SCHRIEVER AIR FORCE BASE
INSTALLATION FACILITIES STANDARDS (IFS)
Schriever Air Force Base IFS

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A. OVERVIEW

Comply with Air Force Corporate Standards for Overview:
http://afcfs.wbdg.org/index.html

This Installation Facilities Standards (IFS) document is part of the Air Force Corporate Facilities Standards (AFCFS) program to assist bases in implementing and maintaining facilities standards as appropriate for efficient operations within the respective climate region. IFS fully replaces, consolidates and simplifies existing facilities standards documents, such as the Architectural Compatibility Plan (ACP) or ACGs, FEPs, etc., and organizes information using the same structure, or Table of Contents, as the AFCFS website.

IFS reflects the AFCFS' concepts of "Facility Hierarchy" (categorizing facilities into group numbers) and "Facility Quality" (assigning an appropriate level of quality to each group number) and applies these principles at the base level. Applicable DoD and Air Force criteria such as UFCs, AFIs, Memoranda, and UFGSs (Guide Specs) are referenced and linked within IFS to ensure the document is always current.

Navigating within this IFS is efficient and straightforward. Please use the interactive Table of Contents to locate subject matter, and click on the title of a section to access it. From any page, click on the "Back to Table of Contents" footer to return. Content is organized into 4 major sections: Installation Elements, Site Development, Facilities Exteriors and Facilities Interiors.

This IFS document begins as a fill-in PDF form, which is fully editable, and becomes a "living document" that can be regularly updated by base-level personnel following a format that is consistent across the Air Force. While the format is standardized, IFS content is customized for base operations and the local climate to ensure mission success while emphasizing reduced maintenance and reduced initial costs, life-cycle costs, energy use, and water use.

1. Conformance to Air Force Corporate Facilities Standards (AFCFS) and Installation Facilities Standards (IFS) are required by Air Force Instruction (AFI) 32-1023 and Air Force Memorandum. Please refer to the AFCFS website for links to documentation on current policy.

2. Requests to deviate from any installation facilities standards, that are Unified Facilities Criteria (UFC) requirements, will follow the process outlined in the AFCFS for UFC waivers and exemptions.

3. The IFS is a component plan of the Installation Development Plan (IDP) per Air Force Instruction (AFI) 32-7062 (replacing the Architectural Compatibility Plan). All military construction projects and Non-Appropriated Funds (NAF) facilities are required to comply with the IDP and its IFS component plan by AFI 32-1023. The Base Civil Engineer (BCE) maintains and implements the IDP and its component plans, to include the IFS.

4. Please refer to the AFCFS website as a portal to reference materials and requirements documents for design and construction projects (via links). Specific references to current DoD memoranda and Air Force criteria are updated periodically to provide the most current guidance and requirements. Programming, design and contract documents should list “current edition” for all reference and requirements documents. The documents in force at the date of execution of the design and/or construction contract shall be the governing version.

5. Advanced Modeling Requirements:
   For all Air Force projects requiring advanced modeling, to include 3D visualization, Building Information Modeling (BIM), facility data, quantity take-off, geospatial, etc., follow the Army standards. Refer to USACE Minimum Model Matrix (M3) and Project Execution Plan (PxP) which outline required model uses. Refer to CAD BIM Technology Center (Contract Requirements) for more information on M3 and PxP.

6. Joint Bases shall implement IFS under their Joint-Base designation with volume numbers for individual installations following the IFS Development Tool template. For example, for Joint Base Langley-Eustis, provide: Vol. 1 Langley AFB and Vol. 2 Fort Eustis.

7. References and Supplementary Documents listed in Appendix G are included in these Installation Facilities Standards by reference and are fully part of this document. Please refer to Appendix G for a listing of documents, which are available via hyperlink for viewing and downloading.
A01. FACILITY HIERARCHY
Comply with AF Corporate Standards for Facility Hierarchy (and subsections):
http://afcfs.wbdg.org/facility-hierarchy/index.html

A02. FACILITY QUALITY
Comply with AF Corporate Standards for Facility Quality (and subsections):
http://afcfs.wbdg.org/facility-quality/index.html

A03. FACILITY DISTRICTS
Comply with AF Corporate Standards for Facility Districts (and subsections):
http://afcfs.wbdg.org/facility-districts/index.html
Note: Apply the base-wide standards in this IFS for Installation Elements, Site Development, Facilities Exteriors and Facilities Interiors (products, materials, color, etc.). Following application of the base-wide standards, refer to the Appendix and apply any additional requirements specifically related to the Facility District.
B. INSTALLATION ELEMENTS
Comply with Air Force Corporate Standards for Installation Elements:
http://afcfs.wbdg.org/installation-elements/index.html

B01. COMPREHENSIVE PLANNING
Comply with Air Force Corporate Standards for Comprehensive Planning:
http://afcfs.wbdg.org/installation-elements/comprehensive-planning/index.html

B01.1. Installation Development Plan (IDP)
☐ Applicable  ☐ N/A Large graphics do not apply
☐ Applicable  ☐ N/A Small graphics do not apply

1. The Base Civil Engineer is responsible for developing, maintaining and implementing the installation's Comprehensive Planning documents and to ensure that the Installation Development Plan (IDP) is prepared, maintained, and implemented following AFI 32-7062.

B01.1.1. IFS Component Plan of IDP
☐ Applicable  ☐ N/A Large graphics do not apply
☐ Applicable  ☐ N/A Small graphics do not apply

1. Maintain this Installation Facilities Standards (IFS) as a Component Plan of the installation's Installation Development Plan (IDP). Schriever AFB Form-based Planning development guidelines are included in the new Comprehensive Planning Platform (CPP) IDP website.

B01.1.2. Brief History of Base
☐ Applicable  ☐ N/A Large graphics do not apply
☒ Applicable  ☐ N/A Select number of graphics / images (small: 250 px x 188 px) to insert  3

In 1979, the Air Force approved plans for a military installation to provide operational control and support of existing and future satellite constellations. In the early 1980s, the Air Force initiated its search for the location for the new Consolidated Space Operations Center (CSOC), which was prompted by the limited expansion capability at the Sunnyvale, California, CSOC (later named Onizuka AFS).

The DoD announced in 1981 that a new CSOC would be located east of Colorado Springs. Preliminary plans for CSOC called for a consolidation of Air Force space systems control operations and Air Force Space Shuttle operations. Construction of the CSOC...
began on 17 May 1983, and on 8 July 1985, the 2 SW was activated in a ceremony at the new Falcon AFS. The 2 SW assumed operational control of the Air Force Satellite Control Network (AFSCN) in October 1987.

Falcon AFS was renamed Falcon AFB on 13 June 1988. In September 1990, the JNTF was opened, and in January 1992, the inactivated 50 TFW was reactivated as the 50 SW to assume host responsibilities at Falcon AFB. In November 1993, the Space Warfare Center (SWC) was activated, and in September 1997, the 310th Space Group (SG) was also activated. The 310 SG was then re-designated the 310 SW on 7 March 2008.

On 5 June 1998, Falcon AFB was renamed Schriever AFB after General Bernard Schriever, widely recognized as the father of the Air Force missiles and space programs. The initial planning for Schriever Air Force Base (SAFB) began in the early 1980’s, when the initiated a search for an alternate location for the Satellite Control Facility at Sunnyvale AS, (later renamed Onizuka, AS). This search was prompted by the limited capacity for expansion Sunnyvale. In 1981, the Department of Defense announced that the Consolidated Space O Center (CSOC) would be built approximately 10 miles east of Colorado Springs, Colorado. Ground breaking took place during May 1983, and two years later on 8 July 1985, Falcon Air Station activated. The 2nd Space Wing (2SW) assumed control of the Air Force Satellite Control N (AFSCN) during 1987.

In June of 1988, Falcon AS was re-designated as an Air Force Base as a part of the Air Force wide restructuring. On 30 January 1992, the 50th Space Wing (50SW) replaced the 2SW as the host unit at FAFB. On 5 June 1998, FAFB was renamed Schriever AFB, after General Bernard Schriever, father of the Air Force space and missile program.

In 2017, the National Space Defense Center (NSDC), formerly the Joint Interagency Combined Space Operations Center (JICSpOC), was established in conjunction with U.S. Strategic Command (USSTRATCOM), AFSPC, and the intelligence community. Also in 2017, (USSTRATCOM) directed an organizational restructure of space forces combining AFSPC/CC and Joint Functional Component Command for Space (JFCC Space) personnel to create the Joint Force Space Component (JFSC) at Schriever AFB.

Additional installation information can be obtained at [https://www.schriever.af.mil/](https://www.schriever.af.mil/).

**B01.1.3. Future Development**

- **Applicable**  N/A  Large graphics do not apply
- **Applicable**  N/A  Small graphics do not apply


2. Address all future development under the Installation Development Plan (IDP). Refer to the IDP Planning Districts maps, which identify short-, medium-, and long-range development plans for Schriever AFB.

**B02. STREET ENVELOPE STANDARDS**


B02.1. Hierarchy of Streets

1. Develop and evolve a hierarchical transportation network of arterial, collector and local streets following UFC 3-201-01 and its industry references.

2. Provide consistent functionality throughout the installation and a level of visual quality relating to the adjacent Facility Group number.

3. Routes along facilities in Group 1 may have materials, finishes and features with a higher visual quality than Groups 2, 3 and 4. Reduce maintenance requirements by installing highly durable materials and finishes in routes along Group 3 industrial facilities.

4. Special routes may have a visual quality comparable to those along facilities in Group 1.

5. Create and maintain arterials with two lanes of traffic in each direction with landscaped or paved medians as applicable to the local climate and adjacent land use.

6. Minimize stops and turns along arterials. Eliminate on-street parking along arterials and collector streets.

7. Connect arterials to local streets with appropriately scaled collector streets.

8. Provide appropriate landscape setbacks and pedestrian buffers along all streets.

9. Minimize and consolidate curb cuts along streets.

10. Provide two basic types of lanes (travel and auxiliary) throughout the street system to accommodate continuous “through” traffic and to satisfy requirements for turning, parking, and emergency and service vehicles. Turning lanes may be used as either left-turn or right-turn lanes at intersections.

11. Define bicycle traffic routes in the Installation Development plan or its applicable component plans. Currently there is too little bicycle traffic to warrant designate bike lanes on streets. Bike trails with connections to off-installation trails should be considered.

12. Use consistent landscape treatment at all base entrances. Plant material massing, spacing, and height are characteristics that should visually reinforce the type of street.
B02.1.1. Arterial Streets

Schriever AFB does not have arterial streets, however Falcon Parkway follows the arterial street criteria.

1. Minimum arterial street dimensions shall be as follows:
   a. Travel Lane. 12'
   b. Median (if used). 12'
   c. Curb and Gutter. 2'
   d. Sidewalk. 6'
   e. Parking. 12' setback
   f. Buildings. 30' setback
g. Obstructions. 6’ setback

2. Stops and turns should be minimized and on-street parking shall not be allowed at any point along arterial streets.

3. Provide sidewalks on at least one side of arterial streets and both sides of arterial streets in developed areas. Provide a 6 foot buffer between the road and sidewalk where space allows.

4. Limit curb cuts on arterial streets to entries into major facilities, building groups and major parking areas.

5. Signs, plantings and street lighting should be added to reinforce the importance of arterial streets.

**B02.1.2. Collector Streets**

- Applicable  N/A  Select number of graphics / images (large: 800 px x 440 px) to insert 1
- Applicable  N/A  Select number of graphics / images (small: 250 px x 188 px) to insert 3

![Collector Streets graphic]

Travel Lane (a): 12’  Median (b): N/A  Curb and Gutter (c): 2’  Landscape (d): 10’  Sidewalk (e): 6’  Setback (f): 15’ or per ATFP requirements
1. Frequent traffic stops and low speeds are permitted on collector streets.

2. Provide sidewalks on at least one side of collector streets and both sides of collector streets where functionally required. Buffers are preferred but not required on collector streets.

3. On street parking may be allowed on one side where secondary roads are over 28 feet wide but not less than 34 feet wide. Parking shall not interfere with intersections or traffic flow.

4. Signs, plantings and street lighting should reinforce the designation of “collector” street.
B02.1.3. Local Streets

1. Design and maintain local streets in due proportion to the amount of traffic.

2. Generally encourage the development of street frontage of adjacent sites to positively contribute features such as landscaping.


4. Design and maintain local streets in due proportion to the amount of traffic.
5. Generally encourage the development of street frontage of adjacent sites to positively contribute features such as landscaping.


**B02.1.4. Special Routes**

- Applicable  N/A  Large graphics do not apply
- Applicable  N/A  Small graphics do not apply

1. Develop all special routes consistently with those adjacent to Group 1 facilities.

**B02.2. Hierarchy of Intersections**

- Applicable  N/A  Large graphics do not apply
- Applicable  N/A  Select number of graphics / images (small: 250 px x 188 px) to insert

![Roundabout Intersection](image)

![Four Way Intersection](image)

![Three Way (T) Intersection](image)

1. Provide a hierarchy of intersections to include arterial, arterial-collector, collector, collector-local and local following UFC 3-201-01 and its industry references.

2. Passive systems such as traffic circles are preferred to active systems such as signalized intersections. Aggressively pursue passive systems to lower maintenance requirements and reduce energy use.

3. Use a level of visual quality for an intersection equal to the quality found in the related streetscape, which corresponds to the adjacent Facility Group number.

**B02.2.1. Arterials**

- Applicable  N/A  Large graphics do not apply
- Applicable  N/A  Small graphics do not apply

1. At arterial intersections adjacent to Group 1, landscaping of native grasses and shrubs may be provided; trees may be included when maintenance and non-potable irrigation is available. Monuments and static displays may be integrated into arterial intersection designs. Refer to UFC 2-100-01 Installation Master Planning for guidance on arterial streetscape design.
1. At arterial/collector intersections adjacent to Group 1, landscaping of native grasses and shrubs may be provided; trees may be included when maintenance and non-potable irrigation is available. Refer to UFC 2-100-01 Installation Master Planning for guidance on arterial streetscape design.

B02.2.3. Collectors

1. At collector intersections adjacent to Group 1, landscaping of native grasses and shrubs may be provided; trees may be included when maintenance and non-potable irrigation is available. Intersections adjacent to Group 2 may be developed similarly, but with less detailing. Refer to UFC 2-100-01 Installation Master Planning for guidance on arterial streetscape design.

B02.2.4. Special Intersections

1. At collector intersections adjacent to Group 1, landscaping of native grasses and shrubs may be provided; trees may be included when maintenance and non-potable irrigation is available. Intersections adjacent to Group 2 may be developed similarly, but with less detailing. Refer to UFC 2-100-01 Installation Master Planning for guidance on arterial streetscape design.
1. Develop all special intersections consistently with those adjacent to Group 1 facilities.

**B02.2.5. Street Frontage Requirements**

☐ Applicable  ☐ N/A Large graphics do not apply

☐ Applicable  ☐ N/A Select number of graphics / images (small: 250 px x 188 px) to insert 1

![Street Frontage Setback](image)

1. Provide adequate sight lines for an effective and safe traffic operation per American Association of State Highway and Transportation Officials (AASHTO) standards and local municipality guidelines.

2. Sight lines will vary based on the speed and classification of the roadway or intersection. Plants and any related signage within the sight triangle should follow these rules:
   - Shrubs may not exceed thirty inches (30") growing height within sight triangles.
   - Signs may not be placed along the roadway unless regulatory in nature and approved by the base traffic engineer.

**B02.2.6. Sight Lines**

☐ Applicable  ☐ N/A Large graphics do not apply

☐ Applicable  ☐ N/A Select number of graphics / images (small: 250 px x 188 px) to insert 2

![View from Intersection](image)  ![T Intersection](image)

1. Provide adequate sight lines for an effective and safe traffic operation per American Association of State Highway and Transportation Officials (AASHTO) standards and local municipality guidelines.
B02.3. Street Elements

1. Emulate the streetscape area's pre-development hydrology using passive and active design features to help sustain the adjacent regionally appropriate landscape. Coordinate with the base Stormwater Management Plan.

