FRAME:** Salient characteristics include durability. Doors, frames, and hardware shall be able to withstand constant opening and closing. Shall be fitted with a locking mechanism and lever type handle that allows the door to be opened from the inside while locked. Doors shall be a minimum of half-height glass. Doors shall be provided with self-closing device.
- **PLUMBING:** None.
- **HVAC:** Provide per current codes. Consider providing independent thermostat.
- **FIRE PROTECTION:** Provide per current codes. Provide a smoke detector.
- **ELECTRICAL:** Provide outlets per current codes. Provide direct power to each computer/study carol and printer.
- **LIGHTING:** Provide per current codes. Provide 50 ft. candles (540 Lux) with fluorescent energy efficient light fixtures.
- **COMMUNICATION:**  
CCTV. Provide video camera with monitor located in Training Officer's Office.

## Standard Design Criteria Fire Stations

CATV/Internal Video. None required.

PA/Audio. Provide speaker.

Telephone. None required.

Data. Provide data outlets to all workstations and equipment.

Security. None required.

- **ACOUSTICS:** Provide partition and door construction with a minimum STC rating of 49.
- **CASEWORKS/BUILT-IN EQUIPMENT:** None.
- **SPECIAL REQUIREMENTS:** None.

## Standard Design Criteria Fire Stations

### 35. **SPACE:** EMS Office (Headquarters Fire Stations only).

- **FUNCTIONAL DESCRIPTION:** The room includes a typical office space and workstation
- **ADJACENCIES:** This area is in the Administrative Office area of the Fire Station. Shall be directly accessible from the corridor in the Administrative Office area.
- **OCCUPANTS:** EMS Staff.
- **MINIMUM AREA:** 80 SF, Net.
- **CEILING HEIGHT:** 8 ft. minimum.
- **MINIMUM FLOOR and BASE CONSTRUCTION/SURFACE PERFORMANCE:** Provide low maintenance sheet or tile vinyl flooring material. Consider providing durable commercial carpeting. Salient characteristics include durable and easy to clean, repairable, and easy to maintain. A base material, appropriate for the flooring material used, is required.
- **MINIMUM WALL CONSTRUCTION/SURFACE PERFORMANCE:** Provide a low-maintenance finish such as egg-shell latex paint. Salient characteristics include durable and easy to clean, repairable, and easy to maintain.
- **MINIMUM CEILING CONSTRUCTION/SURFACE PERFORMANCE:** Provide acoustical ceiling panels (ACP). Salient characteristics include ease of accessibility to mechanical system above ceiling, durable, and shall provide an aesthetically pleasing surface, free of sags or other defects.
- **DOORS/FRAME:** Salient characteristics include durability. Doors, frames, and hardware shall be able to withstand constant opening and closing. Shall be fitted with a locking mechanism and lever type handle that allows the door to be opened from the inside while locked. Doors shall be a minimum of half-height glass. Doors shall be provided with self-closing device.
- **PLUMBING:** None.
- **HVAC:** Provide per current codes. Consider providing independent thermostat.
- **FIRE PROTECTION:** Provide per current codes. Provide a smoke detector.
- **ELECTRICAL:** Provide outlets per current codes. Multiple electrical and data outlets to be provided to accommodate computer and other office equipment.
- **LIGHTING:** Provide per current codes. Provide residential-style fixtures and task lighting at desk.
- **COMMUNICATION:**  
CCTV. None required.  
CATV/Internal Video. Provide one outlet.  
PA/Audio. Provide speaker.

## Standard Design Criteria Fire Stations

Telephone. Provide one line with internal two-way communication.

Data. Provide data outlets as required by equipment.

Security. None required.

- **ACOUSTICS:** Provide partition and door construction with a minimum STC rating of 39.
- **CASEWORKS/BUILT-IN EQUIPMENT:** None
- **SPECIAL REQUIREMENTS:** None.

## Standard Design Criteria Fire Stations

### 36. **SPACE:** HAZMAT/Safety Office (Headquarters Fire Stations only).

- **FUNCTIONAL DESCRIPTION:** The room includes a typical office space and workstation
- **ADJACENCIES:** This area is in the Administrative Office area of the Fire Station. Shall be directly accessible from the corridor in the Administrative Office area.
- **OCCUPANTS:** HAZMAT/Safety Staff.
- **MINIMUM AREA:** 120 SF, Net.
- **CEILING HEIGHT:** 8 ft. minimum.
- **MINIMUM FLOOR and BASE CONSTRUCTION/SURFACE PERFORMANCE:** Provide low maintenance sheet or tile vinyl flooring material. Consider providing durable commercial carpeting. Salient characteristics include durable and easy to clean, repairable, and easy to maintain. A base material, appropriate for the flooring material used, is required.
- **MINIMUM WALL CONSTRUCTION/SURFACE PERFORMANCE:** Provide a low-maintenance finish such as egg-shell latex paint. Salient characteristics include durable and easy to clean, repairable, and easy to maintain.
- **MINIMUM CEILING CONSTRUCTION/SURFACE PERFORMANCE:** Provide acoustical ceiling panels (ACP). Salient characteristics include ease of accessibility to mechanical system above ceiling, durable, and shall provide an aesthetically pleasing surface, free of sags or other defects.
- **DOORS/FRAME:** Salient characteristics include durability. Doors, frames, and hardware shall be able to withstand constant opening and closing. Shall be fitted with a locking mechanism and lever type handle that allows the door to be opened from the inside while locked. Doors shall be a minimum of half-height glass. Doors shall be provided with self-closing device.
- **PLUMBING:** None.
- **HVAC:** Provide per current codes. Consider providing independent thermostat.
- **FIRE PROTECTION:** Provide per current codes. Provide a smoke detector.
- **ELECTRICAL:** Provide outlets per current codes. Multiple electrical and data outlets to be provided to accommodate computer and other office equipment.
- **LIGHTING:** Provide per current codes. Provide residential-style fixtures and task lighting at desk.
- **COMMUNICATION:**  
CCTV. None required.  
CATV/Internal Video. Provide one outlet.  
PA/Audio. Provide speaker.

## Standard Design Criteria Fire Stations

Telephone. Provide one line with internal two-way communication.

Data. Provide data outlets as required by equipment.

Security. None required.

- **ACOUSTICS:** Provide partition and door construction with a minimum STC rating of 39.
- **CASEWORKS/BUILT-IN EQUIPMENT:** None
- **SPECIAL REQUIREMENTS:** None.

## Standard Design Criteria

### Fire Stations

#### 37. **SPACE: Day/Training Room** (Includes Kitchen)

- **FUNCTIONAL DESCRIPTION:** The room shall be configured and furnished like a large residential kitchen/dining/living room. The dining area shall be flexible to accommodate various functions such as informal meetings and group training for the number of companies on duty. Provide means of natural light in the Dining area. Shall have comfortable seating for TV watching, reading, and relaxation in the living room area. Kitchen shall be sized to provide ample room for meal preparation for the entire facility's overnight population. All kitchen appliances shall be light commercial grade. Separate dry and cold food storage shall be provided for each shift.
- **ADJACENCIES:** This area is in the Living Area of the Fire Station. Shall be directly accessible from the corridor in the Living Area.
- **OCCUPANTS:** Fire Station Staff.
- **MINIMUM AREA:**  
One Company: 648 SF, Net.  
Two Company: 1,296 SF, Net.  
Three Company: 1,944 SF, Net.
- **CEILING HEIGHT:** 8 ft. minimum.
- **MINIMUM FLOOR and BASE CONSTRUCTION/SURFACE PERFORMANCE:** Provide low maintenance sheet or tile vinyl flooring material. In the Living Room area, consider providing durable commercial carpeting. Salient characteristics include durable and easy to clean, repairable, and easy to maintain. A base material, appropriate for the flooring material used, is required.
- **MINIMUM WALL CONSTRUCTION/SURFACE PERFORMANCE:** Provide a low-maintenance finish such as egg-shell latex paint in the Dining and Living Room areas and semi-gloss industrial latex based paint in the Kitchen area. Salient characteristics include durable and easy to clean, repairable, and easy to maintain.
- **MINIMUM CEILING CONSTRUCTION/SURFACE PERFORMANCE:** Provide acoustical ceiling panels (ACP) or gypsum wall board (GWB) with egg-shell paint. Salient characteristics include ease of accessibility to mechanical system above ceiling, durable, and shall provide an aesthetically pleasing surface, free of sags or other defects.
- **DOORS/FRAME:** Salient characteristics include durability. Doors, frames, and hardware shall be able to withstand constant opening and closing. Provide a set of exterior 3 foot by 7 foot doors, fitted with a locking mechanism and flush panic hardware at the exit. Doors shall be provided with self-closing device.
- **PLUMBING:** Provide two-basin, deep kitchen sink. Provide connections for the dishwashers, coffee and ice makers. A floor drain is required in this area that shall be self priming, or designed to prevent sewer gases from entering the occupied space by a proven and maintenance-free design.

