

3.0 ACCESS CONTROL POINTS <VER>(REV 1.0 – 30 SEP 2009)</VER>

3.1. GENERAL

The Access Control Point (ACP) must comply with the Department of Army (DA) standards for this facility type. Standard designs are provided in Appendix J. The ACP(s) are required by the DA to provide safe entry to the installation by authorized personnel through procedures for vehicle and, where required, pedestrian traffic. Both safety and security requirements are primary elements of the ACP criteria. The ACP site layout provided in Appendix J – Drawings provides the functional arrangement of the facilities, roadway, and barriers that meets the requirements in the DA Access Control Points Standard Design/Criteria.

The facilities included in the design of the ACP(s) are as listed in paragraph 2 above. As indicated, the facility types may be adapt/build (based on approximately 80% level of design), design/build based on a specified floor plan, or design/build based on functional requirements.

Adapt-Build Guidance. The Appendix “Adapt-Build Model” contains design package(s) for select facilities to be adapted for construction in the region encompassed by this contract. The functional layouts and design approach it demonstrates is provided as a guide for this contract. However, the Contractor must adhere to the specific direction and unique project requirements included within this Request for Proposal. Also, the Contractor shall be responsible for the final design and construction product, including but not limited to, building code compliance and suitability of the engineering systems provided.

3.1.1. HOURS OF OPERATION

The hours of operation for the access control point will depend upon the ACP classification. For main/ primary ACPs the hours of operation will be 24 hours a day, 7 days per week. For secondary ACPs the hours of operation will be less than 24/ 7, but on a fixed schedule per each installation’s requirements. Limited use ACPs are open only for special events, and do not have fixed schedules of operation.

3.1.2. FUNCTIONAL REQUIREMENTS FOR THE SPECIFIC FACILITIES:

3.1.2.1. <ACP_VCC_NO>Not Used</ACP_VCC_NO><ACP_VCC>Visitor Control Center (VCC)

The VCC function is to process visitors wishing to enter the installation. The VCC is staffed with personnel to handle the processing and administrative tasks related to verifying credentials and issuing the necessary documents for access. The VCC is sized for the number of expected visitors considering that a single processor can process 12-20 visitors per hour. Design the VCC to meet the blast criteria as established in the current UFC 4-022-01.</ACP_VCC>

3.1.2.2. <ACP_GH_NO>Not Used</ACP_GH_NO><ACP_GH>Gatehouse

The Gatehouse functions as the control center for the operation of the ACP. The Gatehouse personnel observe and oversee the ID Check Area guards and their activities. The Gatehouse personnel also monitor the activities of the Search Area and the status of the active vehicle barriers from direct line of sight and through the CCTV system. The active vehicle barrier main control panel is located in the Gatehouse. For new construction, the Gatehouse building needs to be located on a raised island immediately after the last turn-around past the ID Check Area to give the Gatehouse guard clear views of operations in the ID Check Area, of vehicles directed to the last turn-around, and of vehicles entering and exiting the Search Area. At ACPs with existing Gatehouses, the Gatehouse building may be located within the ID Check Area. Construct the Gatehouse to be bullet resistant, meeting the requirements of Underwriter Laboratories UL 752 Level III or higher level of protection if the local threat assessment warrants it.</ACP_GH>

3.1.2.3. <ACP_IDCAC_NO>Not Used</ACP_IDCAC_NO><ACP_IDCAC>ID Check Area and Canopy

Provide ACPs with an ID Check Area within the Access Control Zone where guards or automated means perform vehicle and passenger ID checks, grant vehicles authorization to enter the installation, or direct vehicles to other areas of the ACP.

Provide a canopy over all inbound lanes to provide some protection from the weather for ID Check Area guards. The canopy also provides a mounting point for ID Check Area lighting and security equipment. <ACP_IDCAC>

3.1.2.4. <ACP_GB_NO>Not Used</ACP_GB_NO><ACP_GB>Guard Booths

Provide a Guard Booth building for each lane of incoming traffic at the ID Check area for guards performing vehicle/passenger ID checks. Locate Guard Booths on the raised islands or at road grade in the ID Check Area under the Canopy. Construct the Guard Booths to be bullet resistant, meeting UL 752 Level III criteria or higher level of protection if the local threat assessment warrants it. <ACP_GB>

3.1.2.5. <ACP_PGB_NO>Not Used</ACP_PGB_NO><ACP_PGB>Pedestrian Guard Booth

Provide one or more guard booth buildings for Pedestrian ACPs for use by guards performing pedestrian ID checks. Construct the Guard Booth to be bullet resistant, meeting UL 752 Level III criteria or higher level of protection if the local threat assessment warrants it. <ACP_PGB>

3.1.2.6. <ACP_OW_NO>Not Used.</ACP_OW_NO><ACP_OW>Overwatch Position

Provide a strategically placed Overwatch Position located near the final active vehicle barriers but within sight of the ID Check Area. The Overwatch Position can be a permanent facility or a paved pad for a security force vehicle. The Overwatch Position serves as another control position for the active vehicle barriers including the active vehicle barrier control panel, a computer workstation, and communications capability. Construct the Overwatch Position to be bullet resistant, meeting UL 752 Level III criteria or higher level of protection if the local threat assessment warrants it. <ACP_OW>

3.1.2.7. <ACP_PVSAC_NO>Not Used</ACP_PVSAC_NO><ACP_PVSAC>Passenger Vehicle Search Area and Canopy

Passenger Vehicle Search Area provides an area separated from the ID Check Area for inspection of passenger vehicles. Protect the Passenger Vehicle Search Area with a Canopy. <ACP_PVSAC>

3.1.2.8. <ACP_TSAC_NO>Not Used</ACP_TSAC_NO><ACP_TSAC>Truck Search Area and Canopy

ACPs that allow truck and commercial vehicle traffic will have a Truck Search Area to perform the inspection function. The Truck Search Area will be provided with a canopy. <ACP_TSAC>

3.1.2.9. <ACP_SAB_NO>Not Used</ACP_SAB_NO><ACP_SAB>Search Area Building

<ACP_SAB_BUS_YES>The Search Area Building is located adjacent to both the Passenger Vehicle and Truck Search Areas to support Search Area guards and their activities. The Search Area Building provides space for administrative functions, bathrooms, storage for Search Area equipment and shelter for vehicle occupants during searches. </ACP_SAB_BUS_YES><ACP_SAB_BUS_NO>The Bus Shelter is furnished adjacent to the Search Area for an additional waiting area for occupants of vehicles being searched. </ACP_SAB_BUS_NO><ACP_SAB>

3.1.3. Accessibility Requirements

<ACP_VCC>The VCC and the Search Area Building are the only ACP facilities that require access to individuals with disabilities. The Search Area Building access to individuals with disabilities is only in the public areas. Provide access to individuals with disabilities in accordance with (IAW) the Uniform Federal Accessibility Standards (UFAS), as required by the Architectural Barriers Act, title 42 United States Code, section 4151 – 4157, (42 USC 4151-4157). The U.S. Architectural & Transportation Barriers Compliance Board established the Americans with Disabilities Act Accessibility Guidelines (ADAAG) for Buildings and Facilities in August 1994. Meet the latest edition of these guidelines whenever they provide equal or greater accessibility than the UFAS. </ACP_VCC>

<ACP_VCC_NO>The public areas of the Search Area Building are the only areas that require access to individuals with disabilities. No other facility within the ACP requires access to individuals with disabilities.