2. Employ systems, materials and techniques to maximize streetscape sustainability. Consider pervious paving and reflectivity of surfaces appropriate for the local climate.

3. Install at-grade curbing and/or raised-profile curb and gutter as applicable to direct stormwater to bioswales and rain gardens as source water for vegetation. Do not paint concrete curbing.

4. Provide all on-site utility service lines and equipment below grade when adjacent to Facility Group 1. In routes along Group 2, 3 and 4, when mounting elements such as utility cabinets, communications equipment and water valves above grade is unavoidable, paint these consistently and provide visual screening following Installation Facilities Standards (IFS).

5. Provide traffic control devices including access control point/entry control facility signs, speed limit signs and street name signs following the current edition of the Manual on Uniform Traffic Control Devices (MUTCD) per UFC 3-120-01.

6. Follow UFC 3-120-01 for directional and wayfinding signs and address both vehicular and pedestrian traffic.

7. Reduce energy consumption and reduce maintenance requirements by providing street lighting only when functionally required to ensure safety and to address antiterrorism following UFC 4-010-01. Ensure the quality and quantities of lighting and fixtures are appropriate for the adjacent Facility Group number.

8. Replace line-hung traffic signals with arm-mounted signal systems having enclosed wiring raceways.
9. Integrate the style of traffic signal systems with other related streetscape items such as signage, lighting, and site furnishings. Avoid visual clutter at street intersections.

10. Incorporate standard regulation size traffic signals, one for each forward traffic lane, and one for each left-turn and/or right turn lane as necessary.

B02.3.1. Paving

☐ Applicable  ○ N/A  Large graphics do not apply

○ Applicable  ○ N/A  Select number of graphics / images (small: 250 px x 188 px) to insert 2

1. Pavement design shall comply with UFC 3-250-01. Ensure appropriate analysis and design of subgrade conditions to support low maintenance high performance pavements. Apply best practices from the Construction: Seasonal Frost Conditions section of the UFC.

2. Materials for pavements shall be specified in accordance with UFC 3-250-01 and must conform to requirements set forth in the Unified Facility Guide Specifications (UFGS) for concrete and asphaltic concrete.

B02.3.2. Curb and Gutter

☐ Applicable  ○ N/A  Large graphics do not apply

○ Applicable  ○ N/A  Select number of graphics / images (small: 250 px x 188 px) to insert 2

1. Continuous concrete curbs and gutters shall be provided at street edges areas of the installation to:
   • Help control drainage.
   • Deter vehicles from leaving the pavement.
• Protect pedestrians.
• Delineate the pavement edge.
• Present a more finished general appearance.
• Assist in orderly and disciplined development of the street system.

2. Provide dimensions following the illustrations for Standard Mountable Curb, Standard Barrier Curb and Standard Header Curb.

3. Use the barrier curb design at arterial streets and at raised central medians. Use the mountable curb design at collector and local streets. Use the header curb design at locations where a permanent, finished edge is required, but where pavement drainage can flow onto adjacent areas such as bioswales and rain gardens.

**B02.3.3. Utility Service Elements**

☐ Applicable    ☐ N/A   Large graphics do not apply

☐ Applicable    ☐ N/A   Select number of graphics / images (small: 250 px x 188 px) to insert 1  Image Tool 250 x 188

1. Provide all utility service lines below grade when streets are adjacent to Facility Group 1; when mounting elements (such as utility cabinets, communications equipment and water valves) above grade is unavoidable, paint these consistently Dark Bronze to match FSC 30040 (low-luster finish) and provide visual screening following Site Development, Landscaping.

2. Overhead service lines along streets adjacent to Facility Groups 2, 3 and 4 are prohibited.
**B02.3.4. Traffic Signs**

- Applicable  N/A  Large graphics do not apply
- Applicable  N/A  Select number of graphics / images (small: 250 px x 188 px) to insert  1

![Typical Intersection Traffic Sign](image)

1. Refer to Exterior Signs, Colors and Types for Traffic Control Devices, which includes signs.

**B02.3.5. Street Lighting**

- Applicable  N/A  Large graphics do not apply
- Applicable  N/A  Select number of graphics / images (small: 250 px x 188 px) to insert  2

![Lighting along Falcon Parkway](image) ![Lighting along Schriever Street](image)

1. Refer to the Lighting section for appropriate applications along streets.

**B02.3.6. Other**

- Applicable  N/A  Large graphics do not apply
- Applicable  N/A  Small graphics do not apply
B03. OPEN SPACE / PUBLIC SPACE

Comply with Air Force Corporate Standards for Installation Elements:
http://afcfs.wbdg.org/installation-elements/index.html

Comply with AF Corporate Standards for Open Space / Public Space:

B03.1. Plazas, Monuments and Static Displays

☐ Applicable ☒ N/A Large graphics do not apply

☐ Applicable ☒ N/A Select number of graphics / images (small: 250 px x 188 px) to insert

Insert Plazas, Monuments and Static Displays graphic
Size image to: 250 pixels width x 188 pixels height
Click here to insert image

Image Tool 250 x 188

Headquarters Plaza
9/11 Monument

1. Natural features and culturally or historically significant features or events may be recognized and acknowledged with physical elements such as plazas, monuments and static displays. However, limit these elements on the base to ensure judicious use of resources and to reduce ongoing maintenance requirements.

2. Design highly durable plazas, monuments and static displays with a level of quality comparable to Facility Group 1.

3. Link plazas, monuments and static displays to the pedestrian circulation system. Install landscaping, site furnishings and lighting appropriate for the application and local climate following Installation Facilities Standards (IFS).

4. Select systems, products and materials for paving, walls, and structures following IFS.
**B03.1.1. Paved Plazas**

- Applicable ☑ N/A Large graphics do not apply
- Applicable ☑ N/A Select number of graphics / images (small: 250 px x 188 px) to insert 1

Insert Paved Plazas graphic

Size image to: 250 pixels width x 188 pixels height
Click here to insert image

Concrete Paved Plaza

1. Mitigate heat island by providing high-albedo, shaded plazas. Pervious pavers shall be used on all plazas and courtyards in Facility Groups 1 and 2; use pervious concrete in Groups 3 and 4. The designer shall incorporate appropriate expansion and construction joints.

2. Pavers shall match the color of pavers used on adjacent sidewalks using base standard range of beiges, tans, browns, or terra cotta.

**B03.1.2. Sculptures, Markers and Statuary**

- Applicable ☑ N/A Large graphics do not apply
- Applicable ☑ N/A Select number of graphics / images (small: 250 px x 188 px) to insert 2

Insert Sculptures, Markers and Statuary graphic

Size image to: 250 pixels width x 188 pixels height
Click here to insert image

1. Relate new sculpture, markers and statuary to the base's architectural design theme. Generally limit these elements to frequently used locations adjacent to Facility Group 1 and highly traveled community pedestrian spaces.

2. Consider entry gates as possible sites for new displays.

3. All proposed memorials shall follow AFI 36-3108 and be limited to highly deserving individuals or groups as deemed appropriate by the installation leadership.

4. When sculpture requires a base, match the materials and / or color palette of adjacent buildings.
5. Use direct or indirect lighting to accentuate features or enhance an intended effect.

**B03.1.3. Static Display of Aircraft**

- **Applicable**  
  - N/A  
  - Large graphics do not apply

- **Applicable**  
  - N/A  
  - Small graphics do not apply

1. Follow IFS base-wide standards for all elements of the display area, which may include elements other than aircraft, with specific attention to traffic sight lines, pedestrian circulation, site furnishings, signs, and lighting. Address requirements for the Facility District as well.

2. Generally locate concrete base/foundation structures for static displays below grade.

3. At static displays where pedestrian paths are provided, a minimum of one trash receptacle and one bench shall be provided. Receptacle and bench design must conform to IFS requirements.

**B03.2. Grounds and Perimeters**

- **Applicable**  
  - N/A  
  - Large graphics do not apply

- **Applicable**  
  - N/A  
  - Select number of graphics / images (small: 250 px x 188 px) to insert

1. Provide formal spaces for parade and review functions, recreational areas and parks following the base’s Installation Development Plan (IDP) and Installation Facilities Standards (IFS). Refer to the Site Furnishings topic for additional information.

2. Maintain preservation areas following the IDP and IFS.

3. Comply with UFC 4-010-01 DoD Minimum Antiterrorism Standards for Buildings and UFC 4-022-03 Security Fences and Gates for all elements associated with the base’s gates and perimeter fence.

4. Identify and describe base-wide utility corridors in the IDP.

5. Base-wide utility infrastructure shall be inconspicuous.

6. Follow the requirements of this IFS regarding all utility structures and service lines located above grade that visually impact the installation.

7. Where screening of utility equipment and structures is provided, allow adequate and proper clearance for safety and maintenance.
8. Larger structures such as electrical switch-stations, sewage lift stations, fuel storage tanks and mechanical/electrical equipment shall be screened from view, using materials, forms, and colors in the screen walls which match those respective design elements present at adjacent buildings.

**B03.2.1. Parade Grounds**

- Applicable  N/A  Large graphics do not apply
- Applicable  N/A  Small graphics do not apply

**B03.2.2. Parks**

- Applicable  N/A  Large graphics do not apply
- Applicable  N/A  Select number of graphics / images (small: 250 px x 188 px) to insert

![Community Area Pavilion](Image Tool 250 x 188)

1. Follow guidance under Parade Grounds.

2. Picnic pavilions may be provided in parks where there is a documented need.
B03.2.3. Preserves

☐ Applicable ☐ N/A  Large graphics do not apply

☐ Applicable ☐ N/A  Select number of graphics / images (small: 250 px x 188 px) to insert 1

[Open Space Image]

1. Preserve areas, which are identified in the IDP as open space.

2. Maintain natural systems with minimal maintenance and provide mowing, etc., only as needed for eliminating fire hazards or other conditions that may compromise the mission.

B03.2.4. Perimeter Fence

☐ Applicable ☐ N/A  Large graphics do not apply

☐ Applicable ☐ N/A  Select number of graphics / images (small: 250 px x 188 px) to insert 1

[Perimeter Fence Image]

1. Design, install and maintain the base’s perimeter fence following UFC 4-022-03.

2. Stringently comply with ATFP requirements following UFC 04-010-01 for all spaces adjacent to the base’s perimeter fence and all gates.

3. Fencing, gates and other elements that are associated with the main gates shall be a level of quality equivalent to Facility Group 1.

4. Maintain a positive visual quality along the traffic corridor on both sides of the main gates. Specifically address pedestrian access, circulation and common areas.
C. SITE DEVELOPMENT

Comply with Air Force Corporate Standards for Site Development:
http://afcfs.wbdg.org/site-development/index.html

C01. SITE DESIGN

Comply with Air Force Corporate Standards for Site Development:
http://afcfs.wbdg.org/site-development/index.html

Comply with AF Corporate Standards for Site Design / NEPA:
http://afcfs.wbdg.org/site-development/site-design-nepa/index.html

C01.1. Site Design Considerations

☐ Applicable  ☑ N/A  Large graphics do not apply

☐ Applicable  ☑ N/A  Select number of graphics / images (small: 250 px x 188 px) to insert  3

Insert Site Design Considerations graphic
Size image to:
250 pixels width x 188 pixels height
Click here to insert image

Colorado Plains
Severe Weather
Colorado Springs and Pikes Peak

1. Collect documentation to validate approvals and completion of the NEPA process.

2. Ensure site design compliance with the Installation Development Plan (IDP) and its component plans and Installation Facilities Standards (IFS).

3. Promote integrated design with on-site solutions such as engineered small-scale hydrologic controls versus base-wide infrastructure; consider open space, natural features, bioswales, building roofs, streets, and paved surfaces.

4. Limit the impact of development on land and water resources. All site elements and infrastructure shall reinforce an image of sustainability, with reduced energy demand, renewable-energy usage, and water conservation.

5. Consider energy conservation during site design for the following categories: building and site lighting, auxiliary systems and equipment (refrigerators, elevators, etc.), building envelope, electric power and distribution, HVAC systems and equipment, service hot water, energy management (metering, EMCS).

6. Coordinate on-site renewable-energy systems and components to minimize area requirements and maximize efficiencies. Appropriately buffer and screen these and other mechanical systems and equipment.

7. New building projects should preserve open space and protect natural habitat.

8. Conform to existing topography to the greatest extent possible and use slopes to increase site and building efficiencies. Design sites to minimize irrigation and impacts to stormwater runoff.

9. Carefully study new project sites to identify the character of adjacent buildings, streets, landscaping, and site design elements. Reinforce the existing character in new site design.
10. Consider relationships to adjacent facilities and district / centralized heating and cooling infrastructure and cost effectively connect building systems to harvest heat, grey water or other beneficial byproducts.

11. Minimize existing and planned obstructions from landscaping, structures, topography, and adjacent developments to preserve solar access and natural ventilation.

12. Purposefully integrate service access, receiving and storage areas to eliminate the need for visual screening.

13. Appropriately connect to the base network of streets, sidewalks and trails using drive aisles, parking areas, walkways, paths, and bicycle routes addressing both vehicles and pedestrians.

14. Applicably coordinate heat island mitigation in paving and roof designs when implementing an integrated approach to stormwater management.

C01.2. Building Orientation

Applicable  N/A  Select number of graphics / images (large: 800 px x 440 px) to insert  1

Applicable  N/A  Select number of graphics / images (small: 250 px x 188 px) to insert  6

Conceptual Site Analysis and Site Design Diagram
1. Ensure the site will accommodate optimum requirements for building orientation, which is with the long axis parallel to the east/west direction for rectilinear CONUS buildings.

2. Meet Installation Facilities Standards (IFS) requirements for the locations of the building’s passive and renewable-energy systems—including geothermal and solar systems—and exterior shading systems.

3. Locate the building(s) and permitted ancillary structures to promote solar gain, solar shading, natural ventilation, rainwater harvesting, wind buffering and other beneficial passive systems. Consider natural ventilation during the design of HVAC systems.

4. Consider relationships to adjacent sites and their facilities and infrastructure, and cost effectively integrate building systems to harvest heat, grey water or other beneficial byproducts.

5. Consider the “public side” of the building, its views and the location of the main entrance.

C02. UTILITIES
Comply with AF Corporate Standards for Site Development:
http://afcs.wbdg.org/site-development/index.html

Comply with AF Corporate Standards for Utilities:
http://afcs.wbdg.org/site-development/utilities/index.html
C02.1. Utility Components

☐ Applicable ☐ N/A Large graphics do not apply

☐ Applicable ☐ N/A Select number of graphics / images (small: 250 px x 188 px) to insert 4

Insert Utility Components graphic

Size image to:
250 pixels width x 188 pixels height
Click here to insert image

Screened Utilities
Exposed HVAC Unit
Ground Utilities
CDC Solar Photovoltaic Array

1. Provide all on-site utility service lines below grade for Facility Group 1; when mounting elements (such as utility cabinets, communications equipment and water valves) above grade is unavoidable, paint these consistently and provide visual screening following Installation Facilities Standards (IFS).

2. Provide installation of utility infrastructure to support near term and future electric vehicle charging stations.

3. Define all service entry points into the building and route distribution below grade into an interior space within the facility; exposed conduits, cables and wires on exterior walls are not permitted for Facility Group 1.

4. Include consideration of appropriate placement of meters in support of Automated Revenue Management Services (ARMS).

5. Limit exterior mechanical distribution systems such as exterior steam, chilled water, and hot water distribution to Group 3 facilities; when required for Group 1 and 2 facilities integrate with the architecture and provide visual screens following IFS.

6. Direct roof drainage to underground collection when feasible or provide splash blocks / paved channels to intercept roof drainage at grade.

C03. PARKING AREAS

Comply with AF Corporate Standards for Site Development:
http://afcfs.wbdg.org/site-development/index.html
C03.1. Configurations and Design

☐ Applicable  ☑ N/A  Large graphics do not apply

☐ Applicable  ☑ N/A  Select number of graphics / images (small: 250 px x 188 px) to insert 3

1. Evaluate adjacent sites and cost-effectively consolidate parking areas to maximize efficient use; ensure that all areas meet accessibility guidelines.