## Standard Design Criteria

### Fire Stations

- **HVAC:** Provide per current codes. Provide exhaust hood over kitchen stoves appropriate to the grade of equipment provided.
- **FIRE PROTECTION:** Provide per current codes. Refer to NFPA 96 to confirm fire protection requirements for the grade of kitchen equipment provided. Provide carbon monoxide and smoke detectors.
- **ELECTRICAL:** Provide outlets per current codes and to accommodate all kitchen equipment. Provide dedicated circuits as necessary to minimize power interruptions.
- **LIGHTING:** Provide per current codes. Provide 50 ft. candles (540 Lux) with incandescent energy efficient light fixtures. Consider residential-style lighting fixtures. Consider providing dimmers for all light fixtures.
- **COMMUNICATION:**
  - CCTV. None required.
  - CATV/Internal Video. Provide at least one outlet in the Day Room area.
  - PA/Audio. Provide speaker.
  - Telephone. Provide one line with internal two-way communication.
  - Data. Provide at least one outlet in the dining/training area. Consider providing outlets in the living room area. In Satellite stations, provide outlets and data drops for an overhead projector and electric overhead projector screen.
  - Security. None required.
- **ACOUSTICS:** Provide partition and door construction with a minimum STC rating of 45.
- **CASEWORKS/BUILT-IN EQUIPMENT:** Provide base and wall cabinets with 24-in. deep solid surface work counter. Provide a minimum of two separate dry storage closets or pantries (one for each of two shifts).
- **SPECIAL REQUIREMENTS:**

Kitchen area: Provide space for a large-capacity dishwasher, stove/range, exhaust hood, and free-standing ice maker. Provide space for a minimum of two separate refrigerators with freezers (one for each of two shifts), microwave oven, commercial-grade coffee maker, and toaster oven. All equipment shall be commercial grade.

Dining/Training area: Provide space for dining table with chairs. In the Satellite stations, provide retractable overhead screen and overhead projector mount.

Living Room area: Provide space for recliner armchairs, side tables, entertainment center, large-screen TV, VCR, and DVD player. Consider providing space for bookshelves and coffee table(s).

## Standard Design Criteria

### Fire Stations

#### 38. SPACE: Dorm Rooms

- **FUNCTIONAL DESCRIPTION:** The rooms are the private quarters of the firefighters and are used for sleeping during 24-hour shifts. The room is shared between two firefighters of different crews/shifts so that the room is never occupied simultaneously. Shall provide space for individual wardrobes for each firefighter. Shall provide space for a two-bed arrangement, giving each firefighter an individual bed and nightstand. The Dorm Rooms should be a comfortable, inviting space that promotes relaxation. Acoustical privacy between rooms is important. Provide means of natural light in every room.
- **ADJACENCIES:** This area is in the Living Area of the Fire Station. Shall be directly accessible from the private corridor in the Living Area.
- **OCCUPANTS:** Fire Station Staff.
- **MINIMUM AREA:** One Dorm Room: 140 SF, Net.  
One Company- 5 Dorm Rooms: 700 SF, Net.  
Two Company- 10 Dorm Rooms: 1,400 SF, Net.  
Three Company- 15 Dorm Rooms: 2,100 SF, Net.
- **CEILING HEIGHT:** 8 ft. minimum.
- **MINIMUM FLOOR and BASE CONSTRUCTION/SURFACE PERFORMANCE:** Provide low maintenance sheet or tile vinyl flooring material. Consider providing durable commercial carpeting. Salient characteristics include durable and easy to clean, repairable, and easy to maintain. A base material, appropriate for the flooring material used, is required.
- **MINIMUM WALL CONSTRUCTION/SURFACE PERFORMANCE:** Provide a low-maintenance finish such as egg-shell latex paint. Salient characteristics include durable and easy to clean, repairable, and easy to maintain.
- **MINIMUM CEILING CONSTRUCTION/SURFACE PERFORMANCE:** Provide gypsum wall board (GWB) with egg-shell latex paint. Salient characteristics include ease of accessibility to mechanical system above ceiling, durable, and shall provide an aesthetically pleasing surface, free of sags or other defects.
- **DOORS/FRAME:** Salient characteristics include durability. Doors, frames, and hardware shall be able to withstand constant opening and closing. Shall be fitted with a locking mechanism and lever type handle that allows the door to be opened from the inside while locked. Doors shall be provided with self-closing device.
- **PLUMBING:** None.
- **HVAC:** Provide per current codes. Providing independent thermostat for each Dorm Room.
- **FIRE PROTECTION:** Provide per current codes. Provide carbon monoxide and smoke detectors.

## Standard Design Criteria Fire Stations

- **ELECTRICAL:** Provide outlets per current codes.
- **LIGHTING:** Provide per current codes. In addition to the ambient and task lighting fixtures, provide a dedicated alert light fixture that is controllable from the Watch Desk/Dispatch and tied into the firefighting alert system with a red-tinted bulb or lens.
- **COMMUNICATION:**
  - CCTV. None required.
  - CATV/Internal Video. Provide one outlet.
  - PA/Audio. Provide speaker.
  - Telephone. Provide one line with internal two-way communication.
  - Data. Provide a data outlet.
  - Security. None required.
- **ACOUSTICS:** Provide partition and door construction with a minimum STC rating of 52.
- **CASEWORKS/BUILT-IN EQUIPMENT:** None
- **SPECIAL REQUIREMENTS:** Provide space for extra-long twin bed, night table, two wardrobes, desk and desk chair, desk light, and alarm clock.

## Standard Design Criteria Fire Stations

### 39. SPACE: Men Bathroom/Showers/Changing

- **FUNCTIONAL DESCRIPTION:** This area shall contain private water closets, lavatory and shower stalls with private changing areas for firefighters.
- 
- **ADJACENCIES:** This area is in the Living Area of the Fire Station. Shall be directly accessible from the corridor in the Living Area.
- **OCCUPANTS:** Fire Station Staff.
- **MINIMUM AREA:**  
One Company: 250 SF, Net.  
Two Company: 325 SF, Net.  
Three Company: 350 SF, Net.
- **MINIMUM FLOOR and BASE CONSTRUCTION/SURFACE PERFORMANCE:** Provide slip resistant ceramic tile. Floors shall be able to withstand the warm humid environment and shall be able to keep water from getting under the flooring material. Salient characteristics include durable and easy to clean, repairable, easy to maintain, and slip resistant. A base material, appropriate for the flooring material used, is required. Base shall be sealed to the flooring.
- **MINIMUM WALL CONSTRUCTION/SURFACE PERFORMANCE:** Provide moisture and mildew resistant gypsum wall board. Provide a full-height hard tile finish on all walls that is impervious to water and shall be able to withstand daily sanitizing. Salient characteristics include durable and easy to clean, repairable, and easy to maintain.
- **MINIMUM CEILING CONSTRUCTION/SURFACE PERFORMANCE.** Provide skim-coated cementitious backer board ceiling. Salient characteristics include ease of accessibility to mechanical system above ceiling, durable, and shall provide an aesthetically pleasing surface, free of sags or other defects.
- **DOORS/FRAME:** Salient characteristics include durability. Doors, frames, and hardware shall be able to withstand constant opening and closing. Doors shall be provided with self-closing device.
- **PLUMBING:** Provide shower stalls, lavatories, and water closets. A floor drain is required in this area that shall be self priming, or designed to prevent sewer gases from entering the occupied space by a proven and maintenance-free design. Provide a hot water hose bibb under sink area to assist in disinfection.  
One-Company Station: Provide 2 water closets, 2 showers, and 2 lavatories.  
Two-Company Station: Provide 4 water closets, 4 showers, and 3 lavatories.  
Three-Company Station: Provide 4 water closets, 4 showers, and 4 lavatories.
- **HVAC:** Provide per current codes.
- **FIRE PROTECTION:** Provide per current codes.
- **ELECTRICAL:** Provide outlets per current codes.