Provide access to individuals with disabilities IAW the Uniform Federal Accessibility Standards (UFAS), as required by the Architectural Barriers Act, title 42 United States Code, section 4151 – 4157, (42 USC 4151-4157). The U.S. Architectural & Transportation Barriers Compliance Board established the Americans with Disabilities Act Accessibility Guidelines (ADAAG) for Buildings and Facilities in August 1994. Meet the latest edition of these guidelines whenever they provide equal or greater accessibility than the UFAS. </ACP_VCC_NO>

3.1.4. Active Vehicle Barriers (AVB)

Active vehicle barriers, AVB control system, and signalization are as generally laid out on the site plans provided and designed, constructed and tested in accordance with the UFGS 34 41 26.00 10, Access Control Point Control System. The completely edited guide specification is required as part of the Contractor's design submittals. Design AVB in accordance with Army Access Control Points Standard Design/Criteria (ACP-SDC). The safety system employed is required to be «ACP_SAFETY_SYSTEM»

3.1.5. Passive Vehicle Barriers

Provide a passive vehicle barrier system in accordance with Army Access Control Points Standard Design/Criteria (ACP-SDC). Provide design, construction and testing of passive vehicle barrier system in accordance with Section: Passive Vehicle Barrier Systems (See Appendix). The completely edited guide specification is required as part of the Contractor's design submittals.

3.1.6. MANDATORY REQUIREMENTS

Floor plans included with this RFP are considered mandatory, unless directed otherwise

3.1.7. FACILITY GOALS

3.1.7.1. The objective of the access control facilities is to prevent an unauthorized vehicle and/or pedestrian from entering the installation. The access control point must be constructed with features that support the effective and efficient use of equipment, man power, and procedures.

3.1.7.2. The functional and technical requirements included herein are standard requirements that apply to all DA ACP projects, and are current with HQUSACE criteria. Functional and technical requirements unique to this project that add to the standard requirements in paragraphs 3 through 5 are in paragraph 6 and take precedence.

3.1.7.3. The ACP is intended to provide the highest levels of personal safety, resource integrity and construction technology.

3.1.8. Government-Furnished /Government Installed Furniture and Equipment

Unless identified as Government Furnished /Government Installed (GF/GI), items identified herein are to be considered Contractor Furnished/ Contractor Installed (CF/CI) to be provided as part of this contract. Notwithstanding provisions in other sections of the RFP that state the furniture procurement is not included in this contract and is not Government Furnished/Government Installed, the Government reserves the right to change the method for procurement of and installation of GF/GI furniture to Contractor Furnished/Contractor Installed (CF/CI). Such CF/CI furniture will require competitive open market procurement by the Contractor using the Furniture, Fixtures and Equipment (FF&E) package. In addition to these furniture items, the government reserves the right to negotiate for the (competitive open market) procurement and installation of other equipment items (such as appliances) not otherwise a part of this contract.

3.2. FUNCTIONAL AND OPERATIONAL REQUIREMENTS

3.2.1. GENERAL

3.2.1.1. STRUCTURAL CONCEPT

First, there is the inherent value of a relatively simple roof form for cost efficiency and a long roof life with the prospect of few problems.

<ACP_VCC>Provide a simple hip roof. Design the walls and roof to meet the criteria described in UFC 4-010-01. See paragraph: STRUCTURAL DESIGN.</ACP_VCC>

3.2.1.2. GROSS BUILDING AREA

Provide gross building area as calculated by International Building Code (IBC), which is the area included within the surrounding exterior walls.

3.2.1.3. ACCESSIBILITY BY THE HANDICAPPED

See paragraph 3.1.2 Accessibility Requirements.

3.2.1.4. SUSTAINABILITY

Many features that make a facility sustainable can be integrated into a typical building and site. However, some very beneficial features or materials might also have application but need to have a more tailored building and site to be effective. The offeror is encouraged to suggest sustainable material substitutions or building feature modifications for consideration where they appear to provide benefit without appearing to interfere with functionality.

3.2.1.5. ROOM REQUIREMENTS

3.2.1.5.1. GENERAL

Coordinate the visual appearance and exterior material selections as well with the standards set by the Installation. Address the impact of climate, security and geography appropriately. There may be reasons to control exterior traffic noise from entering the facility that would require special treatment or Standard Transmission Class (STC) ratings on major building components. Provide appropriate and adequate protection from the wind and wind driven precipitation for doors and entries. Relate the development of interior design to the exterior design, and coordinate material and finish colors.

Coordinate the visual appearance and exterior material selections as well with the standards set by the Installation. Address the impact of climate, security and geography appropriately. There may be reasons to control exterior traffic noise from entering the facility that would require special treatment or Standard Transmission Class (STC) ratings on major building components. Provide appropriate and adequate protection from the wind and wind driven precipitation for doors and entries. Relate the development of interior design to the exterior design, and coordinate material and finish colors.

3.2.1.5.2. <ACP_VCC_NO>NOT USED</ACP_VCC_NO><ACP_VCC>VISITOR CONTROL CENTER (VCC)

3.2.1.5.2.1. Office

Provide office door with office lockset. Provide vinyl composition tile for the floor finish, except for locations with moist conditions in which porcelain tile or stained concrete shall be provided, resilient base for the wall/floor trim, and painted wallboard protected with chair rails (from moving furniture) for the wall finish. Provide suspended acoustic tile with recessed light fixtures in a typical grid pattern type exposed suspension system for the ceilings. Provide ceiling heights that are a minimum 8'-0" above the finished floor. Provide a sliding glass window between the Processing and Office area.

3.2.1.5.2.2. Waiting

Provide vinyl composition tile for the floor finish, except for locations with moist conditions in which porcelain tile or stained concrete shall be provided, resilient base for the wall/floor trim, and painted wallboard protected with chair rails (from moving furniture) for the wall finish. Provide suspended acoustic tile with recessed light fixtures in a typical grid pattern type exposed suspension system for the ceilings. Provide ceiling heights that are a minimum 9'-8" above the finished floor.

3.2.1.5.2.3. Processing

Provide carpet for the raised floor system, resilient base for the wall/floor trim, and painted wallboard for the wall finish. Provide suspended acoustic tile with recessed light fixtures for the ceilings. Provide the ceiling heights that area minimum 8'-8" above the finished floor matching the ceiling height in the waiting area.

3.2.1.5.2.4. Vestibule

Provide exterior vestibule doors with panic hardware. Provide interior vestibule doors with appropriate push-pull devices. Provide vinyl composition tile for the floor finish, except for locations with moist conditions in which porcelain tile or stained concrete shall be provided, resilient base for the wall/floor trim, and painted wallboard for the wall finish. Provide rigid gypsum drywall with recessed light fixtures for the ceilings. Provide ceiling heights that are a minimum 8'-0" above the finished floor.

3.2.1.5.2.5. Provost

Provide doors with office locksets. Provide vinyl composition tile for the floor finish, except for locations with moist conditions in which porcelain tile or stained concrete shall be provided, resilient base for the wall/floor trim, and painted wallboard for the wall finish. Provide suspended acoustic tile with recessed light fixtures for the ceilings. Provide ceiling heights that are a minimum 8'-0" above the finished floor. Provide a sliding glass window between the Processing and the Provost.