2. Generally envision on-site parking as a series of small connected singular areas selectively placed around the facility served, rather than a single large area; buffer parking areas from the facility main entrance with a transition space and provide drop-offs to decrease close-in parking.

3. Integrate at-grade and raised-profile curbing, permeable paved areas, and parking islands with the stormwater system and direct stormwater to bioswales and rain gardens as source water for regionally appropriate native vegetation.

4. Define pedestrian access with approved hardscape and provide shading along the primary path from the parking area to the main entrance of the building.

5. Coordinate suitable landscape or barriers integrated with walls and fences to ensure adequate force protection.

6. Accessible parking spaces shall be marked according to UFC 3-120-01 and its references in ABAAS and the MUTCD.

7. Cost-effectively provide light-colored concrete to reduce heat island effect; otherwise install asphaltic concrete paving.

8. Consideration locations and requirements of near term and future electric vehicle charging stations.

9. Designate preferred parking spaces for electric vehicles and carpools near the main entrance.

10. Consider cost-effectively integrating solar photovoltaic arrays into covered parking structures.

11. Reserved parking is discouraged except for Facility Group 1.

12. On-street parking is discouraged except in multi-use areas. When used, provide approved on-street parking configurations following UFC 3-201-01.

13. Access and service drives should accommodate the largest vehicle serving the facility.

14. Parking lots should be located to maximize sharing with other related facilities.

15. 90-degree spaces and two-way traffic aisles are the desired configuration.
16. Curbing shall be continuous where possible and serve as the wheel stop.

17. Parking lots that promote cross-traffic between parallel streets should be avoided.

18. On-street, head-in parking that would require backing of a vehicle onto any street should not be permitted.

19. Parking and crosswalk striping should follow base standards or the Military Traffic Management Commander Transportation agency (MTMC).

20. Perimeter screen planting shall be encouraged to minimize the visual impact of parking areas.

21. Avoid planting shrubs in islands. Trees are acceptable.

22. Locate lighting poles in center or side islands at least 3 feet from face of curb and their location shall be fully coordinated with landscaping plan.

**C03.1.1. Paving and Striping**

- Facility Group 1 paving materials shall be as follows.
  - Primary: Asphaltic concrete
  - Secondary: Concrete
  - Accent: Permeable pavers

- Facility Group 2 paving materials shall be as follows.
  - Primary: Asphaltic concrete
  - Secondary: Concrete
  - Accent: N/A

- Facility Group 3 paving materials shall be as follows.
  - Primary: Concrete where operationally required
  - Secondary: Asphaltic concrete
  - Accent: N/A

- Facility Group 4 paving materials shall be as follows.
  - Primary: Asphaltic concrete
  - Secondary: Concrete driveways
  - Accent: N/A

1. Parking stall areas in Groups 1 and 2 shall be constructed of permeable brick pavers. Paver stall areas shall be separated from the asphalt drive aisles with a 6” wide by 12” deep at grade concrete edge barrier.
2. Porous asphalt is not an acceptable product for the local climate at Schriever AFB; porous concrete may be considered on a case basis.

3. Cost-effectively provide light-colored concrete to reduce heat island effect; otherwise install asphaltic concrete paving. Dirt, gravel, and grass lots are not allowed.

4. Use consistent striping, angles and stall sizes in all parking areas.

5. All parking shall be marked with white stripes of paint or applied vinyl coatings. Red or yellow markings shall only be used for safety purposes and must be kept to a minimum. All lines shall be four inches (4") wide.

6. Disabled spaces shall be marked with signs following section C08.1.8.

7. Keep all signs to an absolute minimum. Use painted curb sign over free standing signs.

8. Separate sign for each reserved spot.

**C03.1.2. Curbing**

- Facility Group 1 curbing / edging materials shall be as follows.
  - Primary: Concrete
  - Secondary: N/A
  - Accent: N/A

- Facility Group 2 curbing / edging materials shall be as follows.
  - Primary: Concrete
  - Secondary: N/A
  - Accent: N/A

- Facility Group 3 curbing / edging materials shall be as follows.
  - Primary: Concrete
  - Secondary: N/A
  - Accent: N/A

- Facility Group 4 curbing / edging materials shall be as follows.
  - Primary: Concrete
  - Secondary: N/A
  - Accent: N/A

1. Define all parking lots with either raised profile or at-grade curbing to promote drainage and protect paving edges. All raised curbs shall be the rolled (mountable) type.
2. Integrate curbing to direct stormwater to bioswales and rain gardens as source water for regionally appropriate native vegetation.

**C03.1.3. Internal Islands and Medians**

- **Applicable** ☐ N/A Large graphics do not apply
- ☑ Applicable ☐ N/A Select number of graphics / images (small: 250 px x 188 px) to insert 3

![Vegetated Island](image1.png) ![Aggregate Median and Islands](image2.png) ![Aggregate Median](image3.png)

1. Install landscape islands and medians as visual breaks, to reduce heat island effects and to accommodate bioswales and rain gardens. Coordinate suitable landscape or barriers integrated with walls and fences to ensure adequate force protection.

2. When lighting is necessary, contain fixture bases within medians or internal landscape islands.

**C03.2. Parking Structures**

- ☐ Applicable ☑ N/A Large graphics do not apply
- ☐ Applicable ☑ N/A Small graphics do not apply

1. Not applicable.

**C03.3. Connectivity**

- ☐ Applicable ☑ N/A Large graphics do not apply
- ☑ Applicable ☐ N/A Select number of graphics / images (small: 250 px x 188 px) to insert 3

![Links to Main Entrance](image4.png) ![Contrasting Pavements](image5.png) ![Adjacent Accessible Parking](image6.png)
1. Refer to the Installation Development Plan (IDP) for locations of transit stops and pedestrian and cycling networks; provide appropriately sized sidewalks and bike paths to connect facilities and users to these networks.

2. Provide amenities such as rain and shade shelters, trees, and benches to encourage and facilitate use of public transportation.

3. Evaluate the IDP for the current and planned network of roads and optimally develop vehicular access to and from the site.

C04. STORMWATER MANAGEMENT

Comply with AF Corporate Standards for Site Development:
http://afcfs.wbdg.org/site-development/index.html

Comply with AF Corporate Standards for Stormwater Management:

C04.1. Stormwater Requirements

☐ Applicable ☑ N/A Large graphics do not apply

☐ Applicable ☑ N/A Select number of graphics / images (small: 250 px x 188 px) to insert

Culvert with Wingwalls and Slope Protection

Shoulder Drainage

Drain Inlet

1. Design all stormwater systems including retention ponds, detention areas, channels, etc. as on-site amenities that are consistent with natural systems and drainage patterns, that help sustain the base landscape with beneficial functionality and that provide aesthetic appeal; coordinate with the base Stormwater Management Plan.

2. Incorporate bioswales into the design of all roadway, parking and facility roof systems to enhance water quality and support the overall stormwater system.

3. When underground drainage systems are required establish a maintenance program to include removal of sediments and debris; inspect joints seasonally for alignment to prevent leakage and the development of voids and surface failures.


C05. SIDEWALKS, BIKEWAYS AND TRAILS

Comply with AF Corporate Standards for Site Development:
http://afcfs.wbdg.org/site-development/index.html

Comply with AF Corporate Standards for Sidewalks, Bikeways and Trails:
http://afcfs.wbdg.org/site-development/sidewalks-bikeways-trails/index.html
C05.1. Circulation and Paving

Facility Group 1 sidewalks, plazas, and courtyards paving materials shall be as follows.

- **Primary:** Pervious Pavers
- **Secondary:** Concrete Edging
- **Accent:** N/A

Facility Group 2 sidewalks, plazas, and courtyards paving materials shall be as follows.

- **Primary:** Pervious Pavers
- **Secondary:** Concrete Edging
- **Accent:** N/A

Facility Group 3 sidewalks, plazas, and courtyards paving materials shall be as follows.

- **Primary:** Permeable Concrete
- **Secondary:** N/A
- **Accent:** N/A

Facility Group 4 sidewalks, plazas, and courtyards paving materials shall be as follows.

- **Primary:** Permeable Concrete
- **Secondary:** N/A
- **Accent:** N/A

1. Maintain efficient geometry and accessibility to connect building entrances to adjacent parking areas and activity areas and to the base transportation system following ATFP. Efficiently use materials to optimize life-cycle costs and to minimize maintenance.

2. Generally conform horizontal layouts of sidewalks to the geometric configuration of adjacent buildings, streets, parking lots, and other adjacent related site amenities. Occasional meanders and/or jogs may be included to capture views, to coordinate with landscaping or accommodate site constraints.

3. Walks in parking areas shall provide a direct path using "safe islands" and "peninsulas" to encourage safety. Walks parallel to streets shall follow streetscape guidelines. Clearly mark pedestrian crossings at vehicular routes.

4. Mitigate heat island by providing high-albedo, shaded sidewalks. Pervious pavers shall be used on all sidewalks, plazas and courtyards in Facility Groups 1 and 2; use pervious concrete in Groups 3 and 4. The designer shall incorporate appropriate expansion and construction joints.

5. Only experienced contractors will install pervious pavements.
6. Consider an integrated approach that could include stormwater management (permeable surfaces) and complement the design of the storm drainage system when appropriate.

7. Pedestrian paths should be at least 5’ in width to allow for comfortable side-by-side walking.

8. Sidewalks leading to a building main entrance and at the interior of parking lots shall be a minimum width of 6’. Walks greater than 10’ wide may be used at high-density pedestrian areas where volumes of traffic justify added material.

9. Where cars park adjacent and head-in to the sidewalk and wheel stops are not used, such perimeter walks shall be increased to a minimum width of 8’ to accommodate overhangs of the parked vehicles.

10. Connect to the bicycle circulation system and provide bicycle parking with a suitable means for securing bicycles following IFS. Consider changing/shower facilities for use by cyclists.

11. Refer to the Installation Development Plan for future trails, bicycle paths, and sidewalks.

**C05.1.1. Ramps and Stairs**

- Applicable  N/A  Large graphics do not apply
- Applicable  N/A  Select number of graphics / images (small: 250 px x 188 px) to insert  3

1. Use ramps instead of stairs for sidewalks, bikeways and trails and at all buildings where possible. Where steps are unavoidable, follow UFC 1-200-01 and its references to the International Building Code.
C05.1.2. Lighting

☐ Applicable  ☐ N/A  Large graphics do not apply

☒ Applicable  ☐ N/A  Select number of graphics / images (small: 250 px x 188 px) to insert 2

1. Provide lighting for all stairs and landing areas where traffic warrants.
2. Refer to the Lighting section for path lighting along sidewalks, bikeways and trails.

C06. LANDSCAPE

Comply with AF Corporate Standards for Site Development:
http://afcfs.wbdg.org/site-development/index.html

Comply with AF Corporate Standards for Landscape:
http://afcfs.wbdg.org/site-development/landscape/index.html

C06.1. Climate-based Materials

☐ Applicable  ☐ N/A  Large graphics do not apply

☒ Applicable  ☐ N/A  Select number of graphics / images (small: 250 px x 188 px) to insert 3

1. Use only native, naturally occurring, drought tolerant indigenous plant species (including grasses) appropriate for the locale to promote energy efficiency and water conservation, preserve drainage patterns, inhibit erosion, improve air quality, lower maintenance, and add beauty.
C06.1.1. Landscape Design Concept

☐ Applicable  ☐ N/A  Large graphics do not apply

☒ Applicable  ☐ N/A  Select number of graphics / images (small: 250 px x 188 px) to insert  4

1. Develop, maintain and implement a climate-based plant list with landscape features using a regionally appropriate palette of materials to promote energy efficiency, preserve drainage patterns, inhibit erosion, improve air quality, lower maintenance and add beauty. Follow UFC 3-201-02 Landscape Architecture.

2. Landscaping is required for all newly developed sites and facilities; preserve existing native landscape where possible and avoid overplanting.

3. Concentrate landscaping in Facility Group 1 and along major thoroughfares and integrate these landscaped areas into the base’s stormwater management plan. Refer to the Streetscape Envelope Standards in this IFS.

4. All Facility Group 1 and 4 sites shall be landscaped at their entire perimeter; limit formal planting arrangements to formal spaces typically associated with Group 1. Landscape public spaces near the main entrances of Group 1 facilities.

5. Facility Group 2 and 3 sites may have a native undisturbed landscape except at the main entrances of Group 2, which should be newly landscaped.

6. Facility plantings shall follow the Installation Facilities Standards (IFS) plant list, which is based on the specific microclimates created by the adjacent building: shadow areas, protected areas, zones adjacent to thermal mass, and availability of rainwater and/or grey water.

7. Provide open spaces as transitions between developed and native areas that promote quality of life and provide visual relief and allow walkable connections to the transportation system.
8. Return suitable areas to a natural state to minimize and, whenever possible, eliminate ground maintenance requirements; expand prairie areas where appropriate with native plants to eliminate mowing and maintenance requirements.

9. In tree clusters replace grass with naturalized shrub beds and leaf litter mulch to eliminate mowing requirements.

10. Use plantings in open spaces to reinforce the space as a visual asset.

11. Consider landscape windbreaks when suitable for the local climate.

12. Integrate security requirements into the landscape design. Coordinate the heights of trees and shrubs and note restrictions for plantings following UFC 4-010-01.

13. Berms may be used as an integral part of the overall landscape strategy for screening, security and/or visual interest.

C06.1.2. Xeriscape Design Principles

1. Apply xeriscape principles following UFC 3-201-02, Appendix B, and Air Force Corporate Facilities Standards.

2. Facility plantings are encouraged to use native plant species and to consider specific microclimates created by the adjacent building: shadow areas, protected areas, zones adjacent to thermal mass, and availability of rainwater and/or grey water.

C06.1.3. Minimizing Water Requirements

1. Reasonably reduce demand on potable water while seeking opportunities to increase alternative water sources for irrigation. Reduce or eliminate the use of potable/domestic water for purposes of landscape architecture maintenance, consistent with existing legal or contractual obligations, and prohibit potable-water irrigation in new construction beyond establishment following current DoD and Air Force policy.
C06.1.4. Plant Material Selection

- Applicable  ☑ N/A  Large graphics do not apply
- Applicable  ☑ N/A  Select number of graphics / images (small: 250 px x 188 px) to insert  2

1. New facilities are encouraged to use native plant species as indicated on the following plant lists published by Colorado State University Extension for the Plains Region:
   - Native Shrubs: [http://extension.colostate.edu/topic-areas/yard-garden/native-shrubs-for-colorado-landscapes-7-422/](http://extension.colostate.edu/topic-areas/yard-garden/native-shrubs-for-colorado-landscapes-7-422/)
   - Native Trees: [http://extension.colostate.edu/topic-areas/yard-garden/native-trees-for-colorado-landscapes-7-421/](http://extension.colostate.edu/topic-areas/yard-garden/native-trees-for-colorado-landscapes-7-421/)
   - Native Herbaceous Perennials: [http://extension.colostate.edu/topic-areas/yard-garden/native-herbaceous-perennials-for-colorado-landscapes-7-242/](http://extension.colostate.edu/topic-areas/yard-garden/native-herbaceous-perennials-for-colorado-landscapes-7-242/)

2. Trees should be the focus of landscape plantings and, where possible, should be a mix of deciduous and evergreen species for variety; provide tree grates when appropriate and use tree guards on smaller trees.

3. Ground covers are only recommended when minimal maintenance is required.

4. Turf areas should be limited to those that can be sustained by natural rainfall or grey water (non-potable) irrigation systems; turf may be defined by at-grade concrete mow strips to lessen maintenance.

5. Analyze soils and provide organic amendments to as needed to improve plant growth and conserve water. The general rule is to add 3-4 cubic yards of organic matter per 1,000 square feet of area in addition to appropriate 2-4 inches of topsoil. The amendments should be well integrated into the soil at least 6-8 inches to encourage deep root growth.