## Standard Design Criteria Fire Stations

- **LIGHTING:** Provide per current codes.
- **COMMUNICATION:**
  - CCTV. None required.
  - CATV/Internal Video. None required.
  - PA/Audio. Speaker required.
  - Telephone. None required.
  - Data. None required.
  - Security. None required.
- **ACOUSTICS:** None.
- **CASEWORKS/BUILT-IN EQUIPMENT:** Provide 24-in deep minimum solid surface materials for countertops. Provide 24-in deep minimum resin based materials for showers, urinals, and toilet partitions.
- **SPECIAL REQUIREMENTS:** None.

## Standard Design Criteria Fire Stations

### 40. SPACE: Women Bathroom/Showers/Changing

- **FUNCTIONAL DESCRIPTION:** This area shall contain private water closets, lavatory and shower stalls with private changing areas for firefighters.
- 
- **ADJACENCIES:** This area is in the Living Area of the Fire Station. Shall be directly accessible from the corridor in the Living Area.
- **OCCUPANTS:** Fire Station Staff.
- **MINIMUM AREA:**  
All Fire Stations: 150 SF, Net.
- **MINIMUM FLOOR and BASE CONSTRUCTION/SURFACE PERFORMANCE:** Provide slip resistant ceramic tile. Floors shall be able to withstand the warm humid environment and shall be able to keep water from getting under the flooring material. Salient characteristics include durable and easy to clean, repairable, easy to maintain, and slip resistant. A base material, appropriate for the flooring material used, is required. Base shall be sealed to the flooring.
- **MINIMUM WALL CONSTRUCTION/SURFACE PERFORMANCE:** Provide moisture and mildew resistant gypsum wall board. Provide a full-height hard tile finish on all walls that is impervious to water and shall be able to withstand daily sanitizing. Salient characteristics include durable and easy to clean, repairable, and easy to maintain.
- **MINIMUM CEILING CONSTRUCTION/SURFACE PERFORMANCE.** Provide skim-coated cementitious backer board ceiling. Salient characteristics include ease of accessibility to mechanical system above ceiling, durable, and shall provide an aesthetically pleasing surface, free of sags or other defects.
- **DOORS/FRAME:** Salient characteristics include durability. Doors, frames, and hardware shall be able to withstand constant opening and closing. Doors shall be provided with self-closing device.
- **PLUMBING:** Provide shower stalls, lavatories, and water closets. A floor drain is required in this area that shall be self priming, or designed to prevent sewer gases from entering the occupied space by a proven and maintenance-free design. Provide a hot water hose bibb under sink area to assist in disinfection.  
All Fire Stations: Provide 1 water closet, 1 shower, and 1 lavatory.
- **HVAC:** Provide per current codes.
- **FIRE PROTECTION:** Provide per current codes.
- **ELECTRICAL:** Provide outlets per current codes.
- **LIGHTING:** Provide per current codes.
- **COMMUNICATION:**  
CCTV. None required.

## Standard Design Criteria Fire Stations

CATV/Internal Video. None required.

PA/Audio. Speaker required.

Telephone. None required.

Data. None required.

Security. None required.

- **ACOUSTICS:** None.
- **CASEWORKS/BUILT-IN EQUIPMENT:** Provide 24-in deep minimum solid surface materials for countertops. Provide 24-in deep minimum resin based materials for showers and toilet partitions.
- **SPECIAL REQUIREMENTS:** None.

## Standard Design Criteria

### Fire Stations

#### 41. SPACE: Fitness Room

- **FUNCTIONAL DESCRIPTION:** The room shall accommodate fitness machines, treadmill, stationary bicycle, elliptical machine, free weights and mats. Room shall be sized to provide free circulation.
- **ADJACENCIES:** This area is in the Living Area of the Fire Station. Shall be directly accessible from the corridor in the Living Area and shall be adjacent to, or in the proximity of, the Bathroom/Showers/Changing area.
- **OCCUPANTS:** Fire Station Staff.
- **MINIMUM AREA:** 437 SF, Net.
- **CEILING HEIGHT:** 8 ft. minimum.
- **MINIMUM FLOOR and BASE CONSTRUCTION/SURFACE PERFORMANCE:** Provide low maintenance sheet or tile vinyl flooring material. Consider a cork, sports, or rubberized flooring system. Salient characteristics include durable and easy to clean, repairable, and easy to maintain. A base material, appropriate for the flooring material used, is required.
- **MINIMUM WALL CONSTRUCTION/SURFACE PERFORMANCE:** Provide a low-maintenance finish such as egg-shell latex paint. Salient characteristics include durable and easy to clean, repairable, and easy to maintain.
- **MINIMUM CEILING CONSTRUCTION/SURFACE PERFORMANCE:** Provide moisture resistant acoustical ceiling panels (ACP) or gypsum wall board (GWB) with egg-shell paint. Salient characteristics include ease of accessibility to mechanical system above ceiling, durable, and shall provide an aesthetically pleasing surface, free of sags or other defects.
- **DOORS/FRAME:** Salient characteristics include durability. Doors, frames, and hardware shall be able to withstand constant opening and closing. Shall be fitted with a locking mechanism and lever type handle that allows the door to be opened from the inside while locked. Doors shall be a minimum of half-height glass and shall be provided with a minimum 24" wide sidelite. Doors shall be provided with self-closing device.
- **OBSERVATION WINDOW/FRAME:** Salient characteristics include durability.
- **PLUMBING:** None.
- **HVAC:** Provide per current codes. In addition, provide 68 F (20 C) minimum, 74 F (23 C) maximum, less than 60% relative humidity, 20 cfm/person outside air and use CO2 sensors to control outside air. Provide multi-speed ceiling fans.
- **FIRE PROTECTION:** Provide per current codes. Provide carbon monoxide and smoke detectors.
- **ELECTRICAL:** Provide outlets per current codes and provide wall or floor outlets to accommodate fitness machines such as treadmills, bikes, and stair-step machines.

## Standard Design Criteria Fire Stations

- **LIGHTING:** Provide per current codes.
- **COMMUNICATION:**
  - CCTV. None required.
  - CATV/Internal Video. Provide at least one outlet in for wall mounted unit.
  - PA/Audio. Provide speaker.
  - Telephone. Provide one line with internal two-way communication.
  - Data. None required.
  - Security. None required.
- **ACOUSTICS:** Provide partition and door construction with a minimum STC rating of 52.
- **CASEWORKS/BUILT-IN EQUIPMENT:** Provide full-wall-height mirrors on at least one wall.
- **SPECIAL REQUIREMENTS:** None.

## Standard Design Criteria

### Fire Stations

#### 42. **SPACE: Additional Toilet/Shower** (Headquarters Fire Stations only).

- **FUNCTIONAL DESCRIPTION:** This area shall be lavatory, water closet, and shower area for Fire Station staff.
- **ADJACENCIES:** This area is in the Living Area of the Fire Station. Shall be directly accessible from the corridor in the Living Area.
- **OCCUPANTS:** Fire Station Staff.
- **MINIMUM AREA:** 60 SF, Net.
- **MINIMUM FLOOR and BASE CONSTRUCTION/SURFACE PERFORMANCE:** Floors shall be able to withstand the warm humid environment and shall be able to keep water from getting under the flooring material. Salient characteristics include durable and easy to clean, repairable, easy to maintain, and slip resistant. A base material, appropriate for the flooring material used, is required. Base shall be sealed to the flooring.
- **MINIMUM WALL CONSTRUCTION/SURFACE PERFORMANCE:** Providing moisture and mildew resistant gypsum wall board. Provide a low-maintenance finish such as egg-shell latex paint. On all walls, a minimum 48" tall wainscot is required that is impervious to water and be able to withstand daily sanitizing. Salient characteristics include durable and easy to clean, repairable, and easy to maintain.
- **MINIMUM CEILING CONSTRUCTION/SURFACE PERFORMANCE:** Provide moisture resistant gypsum board ceiling. Consider semi-gloss industrial paint. Salient characteristics include ease of accessibility to mechanical system above ceiling, durable, and shall provide an aesthetically pleasing surface, free of sags or other defects.
- **DOORS/FRAME:** Salient characteristics include durability. Doors, frames, and hardware shall be able to withstand constant opening and closing. Shall be fitted with a locking mechanism and lever type handle that allows the door to be opened from the inside while locked. Doors shall be provided with self-closing device.
- **PLUMBING:** Provide water closet, shower, and lavatory. A floor drain is required in this area that shall be self priming, or designed to prevent sewer gases from entering the occupied space by a proven and maintenance-free design.
- **HVAC:** Provide per current codes. Local exhaust vent above toilet.
- **FIRE PROTECTION:** Provide per current codes. Provide a smoke detector.
- **ELECTRICAL:** Provide outlets per current codes.
- **LIGHTING:** Provide per current codes.
- **COMMUNICATION:**
  - CCTV. None required.
  - CATV/Internal Video. None required.
  - PA/Audio. None required.
  - Telephone. None required.