3.2.1.5.2.6. Men's and Women's Toilet

Provide toilet room entry doors with privacy locksets. Provide vinyl composition tile for the floor finish, except for locations with moist conditions in which porcelain tile or stained concrete shall be provided, resilient base for the wall/floor trim, and painted wallboard for the wall finish. Provide suspended painted wallboard for the ceiling finish. Provide ceiling heights that are 8'-0" above the finished floor. Provide a completely integrated accessory set, shelves for hand-carried items and hooks for clothing. Provide a pre-manufactured "pull-down" wall mounted baby-changing station in each toilet room. Provide STC 45 sound-rated walls.

3.2.1.5.2.7. Break Room

Provide vinyl composition tile for the floor finish, except for locations with moist conditions in which porcelain tile or stained concrete shall be provided, resilient base for the wall/floor trim, and painted wallboard for the wall finish. Provide suspended acoustic tile with recessed light fixtures in a typical grid pattern type exposed suspension system for the ceilings. Provide ceiling heights that are a minimum 8'-0" above the finished floor.

3.2.1.5.2.8. Janitor's Closet

Provide janitor's closet entry door with a lockset. Provide exposed concrete for the floor finish, resilient base for the wall/floor trim, and painted water-resistant wallboard for the wall finish. Provide suspended painted wallboard for the ceiling finish. Provide ceiling heights that are 8'-0" above the finished floor. Provide a floor mounted mop sink, shelving for supplies, hanging racks for mops and brooms in the Janitor's closet.

3.2.1.5.2.9. Storage Room

Provide composition tile for the floor finish, except for locations with moist conditions in which porcelain tile or stained concrete shall be provided, resilient base for the wall/floor trim, and painted wallboard for the wall finish. Provide suspended acoustic tile with recessed light fixtures in a typical grid pattern type exposed suspension system for the ceilings. Provide ceiling heights that are a minimum 8'-0" above the finished floor.

3.2.1.5.2.10. Equipment Rooms

Provide equipment room entry doors with locksets (coordinate the keying of these spaces with the Installation groups responsible for maintenance and operation). Provide exposed concrete for the floor finish, resilient base for the wall/floor trim, and painted concrete masonry or wallboard for the wall finish. Provide exposed structure for the ceiling finish and lighting format. Provide ceiling height as appropriate to the space and equipment. </ACP_VCC>

3.2.1.5.3. <ACP_SAB_NO>NOT USED</ACP_SAB_NO><ACP_SAB>SEARCH AREA
BUILDING<ACP_SAB_BUS_YES>

3.2.1.5.3.1. Office

Provide office door with exterior lockset. Provide vinyl composition tile for the floor finish, except for locations with moist conditions in which porcelain tile or stained concrete shall be provided, resilient base for the wall/floor trim, and painted wallboard protected with chair rails (from moving furniture) for the wall finish. Provide suspended acoustic tile with recessed light fixtures in a typical grid pattern type exposed suspension system for the ceilings. Provide ceiling heights that are a minimum 8'-0" above the finished floor.

3.2.1.5.3.2. Break Room

Provide vinyl composition tile for the floor finish, except for locations with moist conditions in which porcelain tile or stained concrete shall be provided, resilient base for the wall/floor trim, and painted wallboard for the wall finish. Provide suspended acoustic tile with recessed light fixtures in a typical grid pattern type exposed suspension system for the ceilings. Provide ceiling heights that are a minimum 8'-0" above the finished floor.

3.2.1.5.3.3. Storage Room

Provide vinyl composition tile for the floor finish, except for locations with moist conditions in which porcelain tile or stained concrete shall be provided, resilient base for the wall/floor trim, and painted wallboard for the wall finish. Provide suspended acoustic tile with recessed light fixtures in a typical grid pattern type exposed suspension system for the ceilings. Provide ceiling heights that are a minimum 8'-0" above the finished floor.

3.2.1.5.3.4. Unisex Toilet

Provide toilet room entry doors with privacy lockset. Provide vinyl composition tile for the floor finish, except for locations with moist conditions in which porcelain tile or stained concrete shall be provided, resilient base for the wall/floor trim, and painted wallboard for the wall finish. Provide suspended painted wallboard for the ceiling finish. Provide ceiling heights that are a minimum 8'-0" above the finished floor.

3.2.1.5.3.5. Mechanical, Electrical, and Outside Storage

Provide entry doors with locksets (coordinate the keying of these spaces with the Installation groups responsible for maintenance and operation). Provide exposed concrete for the floor finish, resilient base for the wall/floor trim, and painted concrete masonry or wallboard for the wall finish. Provide exposed structure for the ceiling finish. The ceiling height shall be as appropriate to the space and equipment.

</ACP_SAB_BUS_YES><ACP_SAB_BUS_NO>Shelter - Provide manufacturer's standard design for a 10'-0" by 5'-0" four walled shelter with tempered glass walls. The unit shall have a wood or aluminum bench for seating. Roofing panels shall be constructed of twin wall polycarbonate. </ACP_SAB_BUS_NO></ACP_SAB>

3.2.1.5.3.6. <ACP_GH_NO>NOT USED</ACP_GH_NO><ACP_GH>GATEHOUSE

3.2.1.5.4. Guard Room

Provide exterior doors with locksets. Provide vinyl composition tile for the floor finish, except for locations with moist conditions in which porcelain tile or stained concrete shall be provided, resilient base for the wall/floor trim, and painted wallboard for the wall finish. Provide suspended acoustic tile with recessed light fixtures and hold down clips for the ceilings. Provide ceiling heights that are a minimum 8'-0" above the finished floor. Provide walls, doors, door frames, window frames and glazing to be bullet resistant to meet UL 752 Level III requirements or higher level of protection if the local threat assessment warrants it.

3.2.1.5.4.1. Storage Room

Provide vinyl composition tile for the floor finish, except for locations with moist conditions in which porcelain tile or stained concrete shall be provided, resilient base for the wall/floor trim, and painted wallboard for the wall

finish. Provide suspended rigid gypsum drywall with recessed light fixtures for the ceilings. Provide ceiling heights that are a minimum 8'-0" above the finished floor.

3.2.1.5.4.2. Unisex Toilet

Provide toilet room entry doors with privacy lockset. Provide vinyl composition tile for the floor finish, except for locations with moist conditions in which porcelain tile or stained concrete shall be provided, resilient base for the wall/floor trim, and painted wallboard for the wall finish. Provide suspended painted wallboard for the ceiling finish and lighting format. Provide ceiling heights that are a minimum 8'-0" above the finished floor.