6. All plant material shall have one-year warranty and is subject to approval by Base Landscape Architect.
C06.1.5. Water Budgeting (Hydrozones)

1. Comply with DoD and Air Force policy on potable-water irrigation systems.


3. New buildings shall cost-effectively integrate a grey-water reclamation system following UFC 1-200-02, which provides source water for an automatic drip irrigation system; connect adaptive plantings adjacent to facilities to a grey-water irrigation system when available and discontinue the use of potable water for irrigation after the establishment period.

4. Provide irrigation design following UFC 3-201-02. Install drip irrigation products and components following UFGS Section 32 84 24 Irrigation Sprinkler Systems. Match the color of valve box lids to the adjacent ground treatment (i.e. green at turf & native seed areas, brown at wood mulch & rock areas).

5. Life cycle cost-effectively equip irrigation systems to sense soil moisture, rainfall and wind to minimize unnecessary watering; incorporate drip irrigation systems as the primary source.

C06.1.6. Base Entrance Landscaping

1. Comply with DoD and Air Force policy on potable-water irrigation systems.


3. New buildings shall cost-effectively integrate a grey-water reclamation system following UFC 1-200-02, which provides source water for an automatic drip irrigation system; connect adaptive plantings adjacent to facilities to a grey-water irrigation system when available and discontinue the use of potable water for irrigation after the establishment period.

4. Provide irrigation design following UFC 3-201-02. Install drip irrigation products and components following UFGS Section 32 84 24 Irrigation Sprinkler Systems. Match the color of valve box lids to the adjacent ground treatment (i.e. green at turf & native seed areas, brown at wood mulch & rock areas).

5. Life cycle cost-effectively equip irrigation systems to sense soil moisture, rainfall and wind to minimize unnecessary watering; incorporate drip irrigation systems as the primary source.
1. At the main gate, reinforce a sense of arrival through a well-designed concentration of landscape elements consistent in visual quality with Facility Group 1.

2. Ensure landscaping has seasonal features with spring and fall color and a combination of evergreen and deciduous trees and shrubs for winter interest.

3. Typically provide four levels of plants at each gate area:
   • Nearest the street, shall be a low ground cover with perennial flower beds or well-manicured turf grass
   • Behind this, low shrubs should provide a backdrop
   • Ornamental deciduous trees
   • Evergreen backdrop shall make up the vertical element at the rear of the planting, located farthest from the street

4. Xeriscape hydrozones and berming (to elevate and formalize plantings) may be used.

5. Integrate base signs whenever feasible.

**C06.1.7. Streetscape Landscaping**

- Applicable ☐ N/A Large graphics do not apply

- Applicable ☑ N/A Select number of graphics / images (small: 250 px x 188 px) to insert

1. Provide landscape designs with plant materials appropriately representing the level of quality of the adjacent Facility Group number. Refer to the Installation Elements section.

2. Select a variety of regionally appropriate streetscape plantings and grading to create a visual interest.
C06.1.8. Pedestrian Circulation Landscaping

1. Define walkways with landscaping where appropriate.
2. Provide rest areas along the pedestrian circulation network with human-scaled deciduous shade trees. Supplement tree plantings with finely textured shrubs when appropriate for the climate.
3. Provide wind breaks where required.

C06.1.9. Parking Lot Landscaping

1. Avoid trees that drop sap, fruit, or seeds, and use long-lived species; keep trees trimmed, removing dead and dying trees or branches.
2. Provide planting islands within parking lots for shade and appeal following IFS and the base stormwater management plan.
3. Perimeter screen planting shall be encouraged to minimize the visual impact of parking areas.
4. Avoid planting shrubs in islands. Trees are acceptable.
5. Locate lighting poles in center or side islands at least 3 feet from face of curb and their location shall be fully coordinated with landscaping plan.

6. Within large parking areas rows shall be divided by a center island. Islands shall contain trees and be at least 8 feet wide.

7. Provide one tree of a type suitable to parking lots for every ten (10) open vehicular parking stalls in lots with fifteen (15) or more stalls.

8. Rain garden / bioswale islands shall be designed with all new parking lots that allow rainwater runoff from adjacent impervious parking areas to be absorbed into the ground/planting bed. Native plants and groundcovers are recommended within the rain garden areas, which can survive without supplemental irrigation once established.

C06.1.10. Screen/Accent Landscaping

1. Provide complimentary accent landscaping at monuments and static displays.

2. At Facility Group 1, provide landscaping adjacent to all freestanding signs without distracting from the written communication.

3. Provide landscape screening of utility elements adjacent to Facility Group 1.

4. Providing landscaping as visual screening is preferred to the construction of walls and fences; berming and mounding may supplement landscape screening.

C06.1.11. Other
C07. SITE FURNISHINGS
Comply with AF Corporate Standards for Site Development:
http://afcfs.wbdg.org/site-development/index.html
Comply with AF Corporate Standards for Site Furnishings:
http://afcfs.wbdg.org/site-development/site-furnishings/index.html

C07.1. Furnishings and Elements
Applicable  N/A  Large graphics do not apply

Select number of graphics / images (small: 250 px x 188 px) to insert

1. Provide a coordinated consistent inventory of site furnishings to positively contribute to the visual environment, image, and identity of the base; ensure durability, low maintenance, reduced visual clutter, and compatibility with the adjacent architecture.

2. Remove poorly located or redundant litter / ash receptacles, newspaper and bicycle racks, telephone booths, vending machines, walls and fences to reduce visual clutter and to lessen the requirements for maintenance.

3. Site furnishing shall be durable materials and low maintenance. Generally match the site furniture of adjacent facilities and the facility district.

4. Install needed outdoor seating (benches and low walls) in public gathering spaces near main and secondary building entrances. Low walls shall match facility architecture.

5. Benches in Groups 1, 2 and 3 shall be concrete. Provide metal benches in Group 4 and parks.

6. Integrate functional bicycle racks with the design of the building’s main entrance grounds in Facility Groups 1 and 2 while meeting ATFP requirements.

7. Limit the use of bollards, but when necessary for force protection use black cast-iron bollards in Groups 1 and 2; simple, round or square concrete bollards in Group 3; and simple, round or square concrete bollards in Group 4 and parks and trails. Illuminated bollards may be used as approved on a case basis.

8. Locate architecturally coordinated containers for recycling, litter, ash, vending, etc., to minimize visual clutter and not visible from the building’s main entrance. Minimize the use of freestanding planters.

9. Generally limit picnic tables, barbeque grills and drinking fountains to lodging, dormitories, housing areas, parks and recreation areas following IFS.

10. The Installation Flagpole location shall comply with the guidance for the display of flags in AFI 34-1201. Each Air Force installation is authorized to fly one United States Flag, normally in front of the installation headquarters. Waivers for non-
authorized locations must be submitted in accordance with AFI 33-360 and approved waivers (AF Form 679) must be maintained by the installation protocol office.

11. Refer to the Overview Section “Facility Hierarchy” topic of this AFCFS for guidelines regarding ancillary structures such as pavilions and shade shelters.

12. Bus shelters shall be provided only where there is a documented need and when approved on a case basis. Generally emulate the designs of adjacent shelters using Classic black metal piping with Plexiglas.

13. Monuments and static displays shall be limited. New elements are generally discouraged unless these are fully vetted through the base’s approval process and designed following IFS.

14. When visual screening is necessary, consider landscaping as the first option; screen walls are permitted only in Group 1.

15. For fencing, apply the standards for “Products, Materials and Color” in the following section. Limit those with the highest visual quality to Facility Group 1 where there is sustained maintenance. Define all levels of security and visual quality.

16. Do not use chain-link fencing at Group 1, 2 or 4 facilities; Limit the use of barbed-wire outriggers on chain-link fencing at industrial sites, unless required for additional security or protection of assets.

17. Wood fencing may be used in Facility Group 4 and in recreation areas following IFS for material and finish when there is sustained periodic maintenance.

18. Provide trash dumpster enclosures for Group 1 with sand stone to match adjacent facilities and for Groups 2 and 3 with ribbed or split face CMU.

19. Specify screen wall materials and finishes that do not require painting or maintenance beyond periodic cleaning.

20. Group 1, 2, 3 and 4 and recreational areas shall have metal picnic tables and seating. Generally limit picnic tables, barbeque grills and drinking fountains to housing areas, parks and recreation areas.

21. Limit the use of freestanding planters to areas with ongoing maintenance.

22. Provide kiosks only where there is a documented need for visual communication of posted messages. When used, match adjacent facilities in materials and detailing and consolidate kiosks with other site furnishings within 30 feet of major pedestrian paths. Limit kiosks to facility Groups 1 and 2 and parks.

23. Manufacturers listed below are only provided to establish a baseline of equivalency among all applicable manufacturers.

C07.2. Site Furnishings Products, Materials and Color

Note: Apply the below base-wide standards for Site Furnishings (products, materials and color). Then refer to the Appendix and apply any additional requirements specifically related to the Facility District in which the project is located.
C07.2.1. Barbeque Grills

Applicable: ☑
N/A: ☐

Number of base standards: 2

Image Tool: 250 x 188

Charcoal

Type:

Applies to:
☐ Group 1
☒ Group 2
☐ Group 3
☐ Group 4
☐ Other

Mfr: Most Dependable Fountains, Inc.

Color: Natural stainless steel

Finish: Mill

Model #: SS BBQ Grill

Other: Concrete foundation, coordinate with CES Architect

UFGS: N/A

Natural Gas

Type:

Applies to:
☐ Group 1
☒ Group 2
☐ Group 3
☐ Group 4
☐ Other

Mfr: BBQ Coach

Color: Natural stainless steel

Finish: Mill

Model #: 32" 4-Burner

Other: Built-in Concrete or masonry, coordinate with CES Architect

UFGS: N/A
C07.2.2. Benches

Applicable: Yes  N/A: No

Number of base standards: 2

Type: **Pre-cast Concrete**

- **Applies to:**
  - [ ] Group 1
  - [ ] Group 2
  - [ ] Group 3
  - [ ] Group 4
  - [ ] Other

- **Mfr:** Mfr: Materials, Inc.

- **Color:** Weatherstone Gray

- **Finish:** Standard Finish (Smooth)

- **Model #:** Mesa, Rectangular design

- **Other:** N/A

- **UFGS:** N/A

---

Type: **Factory Finished Metal**

- **Applies to:**
  - [ ] Group 1
  - [ ] Group 2
  - [ ] Group 3
  - [ ] Group 4
  - [ ] Other

- **Mfr:** TBD

- **Color:** Black

- **Finish:** Black polyester powder coated metal wire, mounted in ground

- **Model #:** Plexus

- **Other:** Hardware and fasteners must be able to prevent rust.

- **UFGS:** N/A
C07.2.3. Bike Racks

Applicable: Yes  N/A  Number of base standards: 2

Type: **Style 1: Galvanized**

- Applies to: Group 1, Group 2, Group 3, Group 4, Other
- Mfr: Brandi International Inc.
- Color: Galvanized
- Finish: Factory
- Model #: The Ribbon Bike Rack, RB-07
- Other: N/A

UFGS: N/A

Type:

- Applies to: Group 1, Group 2, Group 3, Group 4, Other
- Mfr: TBD
- Color: Black
- Finish: Plastic coating
- Model #: TBD
- Other: Bike racks to be and inverted “U”, 1.5” OD schedule 40 steel tubing. Unit to be installed in ground. (Not surface mounted)

UFGS: N/A

C07.2.4. Bike Lockers

Applicable: No  N/A
### C07.2.5. Bollards

#### Type: Lighted Round Dome Top

**Applies to:**
- Group 1
- Group 2
- Group 3
- Group 4
- Other

**Mfr:** Lithonia Lighting Products

**Color:** Dark Bronze

**Finish:** Anodized aluminum

**Model #:** KBA

**Other:** Flared cone, 3000K LED Lamp

---

**UFGS:** N/A

---

#### Type: Building Protection, Steel Pipe

**Applies to:**
- Group 1
- Group 2
- Group 3
- Group 4
- Other

**Mfr:** Reliance Foundry

**Color:** Brown cover to be painted dark bronze

**Finish:** Factory

**Model #:** 6" Steel pipe, concrete filled, Cover; R-7173

**Other:**

---

**UFGS:** N/A
### Building Protection, Steel Square

**Type:** Building Protection, Steel Square

**Applies to:**
- [ ] Group 1  
- [ ] Group 2  
- [ ] Group 3  
- [ ] Group 4  
- [ ] Other

**Mfr:** (Bollard Cover) Reliance Foundry

**Color:** Brown cover to be painted dark bronze

**Finish:** Factory

**Model #:** Steel Square, concrete filled

**Other:** N/A

**UFGS:** N/A

### C07.2.6. Bus Shelters

<table>
<thead>
<tr>
<th>Applicable</th>
<th>N/A</th>
<th>Number of base standards 2</th>
<th></th>
</tr>
</thead>
</table>

**Type:** Style 1, Gabled Roof

**Applies to:**
- [ ] Group 1  
- [ ] Group 2  
- [ ] Group 3  
- [ ] Group 4  
- [ ] Other

**Mfr:** Local (YBD), Custom

**Color:** Dark Bronze

**Finish:** Powder coated

**Model #:** Gabled roof

**Other:** Provide concrete slab and two (2) pre-manufactured aluminum benches

**UFGS:** N/A
### Style 2, Domed Roof

- **Type:** Style 2, Domed Roof
- **Applies to:** Group 1, Group 2, Group 3, Group 4, Other
- **Mfr:** Local (YBD), Custom
- **Color:** Dark Bronze
- **Finish:** Powder coated
- **Model #:** Domed roof
- **Other:** Provide concrete slab and two (2) pre-manufactured aluminum benches

**UFGS:** N/A

---

### C07.2.7. Drinking Fountains

| Applicable | N/A | Number of base standards | 2 |

- **Type:** Pedestal
- **Applies to:** Group 1, Group 2, Group 3, Group 4, Other
- **Mfr:** Most Dependable Fountains, Inc.
- **Color:** Natural
- **Finish:** Stainless steel
- **Model #:** MDF 440 SMSS
- **Other:** Accessible

**UFGS:** N/A
Type: **Wall Mounted**

Applies to: [ ] Group 1  [ ] Group 2  [ ] Group 3  [ ] Group 4  [ ] Other

Mfr: Most Dependable Fountains, Inc.

Color: Natural

Finish: Stainless steel

Model #: N/A

Other: Accessible

---

**C07.2.8. Dumpster Enclosures / Gates**

[ ] Applicable  [ ] N/A  Number of base standards 2

Type: **Sandstone**

Applies to: [ ] Group 1  [ ] Group 2  [ ] Group 3  [ ] Group 4  [ ] Other

Mfr: Local (TBD)

Color: Colorado buff. Real or cultured

Finish: Rock face, machine smooth honed

Model #: TBD

Other: Match adjacent buildings. Doors to be brown.