## Standard Design Criteria Fire Stations

Data. None required.

Security. None required.

- **ACOUSTICS:** None.
- **CASEWORKS/BUILT-IN EQUIPMENT:** Provide 24-in deep minimum solid surface materials for countertops. Provide 24-in deep minimum resin based materials for shower.
- **SPECIAL REQUIREMENTS:** None.

## Standard Design Criteria

### Fire Stations

#### 43. SPACE: Laundry Room

- **FUNCTIONAL DESCRIPTION:** This room shall accommodate large heavy duty commercial washers and dryers, built-in laundry-folding table and wall-mounted drying rack for the firefighters' personal use.
- **ADJACENCIES:** This area is in the Living Areas of the Fire Station. Shall be directly accessible from the corridor in the Living areas.
- **OCCUPANTS:** Fire Station Staff.
- **MINIMUM AREA:**  
One Company: 80 SF, Net.  
Two Company: 160 SF, Net.  
Three Company: 240 SF, Net.
- **MINIMUM FLOOR and BASE CONSTRUCTION/SURFACE PERFORMANCE:** Floors shall be able to withstand the warm humid environment and shall be able to keep water from getting under the flooring material. Salient characteristics include durable and easy to clean, repairable, easy to maintain, and slip resistant. A base material, appropriate for the flooring material used, is required. Base shall be sealed to the flooring.
- **MINIMUM WALL CONSTRUCTION/SURFACE PERFORMANCE:** Providing moisture and mildew resistant gypsum wall board. Provide a low-maintenance finish such as egg-shell latex paint. Salient characteristics include durable and easy to clean, repairable, and easy to maintain.
- **MINIMUM CEILING CONSTRUCTION/SURFACE PERFORMANCE:** Provide moisture resistant acoustical ceiling panels (ACP) or moisture resistant gypsum wall board (GWB) with semi-gloss latex paint. Salient characteristics include ease of accessibility to mechanical system above ceiling, durable, and shall provide an aesthetically pleasing surface, free of sags or other defects.
- **DOORS/FRAME:** Salient characteristics include durability. Doors, frames, and hardware shall be able to withstand constant opening and closing. Shall be fitted with a locking mechanism and lever type handle that allows the door to be opened from the inside while locked. Doors shall be a minimum of half-height glass. Doors shall be provided with self-closing device.
- **PLUMBING:** Provide water supply and drain to each washer. Provide a deep laundry sink. A floor drain is required in this area that shall be self priming, or designed to prevent sewer gases from entering the occupied space by a proven and maintenance-free design.
- **HVAC:** Provide per current codes.
- **FIRE PROTECTION:** Provide per current codes. Provide a smoke detector.
- **ELECTRICAL:** Provide outlets per current codes. Provide an additional outlet at the folding table.

## Standard Design Criteria Fire Stations

- **LIGHTING:** Provide per current codes.
- **COMMUNICATION:**
  - CCTV. None required.
  - CATV/Internal Video. None required.
  - PA/Audio. Provide a speaker.
  - Telephone. None required.
  - Data. None required.
  - Security. None required.
- **ACOUSTICS:** None.
- **CASEWORKS/BUILT-IN EQUIPMENT:** Provide a built-in laundry-folding table and wall-mounted drying rack.
- **SPECIAL REQUIREMENTS:** Dryer vents shall be individually and directly vented to the outside. A booster fan will be provided in the dryer vent when the travel distance exceeds 20 feet to the exterior.

## Standard Design Criteria

### Fire Stations

#### 44. SPACE: Janitor's Closet

- **FUNCTIONAL DESCRIPTION:** This room shall be utilized to store janitor's equipment and cleaning supplies.
- **ADJACENCIES:** This area is in the Living Area of the Fire Station. Shall be directly accessible from the corridor in the Living Area and shall be adjacent to, or in the proximity of, the Bathroom/Showers/Changing area. A Janitor's Room shall be provided on the first floor of a Two-Story Fire Station directly accessible from the Administrative Area's corridor also.
- **OCCUPANTS:** Fire Station Staff.
- **MINIMUM AREA:**  
One-Story Fire Station: 48 SF, Net.  
Two-Story Fire Station: 48 SF, Net- First Floor and 48 SF, Net- Second Floor
- **MINIMUM FLOOR and BASE CONSTRUCTION/SURFACE PERFORMANCE:** Floors shall be able to keep water from getting under the flooring material. Salient characteristics include durable and easy to clean, repairable, easy to maintain, and slip resistant. A base material, appropriate for the flooring material used, is required. Base shall be sealed to the flooring.
- **MINIMUM WALL CONSTRUCTION/SURFACE PERFORMANCE:** Providing moisture and mildew resistant gypsum wall board. Provide a low-maintenance finish such as egg-shell latex paint. Salient characteristics include durable and easy to clean, repairable, and easy to maintain.
- **MINIMUM CEILING CONSTRUCTION/SURFACE PERFORMANCE:** Provide moisture resistant acoustical ceiling panels (ACP) or gypsum wall board (GWB) with semi-gloss latex paint. Salient characteristics include ease of accessibility to mechanical system above ceiling, durable, and shall provide an aesthetically pleasing surface, free of sags or other defects.
- **DOORS/FRAME:** Salient characteristics include durability. Doors, frames, and hardware shall be able to withstand constant opening and closing. Shall be fitted with a locking mechanism and lever type handle that allows the door to be opened from the inside while locked. Doors shall be provided with self-closing device.
- **PLUMBING:** A utility (mop) sink is required. A floor drain is required in this area that shall be self priming, or designed to prevent sewer gases from entering the occupied space by a proven and maintenance-free design.
- **HVAC:** Provide per current codes. Local exhaust vent required.
- **FIRE PROTECTION:** Provide per current codes. Provide a smoke detector.
- **ELECTRICAL:** Provide outlets per current codes.
- **LIGHTING:** Provide per current codes.

## Standard Design Criteria Fire Stations

- **COMMUNICATION:**  
CCTV. None required.  
CATV/Internal Video. None required.  
PA/Audio. None required.  
Telephone. None required.  
Data. None required.  
Security. None required.
- **ACOUSTICS:** Provide partition and door construction with a minimum STC rating of 45.
- **CASEWORKS/BUILT-IN EQUIPMENT:** Adjustable with heavy duty standards and brackets shelves will be provided on at least one wall. Shelves shall be able to support 100 pounds per lineal foot.
- **SPECIAL REQUIREMENTS:** None.