3.2.1.5.4.3. Mechanical, Communications

Provide entry doors with locksets (coordinate the keying of these spaces with the Installation groups responsible for maintenance and operation). Provide exposed concrete for the floor finish, resilient base for the wall/floor trim, and painted concrete masonry or wallboard for the wall finish. Provide exposed structure for the ceiling finish and lighting format. Provide the ceiling height as appropriate to the space and equipment. <ACP_GH>

3.2.1.5.5. <ACP_GB_NO>NOT USED</ACP_GB_NO><ACP_GB>GUARD BOOTHS

Provide manufacturer's standard bullet resistant design. Provide walls, doors, door frames, window frames and glazing to be bullet resistant to meet UL 752 Level III requirements or higher level of protection if the local threat assessment warrants it. Provide 360-degree field of view windows. Additional features including heating and air conditioning, exterior power outlets sufficient to power hand held searchlights and other small hand held devices, interior outlets for radio chargers, computers, and communications equipment are to be provided. Provide sufficient counter space for writing reports and storage of reference materials. <ACP_GB>

3.2.1.5.6. <ACP_PGB_NO>NOT USED</ACP_PGB_NO><ACP_PGB>PEDESTRIAN GUARD BOOTH

Provide construction that is a minimum ballistics rating of UL 752 Level III requirements or higher level of protection if the local threat assessment warrants it, including walls, doors, windows, and frames. Additional features including heating and air conditioning, exterior power outlets, and interior outlets for radio chargers, computers, and communications equipment are to be provided. Provide sufficient counter space for a workstation, including sufficient space for report writing and storage of reference materials. Equip one of the windows with a pass-through deal tray. Provide a utility storage closet accessible from outside the structure. <ACP_PGB>

3.2.1.5.7. <ACP_OW_NO>NOT USED</ACP_OW_NO><ACP_OW>OVERWATCH POSITION

(a) «ACP_PGB_TYPE»

Provide construction that is a minimum ballistics rating of UL 752 Level III requirements or higher level of protection if the local threat assessment warrants it, including walls, doors, windows, and frames. This building shall serve as a fighting position for one guard and shall be provided with sliding windows to permit use of a weapon from inside the structure. Additional features shall include heating and air conditioning, exterior power outlets, and interior outlets for radio chargers, computers, and communications equipment. Provide a counter with provisions for recessed mounting of a monitor. <ACP_OW_PAD>

(b) Pad with AVB Control Box

Provide a pad with immediate access to the roadway near the final barrier. Size pad as required for the security vehicle used. Provide lockable junction box with quick connections for the AVB control panel, communications, and power. <ACP_OW_PAD></ACP_OW>

3.2.2. SITE PLANNING AND DESIGN

3.2.2.1. SITE PLANNING REQUIREMENTS

3.2.2.1.1. Site Functional Requirements

Location and construction of the new facilities including associated structures, roads, parking, and utilities and landscaping shall be as indicated and as specified herein. All site layout changes are subject to review and approval by the Government. Government supplied site plans are provided to assist the Contractor in the preparation of their proposal and design. Any errors identified shall be brought to the attention of the Contracting Officer immediately for resolution and direction. Take all professionally prudent and reasonable actions to verify the accuracy of the data provided. The Contractor is responsible for final site plans.

<ACP_VCC>The VCC is the only ACP facility requiring site placement that achieves compliance with to UFC 4-010-01. The standard design assumes the VCC is an inhabited building as defined by UFC 4-010-01.**</ACP_VCC>**

3.2.2.1.2. Site Force Protection Measures

<ACP_VCC>Site force protection measures are in accordance with UFC 4-010-01. **</ACP_VCC>**See Paragraph 6 for any additional security requirements required by the installation Physical Security and Antiterrorism.

3.2.2.1.3. Roadways and Access Drives

Design vehicles to be accommodated in the design include but are not limited to: passenger cars, emergency vehicles, garbage, fire trucks, military vehicles, delivery service, and utility vehicles. The minimum width of a road lane is 12 feet. All roadway horizontal and vertical alignments must properly address the turning radius of the design vehicle(s). The minimum thickness of concrete pavement is 7 inches with a minimum compressive strength of 5000 psi on 4 inches of compacted aggregate base course. Minimum flexible pavement thickness and pavement calculations are indicated in paragraph 5.2.3.

3.2.2.1.4. Vehicle Parking

Provide clear and convenient traffic flow through and around the ACP parking areas and access drives that maximizes functional capabilities but minimizes traffic conflicts. If required coordinate inter-modal traffic within the ACP site.

Provide sufficient parking spaces for the anticipated number of visitors and personnel at the ACP. See SDDCTEA pamphlet 55-15 for the methodology to be used in determining the number of visitor parking spaces required. Provide ramps serving the handicapped spaces for access.

POV parking is to be off-street parking. Area lighting and landscaping is to reinforce the parking area while meeting functional and safety requirements. Paint markings are to be 4 inches in width. Traffic islands are to be 24 feet in width. Minimum flexible pavement thickness and pavement calculations are indicated in paragraph 5.2.3.

3.2.2.1.5. Sidewalks

Provide an ample functional system of walks connecting structures, parking areas, streets, and other walks as pedestrian traffic demands. In addition, review paths of travel to determine a layout of sidewalks that is sufficient to meet the likely paths of travel. Slopes of all sidewalks are required to meet all requirements for ADA Accessibility Guidelines (ADAAG). Pedestrian sidewalks are to be a minimum of 6 feet wide. Construct pedestrian sidewalks of Portland Cement Concrete having a minimum 3,000 psi compressive strength.

3.2.2.1.6. Dumpsters

Provide concrete pads and dumpster screen wall enclosure. A minimum distance of 82 feet between the building and dumpster location is required. Construct the screen wall enclosures of materials to match the new facility exterior walls. Coordinate color with the installation. Integrate a gate keeper capable of holding the gates in an open position and a locking mechanism into the gate design.

Coordinate with the installation on the required recycling dumpsters (or storage containers). Collocate, but separate recycling dumpsters (or containers) with the dumpsters and screened as per dumpsters.

3.2.2.1.7. Landscaping

Make selection of landscape materials from among species well adapted to the region and shall consider maintenance requirements. Focus landscaping concepts on desirable environmental effects such as windbreaks, shade, screening of undesirable views and definition of desirable enclosed areas.

The landscaping plan is also to consider the irrigation requirements. Ideally, the selected species are to be native and drought resistant such that a permanent irrigation system is not required. In the event that a permanent irrigation system is required, include as a minimum, a backflow prevention and pop-up type sprinkler heads

3.2.2.2. SITE DESIGN REQUIREMENTS

3.2.2.2.1. Grading

Provide positive drainage for all areas and use existing drainage ways to the extent possible. It is desirable to direct drainage away from buildings to curb and gutter or road ditches. Avoid swales between buildings and parking areas, if possible. Grade parking areas such that storm water is directed off to the sides, with curbs and gutters to control drainage, and not down the center of the parking area, where possible. Balance earthwork to the extent possible without compromising the design. Keep the number of existing trees to be removed to a minimum. No grading is to be done within drip lines of existing trees to be preserved.

Design grading such that visual lines of sight are maintained throughout the ACP complex between the major functional areas (Visitor Control Center, Vehicle Inspection Area and ID Check Area).

3.2.2.2.2. Adjustment of Existing Structures

Adjust all manholes, valve boxes, or inlets of any nature within the project that do not conform to the new finish grade in either surfaced or unsurfaced areas to the new finish grade. Where inlets, manholes, or valve boxes fall within a surfaced or unpaved roadway or parking, remove the existing frames and cover and replace with a heavy-duty frame and cover. Adjust the structure as needed to fit the new conditions. Provide structures of a type suitable for the intended use and conforms to the requirements of the applicable sections herein.

3.2.2.2.3. Sidewalks

Provide concrete walks with a transverse grade of 2 percent. Provide a maximum longitudinal walk grade of 8 percent in freezing climates and 15 percent in non-freezing climates.