---

UFGS: N/A
### Type: Concrete Block

<table>
<thead>
<tr>
<th>Applies to:</th>
<th>Group 1</th>
<th>Group 2</th>
<th>Group 3</th>
<th>Group 4</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mfr:</td>
<td>Local (TBD)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Color:</td>
<td>South Dakota river rock</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Finish:</td>
<td>Fluted, split faced and exposed aggregate</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Model #:</td>
<td>TBD</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Other:</td>
<td>Match adjacent buildings. Doors to be brown.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>UFGS:</td>
<td>N/A</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**C07.2.9. Fencing**

<table>
<thead>
<tr>
<th>Applicable</th>
<th>N/A</th>
<th>Number of base standards 3</th>
<th>Image Tool 250 x 188</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type:</td>
<td>Style A Barrier: High security, low visibility</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Applies to:</td>
<td>Group 1</td>
<td>Group 2</td>
<td>Group 3</td>
</tr>
<tr>
<td>Mfr:</td>
<td>General Wire Co.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Color:</td>
<td>Galvanized</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Finish:</td>
<td>Galvanized</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Model #:</td>
<td>Galvanized Steel</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Other:</td>
<td>3-strand barbed wire</td>
<td></td>
<td></td>
</tr>
<tr>
<td>UFGS:</td>
<td>N/A</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Type: Style B Barrier: Medium security, Medium visibility</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>--------------------------------------------------------</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Applies to:</td>
<td>Group 1</td>
<td>Group 2</td>
<td>Group 3</td>
</tr>
<tr>
<td>Mfr: Local Custom</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Color: Dark bronze, SW 2733; Chaparral, FSC X0045</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Finish: Powder coated</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Model #: Steel posts, rails and pickets (vertical, angular bent inward at top)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Other: Posts, rails and pickets, lengths and gauges as required.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>UFGS: N/A</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Type: Style C Barrier: Privacy Fence</th>
</tr>
</thead>
<tbody>
<tr>
<td>Applies to:</td>
</tr>
<tr>
<td>Mfr: Local Custom</td>
</tr>
<tr>
<td>Color: Natural (Stained)</td>
</tr>
<tr>
<td>Finish: Sanded smooth, treated/stained</td>
</tr>
<tr>
<td>Model #: Wood posts and planks</td>
</tr>
<tr>
<td>Other: N/A</td>
</tr>
<tr>
<td>UFGS: N/A</td>
</tr>
</tbody>
</table>
C07.2.10. Flagpoles

Applicable  □ N/A  Number of base standards 1

Type: 1

Applies to: □ Group 1  □ Group 2  □ Group 3  □ Group 4  □ Other

Mfr: Eder Flag

Color: Natural Aluminum

Finish: Satin Luster

Model #: ECL30 IH, Internal Halyard

Other: 5” Butt Dia. 33’ height (30’ exposed)

UFGS: N/A

---

C07.2.11. Lighting – Landscape / Accent

Please refer to the Lighting section.

C07.2.12. Litter and Ash Receptacles

Applicable  □ N/A  Number of base standards 3

Type: Style 1: Precast Concrete

Applies to: □ Group 1  □ Group 2  □ Group 3  □ Group 4  □ Other

Mfr: Materials, Inc.

Color: Weatherstone Grey

Finish: Smooth

Model #: TR-3225 Sane Fe (round or square)

Other: Rigid plastic internal liner

UFGS: N/A
<table>
<thead>
<tr>
<th>Type: <strong>Style 2: Metal</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Applies to:</td>
</tr>
<tr>
<td>Mfr:</td>
</tr>
<tr>
<td>Color:</td>
</tr>
<tr>
<td>Finish:</td>
</tr>
<tr>
<td>Model #:</td>
</tr>
<tr>
<td>Other:</td>
</tr>
<tr>
<td>UFGS:</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Type: <strong>Style 3: Precast Concrete</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Applies to:</td>
</tr>
<tr>
<td>Mfr:</td>
</tr>
<tr>
<td>Color:</td>
</tr>
<tr>
<td>Finish:</td>
</tr>
<tr>
<td>Model #:</td>
</tr>
<tr>
<td>Other:</td>
</tr>
<tr>
<td>UFGS:</td>
</tr>
</tbody>
</table>
### C07.2.13. Picnic Tables

<table>
<thead>
<tr>
<th>Type: Precast Concrete</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Applies to:</strong> Group 1, Group 2, Group 3, Group 4, Other</td>
</tr>
<tr>
<td><strong>Mfr:</strong> Materials, Inc.</td>
</tr>
<tr>
<td><strong>Color:</strong> Weatherstone Gray</td>
</tr>
<tr>
<td><strong>Finish:</strong> Standard finish (smooth)</td>
</tr>
<tr>
<td><strong>Model #:</strong> TS-3490 New Mexico</td>
</tr>
<tr>
<td><strong>Other:</strong> 303-458-9595</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Type: Metal, vinyl coated</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Applies to:</strong> Group 1, Group 2, Group 3, Group 4, Other</td>
</tr>
<tr>
<td><strong>Mfr:</strong> Wabash Valley</td>
</tr>
<tr>
<td><strong>Color:</strong> Black/Dark Brown</td>
</tr>
<tr>
<td><strong>Finish:</strong> Factory vinyl coated</td>
</tr>
<tr>
<td><strong>Model #:</strong> Signature Series, 46” square pedestal tables with 4 seats</td>
</tr>
<tr>
<td><strong>Other:</strong> Perforated pattern, in ground mount</td>
</tr>
</tbody>
</table>

**UFGS:** N/A
C07.2.14. Planters

Applicable: Yes  N/A
Number of base standards: 1

| Image Tool 250 x 188 |

Type: Precast Concrete

Appplies to:
- Group 1
- Group 2
- Group 3
- Group 4
- Other

Mfr: Materials, Inc.

Color: Weatherstone Gray

Finish: Smooth

Model #: Santa Fe

Other: N/A

UFGS: N/A

C07.2.15. Play Equipment

Applicable: Yes  N/A
Number of base standards: 1

| Image Tool 250 x 188 |

Type: Steel

Appplies to:
- Group 1
- Group 2
- Group 3
- Group 4
- Other

Mfr: Little Tikes Commercial

Color: Varies

Finish: Powder coated steel

Model #: N-R-G Freestyle

Other: Coordinate with CES Architect

UFGS: N/A
C07.2.16. Screen Walls

Type: **Sandstone**

Applies to: 
- Group 1
- Group 2
- Group 3
- Group 4
- Other

Mfr: Local (TBD)

Color: Colorado Buff sandstone. Real or cultured

Finish: Rock face, machine smooth, honed

Model #: TBD

Other: Match adjacent building

UFGS: N/A

Type: **Brick/Steel**

Applies to: 
- Group 1
- Group 2
- Group 3
- Group 4
- Other

Mfr: Local (TBD)

Color: Red brick blend, dark brown fencing

Finish: Powder coated metal

Model #: Brick Piers with steel posts, rails and alternating panels

Other:

UFGS: Section 04 20 00 Unit masonry, Section 05 50 13 Misc. Metal
C07.2.17. Tree Grates

Type: **Cast Iron**

Applies to:
- ☑ Group 1
- ☑ Group 2
- ☑ Group 3
- ☑ Group 4
- ☐ Other

Mfr: Neenah Enterprises, Inc.

Color: Natural cast iron

Finish: Cast

Model #: 2 Piece round or square

Other: N/A

UFGS: N/A

C07.2.18. Other

☐ Applicable  ☐ N/A

N/A

C08. EXTERIOR SIGNS

Comply with AF Corporate Standards for Site Development:
[http://afcfs.wbdg.org/site-development/index.html](http://afcfs.wbdg.org/site-development/index.html)

Comply with AF Corporate Standards for Exterior Signs:
C08.1. Colors and Types

☐ Applicable  ☐ N/A  Large graphics do not apply

☐ Applicable  ☐ N/A  Select number of graphics / images (small: 250 px x 188 px) to insert  6

1. Provide concise functional signs as a visually unifying element with consistent colors and types for all Installation and Gate Identification Signs; Building Identification Signs; Traffic Control Devices; Directional and Wayfinding Signs; and Informational and Motivational Signs.

2. Provide signs with the lowest overall life cycle costs considering initial cost, ongoing maintenance and lifespan while meeting quality standards. Follow IFS for specifications appropriate for the local climate to withstand weathering.

3. Reduce the number of signs, reduce visual clutter and provide only essential signs required for identification, directions, instructions, and customer service following UFC 3-120-01. Remove non-conforming signs during renovation projects.

4. Use clear concise terms for content consistent with UFC 3-120-01.

5. Display of emblems on building exterior walls or other permanent structures is prohibited by UFC.

6. Raised “standout” letters and numbers may be used for Group 1 with approval on a case basis.

7. Group 2 and 3 facilities shall have wall mounted facility signs with sizes and layouts following UFC 3-120-01. Signs are not permitted for Group 4 facilities.

8. One identification sign is permitted at each building entrance. Include a building address consistent with US Postal Service protocols following UFC 3-120-01.
9. Traffic Control Devices, which regulate vehicular traffic on the installation, shall conform to the standards in the Manual of Uniform Traffic Control Devices (MUTCD) published by the Federal Highway Administration. Coordinate street signs with this IFS.

10. Provide Directional and Wayfinding Signs and address both pedestrian and vehicular traffic following UFC 3-120-01 for size, layout and content.

11. Historic interpretive signs should be used to identify and explain items of significant historical significance.

12. Reserved parking signs should be kept to a minimum. When approved, provide post-mounted sign faces in base standard materials and colors. Consider “bracketing” a designated area with a single sign at each end.

13. Parking lot identification signs may be used to identify areas or rows within large lots.

14. Follow the guidelines and requirements in ABAAS and the MUTCD for accessible parking signs.

15. Follow UFC 3-120-01 for Informational and Motivational Signs for size, layout and content.

16. Symbols or pictographs (graphic expressions of actual objects) may be used to indicate service, mandatory/prohibitory, sports, and recreation when rapid communication is necessary.

17. Force Protection signage may be applied to glass doors using white vinyl lettering.

18. Refer to UFC 3-120-01 for prohibited signs, which include those with animated, blinking, chasing, flashing, or moving effects.

19. Manufacturers listed below are only provided to establish a baseline of equivalency among all applicable manufacturers.

C08.1.1. Materials and Color Specifications

☐ Applicable ☑ N/A Large graphics do not apply

☐ Applicable ☑ N/A Small graphics do not apply

1. Fabricate sign panels from aluminum, painted brown. Sign posts shall be 3” square aluminum with capped ends in a concrete base.

2. Fence mounted sign panels may be attached with exposed fasteners.

3. Freestanding signs shall have white letters on brown background. Finish shall be fluoropolymer (e.g. Kynar 500) coating or equal.

4. Directional signs shall be aluminum post and panel design with 3-inch square posts. Finish to match building identification signage.

5. All signage shall follow Federal Highway Administration (FHWA) Manual on Uniform Traffic Control Devices (MUTCD) using standard colors. Refer to MUTCD color specifications, which provide cross-referenced Pantone Matching System (PMS) numbers.

   a. Standard Blue
   b. Standard Dark Bronze (also Federal Standard Color 30040)
   c. Standard Red
   d. Standard Black (non-reflective)
   e. Standard White
   f. Standard Brown
### Typical Sign Face

<table>
<thead>
<tr>
<th>Type:</th>
<th>Typical Sign Face</th>
</tr>
</thead>
<tbody>
<tr>
<td>Applies to:</td>
<td>Group 1 ✔ Group 2 ✔ Group 3 ✔ Group 4 ☐ Other ☐</td>
</tr>
<tr>
<td>Mfr:</td>
<td>Custom</td>
</tr>
<tr>
<td>Color:</td>
<td>Medium bronze</td>
</tr>
<tr>
<td>Finish:</td>
<td>Matte vinyl</td>
</tr>
<tr>
<td>Model #:</td>
<td>Aluminum flat sheet</td>
</tr>
<tr>
<td>Other:</td>
<td>Mount to square posts. Provide sizes following UFC.</td>
</tr>
</tbody>
</table>

UFGS: Section 05 50 13 Miscellaneous Metal Fabrications

---

### Typical Sign Post

<table>
<thead>
<tr>
<th>Type:</th>
<th>Typical Sign Post</th>
</tr>
</thead>
<tbody>
<tr>
<td>Applies to:</td>
<td>Group 1 ✔ Group 2 ✔ Group 3 ✔ Group 4 ☐ Other ☐</td>
</tr>
<tr>
<td>Mfr:</td>
<td>Custom</td>
</tr>
<tr>
<td>Color:</td>
<td>Dark bronze, powder coat finish</td>
</tr>
<tr>
<td>Finish:</td>
<td>Matte</td>
</tr>
<tr>
<td>Model #:</td>
<td>Extruded aluminum with capped top ends</td>
</tr>
<tr>
<td>Other:</td>
<td>Square posts and squared ends. Provide engineered sizes.</td>
</tr>
</tbody>
</table>

UFGS: Section 05 50 13 Miscellaneous Metal Fabrications
Typical Sign Base

- **Type:** Typical Sign Base
- **Applies to:** Group 1, Group 2, Group 3, Group 4, Other
- **Mfr:** Custom
- **Color:** Natural Gray
- **Finish:** Sonotube-formed
- **Model #:** 24” height x 12” diameter, as engineered.
- **Other:** At grade with 3/4” chamfer. Provide engineered sizes.

UFGS: UFGS 03 30 00 Cast-in-place Concrete

---

### C08.1.2. Installation and Gate Identification Signs

- **Applicable:** Yes
- **N/A:** No
- **Number of base standards:** 1

**Recommended Image:** Example of Materials and Color

Size image to: 250 pixels width x 188 pixels height

Click here to insert image

**Type:** Primary, Secondary and Tertiary (Uses per UFC)

- **Applies to:** Group 1, Group 2, Group 3, Group 4, Other
- **Mfr:** Custom
- **Color:** Dark bronze, brushed aluminum, accents per UFC
- **Finish:** Powder coat or vinyl sign face
- **Model #:** Metal frame and panels, buff stone base
- **Other:** White vinyl lettering. Provide dimensions per UFC. Secondary signs shall match primary sign’s materials, but shall be smaller in size per UFC. Tertiary signs shall follow the UFC.

UFGS: Section 05 50 13 Miscellaneous Metal Fabrications
### C08.1.3. Building Identification Signs

**Type:** Freestanding Primary Sign (Sizes and Uses per UFC)

- **Applies to:**
  - Group 1
  - Group 2
  - Group 3
  - Group 4
  - Other

- **Mfr:** Custom
- **Color:** Medium brown face, dark bronze posts, white vinyl lettering
- **Finish:** Powder coat or vinyl sign face
- **Model #:** Aluminum sheet face, extruded aluminum posts
- **Other:** Provide layout and sizes per UFC.

**UFGS:** Section 05 50 13 Miscellaneous Metal Fabrications

### C08.1.4. Traffic Control Devices (Street Signs)

**Type:** Street and Regulatory Signs

- **Applies to:**
  - Group 1
  - Group 2
  - Group 3
  - Group 4
  - Other

- **Mfr:** Custom
- **Color:** White reflective lettering on a Standard Brown background
- **Finish:** Powder coat or vinyl sign face
- **Model #:** Aluminum sign face, control arm or pole mounted
- **Other:** Mount 7’ above grade minimum, pictographs and logos are prohibited on street name signs per UFC.

**UFGS:** Section 05 50 13 Miscellaneous Metal Fabrications
C08.1.5. Directional and Wayfinding Signs

Type: **Vehicular**

Applies to:  
- Group 1  
- Group 2  
- Group 3  
- Group 4  
- Other

Mfr: Custom

Color: Medium brown face, dark bronze posts, white reflective lettering

Finish: Powder coat or vinyl sign face

Model #: Aluminum sheet face, extruded aluminum posts

Other: Conform to the requirements of the MUTCD and its DoD Supplement. Provide types and sizes where required by UFC.

UFGS: Section 05 50 13 Miscellaneous Metal Fabrications

C08.1.6. Informational Signs

1. Minimize informational signs such as static display signs, hours of operation, and project signs to reduce visual clutter.

2. Static display signs shall have standard blue background.

3. Hours of operation signs shall have a level of quality equivalent to the Facility Group number.

4. Temporary / Project Signage shall be judiciously placed to avoid visual clutter. Schedule and arrange for the removal of these signs prior to installation.
C08.1.7. Motivational Signage

☐ Applicable  ☐ N/A  Large graphics do not apply

☐ Applicable  ☐ N/A  Select number of graphics / images (small: 250 px x 188 px) to insert  2

Insert Motivational Signs graphic

Size image to:
250 pixels width x 188 pixels height

Click here to insert image

1. Provide professionally produced motivational signs as important elements of campaigns to boost morale, improve safety, aid in recruiting, and accomplish other motivational objectives. Consolidate this signage to reduce visual clutter.

2. Motivational signs shall be limited to an electronic "marquee" type changeable sign near each gate. Temporary signs are not permitted. Motivational information may also be posted in a small, printed format on kiosks in specified, high pedestrian use areas. Refer to kiosks under Site Furnishings.

3. Follow UFC 3-120-01 for color and layout. Note that animated, blinking, chasing, flashing, or moving effects are prohibited by the UFC.