## Standard Design Criteria

### Fire Stations

#### 45. **SPACE: Recreation Room** (Headquarters Fire Stations only).

- **FUNCTIONAL DESCRIPTION:** This area accommodates up to two "game units", such as pool tables, foosball tables, ping pong tables or video game consoles. Provide some acoustical separation from the Day/Training Room and the Dorm Rooms.
- **ADJACENCIES:** This area is in the Living Area of the Fire Station. Shall be directly accessible from the corridor in the Living Area and shall be adjacent to, or in the proximity of, the Day/Training Room.
- **OCCUPANTS:** Fire Station Staff.
- **MINIMUM AREA:** 420 SF, Net.
- **CEILING HEIGHT:** 8 ft. minimum.
- **MINIMUM FLOOR and BASE CONSTRUCTION/SURFACE PERFORMANCE:** Provide low maintenance sheet or tile vinyl flooring material. Salient characteristics include durable and easy to clean, repairable, and easy to maintain. A base material, appropriate for the flooring material used, is required.
- **MINIMUM WALL CONSTRUCTION/SURFACE PERFORMANCE:** Provide a low-maintenance finish such as egg-shell latex paint. Salient characteristics include durable and easy to clean, repairable, and easy to maintain.
- **MINIMUM CEILING CONSTRUCTION/SURFACE PERFORMANCE:** Provide acoustical ceiling panels (ACP) or gypsum wall board (GWB) with egg-shell paint. Salient characteristics include ease of accessibility to mechanical system above ceiling, durable, and shall provide an aesthetically pleasing surface, free of sags or other defects.
- **DOORS/FRAME:** Salient characteristics include durability. Doors, frames, and hardware shall be able to withstand constant opening and closing. Shall be fitted with a locking mechanism and lever type handle that allows the door to be opened from the inside while locked. Doors shall be a minimum of half-height glass. Doors shall be provided with self-closing device.
- **PLUMBING:** None.
- **HVAC:** Provide per current codes. Consider providing independent thermostat.
- **FIRE PROTECTION:** Provide per current codes. Provide carbon monoxide and smoke detectors.
- **ELECTRICAL:** Provide outlets per current codes. Provide power required to accommodate any game equipment.
- **LIGHTING:** Provide per current codes. Provide 50 ft. candles (540 Lux) with incandescent energy efficient light fixtures. Consider residential-style lighting fixtures. Consider providing dimmer for all light fixtures.

## Standard Design Criteria Fire Stations

- **COMMUNICATION:**
  - CCTV. None required.
  - CATV/Internal Video. Provide at least one outlet. Consider height of outlet for a wall mounted television.
  - PA/Audio. Provide speaker.
  - Telephone. Provide one line with internal two-way communication.
  - Data. None required.
  - Security. None required.
- **ACOUSTICS:** Provide partition and door construction with a minimum STC rating of 52.
- **CASEWORKS/BUILT-IN EQUIPMENT:** None.
- **SPECIAL REQUIREMENTS:** None.

## Standard Design Criteria Fire Stations

### 46. SPACE: Corridor

- **FUNCTIONAL DESCRIPTION:** Main Circulation Space.
- **ADJACENCIES:** Through Fire Station.
- **OCCUPANTS:** Fire Station Staff.
- **MINIMUM AREA:**  
One-Story Fire Station: Portion of Net-To-Gross Ratio= 22%.  
Two-Story Fire Station: Portion of Net-To-Gross Ratio= 30%.
- **CEILING HEIGHT:** 8 ft. minimum.
- **MINIMUM FLOOR and BASE CONSTRUCTION/SURFACE PERFORMANCE:** Provide low maintenance sheet or tile vinyl flooring material. Salient characteristics include durable and easy to clean, repairable, and easy to maintain. A base material, appropriate for the flooring material used, is required.
- **MINIMUM WALL CONSTRUCTION/SURFACE PERFORMANCE:** Provide a low-maintenance finish such as egg-shell latex paint. Salient characteristics include durable and easy to clean, repairable, and easy to maintain. Consider providing vinyl wall coverings.
- **MINIMUM CEILING CONSTRUCTION/SURFACE PERFORMANCE:** Provide acoustical ceiling panels (ACP) or gypsum wall board (GWB) with egg-shell paint. Salient characteristics include ease of accessibility to mechanical system above ceiling, durable, and shall provide an aesthetically pleasing surface, free of sags or other defects.
- **DOORS/FRAME:** Salient characteristics include durability. Doors, frames, and hardware shall be able to withstand constant opening and closing. Provide 3 foot by 7 foot doors, fitted with a locking mechanism and flush panic hardware at the entry/exits. Provide doors, fitted with passage hardware at the transitions doors. To ensure visibility, doors shall have vision panels. Doors shall be provided with self-closing device.
- **PLUMBING:** Provide water for electric water coolers.
- **HVAC:** Provide per current codes.
- **FIRE PROTECTION:** Provide per current codes. Provide a smoke detector.
- **ELECTRICAL:** Provide outlets per current codes. Consider outlets for display cases.
- **LIGHTING:** Provide per current codes. Provide 20 ft. candles (215 Lux) with fluorescent energy efficient light fixtures.
- **COMMUNICATION:**  
CCTV. Provide at least one outlet.  
CATV/Internal Video. None required.  
PA/Audio. Provide speaker.

## Standard Design Criteria Fire Stations

Telephone. None required

Data. None required.

Security. None required.

- **ACOUSTICS:** Provide partition and door construction with a minimum STC rating of 45.
- 
- **CASEWORKS/BUILT-IN EQUIPMENT:** None
- **SPECIAL REQUIREMENTS:** Corridor SHALL have a minimum clear width of NO LESS THAN 5'-0" in the Living Area. Corridor SHALL have a minimum clear width of NO LESS THAN 6'-0" in the Administration and Training areas. An ABA compliant bi-level electric water cooler shall be provided in the Administration and Training areas. An electric water cooler shall be provided in the Living Area.

## Standard Design Criteria Fire Stations

### 47. SPACE: Vending

- **FUNCTIONAL DESCRIPTION:** This area accommodates for two or more vending machines for snacks and drinks.
- **ADJACENCIES:** One location off of Corridor. Can be located in the Recreation Room.
- **OCCUPANTS:** Fire Station Staff.
- **MINIMUM AREA:** 40 SF, Net.
- **CEILING HEIGHT:** 8 ft. minimum.
- **MINIMUM FLOOR and BASE CONSTRUCTION/SURFACE PERFORMANCE:** Provide low maintenance sheet or tile vinyl flooring material. Salient characteristics include durable and easy to clean, repairable, and easy to maintain. A base material, appropriate for the flooring material used, is required.
- **MINIMUM WALL CONSTRUCTION/SURFACE PERFORMANCE:** Provide a low-maintenance finish such as egg-shell latex paint. Salient characteristics include durable and easy to clean, repairable, and easy to maintain. Consider providing vinyl wall coverings.
- **MINIMUM CEILING CONSTRUCTION/SURFACE PERFORMANCE:** Provide acoustical ceiling panels (ACP) or gypsum wall board (GWB) with egg-shell paint. Salient characteristics include ease of accessibility to mechanical system above ceiling, durable, and shall provide an aesthetically pleasing surface, free of sags or other defects.
- **DOORS/FRAME:** Salient characteristics include durability. Doors, frames, and hardware shall be able to withstand constant opening and closing. Provide 3 foot by 7 foot doors, fitted with a locking mechanism and flush panic hardware at the entry/exits. Provide doors, fitted with passage hardware at the transitions doors. To ensure visibility, doors shall have vision panels. Doors shall be provided with self-closing device.
- **PLUMBING:** None.
- **HVAC:** Provide per current codes.
- **FIRE PROTECTION:** Provide per current codes.
- **ELECTRICAL:** Provide outlets per current codes. Provide outlets and power required by vending machines.
- **LIGHTING:** Provide per current codes. Provide 20 ft. candles (215 Lux) with fluorescent energy efficient light fixtures.
- **COMMUNICATION:**
  - CCTV. Provide at least one outlet.
  - CATV/Internal Video. None required.
  - PA/Audio. Provide speakers and horns with visual element.

**Standard Design Criteria  
Fire Stations**

Telephone. None required.

Data. None required.

Security. None required.