3.2.2.2.4. Stairs

Avoid the use of stairs in sidewalks whenever possible. When stairs are unavoidable, they should have at least three risers and shall be provided with handrails. Provide all steps within a stair to have a uniform tread width and riser height. Provide risers with a height of 4.5 to 6 inches and treads with a width of 12 to 17 inches. Treads should slope 2 percent for positive drainage. Keep the height between landings to a maximum of 5 feet to allow a view of the next higher landing whenever possible. The height between landings is not to exceed 12 feet. Provide landings that are at least 4 feet long.

3.2.2.2.5. Transverse Parking Area Grades

- (a) Desirable minimum of 2 percent.
- (b) Absolute minimum of 1.5 percent for flexible pavement and 1 percent for rigid pavement.

3.2.2.2.6. Longitudinal Parking Area Grades

Maximum of 4 percent.

3.2.2.2.7. Road and Street Longitudinal Grades

Use of longitudinal road and street grades greater than 7 percent shall be subject to approval by the Government.

3.2.2.2.8. Ramp Grades

- (a) Desirable maximum of 7 percent.
- (b) Absolute maximum of 10 percent for short distances only.

3.2.2.2.9. Gutter Grades

- (a) Desirable minimum of 0.8 percent.
- (b) Absolute minimum of 0.5 percent.

3.2.2.2.10. Building Floor Elevation

Set building finished floor elevation to ensure that the required minimum and maximum grades are met. Construct first floor of new buildings a minimum of 1 foot above the 100-year flood plain elevation.

3.2.2.2.11. Grades Away From Building

- (a) Minimum of 5 percent for 10 feet.
- (b) Maximum of 10 percent for 10 feet.

3.2.2.2.12. Overlot Grades

- (a) Minimum 1 percent for cohesionless sandy soils.
- (b) Minimum 2 percent for cohesive soils or turfed areas.
- (c) Sideslopes for ditches, roads, and other turfed areas shall be no steeper than 1V on 3H. A 10-foot wide shelf shall be constructed every 15 feet in elevation change on all cut and fill slopes. Retaining walls are an option to limit the amount of cut and fill.

3.2.2.2.13. Ditches

Grade ditches at non-erodible slopes or line the ditch with an appropriate material to prevent erosion. Use a design storm with a return period of at least 2 years to determine erodibility of ditches and swales. Provide the depth of ditches along pavement shoulders such that the water surface from the 10 year design storm is below pavement subbase and base courses which daylight through the adjacent shoulder.

3.2.2.2.14. Storm Drainage System

Comply with the State's DOT requirements for design, construction and material specified for storm drainage installation. Use concrete with watertight joints for all storm drainage lines constructed under road, parking area and or surfaces subject to vehicular traffic. See Paragraph 6 for additional storm drainage system requirements.

3.2.2.2.15. Asphalt Pavement

Provide asphalt aprons, roads and parking areas where indicated. Construct the asphalt areas with concrete curb and gutter at the locations shown.

3.2.2.2.16. Concrete Pavement

Provide concrete pavement where indicated. Construct the concrete pavement with a 6 inch integral curb at the locations shown.

3.2.2.2.17. Traffic Signage, Pavement Markings and Striping

Provide traffic signage, pavement marking and striping for all new roads and parking areas. Design signage, pavement markings and striping in accordance with MUTCD Manual on Uniform Traffic Control Devices for Streets and Highways. Provide reflectorized signs according to the requirements of ASTM D 4956-07e1, Type III sheeting. Provide non-reflectorized paint for parking areas. Stripe roads and streets with reflectorized paint.

3.2.2.2.18. Exterior Signage

See Appendix H Exterior Signage for exterior signage requirements.

3.2.3. <ACP_VCC_NO>NOT USED</ACP_VCC_NO><ACP_VCC>SECURITY

The element of UFC 4-010-01 that has the most significant impact on project planning is providing protection against explosives effects. That protection can either be achieved using conventional construction (including specific window requirements) in conjunction with establishing relatively large standoff distances to parking, roadways, and installation perimeters or through building hardening, which will allow lesser standoff distances. Even with the latter, the minimum standoff distances cannot be encroached upon. These setbacks will establish the maximum buildable area. All standards in Appendix B of UFC 4-010-01 must be followed. In addition to the UFC cited in this paragraph UFC 4-020-02FA, (2005) Security Engineering: Concept Design; UFC 4-020-03FA, (2005) Security Engineering: Final Design; UFC 4-020-04FA, (2005) Electronic Security Systems: Security Engineering; and UFC 4-021-01 apply to the facility.</ACP_VCC>

3.2.4. ARCHITECTURE

Provide an exterior appearance and massing that coordinates with the post master plan of the site area. See Chapter 6 for architectural theme guidance.

3.2.5. INTERIOR DESIGN

3.2.5.1. Interior Building Appearance

Provide the facility interior with a warm, comfortable, and professional environment through the appropriate use of building materials, furniture, finishes, fabrics, color, and texture. Provide materials and features of high quality, functional, easily maintained and furnished as described herein. Provide complementary building finishes and details and furniture style, finish and fabrics and provide a completely integrated interior design. Coordinate the interior building appearance with the exterior building appearance. The criteria within this document identifies the level of quality and special requirements for finishes and furniture, yet provides flexibility for the designer to make creative and appropriate selections to meet User requirements.

3.2.5.2. Interior Design Categories

Interior Design is divided into two categories, (1) building related interior design and (2) furniture and fixtures and equipment (FF&E). Building related interior design is the design of building related interior finishes and includes the selection and specification of interior and exterior materials and finishes for the building environment. Items typically considered a part of the building design include, but are not limited to: exterior building materials, floor, wall and ceiling finishes, built-in casework, millwork, fixed equipment, trim items, signage, window treatment, etc. Building related items are those materials and finishes that are generally applied or fastened to the building. Furniture related interior design (FF&E) is the design of the interior furniture and includes selection and specification of these items. Items typically considered a part of the furniture package include, but are not limited to: workstations, seating, tables, storage, filing, trash receptacles, accessories, portable equipment, decorative objects, etc. The furniture package consists of items that may be moved into the building after construction is complete and generally are not applied or fastened to the building. Provide appropriate furniture finishes and fabrics for the intended use. Provide upholstery fabric (color, pattern and fiber content) that is easily cleaned and helps hide soiling. Patterned fabrics are recommended for seating.

3.2.5.2.1. Window Treatment

Provide horizontal blinds for exterior windows, with the exception of guard booths and gatehouse, unless directed otherwise by the user.

3.2.5.2.2. Signage

Provide a lighted and substantial exterior building sign at an appropriate area on the site. Coordinate the materials and visual features with the building and area. Provide a complete interior signage system that

coordinates with the interior design. The facility interior signage system is to be standardized throughout the building and flexible to allow for the addition and deletion of signs and information. Provide room signs.