4. Mount marquee signs on reinforced concrete bases with a natural warm gray color.

5. Designated Tobacco Areas sites, signage, and receptacles shall be approved by the 50 SW/CC in compliance with AFI40-102, Tobacco Free Living.
C08.1.8. Parking Lot Signs

Type:  **Reserved Parking Signs**

Applies to:  
- [ ] Group 1  
- [ ] Group 2  
- [x] Group 3  
- [ ] Group 4  
- [ ] Other

Mfr:  Custom

Color:  Medium brown face, dark bronze posts, white reflective lettering

Finish:  Powder coat or vinyl sign face

Model #:  Aluminum sheet face, extruded aluminum posts

Other:  White vinyl lettering. Provide types and sizes where required by UFC.

UFGS:  Section 05 50 13 Miscellaneous Metal Fabrications

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C08.1.9. Regulatory Signs

1. Regulatory signage, which restricts, warns and advises, shall be limited to those mandated under Highway/Traffic, Government Warning, and/or Parking Regulation. Follow UFC 3-120-01 and its industry references for color and layout.

2. Provide a comprehensive, systematic approach to regulatory signage to avoid clutter and confusion from “over signage.”

3. Maintain base warning signs for safety and security at the base perimeter and at specific secure areas. Use these to notify visitors of restrictions governing conduct on the base, as well as other security procedures.
### Facility Number

<table>
<thead>
<tr>
<th>Type</th>
<th>Facility Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Applies to</td>
<td>Group 1 ✔️ Group 2 ✔️ Group 3 ❌ Group 4 ❌ Other ❌</td>
</tr>
<tr>
<td>Mfr.</td>
<td>TBD</td>
</tr>
<tr>
<td>Color</td>
<td>Brushed Aluminum or Medium brown face</td>
</tr>
<tr>
<td>Finish</td>
<td>Satin-finish brushed aluminum or Powder coat or vinyl sign face</td>
</tr>
<tr>
<td>Model #:</td>
<td>varies</td>
</tr>
<tr>
<td>Other</td>
<td>Facility number sign is required on all facilities. Mount 2 sets near the building corners, 5 feet off the ground. Numbers should normally be on the right corner of the front facade.</td>
</tr>
</tbody>
</table>

**UFGS:** Section 05 50 13 Miscellaneous Metal Fabrications

### Building Name

<table>
<thead>
<tr>
<th>Type</th>
<th>Building Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Applies to</td>
<td>✔️ Group 1 ✔️ Group 2 ✔️ Group 3 ❌ Group 4 ❌ Other ❌</td>
</tr>
<tr>
<td>Mfr.</td>
<td>TBD</td>
</tr>
<tr>
<td>Color</td>
<td>Brushed Aluminum</td>
</tr>
<tr>
<td>Finish</td>
<td>Satin-finish brushed aluminum</td>
</tr>
<tr>
<td>Model #:</td>
<td>8 inches high</td>
</tr>
<tr>
<td>Other</td>
<td>N/A</td>
</tr>
</tbody>
</table>

**UFGS:** Section 05 50 13 Miscellaneous Metal Fabrications
C09. LIGHTING

Comply with AF Corporate Standards for Site Development:
http://afcfs.wbdg.org/site-development/index.html

Comply with AF Corporate Standards for Lighting:
http://afcfs.wbdg.org/site-development/lighting/index.html

C09.1. Fixtures and Lamping

Applicable  N/A  Large graphics do not apply

Applicable  N/A  Select number of graphics / images (small: 250 px x 188 px) to insert  3

1. Provide, coordinate and efficiently install street, parking lot, sidewalk and facility lighting with appropriate luminaires, lamping, placement and spacing following UFC 3-530-01 and Installation Facilities Standards (IFS); ensure the level of quality is consistent with the adjacent facility group number. Pole-mounted, wall-mounted and bollard fixtures are permitted.

2. Integrate controls to automatically reduce lighting power during periods of non-activity; automatically turn off power when sufficient daylight is available.

3. Ensure continuity and consistency of lighting elements. In new construction generally match post types, fixture types, styles, heights, sizes, materials, colors, and lamp types of adjacent facilities and the facility district.

4. Economically provide renewable-energy power sources such as solar photovoltaic when feasible.

5. Use appropriately designed or shielded luminaires to direct light downward to minimize light pollution and intrusion onto adjacent sites and to facilitate night training.

6. Calculate illuminant levels for all lighting applications following UFC 3-530-01 and ensure compliance with pre-curfew maximum brightness level requirements.

7. Sufficiently address environmental factors to prevent corrosion and weathering of fixtures, plinths and other components.

8. Wall mounted fixtures should respond to the architectural character of the facility.

9. Efficient accent lighting of architectural and landscape features may be provided for Group 1, lodging and historical applications. Accent lights in ground-mounted locations may be provided for static displays and signs when these do not conflict or cause hazards with overhead aircraft.
10. Comply with UFC 3-530-01 for light source technology and lamp types. High efficiency lamping such as LED is preferred for most applications.

11. Provide round tapered, square non-tapered, or round non-tapered aluminum poles and aluminum fixtures with square, rectangular or circular housings in colors and shapes to match adjacent facilities and the facility district.

12. Install lighted bollards only at Group 1 and high-traffic Group 2 facilities. Generally match materials, colors and shapes of adjacent facilities and the facility district.

13. Install natural warm gray color, smooth finished concrete bases for all poles in heights appropriate for the facility group and application. Generally Groups 1, 2 and 4 shall have at-grade bases. Group 3 shall have taller bases for added durability.

14. When parking lot lighting is necessary, provide an illuminated path to the building’s main entrance. Pole bases should be contained within an internal landscape median or island.

15. Consistently install lighting for sidewalks, bikeways and trails to match adjacent facilities.

16. Landscape accent lighting may be used in public gathering spaces and in Group 1 facilities. Coordinate the design, luminaire selection, and placement with the location of trees, shrubs, and site furnishings.

17. Manufacturers listed below are only provided to establish a baseline of equivalency among all applicable manufacturers.

### C09.2. Light Fixture Types

**Note:** Apply the below base-wide standards for Light Fixtures (products, materials and color). Then refer to the Appendix and apply any additional requirements specifically related to the Facility District in which the project is located.

#### C09.2.1. Street Lighting

<table>
<thead>
<tr>
<th>Applicable</th>
<th>N/A</th>
</tr>
</thead>
</table>

**Number of base standards 1**

- **Type:** **Style 1**
- **Applies to:**
  - Group 1
  - Group 2
  - Group 3
  - Group 4
  - Other
- **Mfr:** Hubbell, Kim Lighting
- **Color:** Clear Anodized as approved by BCE
- **Finish:** Factory
- **Model #:** Round Cutoff, Single Arm or Dual Arm Mount
- **Other:** Lamp: LED. Follow manufacturer’s recommendations for fixture base.

**UFGS:** N/A
C09.2.2. Parking Lot Lighting

- **Type:** Style 2
- **Applies to:** Group 1, Group 2, Group 3, Group 4, Other
- **Mfr.:** Hubbell, Kim Lighting
- **Color:** Dark Bronze Anodized (or Clear Anodized as approved by BCE)
- **Finish:** Factory
- **Model #:** Rectilinear Cutoff, Single Arm or Dual Arm Mount
- **Other:** Lamp: LED. Follow manufacturer’s recommendations for fixture base.

C09.2.3. Lighted Bollards

- **Type:** Lighted Round Dome Top
- **Applies to:** Group 1, Group 2, Group 3, Group 4, Other
- **Mfr.:** Lithonia Lighting Products
- **Color:** Dark Bronze
- **Finish:** Anodized aluminum
- **Model #:** KBA
- **Other:** Flared cone, 3000K LED Lamp. Follow manufacturer’s recommendations for fixture base.
C09.2.4. Sidewalk Lighting

- **Type:** Rectilinear Cutoff
- **Applies to:**
  - Group 1
  - Group 2
  - Group 3
  - Group 4
  - Other
- **Mfr:** Hubbell, Kim Lighting
- **Color:** Dark Bronze Anodized (or Clear Anodized as approved by BCE)
- **Finish:** Anodized aluminum
- **Model #:** Rectilinear Cutoff, Single Arm or Dual Arm Mount, or Bollard
- **Other:** Lamp: LED. Follow manufacturer’s recommendations for fixture base.
- **UFGS:** N/A

C09.2.5. Walls / Stairs Lighting

- **Type:** Style 1
- **Applies to:**
  - Group 1
  - Group 2
  - Group 3
  - Group 4
  - Other
- **Mfr:** Vista Lighting
- **Color:** Dark bronze anodized
- **Finish:** Smooth
- **Model #:** Aluminum Step and Brick Lights, 5230 round louvered
- **Other:** Lamp: LED
- **UFGS:** N/A

C09.2.6. Other

- **Aplicable**
D. FACILITIES EXTERIORS

Comply with Air Force Corporate Standards for Facilities Exteriors:
http://afcfs.wbdg.org/facilities-exteriors/index.html

- **Applicable**  N/A  Select number of graphics / images (large: 800 px x 440 px) to insert  **1**

- **Applicable**  N/A  Select number of graphics / images (small: 250 px x 188 px) to insert  **3**

**North Entry Control Facility**

**50th Space Wing Headquarters**

**310th Space Wing Headquarters**

**Medical Clinic**

D01. SUPPORTING THE MISSION

Comply with AF Corporate Standards for Supporting the Mission:

D02. SUSTAINABILITY

Comply with Air Force Corporate Standards for Sustainability:
D03. ARCHITECTURAL FEATURES

Comply with AF Corporate Standards for Facilities Exteriors:
http://afcfs.wbdg.org/facilities-exteriors/index.html

Comply with AF Corporate Standards for Architectural Features:
http://afcfs.wbdg.org/facilities-exteriors/architectural-features/index.html

*Insert 3 photos for each facility group.*

[Image Tool 250 x 188]

Group 1

Group 2

Group 3

Group 4
D03.1. Orientation, Massing and Scale

1. Orient new buildings to maximize energy efficiency, passive solar and daylighting potential of the building; narrow buildings oriented along an east-west axis are preferred to minimize heat gain in the summer months and maximize heat gain in the winter months resulting in less overall energy usage. Refer to Appendix G - Supplemental Information (link to be inserted).

2. Provide orthogonal geometry for principal building form; angular geometry may be used sparingly for Group 1 and used only for emphasis at specific areas such as building entrances and stairwells.

3. Maintain a human scale and reduce the visual scale of large buildings with sub-massing related to interior functional operations; create consistent form and scale in adjacent buildings with compatible profiles or silhouettes.

4. Building heights shall not be limited; however, building heights over 2 stories shall be considered on a case basis.

5. Combine functions where practical to avoid a proliferation of small, independent structures.

6. Use and coordinate shading devices with orientation and for function.

D03.2. Architectural Character

1. Develop architectural features, materials and detailing appropriate for the Facility Group designation. Refer to Building Entrances, Wall Systems and Roof Systems. Refer to Appendix G - Supplemental Information (link to be inserted).

2. Respond to the local climate and regional influences with environmentally functional architectural features.

3. For new facilities design generally maintain consistency and visual unity in the character of the adjacent buildings through compatible architectural features: repeated use of similar forms such as roofs, and through recurring elements such as doors, windows, materials and colors.

4. Reinforce the regional vernacular theme with subtle references to the base’s historical architecture. Develop facades with proportions and organizational layouts that are compatible with the historic architecture without direct stylistic imitation.

5. All facilities shall express sustainability through their orientation, massing, shape, form, materials, and detailing. Provide roof overhangs, louvers, fins and other shading devices to control heat gain and glare and to and improve energy efficiency.

6. Strive for economical construction without compromising a high-quality, professional appearance.

D03.3. Details and Color

1. Provide elements of the aerospace-related theme in Group 1 and 2 to include natural colors of stainless steel and aluminum blended with earth tone colors of sand stone and concrete. Refer to wall systems for detailed material specifications and to Appendix G (link to be inserted) for Supplemental Information.

2. Relate the level of architectural detailing to the Facility Group.

3. Use only integrally colored materials as the predominant exterior building material; do not use materials that require field painting and ongoing maintenance.

4. Provide consistent and compatible colors for every exterior building feature, including walls, roofs, doors, windows, gutters, downspouts, utility and mechanical elements, and other visible elements.

5. Noncorrosive metals with mill finishes are preferred; factory applied long lasting colored finishes may be used on metals following specified colors under wall systems.

6. Combine details and color with orientation, massing, scale and architectural character to maintain base compatibility.

D03.3.1. Climate-based Data and Life-Cycle Cost-Effective Passive and Natural Design Strategies:
- Climate dominated by mechanical cooling
- Climate dominated by mechanical heating
- Climate with similar mechanical cooling / heating needs
- Climate with minimal mechanical cooling / heating needs
- Climate with high humidity
- Climate with moderate humidity
- Climate with low humidity
- High Solar Insolation
- Moderate Solar Insolation
- Low Solar Insolation
- Soils with High Thermal Conductivity
- Soils with Average Thermal Conductivity
- Soils with Low Thermal Conductivity

Other: North-facing exposures are preferred for main entrances
Other: Integral shading features and devices

Facility: Narrow buildings along E-W axis
Wall: Integral shading features and devices
Doors: Recessed
Windows: Limit non-shaded windows / maximize windows on south façades with shading
Roof: High to medium albedo, minimal to moderate slope
Structure: (exposed) Non-ferrous metals or concrete
MEP: Ground-source and solar photovoltaic following LCCA
Other: Internal thermal mass walls may be used following LCCA
Other:

Note: Apply the below base-wide standards for Architectural Features (products, materials and color). Then refer to the Appendix and apply any additional requirements specifically related to the Facility District in which the project is located.
D03.3.2. Natural Ventilation System

Applicable: Yes  N/A
Number of base standards: 3

**Style 1 Aluminum Windows**

<table>
<thead>
<tr>
<th>Applies to:</th>
<th>Group 1</th>
<th>Group 2</th>
<th>Group 3</th>
<th>Group 4</th>
<th>Other</th>
</tr>
</thead>
</table>

- **Mfr:** Kawneer (or equivalent)
- **Color:** Medium Bronze
- **Finish:** Anodized
- **Model #:** 2x4, Awning type
- **Other:** Provide thermally broken frames

**UFGS:** Section 08 41 13 Aluminum-Framed Entrances and Storefronts

**Style 2 Steel Windows**

<table>
<thead>
<tr>
<th>Applies to:</th>
<th>Group 1</th>
<th>Group 2</th>
<th>Group 3</th>
<th>Group 4</th>
<th>Other</th>
</tr>
</thead>
</table>

- **Mfr:** Steelcraft (or equivalent)
- **Color:** Medium Bronze
- **Finish:** Powder coated
- **Model #:** 2x4 frame, Awning type
- **Other:** Provide thermally broken frames

**UFGS:** Section 08 11 13 Steel Doors and Frames
Type: **Style 3 Aluminum-clad Wood Windows**

Applies to:  

Mfr: Marvin (or equivalent)

Color: Earth Tones

Finish: Factory

Model #: 4" Depth, Double-hung type

Other: N/A

UFGS: Section 08 14 00 Wood Doors

---

**D03.3.3. Thermal Mass**

- Applicable: Yes
- N/A: No
- Number of base standards: 2

Type: **Style 1 Interior Wall Material - Brick**

Applies to:  

Mfr: TBD

Color: Beige

Finish: Light texture

Model #: Modular Face Brick

Other: N/A

UFGS: Section 04 20 00 Unit Masonry
### Style 1 Interior Wall Material - Sandstone

- **Type:** Style 1 Interior Wall Material - Sandstone
- **Applies to:**
  - Group 1
  - Group 2
  - Group 3
  - Group 4
  - Other
- **Mfr:** TBD
- **Color:** Colorado Buff
- **Finish:** Light texture
- **Model #:** Coursed sandstone
- **Other:**
- **UFGS:** Section 04 20 00 Unit Masonry