- **ACOUSTICS:** None.
- **CASEWORKS/BUILT-IN EQUIPMENT:** None
- **SPECIAL REQUIREMENTS:** None

## Standard Design Criteria

### Fire Stations

#### 48. **SPACE: Emergency Operations Center** (Installation Requirement Only).

- **FUNCTIONAL DESCRIPTION:** This area, as dictated by Installation mission requirements is a specialized conference room used in cases of major operations to manage and coordinate rescue and emergency service efforts. It should be set up to handle planned and ad-hoc meetings and a high volume of telephone and computer communications.
- **ADJACENCIES:** Locate EOC Situation Room in an interior area of the building, adjacent to the Dispatch. Classified information may be accessed in this room.
- **OCCUPANTS:** EOC Staff.
- **MINIMUM AREA:** Per Room: 320 SF, Net.
- **CEILING HEIGHT:** 8 ft. minimum.
- **MINIMUM FLOOR and BASE CONSTRUCTION/SURFACE PERFORMANCE:** Provide low maintenance sheet or tile vinyl flooring material. Consider providing durable commercial carpeting. Salient characteristics include durable and easy to clean, repairable, and easy to maintain. A base material, appropriate for the flooring material used, is required.
- **MINIMUM WALL CONSTRUCTION/SURFACE PERFORMANCE:** Provide a low-maintenance finish such as egg-shell latex paint. Salient characteristics include durable and easy to clean, repairable, and easy to maintain. Consider providing vinyl wall coverings.
- **MINIMUM CEILING CONSTRUCTION/SURFACE PERFORMANCE:** Provide acoustical ceiling panels (ACP). Salient characteristics include ease of accessibility to mechanical system above ceiling, durable, and shall provide an aesthetically pleasing surface, free of sags or other defects.
- **DOORS/FRAME:** Salient characteristics include durability. Doors, frames, and hardware shall be able to withstand constant opening and closing. Provide doors, fitted with a locking mechanism and flush panic hardware at the entry/exit. Doors shall be provided with self-closing device.
- **PLUMBING:** None.
- **HVAC:** Provide per current codes.
- **FIRE PROTECTION:** Provide per current codes. Provide a smoke detector.
- **ELECTRICAL:** Provide outlets per current codes and to support all equipment.
- **LIGHTING:** Provide per current codes.
- **COMMUNICATION:**  
CCTV. Provide outlets required to support equipment.

## Standard Design Criteria

### Fire Stations

CATV/Internal Video. Provide outlets required to support equipment.

PA/Audio. Provide a speaker and a microphone.

Telephone. Provide regular and secure multi-telephone line required to support telephone and fax.

Data. Provide regular and secure data outlets to support required equipment.

Security. None required.

- **ACOUSTICS:** Provide partition and door construction with a minimum STC rating of 49.
- 
- **CASEWORKS/BUILT-IN EQUIPMENT:** Provide a retractable projector screen and overhead projector mount. Consider providing built-in case work such as a counter and base cabinets.
- **SPECIAL REQUIREMENTS:** If classified information at SECRET level shall be accessed in this room, address security, visibility, and data handling issues in accordance with the USAISEC Technical Guide for the Integration of SIPRNET and AR 380-5.

## Standard Design Criteria Fire Stations

### 49. SPACE: Recycle Room/Space

- **FUNCTIONAL DESCRIPTION:** An accessible area that serves the entire building and is dedicated to the collection and storage of non-hazardous materials for recycling, including at a minimum: paper, corrugated cardboard, glass, plastics, and metals.
- **ADJACENCIES:** Shall be directly accessible from the corridor of the Fire Station.
- **OCCUPANTS:** Fire Station Staff.
- **MINIMUM AREA:** 20 SF, Net.
- **CEILING HEIGHT:** 8 ft. minimum.
- **MINIMUM FLOOR and BASE CONSTRUCTION/SURFACE PERFORMANCE:** Provide low maintenance sheet or tile vinyl flooring material. Salient characteristics include durable and easy to clean, repairable, and easy to maintain. A base material, appropriate for the flooring material used, is required.
- **MINIMUM WALL CONSTRUCTION/SURFACE PERFORMANCE:** Provide a low-maintenance finish such as egg-shell latex paint. Salient characteristics include durable and easy to clean, repairable, and easy to maintain.
- **MINIMUM CEILING CONSTRUCTION/SURFACE PERFORMANCE:** Provide acoustical ceiling panels (ACP) or gypsum wall board (GWB) with egg-shell paint. Salient characteristics include ease of accessibility to mechanical system above ceiling, durable, and shall provide an aesthetically pleasing surface, free of sags or other defects.
- **DOORS/FRAME:** Salient characteristics include durability. Doors, frames, and hardware shall be able to withstand constant opening and closing. Shall be fitted with a locking mechanism and lever type handle that allows the door to be opened from the inside while locked. Doors shall be provided with self-closing device.
- **PLUMBING:** None.
- **HVAC:** Provide per current codes.
- **FIRE PROTECTION:** Provide per current codes. Provide a smoke detector.
- **ELECTRICAL:** Provide outlets per current codes.
- **LIGHTING:** Provide per current codes.
- **COMMUNICATION:**
  - CCTV. None required.
  - CATV/Internal Video. None required.
  - PA/Audio. Provide speaker.
  - Telephone. None required.
  - Data. None required.
  - Security. None required.

## Standard Design Criteria Fire Stations

- **ACOUSTICS:** None.
- **CASEWORKS/BUILT-IN EQUIPMENT:** None.
- **SPECIAL REQUIREMENTS:** The Recycle Room/Space only has to be a space. It can be allocated within another Fire Station's room.

## Standard Design Criteria Fire Stations

### 50. SPACE: Mechanical Room

- **FUNCTIONAL DESCRIPTION:** This area supports the Fire Station's mechanical functions.
- **ADJACENCIES:** Shall be directly accessible from the service drive.
- **OCCUPANTS:** Fire Station's mechanical equipment.
- **MINIMUM AREA:**  
One-Story Fire Station: Portion of Net-To-Gross Ratio= 22%.  
Two-Story Fire Station: Portion of Net-To-Gross Ratio= 30%.
- **CEILING HEIGHT:** Provide per current codes.
- **MINIMUM FLOOR and BASE CONSTRUCTION/SURFACE PERFORMANCE:** Provide per current codes.
- **MINIMUM WALL CONSTRUCTION/SURFACE PERFORMANCE:** Provide per current codes.
- **MINIMUM CEILING CONSTRUCTION/SURFACE PERFORMANCE** Provide per current codes.
- **DOORS/FRAME:** Salient characteristics include durability. Provide a set of double 3 foot by 7 foot doors, fitted with a locking mechanism and lever type handle that allows the door to be opened from the inside while locked. Doors, frames, and hardware shall be able to withstand constant opening and closing. Doors shall be provided with self-closing device.
- **PLUMBING:** Provide per current codes.
- **HVAC:** Provide per current codes.
- **FIRE PROTECTION:** Provide per current codes.
- **ELECTRICAL:** Provide outlets per current codes.
- **LIGHTING:** Provide per current codes.
- **COMMUNICATION:**  
CCTV. None required.  
CATV/Internal Video. None required.  
PA/Audio. None required.  
Telephone. None required.  
Data. None required.  
Security. None required.
- **ACOUSTICS:** Provide per current codes.

**Standard Design Criteria  
Fire Stations**

- **CASEWORKS/BUILT-IN EQUIPMENT:** None.
- **SPECIAL REQUIREMENTS:** Provide per current codes.

## Standard Design Criteria Fire Stations

### 51. SPACE: Electrical Room

- **FUNCTIONAL DESCRIPTION:** This area supports the Fire Station's electrical functions.
- **ADJACENCIES:** Shall be directly accessible from the service drive.
- **OCCUPANTS:** Fire Station's electrical equipment.
- **MINIMUM AREA:**  
One-Story Fire Station: Portion of Net-To-Gross Ratio= 22%.  
Two-Story Fire Station: Portion of Net-To-Gross Ratio= 30%.
- **CEILING HEIGHT:** Provide per current codes.
- **MINIMUM FLOOR and BASE CONSTRUCTION/SURFACE PERFORMANCE:** Provide per current codes.
- **MINIMUM WALL CONSTRUCTION/SURFACE PERFORMANCE:** Provide per current codes.
- **MINIMUM CEILING CONSTRUCTION/SURFACE PERFORMANCE** Provide per current codes.
- **DOORS/FRAME:** Salient characteristics include durability. Provide a 3 foot by 7 foot door, fitted with a locking mechanism and lever type handle that allows the door to be opened from the inside while locked. Doors, frames, and hardware shall be able to withstand constant opening and closing. Doors shall be provided with self-closing device.
- **PLUMBING:** Provide per current codes.
- **HVAC:** Provide per current codes.
- **FIRE PROTECTION:** Provide per current codes.
- **ELECTRICAL:** Provide outlets per current codes.
- **LIGHTING:** Provide per current codes.
- **COMMUNICATION:**  
CCTV. None required.  
CATV/Internal Video. None required.  
PA/Audio. None required.  
Telephone. None required.  
Data. None required.  
Security. None required.
- **ACOUSTICS:** Provide per current codes.

**Standard Design Criteria  
Fire Stations**

- **CASEWORKS/BUILT-IN EQUIPMENT:** None.
- **SPECIAL REQUIREMENTS:** Provide per current codes.