3.2.5.2.3. Building Equipment

- Provide recessed entry mat at entry vestibule.<ACP_VCC>
- Provide one pre-manufactured unit specifically designed for diaper changing for each restroom. The unit is to be wall mounted and designed to self-store up against the wall it is mounted on when not in the open position. Unit is to have safety features normally required for this type of unit. Depth in the closed position is to be 3-inches.</ACP_VCC>

3.2.5.3. <ACP_VCC_GH_SAB_NO>Not Used</ACP_VCC_GH_SAB_NO><ACP_VCC_GH_SAB>General Furniture</ACP_VCC_GH_SAB>

- For General Furniture items, provide design services with an option for possible procurement. Furniture shall not have sharp edges. Conceal clips, screws and other furniture construction elements where possible. Seating upholstery is required to meet Wyzenbeek Abrasion Test; 50,000 minimum double rubs. Furniture can be wood, plastic laminate or metal finish. Tops for case goods with plastic laminate or metal construction are to be plastic laminate. Location, use and frequency of moving furniture are to be considered when determining appropriate finish material and construction. Furniture constructed of particleboard with plastic laminate finish is not acceptable. Provide box and file drawers with a heavy-duty suspension system. Construct furniture with concealed fasteners. Furniture storage is to be lockable. Coordinate style details and finishes within a room.
- <ACP_VCC_GH_SAB> Desk Chair: Provide ergonomic, desk chairs with non-upholstered adjustable height arms, padded, contoured, cushioned and upholstered or mesh seat and back, back tilt and locking capability, pneumatic seat height adjustment, adjustable lumbar support, seat depth adjustment, five star base and casters. Provide desk chairs with adjustable seat height range of 4 1/2", range to include 16 1/2 – 20". Verify with user if armless desk chairs are preferred for employees carrying weapons.</ACP_VCC_GH_SAB><ACP_VCC_SAB>
- Guest/Waiting Chair: Provide guest chairs without arms, upholstered cushioned seat and back that are compatible in style, finish and color with the desk chairs (approximately 1'-9" w x 1'-11" d x 2'-6" h in size).
- Break Room Chairs & Table: Provide break room chairs that are easily cleaned. Verify style and finishes with user. Provide table with high pressure laminate top with a PVC, vinyl, or post formed high pressure plastic laminate edge. A high pressure laminate plastic laminate self edge is not acceptable.
- End Table: Provide end table with high pressure laminate plastic laminate top and metal or wood frames that are compatible in style, finish and color to waiting chairs.
- Desk & Workstations: Provide U-shaped workstation with keyboard, lockable overhead storage, tackboard and task light, under all overhead storage. The unit is to have modesty panels with two lockable pedestals and a pencil drawer. Provide desk of steel construction with high pressure plastic laminate worksurface. Tops are to have a formed edge such as PVC, vinyl molding or post formed high pressured plastic laminate. A high pressure plastic laminate self edge is not acceptable. Provide knee space that is not obstructed by legs/storage units that interfere with knee space of seated person. When space is limited, provide L-shaped workstation (desk, return, overhead storage, tackboard and task light) or double pedestal desk. All units to include keyboard
- Lateral File Cabinet: Provide four drawer lateral file. File drawers are to be full extension, accommodate letter files and have rails for hanging folders. The drawers are to be capable of hanging files side-to-side and front-to-back file storage. Drawer pulls are to be an integral pull, not an attached pull. Counterweights are to be provided when required by the manufacturer for stability.
- Bookcase: Provide three or four shelf metal bookcase with adjustable shelves. Shelves are to be of sufficient height and depth to accommodate standard three ring binders.
- Supply Cabinet: Provide metal double door lockable supply cabinet with adjustable shelves.
- Weapons Storage Cabinet: Provide cabinets with weapons storage rods, retractable doors with locking bars constructed of heavy gauge steel.</ACP_VCC_SAB><ACP_VCC>
- Printer Table: Provide printer table with top of high pressure laminate and an edge of PVC, vinyl molding or post formed high pressured plastic laminate. A 90 degree high pressure plastic laminate self edge is not acceptable</ACP_VCC><ACP_VCC_GH_SAB>
- Clock: Provide clock that is 12 inches in diameter with a bezel finish, acrylic cover and quartz battery.
- Trash Receptacles: Provide rubber trash receptacles approximately 14"w x 11"d x 15"h.</ACP_VCC_GH_SAB>

3.2.6. STRUCTURAL DESIGN

Provide a structural system based upon applicable criteria and Occupancy Category II. Design the foundation system in accordance with the site specific soil conditions which will require a geotechnical site investigation.

3.2.7. HEATING, VENTILATING AND AIR CONDITIONING (HVAC)

3.2.7.1. **<ACP_VCC_NO>**Not Used**</ACP_VCC_NO><ACP_VCC>**Visitor Control Center

Occupied portions of the facility are required to be heated and air conditioned for occupant comfort. Controls for temperature settings are to be easily accessed by staff. Locate mechanical equipment for heating and cooling in the Mechanical equipment room or in other areas where space is provided for clearance and accessibility for maintenance. Provide ventilation in accordance with ASHRAE 62.1. Provide insulation on all ductwork, equipment, and other items as required by code. Provide restrooms and janitor closets or areas with a mop sink with an exhaust system. The system is to maintain exhaust rates as required by the applicable code. Exhaust fans are to be accessible for repair or maintenance. Communication rooms are to be air conditioned to maintain a space temperature of 75 degrees F at the design load. The mechanical/electrical equipment room is to be heated and ventilated as required by code and to prevent damage from excessive space temperatures.**</ACP_VCC>**

3.2.7.2. **<ACP_GH_NO>**Not Used**</ACP_GH_NO><ACP_GH>**Gatehouse

The occupied portions of the facility are to be heated and air conditioned for occupant comfort. Controls for temperature settings are to be easily accessed by staff. Locate mechanical equipment for heating and cooling in the Mechanical equipment room or in other areas where space is provided for clearance and accessibility for maintenance. Provide insulation on all ductwork, equipment, and other items as required by code. Provide restrooms and janitor closets or areas with a mop sink with an exhaust system. The system is to maintain exhaust rates as required by the applicable code. Exhaust fans are to be accessible for repair or maintenance. Communication rooms are to be air conditioned to maintain a space temperature of 75 degrees F at the design load. The mechanical/electrical equipment room and storage room is to be heated and ventilated as required by code and to prevent damage from excessive space temperatures.**</ACP_GH>**

3.2.7.3. **<ACP_SAB_NO>**Not Used**</ACP_SAB_NO><ACP_SAB>**Search Area Building**<ACP_SAB_BUS_YES>**

Occupied portions of the facility are to be heated and air conditioned for occupant comfort. Controls for temperature settings are to be easily accessed by staff. Locate mechanical equipment for heating and cooling in the Mechanical equipment room or in other areas where space is provided for clearance and accessibility for maintenance. Provide insulation on all ductwork, equipment, and other items as required by code. Provide restrooms and janitor closets or areas with a mop sink with an exhaust system. The system is to maintain exhaust rates as required by the applicable code. Exhaust fans are to be accessible for repair or maintenance. The mechanical and electrical equipment rooms are to be heated and ventilated as required by code and to prevent damage from excessive space temperatures.**</ACP_SAB_BUS_YES><ACP_SAB_BUS_NO>** No mechanical requirements.**</ACP_SAB_BUS_NO></ACP_SAB>**

3.2.7.4. **<ACP_IDCAC_NO>**Not Used**</ACP_IDCAC_NO><ACP_IDCAC>**ID Check Area Canopy