#### D03.3.4. Thermal Shading

- **Type:** Style 1 Wall Devices
- **Applies to:**
  - Group 1
  - Group 2
  - Group 3
  - Group 4
  - Other
- **Mfr:** Kawneer (or equivalent)
- **Color:** Dark Bronze
- **Finish:** Factory, to match frames
- **Model #:** Louver
- **Other:**
  - Shading devices may be attached to frames
  - Shading devices may be attached to structure
- **UFGS:** Section 08 41 13 Aluminum-Framed Entrances and Storefronts
### D03.3.5. Renewable Heating/Cooling

<table>
<thead>
<tr>
<th>Type:</th>
<th><strong>Style 1 Geothermal (Ground Source)</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Applies to:</td>
<td>● Group 1  ● Group 2  ● Group 3  ● Group 4  ● Other</td>
</tr>
<tr>
<td>Mfr:</td>
<td>Climate Master</td>
</tr>
<tr>
<td>Color:</td>
<td>N/A</td>
</tr>
<tr>
<td>Finish:</td>
<td>N/A</td>
</tr>
<tr>
<td>Model #:</td>
<td>Ground Source Heat Pump</td>
</tr>
<tr>
<td>Other:</td>
<td>Vertical ground loop well field</td>
</tr>
</tbody>
</table>

UFGS: Section 23 81 47 Water-Loop and Ground-Loop Heat Pump Systems

### D03.3.6. Solar Photovoltaic System

<table>
<thead>
<tr>
<th>Type:</th>
<th><strong>Style 1</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Applies to:</td>
<td>● Group 1  ● Group 2  ● Group 3  ● Group 4  ● Other</td>
</tr>
<tr>
<td>Mfr:</td>
<td>Varies</td>
</tr>
<tr>
<td>Color:</td>
<td>Factory</td>
</tr>
<tr>
<td>Finish:</td>
<td>Factory</td>
</tr>
<tr>
<td>Model #:</td>
<td>Flat panel</td>
</tr>
<tr>
<td>Other:</td>
<td>Ground mount or roof mount</td>
</tr>
</tbody>
</table>

UFGS: Section 26 31 00 Solar Photovoltaic (PV) Components
<table>
<thead>
<tr>
<th>Type:</th>
<th><strong>Style 1</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Applies to:</td>
<td>☐ Group 1 ☐ Group 2 ☐ Group 3 ☐ Group 4 ☐ Other</td>
</tr>
<tr>
<td>Mfr:</td>
<td>Varies</td>
</tr>
<tr>
<td>Color:</td>
<td>Factory</td>
</tr>
<tr>
<td>Finish:</td>
<td>Factory</td>
</tr>
<tr>
<td>Model #:</td>
<td>Flat panel</td>
</tr>
<tr>
<td>Other:</td>
<td>Ground mount or roof mount</td>
</tr>
</tbody>
</table>

**UFGS:** Section 48 14 13.00 20 Solar Liquid Flat Plate and Evac. Tube Collectors
D04. BUILDING ENTRANCES

Comply with AF Corporate Standards for Facilities Exteriors:
http://afcfs.wbdg.org/facilities-exteriors/index.html

Comply with AF Corporate Standards for Building Entrances:

Insert 3 photos for each facility group.

Image Tool 250 x 188

Group 1

Group 2

Group 3

Group 4
D04.1. Primary Entrances

1. Emphasize the primary entrance in the overall building design with a projecting or recessed covering for weather protection following Installation facilities standards. Refer to Appendix G - Supplemental Information (link to be inserted).

2. Group 1 and Group 2 entrances shall be identified by the use of wall plane changes, vertical elements or similar manipulation of entrance design element and/or changes in materials.

3. Group 1 and Group 2 entrances may have adjacent pedestrian gathering spaces to enhance the sense of entrance to facilities.

4. Provide vestibules at entries in Groups 1, 2 and 3 unless used infrequently or serving unconditioned space following ASHRAE 90.1. Walk-off mats, or special walk-off carpet, should be installed.

5. Fully integrate all elements including the design of handicap ramps in the overall design of the primary entrance in an organized uncluttered appearance.

6. Install paved transitional spaces sized for the building function and occupancy.

7. Install appropriate lighting and site furniture following ATFP and IFS.

8. Protect entrances from driving rain and wind and from falling ice and snow.

D04.2. Secondary Entrances

1. Provide vestibules at entries in Groups 1, 2 and 3 unless used infrequently or serving unconditioned space following ASHRAE 90.1; use of stair towers as vestibules for multi-story buildings is encouraged when building and/or energy codes are satisfied.

2. Reflect the character of the primary entrance to a lesser extent with a smaller scale that is visible to the pedestrian.

3. Include a recess or projection for weather protection and shading. Protect entrances from driving rain, wind, snow and ice.

4. Integrate service and egress doors and loading areas with the building design by matching the materials and detailing and reflect the overall quality of the facility.

5. Incorporate egress structures such as stair towers into the facility design.

6. Canopies may be used for service and loading areas; weather protection beyond weather stripping is not required at doors used only for life safety egress.

7. Develop building massing and orientation to minimize the appearance service and loading areas; physically and visually separate these from primary entrances.

8. Loading areas must be organized, orderly and have an uncluttered appearance.
D05. WALL SYSTEMS

Comply with AF Corporate Standards for Facilities Exteriors:
http://afcfs.wbdg.org/facilities-exteriors/index.html

Comply with AF Corporate Standards for Doors and Windows:

Comply with AFCFS Recommended Materials:

Insert 3 photos for each facility group.

Image Tool 250 x 188

Group 1

Group 2

Group 3

Group 4
D05.1. Hierarchy of Materials

1. Group 1 facilities may have more refined detailing than Group 2 and Group 2 may have more definition than Group 3. Refer to Appendix G - Supplemental Information (link to be inserted).

2. Group 1 and 2 facilities shall be a combination of sandstone and prefinished metal panels with alternate courses as accents; sandstone and architectural precast concrete may also be used. Corrugated metal siding is acceptable for Group 3. Refer to the Appendix for special requirements of Facility Districts.

3. Group 4 accompanied housing shall be fiber cement siding. Group 4 unaccompanied housing shall be fiber cement siding, split faced CMU block and architectural precast concrete.

4. Multi-story Group 1 facilities may include a transition in material, color or detailing to create a visual base.

5. Use high-performance building envelopes following UFC 1-200-02, High Performance and Sustainable Building Requirements.

6. Use detailing not subject to excessive weathering. Provide wall accents consistently throughout the base.

7. Use integrally colored materials and factory-finished metals. In compliance with AFCFS, do not paint concrete block; this includes smooth face, ground face, polished face or split face CMU.

8. Translucent wall panels may be used in Facility Group 1 and recreational uses in Group 2 when protected from direct solar gain. Provide insulating panels and shading appropriate for the orientation and exposure.

D05.2. Layout, Organization and Durability

1. Organize wall components including doors, windows, accents, shading devices, control joints, etc., to provide an ordered, professional appearance.

2. Integrate shading devices into the overall composition of the wall.

3. Integrate fixed shading devices as at all exterior glazing exposed to summer UV heat gain as a passive design measure to reduce energy use. Ensure adequate shading at west entrances. Deciduous trees may be used for shading.

4. Shading systems may be included as part of a manufacturer’s window system or may be custom systems integrated into the wall.

5. Provide appropriate transitions between dissimilar materials to mitigate effects of thermal expansion and galvanic action.

6. All joint sealants shall be slightly darker than adjacent surfaces.

7. Materials requiring regular maintenance are not permitted; do not use exposed structural steel or other materials that require painting.

8. Protect lower portions of walls subject to abuse with a wainscot of masonry or other durable surface.

9. Refer to C07.2.16. Screen Walls for materials and colors of freestanding walls.

D05.3. Equipment, Vents and Devices

1. Arrange all mechanical, electrical, fire alarm, lightning protection and other system components to create an orderly appearance that integrates with the wall system.

2. Do not expose conduits, cables, piping, lightning protection components, etc. on exterior walls; if unavoidable in renovations, finish these elements to match the adjacent wall surface.

3. Avoid visual clutter and where surface-mounted elements are required they shall match the wall color.
D05.4 Wall Systems Materials

Facility Group 1 wall materials shall be as follows.

- **Primary:** Metal Panels
- **Secondary:** Sandstone
- **Accent:** Alternate coursing and relief

Facility Group 2 wall materials shall be as follows.

- **Primary:** Metal Panels and Architectural Precast
- **Secondary:** Architectural Precast, Sandstone or CMU
- **Accent:** Optional: Alternate coursing and relief

Facility Group 3 wall materials shall be as follows.

- **Primary:** Ribbed Metal Sheeting
- **Secondary:** Fluted, split-faced, and exposed aggregate CMU
- **Accent:** N/A

Facility Group 4 wall materials shall be as follows.

- **Primary:** Fiber Cement Siding
- **Secondary:** Fiber Cement Siding, Trim Boards
- **Accent:** Concrete Foundation Cladding

**Note:** Apply the below base-wide standards for Wall Systems (products, materials and color). Then refer to the Appendix and apply any additional requirements specifically related to the Facility District in which the project is located.

D05.4.1. Flat Metal Panels

- **Applicable**
- **N/A**

Number of base standards 2

![Image Tool 250 x 188](image)

**Type:** Flat Seam Panel – Anodized Finish

- **Applies to:**
  - Group 1
  - Group 2
  - Group 3
  - Group 4
  - Other

- **Mfr:** Alucobond

- **Model #:** Alucobond Classic Rainscreen I

- **Color:** Copper Metallic 1-30-XL

- **Finish:** Anodized

- **Other:** Route and Return Dry Seal

**UFGS:**

- Section 07 42 13 Metal Wall Panels:
- Section 07 42 63 Fabricated Wall Panel Assemblies:
**Type:** Flat Seam Panel - Kynar Finish

**Applies to:**
- Group 1
- Group 2
- Group 3
- Group 4
- Other

**Mfr:** TBD

**Model #:** Insulated Metal Wall System

**Color:** Beige

**Finish:** Embossed Texture, factory finished

**Other:** N/A

**UFGS:**
- Section 07 42 63 Fabricated Wall Panel Assemblies: [http://www.wbdg.org/FFC/DOD/UFGS/UFGS 07 42 63.pdf](http://www.wbdg.org/FFC/DOD/UFGS/UFGS 07 42 63.pdf)

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**D05.4.2. Brick Veneer**

- Applicable: Yes
- N/A: No

**D05.4.3. Architectural Precast**

- Applicable: Yes
- N/A: No

**Type:** Architectural Precast Panel System

**Applies to:**
- Group 1
- Group 2
- Group 3
- Group 4
- Other

**Mfr:** Local TBD

**Model #:** Flat architectural precast wall panels

**Color:** Light beige

**Finish:** Very light texture to medium texture

**Other:** N/A

**UFGS:**
- Section 03 45 00 Precast Architectural Concrete: [http://www.wbdg.org/FFC/DOD/UFGS/UFGS 03 45 00.pdf](http://www.wbdg.org/FFC/DOD/UFGS/UFGS 03 45 00.pdf)

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**D05.4.4. Stucco Over Sheathing**

- Applicable: No
- N/A: Yes
D05.4.5. Curtain Wall

Type: Curtain Wall 1 - Matching Spandrel Glass Panels
- Applies to: Group 1, Group 2, Group 3, Group 4, Other
- Mfr: Kawneer
- Model #: Traditional
- Color: TBD
- Finish: Anodized
- Other: Low-rise application, standard 5 ¾” and 7 1/4” depths
- UFGS: Section 08 44 00 Curtain Wall and Glazed Assemblies: http://www.wbdg.org/FFC/DOD/UFGS/UFGS 08 44 00.pdf

Type: Curtain Wall 2 - Contrasting Spandrel Glass Panels
- Applies to: Group 1, Group 2, Group 3, Group 4, Other
- Mfr: Kawneer
- Model #: Traditional
- Color: TBD
- Finish: Anodized
- Other: Low-rise application, standard 5 ¾” and 7 1/4” depths
- UFGS: Section 08 44 00 Curtain Wall and Glazed Assemblies: http://www.wbdg.org/FFC/DOD/UFGS/UFGS 08 44 00.pdf

D05.4.6. Cast-In-Place Concrete
- Applicable: No
- N/A: Yes

D05.4.7. Tilt-Up Concrete
- Applicable: No
- N/A: Yes
D05.4.8. Ribbed Metal Sheeting

- **Applicable**: Yes
- **N/A**: No
- **Number of base standards**: 1

**Image Tool 250 x 188**

- **Type**: Flush Seam
- **Applies to**:
  - Group 1
  - Group 2
  - Group 3
  - Group 4
  - Other
- **Mfr**: Berridge
- **Model #**: Flush Seam Panel
- **Color**: Beige
- **Finish**: Embossed Texture, factory finished
- **Other**: 24 Gauge Steel

**UFGS**: Section 07 42 13 Metal Wall Panels:


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D05.4.9. EIFS

- **Applicable**: Yes
- **N/A**: No

---

D05.4.10. GFRC

- **Applicable**: Yes
- **N/A**: No

---

D05.4.11. Concrete Block

- **Applicable**: Yes
- **N/A**: No
- **Number of base standards**: 2

**Image Tool 250 x 188**

- **Type**: Concrete Masonry Unit (CMU)
- **Applies to**:
  - Group 1
  - Group 2
  - Group 3
  - Group 4
  - Other
- **Mfr**: TBD
- **Model #**: 8x8x16 Nominal, face and corner units
- **Color**: Light Tan
- **Finish**: Fluted, split-faced, or exposed aggregate
- **Other**: N/A

**UFGS**: Section 04 20 00 Unit Masonry:

[http://www.wbdg.org/FFC/DOD/UFGS/UFGS 04 20 00.pdf](http://www.wbdg.org/FFC/DOD/UFGS/UFGS 04 20 00.pdf)
### Concrete Masonry Unit (CMU) Ribbed (Fluted) Face

**Type:** Concrete Masonry Unit (CMU) Ribbed (Fluted) Face  

**Applies to:** Group 1, Group 2, Group 3, Group 4, Other  

**Mfr:** TBD  

**Model #:** 8x8x16 Nominal, face and corner units  

**Color:** Light Tan  

**Finish:** Ground with exposed aggregate  

**Other:** N/A  

**UFGS:** Section 04 20 00 Unit Masonry:  
http://www.wbdg.org/FFC/DOD/UFGS/UFGS 04 20 00.pdf

### D05.4.12. Fiber Cement Siding

**Type:** Fiber Cement Siding  

**Applies to:** Group 1, Group 2, Group 3, Group 4, Other  

**Mfr:** James Hardie Building Products, Inc.  

**Model #:** Hardie Plank, Hardie Shingle  

**Color:** Earth Tones  

**Finish:** Horizontal Lap Siding, Shingle Siding  

**Other:** N/A  

**UFGS:** SECTION 074646 Fiber Cement Siding:  
(Not Available on UFGS)
<table>
<thead>
<tr>
<th><strong>Type:</strong></th>
<th><strong>Sandstone</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Applies to:</strong></td>
<td>[ ] Group 1 [ ] Group 2 [ ] Group 3 [ ] Group 4 [ ] Other</td>
</tr>
<tr>
<td><strong>Mfr:</strong></td>
<td>Local TBD</td>
</tr>
<tr>
<td><strong>Model #:</strong></td>
<td>Coursed Veneer</td>
</tr>
<tr>
<td><strong>Color:</strong></td>
<td>Colorado Buff</td>
</tr>
<tr>
<td><strong>Finish:</strong></td>
<td>Rock face, machine smooth or honed</td>
</tr>
<tr>
<td><strong>Other:</strong></td>
<td>N/A</td>
</tr>
<tr>
<td><strong>UFGS:</strong></td>
<td></td>
</tr>
</tbody>
</table>
D06. DOORS AND WINDOWS

Comply with AF Corporate Standards for Facilities Exteriors:
http://afcfs.wbdg.org/facilities-exteriors/index.html

Comply with AF Corporate Standards for Doors and Windows:

Comply with AFCFS Recommended Materials:

Insert 3 photos for each facility group.
D06.1. Types

1. Dark bronze anodized aluminum doors, windows and frames with thermal breaks are preferred for Facility Groups 1, 2 and 3; match the color of the door and frame. For renovation projects the color of new windows, doors and frames may match the existing ones.