## Standard Design Criteria Fire Stations

### 52. SPACE: Patio

- **FUNCTIONAL DESCRIPTION:** This area shall be provided for firefighters to relax and grill.
- **ADJACENCIES:** Shall be adjacent to and with direct access to the Dayroom/Training Room.
- **OCCUPANTS:** Fire Station Staff.
- **MINIMUM AREA:**  
One or Two Company Fire Station: 150 SF, Net.  
Three Company Fire Station: 250 SF, Net.
- **CEILING HEIGHT:** None.
- **MINIMUM FLOOR and BASE CONSTRUCTION/SURFACE PERFORMANCE:**  
Concrete. Consider brick or stone paver accents.
- **MINIMUM WALL CONSTRUCTION/SURFACE PERFORMANCE:** None.
- **MINIMUM CEILING CONSTRUCTION/SURFACE PERFORMANCE** None. Consider providing shade structures.
- **DOORS/FRAME:** None.
- **PLUMBING:** Provide per current codes. Provide hose bibb and if natural gas is available provide a gas connection for an external grill.
- **HVAC:** None.
- **FIRE PROTECTION:** None. If an attached awning is provided, refer to NFPA 13 for the requirements.
- **ELECTRICAL:** Provide exterior outlets per current codes. Provide minimum of four weatherproof GFCI outlets.
- **LIGHTING:** Provide per current codes. Provide .5 ft. candles (11 Lux) with energy efficient outdoor light fixtures.
- **COMMUNICATION:**  
CCTV. None required.  
CATV/Internal Video. None required.  
PA/Audio. Provide a speaker.  
Telephone. None required.  
Data. None required.  
Security. None required.
- **ACOUSTICS** None.
- **CASEWORKS/BUILT-IN EQUIPMENT:** None.

**Standard Design Criteria  
Fire Stations**

- **SPECIAL REQUIREMENTS:** None.

## Standard Design Criteria Fire Stations

### 53. SPACE: Canopy

- **FUNCTIONAL DESCRIPTION:** This area shall be provided for weather protection at the main entrance to the Fire Station
- **ADJACENCIES:** Shall be directly off of the Lobby entrance of the Fire Station.
- **OCCUPANTS:** Fire Station Staff.  
**MINIMUM AREA:** 40 SF, Net. (Half of 80 SF, per US Army Technical Instructions 800-01 (TI 800-01), Design Criteria).
- **CEILING HEIGHT:** 8 ft. minimum.
- **MINIMUM FLOOR and BASE CONSTRUCTION/SURFACE PERFORMANCE:** Concrete. Consider brick or stone paver accents.
- **MINIMUM WALL CONSTRUCTION/SURFACE PERFORMANCE:** None.
- **MINIMUM CEILING CONSTRUCTION/SURFACE PERFORMANCE:** Salient characteristics include durable, and shall provide an aesthetically pleasing surface, free of sags or other defects.
- **DOORS/FRAME:** None.
- **PLUMBING:** None.
- **HVAC:** Provide per current codes.
- **FIRE PROTECTION:** Provide per current codes.
- **ELECTRICAL:** Provide outlets per current codes.
- **LIGHTING:** Provide per current codes.
- **COMMUNICATION:**  
CCTV. None required.  
CATV/Internal Video. None required.  
PA/Audio. Provide speaker.  
Telephone. None required.  
Data. None required.  
Security. None required.
- **ACOUSTICS:** None.
- **CASEWORKS/BUILT-IN EQUIPMENT:** None.
- **SPECIAL REQUIREMENTS:** None.

## Standard Design Criteria

### Fire Stations

#### 54. **SPACE: Vestibule** (As required by geographical location, in lieu of the Canopy).

- **FUNCTIONAL DESCRIPTION:** This area serves as the entrance/exit to the facility. The Vestibule should be recognizable from the outside as a well-lit, inviting space.
- **ADJACENCIES:** This area is in the Administrative Office area of the Fire Station and is the main entrance into the Fire Station.
- **OCCUPANTS:** Fire Station Visitors.
- **MINIMUM AREA:** Each: 80 SF, Net
- **CEILING HEIGHT:** 8 ft. minimum.
- **MINIMUM FLOOR and BASE CONSTRUCTION/SURFACE PERFORMANCE:** Salient characteristics include easy to clean, maintain, and repair. A base material, appropriate for the flooring material used, is required. Consider stone or quarry tile with stone or tile base.
- **MINIMUM WALL CONSTRUCTION/SURFACE PERFORMANCE:** Provide a low-maintenance finish such as egg-shell latex paint. Salient characteristics include easy to repair, easy to maintain, and durable. Consider providing vinyl wall coverings.
- **MINIMUM CEILING CONSTRUCTION/SURFACE PERFORMANCE:** Provide decorative acoustical ceiling panels (ACP). Salient characteristics include ease of accessibility to mechanical system above ceiling, durable, and shall provide an aesthetically pleasing surface, free of sags or other defects.
- **DOORS/FRAME:** Salient characteristics include durability. Doors, frames, and hardware shall be able to withstand constant opening and closing. Provide a set of storefront double 3 foot by 7 foot doors, fitted with a locking mechanism and flush panic hardware at the entry. To ensure maximum visibility, doors shall be fully glazed. Doors shall be provided with self-closing device.
- **PLUMBING:** None.
- **HVAC:** Provide per current codes.
- **FIRE PROTECTION:** Provide per current codes.
- **ELECTRICAL:** Provide outlets per current codes.
- **LIGHTING:** Provide per current codes. Consider decorative lighting fixtures and task lighting.
- **COMMUNICATION:**
  - CCTV. None required.
  - CATV/Internal Video. None required.
  - PA/Audio. None required.
  - Telephone. None required.
  - Data. None required.

## Standard Design Criteria Fire Stations

Security. None required.

- **ACOUSTICS:** None.
- **CASEWORKS/BUILT-IN EQUIPMENT:** None
- **SPECIAL REQUIREMENTS:**  
Provide airlock at main entrance when necessary.  
  
Consider a recessed, built-in mat at entry.

## Standard Design Criteria Fire Stations

### 55. SPACE: Site/Building Exterior

- The layout of the parking lot and traffic circulation must consider the safety of the Fire Station staff and visitors when entering and departing the facility. Access drives to staff and public parking should not cross the vehicle access drive out of the Apparatus Bay. If the parking lot design requires crosswalks, as a minimum, these must be painted and identifiable with signage in appropriate locations to ensure the safety of the personnel and visitors.
- Provide parking for authorized Fire Station staff. Parking area shall be sized to accommodate two shifts. Visitor parking shall be separate from staff parking.
- All sidewalks must be ABA compliant.