Provide infrared electric heaters above the Guard Booth entrances. Provide the necessary supports to mount the heater from the canopy approximately 10 feet above finished grade. The heater and supports must not extend beyond 1 foot behind the edge of the island. There is a clear zone that extends from the roadway to 1 foot behind the curb and goes up to the canopy ceiling.**</ACP_IDCAC>**

3.2.7.5. **<ACP_GB_NO>**Not Used**</ACP_GB_NO><ACP_GB>**Guard Booth

Provide guard booths with through the wall type air conditioning and heating unit on the rear side of the booth.**</ACP_GB>**

3.2.8. PLUMBING

3.2.8.1. **<ACP_VCC_NO>**Not Used**</ACP_VCC_NO><ACP_VCC>**Visitor Control Center

Domestic cold and hot water is to be provided to all plumbing fixtures as required by code. A below sink garbage disposal is to be provided for the kitchen sink. Condensate drains from mechanical equipment is to be routed to a floor drain. Provide a sanitary drainage and vent system as required by code.</ACP_VCC>

3.2.8.2. <ACP_GH_NO>Not Used</ACP_GH_NO><ACP_GH>Gatehouse

Domestic cold and hot water is to be provided to all plumbing fixtures as required by code. Condensate drains from mechanical equipment is to be routed to a floor drain. Provide a sanitary drainage and vent system as required by code.</ACP_GH>

3.2.8.3. <ACP_SAB_NO>Not Used</ACP_SAB_NO><ACP_SAB>Search Area Building

Domestic cold and hot water is to be provided to all plumbing fixtures as required by code. A below sink garbage disposal is to be provided for the kitchen sink. Condensate drains from mechanical equipment is to be routed to a floor drain. Provide a sanitary drainage system as required by code.</ACP_SAB>

3.2.9. <ACP_VCC_GH_SAB_NO>NOT USED</ACP_VCC_GH_SAB_NO><ACP_VCC_GH_SAB>ENERGY MANAGEMENT SYSTEM

For the <ACP_VCC>Visitor Control Center[;] </ACP_VCC><ACP_GH>Gatehouse[;] </ACP_GH><ACP_SAB>Search Area Building</ACP_SAB>, provide an energy management system with override capacity accessible to the user. Investigate the possible requirement for a future connection to an installation-wide EMCS and appropriate provisions made.</ACP_VCC_GH_SAB>

3.2.10. ELECTRICAL, COMMUNICATION, AND FIRE ALARM SYSTEMS

3.2.10.1. General

See Paragraph 6 for clarifications and additional requirements for the electrical, communication and fire alarm systems. The various facilities are required to meet the requirements given in the Army Access Control Points Standard Design/Criteria (ACP-SDC).

- (a) Characteristics. Select electrical characteristics of the power system to provide a safe, efficient, and economical distribution of power, based on the size and type of loads to be served. Use distribution and utilization voltages of the highest level that is practical for the load to be served.
- (b) Nonlinear Loads. The effect of nonlinear loads such as computers and other electronic devices are to be considered and accommodated as necessary. These loads generate harmonics, which can overload conventionally sized conductors or equipment and thereby cause safety hazards and premature failures. Circuits serving such devices shall be equipped with a separate neutral conductor not shared with other circuits. Panelboards and dry type transformers are to be rated accordingly.
- (c) Interior Lighting Controls. Local manual controls are to supplement automatic controls in offices and specialized areas. Provide occupancy sensor controls in restrooms, offices and break rooms. Luminaires with dimming ballasts are to be capable of dimming to 5 percent.
- (d) Emergency and Exit Lighting. Provide emergency lighting and exit lighting per NFPA 101. In addition, provide emergency lighting in mechanical, electrical and communication rooms. Emergency and exit access lighting are to be on battery back up. Facilities that have stand-by generator power are required to have the power to the emergency and exit lights on a generator circuit and also have battery back-up. The battery back-up is considered the primary source. All signage as required by life safety codes are to be included in designs.
- (e) Receptacles. Provide power receptacles per NFPA 70 and in conjunction with the proposed equipment and furniture layouts. Provide duplex receptacles adjacent (at least 6" away) to each telecommunication outlet and CATV outlet.
- (f) Telecommunication. Install telephone and data outlets in accordance with the Technical Guide for Installation Information Infrastructure Architecture (I3A), with the following exceptions. All offices are to be provided with a minimum two (2) combination telephone and data outlets. Design telecommunication rooms in accordance with I3A Guide and ANSI/EIA/TIA-569-B.

- (g) Cable Television (CATV). The cable television system is to include cabling, pathways, and outlets. All building CATV systems are to conform to APPLICABLE CRITERIA to include I3A Technical Guide and UFC 3-580-01 Telecommunications Bldg Cabling Systems Planning/Design.
- (h) Intrusion Detection System (IDS). An IDS system is to be installed with balanced magnetic switches, tamper switches and duress alarms as required by the ACP-SDC. The IDS system local panel is to be fully compatible with the Installation central security monitoring system. Several points as a minimum are required to be transmitted from the ACP to the central security monitoring system per ACP-SDC, UFGS 34 41 26.00 10 ACP Control System and UFGS 28 20 01.00 10, Electronic Security Systems. An IDS is not installed in all contracts if the proper funding was not obtained; in those cases, the system is designed, but empty conduit, poles, and power are provided.
- (i) Closed Circuit Television. A CCTV system is to be installed with as required by the ACP-SDC. The system is to comply with UFGS 34 41 26.00 10 ACP Control System and UFGS 28 23 23.00 10, Closed Circuit Television Systems. A CCTV system is not installed in all contracts if the proper funding was not obtained; in those cases, the system is designed, but empty conduit, poles, and power are provided.
- (j) Mechanical Systems. Requirements for heating, ventilation, and air conditioning system are to be determined by the project criteria package. In cold climates provide features that will protect plumbing, water lines, and other lines from freezing.
- (k) Lightning Protection System. Design shall be in accordance with NFPA 780. Each facility requiring lightning protection shall have a UL Lightning Protection Inspection Certificate indicating compliance with NFPA 780.
- (l) Surge Protective Devices. Provide on the main panelboard for a facility when powered from an exterior circuit. Provide on panelboards that primarily power communications, computers, and security equipment.
- (m) Exterior Wiring. Direct buried wiring is not allowed.
- (n) Exterior Lighting. Parking lot lighting is to be IAW APPLICABLE CRITERIA to include IESNA RP-1-04. All exterior doors are to have a luminaire above or adjacent to the door that can be controlled via a photocell or a manual means. Lighting under the canopies is required to comply with ACP-SDC. Response and Approach zone lighting is required to comply with ACP-SDC and the local installation requirements. Any other street or roadway not covered by the ACP-SDC is to comply with IESNA RP-1-04.
- (o) Generator. A stand-by generator is required to provide power for specific loads at the ACP. These loads and specific requirements for the generator are listed in the ACP-SDC. The generator is to be started automatically by using an automatic transfer switch. If natural gas is used as the fuel for the generator, there must still be fuel capacity in a tank in order to meet the on-site fuel requirement. The generator is to be provided with a minimum of 25% spare capacity. Note the intention is to have one generator for the entire ACP.
- (p) Uninterruptible Power Supply (UPS). An UPS is required to provide power for specific loads at the ACP. These loads and specific requirements for the generator are listed in the ACP-SDC.
- (q) Fire Alarm System. The fire alarm system where required shall meet NFPA 72 and comply with the requirements of UFC 3-600-01. The building shall have a fire alarm evacuation system with manual pull stations (break glass not allowed), audible and visual alarms. NFPA standards and other typical criteria will apply as applicable. A detailed code analysis, which considers actual site conditions, must be undertaken to determine all life safety requirements. The system is to be addressable and be fully compatible with and integrated with the local Installation fire alarm main control system. All initiating devices are to be connected Class A, Style 6 to signal line circuits (SLC). All alarm appliances are to be connected to notification appliance circuits (NAC), Class A. Junction boxes are required to have a red cover.
- (r) Mass Notification. The mass notification system is to be integrated into the fire detection system. The building mass notification system is to meet the requirements of UFC 4-021-1 Design and O&M: Mass Notification System. The system is to be fully compatible with and integrated with the local Installation wide Mass Notification System.
- (s) Active Vehicle Barriers (AVB). Active vehicle barriers and all associated controls to include wrong-way detection and, if required, overspeed detection are to comply with UFGS 34 41 26.00 10 ACP Control System and the ACP-SDC and with UFGS 34 71 13.19 Active Vehicle Barriers. The traffic control unit for the system, when possible, is to match a type used at the installation.

3.2.10.2. <ACP_VCC_NO>Not Used</ACP_VCC_NO><ACP_VCC>Visitor Control Center.

All general items apply to the Visitor Control Center except as modified herein. Provide CATV outlets in the offices, break room and waiting area. CCTV is to be placed to monitor the parking lot, waiting area and when people are at the ID check counter. <ACP_VCC>

3.2.10.3. <ACP_GH_NO>Not Used</ACP_GH_NO><ACP_GH>Gatehouse.

All general items apply to the Gatehouse except as modified herein. Provide dimmable luminaries for the guard room. CATV is not required. The guard room doors and the Electrical/Communication Room door are to have balanced magnetic switches. The IDS and CCTV local systems for the ACP are to be monitored and controlled at the gatehouse. Locate the traffic control unit in the Electrical/Communication Room.</ACP_GH>

3.2.10.4. <ACP_GB_NO>Not Used</ACP_GB_NO><ACP_GB>Guard Booths.

The guard booths are prefabricated. Comply with UFGS 13 34 23 Pre-engineered Guard Booth Structure and the ACP-SDC.

The guard booths shall have 100 amp, 120/240 V or 120/208V load center with main breaker; 115V duplex above and below counter and an outlet for the mechanical unit; exterior 115V duplex (GFCI, WP); light switch for the luminaire; floor cutout for electrical conduit access; UL Label for NEC compliance; exterior incandescent spotlight on the two corners near the road and a light switch inside to control the lights. Mass notification is required. A balanced magnetic switch is required on the door and connected back to the local IDS.</ACP_GB>

3.2.10.5. <ACP_SAB_NO>Not Used</ACP_SAB_NO><ACP_SAB>Search Area Building.

<ACP_SAB_BUS_YES>All general items apply to the Search Area Building except as modified herein. Provide sufficient power for the package scanner if one is required. </ACP_SAB_BUS_YES><ACP_SAB_BUS_NO>The only electrical requirement is to have a duplex receptacle at the shelter.</ACP_SAB_BUS_NO></ACP_SAB>

3.2.10.6. <ACP_PVSAC_NO>Not Used</ACP_PVSAC_NO><ACP_PVSAC>Passenger Vehicle Search Area Canopy.

All general items apply to the Passenger Vehicle Search Area Canopy except as modified herein. Provide exterior lighting under the canopy that complies with the ACP-SDC. Provide an exterior, weatherproof telephone outlet. Provide at least two duplex receptacles spaced apart. CATV, IDS, fire alarm and mass notification are not required.</ACP_PVSAC>

3.2.10.7. <ACP_TSAC_NO>Not Used</ACP_TSAC_NO><ACP_TSAC>Truck Search Area Canopy.

All general items apply to the Truck Search Area Canopy except as modified herein. Provide exterior lighting under the canopy that complies with the ACP-SDC. Provide an exterior, weatherproof telephone outlet. Provide at least two duplex receptacles spaced apart. Install a CCTV camera or cameras that see the top part of truck under inspection. Locate a monitor at the canopy to see the camera view(s). CATV, IDS, fire alarm and mass notification are not required.</ACP_TSAC>

3.2.10.8. <ACP_IDCAC_NO>Not Used</ACP_IDCAC_NO><ACP_IDCAC>Identity (ID) Check Area Canopy.

All general items apply to the Identify (ID) Check Area Canopy except as modified herein. Provide exterior lighting under the canopy that complies with the ACP-SDC. Particular attention is required for the conduit placement required for the automated identification entry equipment. CATV, IDS, fire alarm and mass notification are not required.</ACP_IDCAC>

3.2.10.9. <ACP_OW_NO>Not Used</ACP_OW_NO><ACP_OW>Overwatch Position.

<ACP_OW_PREFAB>The prefabricated overwatch position buildings are required to comply with UFGS 13 34 23 Pre-engineered Guard Booth Structure and the ACP-SDC.</ACP_OW_PREFAB><ACP_OW_SITEBUILT>The overwatch position buildings (guard booths) are required to have 100 amp, 120/240 V or 120/208V load center with main breaker; 115V duplex above and below

counter and an outlet for the mechanical unit; exterior 115V duplex (GFCI, WP); light switch for the luminaire; floor cutout for electrical conduit access; UL Label for NEC compliance; exterior incandescent spotlight on the two corners near the road and a light switch inside to control the lights. Mass notification is required. A balanced magnetic switch is required on the door and connected back to the local IDS. The overwatch booth is to have alarms that indicate overspeed, wrong-way and duress when required by the ACP-SDC.</ACP_OW_SITEBUILT><ACP_OW_PAD>The overwatch pad will need to have alarms visible to personnel in the vehicle. These alarms are for overspeed, wrong-way and duress when required by the ACP-SDC. The pad is also to have a means for the personnel to activate the active vehicle barrier system from the vehicle.</ACP_OW_PAD></ACP_OW>

3.2.11. <ACP_VCC_NO>NOT USED</ACP_VCC_NO><ACP_VCC>FIRE PROTECTION

Fire protection is to be designed in accordance with the latest edition of UFC 3-600-01. The majority of the facility is classified as Business, except that mechanical rooms, electrical rooms, communication rooms, storage rooms, and janitor's rooms are classified as storage. These facilities are to be protected throughout by a Fire Alarm and Detection system. Fire alarm systems are to be addressable type with addressable devices. The type, function and location of the fire alarm annunciator are to be coordinated with the installation Fire Department.</ACP_VCC>

3.3. ADDITIONAL REFERENCES.

These references are to be included in addition to those in Paragraph 4.

ASTM F2656(2007) Standard Test Methods for Vehicle Crash Testing of Perimeter Barriers

Military Surface Deployment and Distribution Command Transportation Engineering Agency (SDDCTEA)
Pamphlet 55-15, Traffic and Safety Engineering for Better Entry Control Facilities

Army Access Control Points Standard Design/Criteria (ACP-SDC) – January 2009 available at:
<https://pdc.usace.army.mil/library/drawings/acp>.