# HEADQUARTER FIRE STATION SPACE PROGRAM DATA (CONT.)



Functional Component	-----		TWO STORY TWO COMPANY HEADQUARTERS FIRESTATION		TWO STORY THREE COMPANY HEADQUARTERS FIRESTATION	
	NEW ARMY DESIGN STANDARD SQ. FT.	REQUIRED STANDARD SQ. FT.	NEW ARMY DESIGN STANDARD SQ. FT.	REQUIRED STANDARD SQ. FT.	NEW ARMY DESIGN STANDARD SQ. FT.	REQUIRED STANDARD SQ. FT.
<b>Apparatus Bay (Varies by Installation)</b>	-----	-----	5,642	5,642	5,642	5,642
<b>Apparatus Equipment and Maintenance</b>						
Station Captain's Suite	-----	-----	205	120	205	120
Station Captain's Dorm Room	-----	-----	In Station Captain's Suite	85	In Station Captain's Suite	85
Personal Protection Equip. (PPE) Stor.	-----	-----	In Apparatus Bay	300	In Apparatus Bay	400
Hose Storage	-----	-----	In Apparatus Bay	54	In Apparatus Bay	54
SCBA Maintenance Room	-----	-----	153	144	204	144
SCBA Compressor Room	-----	-----	51	50	51	50
Protective Clothing Laundry	-----	-----	109	100	171	150
Equipment Wash/ Disinfection	-----	-----	230	150	263	150
Work Room/ Equipment Maintenance	-----	-----	197	120	212	120
EMT Storage (incl. Lockable Med. Cabinet)	-----	-----	In HAZMAT/ CBRNE Equip. Stor.	25	In HAZMAT/ CBRNE Equip. Stor.	25
HAZMAT/ CBRNE Equipment Stor.	-----	-----	429	360	551	480
Logistics' Office	-----	-----	In HAZMAT/ CBRNE Equip. Stor.	80	In HAZMAT/ CBRNE Equip. Stor.	80
Fire Extinguisher Inspection (Flight Line/Non Flight Line)	-----	-----	169	160	194	160
<b>Sum of Apparatus Equip.t and Maint. (Net)</b>	0	0	1543	1748	1851	2018
<b>Administration and Training</b>						
Fire Chief's Suite	-----	-----	396	200	396	200
Fire Chief's Dorm Room	-----	-----	In Fire Chief's Suite	85	In Fire Chief's Suite	85
Fire Chief's Toilet	-----	-----	In Fire Chief's Suite	60	In Fire Chief's Suite	60
Chief's Conference Room	-----	-----	300	240	335	240
Deputy Chief's Office	-----	-----	143	120	143	120
Station's Officer's Office/Watch Desk	-----	-----	-----	-----	-----	-----
Assistant Chief/ Shift Supervisor's Suite	-----	-----	272	120	272	120
Assistant Chief/ Shift Supervisor's Dorm Room	-----	-----	In Asst. Chief/ Shift Supv.'s Suite	85	In Asst. Chief/ Shift Supv.'s Suite	85
Assistant Chief/ Shift Supervisor's Toilet	-----	-----	In Asst. Chief/ Shift Supv.'s Suite	60	In Asst. Chief/ Shift Supv.'s Suite	60
General Administration Storage	-----	-----	706	80	665	80
Lobby	-----	-----	204	100	204	100
Public ABA Toilet	-----	-----	60	48	60	48
Dispatch Suite	-----	-----	473	256	473	256
Dispatch Toilet	-----	-----	In Dispatch's Suite	48	In Dispatch's Suite	48
Dispatch Kitchenette	-----	-----	In Dispatch's Suite	20	In Dispatch's Suite	20
Information Technology/ (IT) room	-----	-----	In Dispatch's Suite	60	In Dispatch's Suite	60
Telecommunication Room	-----	-----	268	180	268	180
Assistant Chief of Fire Protection's Office	-----	-----	130	120	130	120
Inspector(s)' Office	-----	-----	514	288	720	432
Training Officer's Office	-----	-----	126	100	126	100
Department Training Room	-----	-----	857	700	1,165	980
Training Room Storage	-----	-----	In Department Training Room	80	In Department Training Room	80
Computer Training/ Testing Room	-----	-----	282	190	343	190
EMS Office	-----	-----	91	80	91	80
HAZMAT/ Safety Office	-----	-----	120	120	120	120
Recycle Room/Space	-----	-----	80	20	80	20
Canopy- Half Square Footage	-----	-----	40	40	40	40
<b>Sum of Apparatus Equip.t and Maint. (Net)</b>	0	0	5062	3500	5631	3924
<b>Living Area</b>						
Day/Training Room	-----	-----	1,312	1,296	1,504	1,944
Dormitory Rooms	-----	-----	1,648	1,400	2,267	2,100
Men Bathrooms/Showers/Changing	-----	-----	364	325	391	350
Women Bathrooms/Showers/Changing	-----	-----	162	150	192	150
Fitness Room	-----	-----	767	437	707	437
Additional Toilet/Shower	-----	-----	197	60	181	60
Laundry Room	-----	-----	163	160	262	240
Janitor's Closet	-----	-----	129	48	132	48
Recreation Room	-----	-----	658	240	467	240
Vending	-----	-----	50	40	50	40
<b>Sum of Apparatus Equip.t and Maint. (Net)</b>	0	0	5,450	4,156	6,153	5,609
<b>Total Sq. Ft. of all spaces without the Apparatus Bay (Net)</b>	0	0	12,055	9,404	13,635	11,551
<b>Total Sq. Ft. of all spaces with the Apparatus Bay (Net)</b>	0	0	17,697	15,046	19,277	17,193
<b>Net To Gross Factor (22%)</b>		0.22		0.3		0.3
Mechanical Room	-----	-----	524		638	
Electrical Room	-----	-----	110		165	
Circulation and Wall Thickness	-----	-----	6,215		7,498	
<b>Sum of Net to Gross Factor</b>	0	0	6849	4513.8	8301	5157.9
<b>Other Spaces</b>						
Staff Parking	26	-----	31	-----	36	-----
Visitor Parking	Per Code and ABA	Per Code and ABA	Per Code and ABA	Per Code and ABA	Per Code and ABA	Per Code and ABA
Bike Rack Area	160 Sq. Ft. per 10-Bike Rack	160 Sq. Ft. per 10-Bike Rack	160 Sq. Ft. per 10-Bike Rack	160 Sq. Ft. per 10-Bike Rack	160 Sq. Ft. per 10-Bike Rack	160 Sq. Ft. per 10-Bike Rack
Site Approach to Apparatus Bays	2000 Sq. Ft. per Bay	2000 Sq. Ft. per Bay	2000 Sq. Ft. per Bay	2000 Sq. Ft. per Bay	2000 Sq. Ft. per Bay	2000 Sq. Ft. per Bay
Fire Fighting Agent Storage (ARFF)	75 Sq. Ft. per ARFF truck	75 Sq. Ft. per ARFF truck	75 Sq. Ft. per ARFF truck	75 Sq. Ft. per ARFF truck	75 Sq. Ft. per ARFF truck	75 Sq. Ft. per ARFF truck
Fire Fighting Agent Storage (Structural)	48 Sq. Ft. per Station (Struct. Trucks)	48 Sq. Ft. per Station (Struct. Trucks)	48 Sq. Ft. per Station (Struct. Trucks)	48 Sq. Ft. per Station (Struct. Trucks)	48 Sq. Ft. per Station (Struct. Trucks)	48 Sq. Ft. per Station (Struct. Trucks)
Patio	Min. 15 Sq. Ft Per Person	Min. 15 Sq. Ft Per Person	Min. 15 Sq. Ft Per Person	Min. 15 Sq. Ft Per Person	Min. 15 Sq. Ft Per Person	Min. 15 Sq. Ft Per Person
Fire Extinguisher Inspection (Non Flight Line/Flight Line) Stor.	40 Sq. Ft. per Station	40 Sq. Ft. per Station	40 Sq. Ft. per Station	40 Sq. Ft. per Station	40 Sq. Ft. per Station	40 Sq. Ft. per Station
Additional Structural Bay	17 ft. W X 91 ft. L (1,547 SF) net.	17 ft. W X 91 ft. L (1,547 SF) net.	17 ft. W X 91 ft. L (1,547 SF) net.	17 ft. W X 91 ft. L (1,547 SF) net.	17 ft. W X 91 ft. L (1,547 SF) net.	17 ft. W X 91 ft. L (1,547 SF) net.
Additional ARFF Bay	20 ft. W X 91 ft. L (1,820 SF) net.	20 ft. W X 91 ft. L (1,820 SF) net.	20 ft. W X 91 ft. L (1,820 SF) net.	20 ft. W X 91 ft. L (1,820 SF) net.	20 ft. W X 91 ft. L (1,820 SF) net.	20 ft. W X 91 ft. L (1,820 SF) net.
Emergency Operations Center (EOC)	320 SF Per Room	320 SF Per Room	320 SF Per Room	320 SF Per Room	320 SF Per Room	320 SF Per Room
<b>Total Sq. Ft. (Gross)</b>	0	0	24,546	19,560	27,578	22,351

	Date: _____
	Description: _____
	Symbol: _____

**U. S. ARMY ENGINEERING AND SUPPORT CENTER, HUNTSVILLE HUNTSVILLE, ALABAMA**

Designed by: CE HMC-ID-SC-A	Checked by: ARCH. BRG-DUVERNAZ	Reviewed by: CE HMC-ID-SC-A	Submitted by: CE HMC-ID-SC-A
Date: 08 JAN 2009	Design file no.:	Drawing code:	File name: 30 JUL 2009 Per scale: 1'-0"=1'-0"
Rev. 07			

DA FACILITIES STANDARDIZATION PROGRAM  
ARMY FIRE STATION DESIGN GUIDE

FOR HEADQUARTERS FIRE STATION

Sheet reference number:  
**A1-HQ-**

Sheet 1 of 14