2. Aluminum clad wood windows are preferred for Facility Group 4.

3. Standard-sized hinged doors are preferred. Use sliding, folding, overhead, sectional and other door configurations only to support mission operations.

4. Automatic doors are allowed only where functionally necessary.

5. Limit hollow metal doors and frames to security doors, utility rooms and mechanical rooms in Groups 1 and 2 and Group 3 facilities.

6. Utility and emergency egress doors shall match the wall color.

7. Passive thermal comfort methods of ventilation are encouraged where life cycle cost justified.

8. Windows must meet force protection requirements.

9. Adjacent joint sealants should be slightly darker than the frame color.

Manufacturers listed below are only provided to establish a baseline of equivalency among all applicable manufacturers.

D06.2. Layout and Geometry

1. Visually and functionally compose openings in walls for the climate-specific exposure.

2. Consistently use opening type, size, placement, mullion pattern, and color to reinforce the overall architectural design.

3. Openings shall augment interior lighting and space conditioning needs.

4. Protect against vandalism, intrusion and coordinate sound ratings.

D06.3. Glazing and Shading

1. Factory tinted, energy-efficient, low-e, double-pane glazing is encouraged.

2. Glazing color shall follow Installation Facilities Standards (IFS).

3. Translucent wall panels may be integrated into wall systems.

4. Do not use mirrored glazing.

5. Fully integrate applicable shading designs for overhangs, louvers, light shelves and grilles.

6. Install window screens on operable windows.

D06.4. Hardware

1. Provide hardware appropriate for the Facility Group while considering activity and frequency of use and local climate; hardware may be of higher visual quality for Facility Group 1.

2. Ensure hardware will perform throughout the facility's lifespan without showing extreme wear.

3. Select finishes that will not degrade by intensity of operation or exposure to the elements.

4. Use consistent finishes and color on window and door systems throughout a facility. For renovation projects the color of new hardware may match the existing hardware.
5. Design building systems to eliminate the need for security screens whenever possible.

6. Keying: Locks and special key hardware shall be keyed to the Schriever Air Force Base master key system.
   a. The contractor shall provide construction cores at interior locations in all lock-sets to ensure proper operation of lock. Contractor shall provide BEST Access Systems, 7076 S. Alton Way, Bldg. D, Englewood CO 80112, 303-770-5151, copies of Door and Lock schedules and pay for one core and two keys for each cylinder. Prior to the scheduled facility turnover, a site visit with BEST Access, and 50 CES Locksmith and Facility user will be arranged to determine master keying requirements.

7. Locks and latch sets: All exterior and interior door locks and latch sets shall be series 1000 mortised type, Grade 1 Operational and Grade 2 Security.

8. Lock Cylinders: Lock cylinders shall not be less than seven pins. Cylinders shall accept the BEST Access Systems Premium 7-pin interchangeable core. Disassembly of knobs, lever and locksets shall not be required to remove core from lockset. Contractor shall reserve one core for each cylinder and two key blanks for each core, or equal.

D06.5. Doors and Windows Materials

Note: Apply the below base-wide standards for Doors and Windows (products, materials and color). Then refer to the Appendix and apply any additional requirements specifically related to the Facility District in which the project is located.

D06.5.1. Anodized Aluminum

<table>
<thead>
<tr>
<th>Type:</th>
<th>Anodized Aluminum Doors, Windows and Frames</th>
</tr>
</thead>
<tbody>
<tr>
<td>Applies to:</td>
<td>Group 1 ☐ Group 2 ☐ Group 3 ☐ Group 4 ☐ Other</td>
</tr>
<tr>
<td>Mfr:</td>
<td>Kawneer (or equivalent)</td>
</tr>
<tr>
<td>Color:</td>
<td>Dark Brown Anodized</td>
</tr>
<tr>
<td>Finish:</td>
<td>Matt</td>
</tr>
<tr>
<td>Model #:</td>
<td>2x4</td>
</tr>
<tr>
<td>Other:</td>
<td>Provide thermally broken frames</td>
</tr>
</tbody>
</table>
D06.5.2. Hollow Metal

- Type: Hollow Metal Doors, Windows and Frames
- Applies to: Group 1, Group 2, Group 3, Group 4, Other
- Mfr: TBD
- Color: Dark Brown
- Finish: Powder Coated, Satin
- Model #: 2x4 Frame
- Other: Provide thermally broken frames

UFGS: Section 08 11 13 Steel Doors and Frames:

D06.5.3. Aluminum-clad Wood

- Type: Aluminum-clad Residential
- Applies to: Group 1, Group 2, Group 3, Group 4, Other
- Mfr: Marvin (or equivalent)
- Color: White or Earth tones
- Finish: Powder coated, satin
- Model #: Aluminum-clad wood windows
- Other: Double hung

UFGS: Section 08 14 00 Wood Doors
http://www.wbdg.org/FFC/DOD/UFGS/UFGS 08 14 00.pdf

D06.5.4. Other

- Applicable: Yes
- N/A: Yes

Schriever Air Force Base IFS
D07. ROOF SYSTEMS

Comply with AF Corporate Standards for Facilities Exteriors:
http://afcfs.wbdg.org/facilities-exteriors/index.html

Comply with AF Corporate Standards for Roof Systems:

Comply with AFCFS Recommended Materials:

Insert 3 photos for each facility group.

Group 1

Group 2

Group 3

Group 4
D07.1. Roof Type and Form

1. Use proven, cost-effective roof systems with high durability, weather resistance, and low maintenance that are compatible with Installation Facilities Standards (IFS) and requirements for the designated Facility Group.

2. Generally match the roof type and form of existing adjacent facilities in new construction.

3. Group 1 and 2 buildings shall use ethylene propylene diene monomer rubber (EPDM) in a single ply flat, built-up roof system, with parapets as the predominant design element. Accents, entry roof coverage and adjacent enclosed ancillary and utility spaces may have standing seam metal roofs on sloped roofs.

4. Provide screens for roof-mounted appendages and equipment of the same materials, which are used predominantly in the building's roof systems. Provide venting and utility access in screen walls of same color/finish of the screen wall.

5. Skylights are discouraged on new construction.

6. Group 2 and 3 facilities under 5,000 sf and narrow in plan geometry, may use low-sloped gabled or hipped standing seam metal roofs. Larger facilities may use sloped-roof features in conjunction with predominantly minimal-sloped “flat” membrane roofs.

7. Group 4 facilities shall have gabled or hipped concrete tile roofs.

8. Roof eaves shall extend beyond the exterior wall for roof drainage and shading. Provide overhangs for shading in response to local climatic conditions, sized and proportioned to the height of the facility and to the window openings being shaded.

9. South-facing eaves shall coordinate with adjacent wall-mounted shading devices.

10. The color, shape and slope of the eave and soffit shall be compatible with adjacent facilities.

11. Keep roofs uncluttered and minimize penetrations.

12. Diminish massive roofs into coordinated smaller consistent with adjacent facilities; avoid random, arbitrary changes.

13. Increase the insulation value of existing roofing systems during renovations if supported by life cycle cost and structural analysis.

14. Roofs shall be maintained for the life of the system and replaced in accordance with UFC 3-110-04, Roofing Maintenance and Repair, and AFI 32-1051, Roof Systems Management. A warranty is required on all new roofs.

D07.2. Roof Slope

1. Group 1 and 2 buildings shall use “flat” minimally sloped roofs, min. 1/4":12.” The standard is to have all roofs sloped to provide positive drainage and to preclude rainwater or melting snow from ponding on roofs. Polyisocyanurate foam insulation is recommended for use above the metal decking in low slope roof applications. A cover board is recommended over the isocyanurate insulation under a built-up roof.

2. Group 2 and 3 facilities may have a maximum of 32° or 7.5:12 to allow the sun to melt snow on the winter solstice. 4:12 to 6:12 roof slopes are preferred. Larger facilities may use sloped-roof features with predominantly min. 1/4":12” roofs.

3. Group 4 facilities shall use 4:12 to 6:12 roof slopes.

4. Ensure adequate drainage, and connect to the rain collection system.

5. Provide roof slopes to accommodate solar photovoltaic, solar thermal, passive systems and daylighting when applicable following UFC 1-200-02.

6. Provide membrane underlayment on sloped roofs to address ice damming.

7. Install snow guards on sloped roofs over building access points where snow and ice may accumulate and fall.
D07.3. Parapets and Copings

1. Extend wall materials vertically above the roof line and provide complementary horizontal copings to conceal all structural roof elements. Ensure copings are properly flashed and detailed to avoid roof leaks.

2. Design new facilities with parapets in lieu of fall protection.

D07.4. Color and Reflectivity

1. All minimal-slope membrane roofs shall use only use high-albedo, high reflectivity color to help decrease the temperature around the buildings and minimize damage to human and wildlife habitat.

2. Sloped roofs in Groups 2 and 3 shall match adjacent facilities and follow requirements of the IFS.

3. Sloped roofs in Group 4 shall be earth tones.

4. Comply with UFC 3-110-03 and ASHRAE 90.1 for Solar Reflectance Index (SRI) and thermal requirements.

5. For renovations, ceramic coatings may be used when life-cycle cost effective to improve reflectivity.

6. All roof flashing shall match the color of the predominant background material.

D07.5. Gutters, Downspouts, Scuppers, Drains

1. Internal roof drainage systems are required for Group 1 facilities. Roof drains should be placed out of shadows cast by parapets and away from locations where drifting snow could cover the drain. Group 2 may use internal drainage systems, scuppers with downspouts, or gutters with downspouts. Groups 3 and 4 shall use gutters and downspouts.

2. Gutters are required for all eaves receiving water and are required for all eaves above the first story unless the area drained is minimal.

3. All gutters and fascia shall be of the standard base colors.

4. Size the roof drainage system per IBC and for 10-year storms per SMACNA.

5. Use scuppers as required in parapet walls. Arrange scuppers in an orderly manner consistent with other elements of the wall system.

6. On Group 2 facilities, when open scuppers are connected to downspouts, provide transitions consistent with adjacent facilities.

7. Integrate downspouts with the architectural details of the wall system and arrange in an orderly, non-prominent appearance. Generally blend downspouts with the color of the wall (not contrasting it). Where exposed downspouts occur on the face of a building; in order to avoid freezing, downspouts should be located to receive maximum solar exposure.

8. Fabricate downspouts from non-corrosive materials such as aluminum, zinc-coated steel (provide powder-coated finishes), or stainless steel. Stainless steel may only be used for Group 1 facilities.

9. Open-faced downspouts are required on north-facing exposures.

10. Provide angled transitional pieces for downspouts to fit closely against the wall for their entire length.

11. Coordinate locations of downspouts to conceal control joints in masonry walls when possible.

12. Place downspouts away from building entries. Water discharged should not run across sidewalks. Provide splash blocks if downspouts are not tied into an underground drainage system.

D07.6. Roof Vents and Elements

1. Minimize and consolidate roof penetrations into a single, inconspicuous point whenever possible.
2. On sloped roofs clad pipe penetrations to match the roofing material.

3. Avoid the use of rooftop mechanical equipment, however for renovations and unavoidable configurations ensure units are screened.

4. Provide access points and service routes to equipment that protect the roof.

5. Screen all large vents.

6. Ensure attic spaces are properly vented at ridges and soffits.

7. Match roof color for all exposed equipment and vents.

8. Avoid roof-mounted antenna systems.

9. Arrange Lightning Protection Systems (LPS) components in an ordered, uncluttered, inconspicuous appearance and integrated into the organization of the roof and wall systems.

10. Ensure that LPS roof mounting systems are approved by the roofing manufacturer.

11. Additions to a roof shall not interfere with LPS or other rooftop systems that may be required.

12. Permanent fall protection shall be included with any addition to a roof with a slope above 3:12 per UFC 3-110-03. To a roof with a slope above 3:12 per UFC 3-110-03.

**D07.7. Clerestories and Skylights**

1. Clerestories and skylights are permitted in Group 1 facilities. These are allowed in Group 3 facilities only when serving passive systems and are justifiable by life-cycle analysis.

2. Clerestories are preferred to skylights to avoid roof penetrations. Skylights, when permitted, must be simple in shape and integrated with the roof system to eliminate leakage.

3. Design clerestories and skylights using the same principles for seasonal shading that are required for walls and roof overhangs.

4. Translucent panel systems are preferred in clerestory applications due to lack of window cleaning.

5. Clerestories and skylights must comply with UFC 4-10-01.

**D07.8. Vegetated Roof**

1. Not applicable.

**D07.9. Roof Systems Materials**

*Note:* Apply the below base-wide standards for Roof Systems (products, materials and color). Then refer to the Appendix and apply any additional requirements specifically related to the Facility District in which the project is located.
D07.9.1. Standing Seam Metal

Type: **Style 1**

- **Mfr:** Berridge
- **Color:** Dark bronze
- **Finish:** Matte
- **Model #:** Tee-Panel
- **Other:** Shed, gabled or hipped standing seam metal

**UFGS:** Section 07 61 14 Steel Standing Seam Roofing

D07.9.2. Membrane Single-ply

Type: **Style 1**

- **Mfr:** Carlisle Systems (or equivalent)
- **Color:** White
- **Finish:** Smooth
- **Model #:** EPDM single-ply, flat minimal slope
- **Other:** N/A

**UFGS:** Section 07 53 23 Ethylene-Propylene-Diene-Monomer Roofing
Section 07 54 50 TPO Thermoplastic Single-Ply Roofing
(Not Available on UFGS)

D07.9.3. Built-up Multi-ply

- **Mfr:** N/A
- **Color:** N/A
- **Finish:** N/A
- **Model #:** N/A
- **Other:** N/A

**UFGS:** N/A
D07.9.4. Concrete Tile
☐ Applicable  ☐ N/A

D07.9.5. Clay Tile
☐ Applicable  ☐ N/A

D07.9.6. Slate Shingles
☐ Applicable  ☐ N/A

D07.9.7. Vegetated System
☐ Applicable  ☐ N/A

D07.9.8. Ribbed Metal Sheeting
☐ Applicable  ☐ N/A  Number of base standards 1

Type:  **Style 1**

Applies to:  ☐ Group 1  ☐ Group 2  ☐ Group 3  ☐ Group 4  ☐ Other

Mfr:  Berridge

Color:  Galvalume

Finish:  Factory

Model #: High Seam Tee-Panel

Other:  24 gauge steel, Width 16” Batten height 1- 3/4”

UFGS:  Section 07 41 13.19 Batten-Seam Metal Roof Panels
(Not Available on UFGS)
### D07.9.9. Composite Shingles

- **Type:** Style 1
- **Applies to:**
  - Group 1
  - Group 2
  - Group 3
  - Group 4
  - Other
- **Mfr:** Tamko (or equivalent)
- **Color:** Earth Tones
- **Finish:** Factory
- **Model #:** Heritage
- **Other:** Gabled or hipped with transverse gable or hipped features

UFGS: Section 07 31 13 Glass-fiber-reinforced Asphalt Shingles

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### D07.9.10. Other

- **Applicable**
- **N/A**
D08. STRUCTURAL SYSTEMS

Comply with AF Corporate Standards for Facilities Exteriors:
http://afcfs.wbdg.org/facilities-exteriors/index.html

Comply with AF Corporate Standards for Structural Systems:

Comply with AFCFS Recommended Materials:

Insert 3 photos for each facility group.

![Group 1 Images](image1.png) ![Group 2 Images](image2.png) ![Group 3 Images](image3.png) ![Group 4 Images](image4.png)
D08.1. Systems and Layouts

1. Select economical structural systems that integrate roof and wall systems.

2. Pre-engineered structural steel framing may be used for Groups 1, 2 and 3 facilities. Installation-appropriate thermal envelopes, materials and detailing are required.

3. Narrow buildings 60’ or less in width with column-free interiors are preferred for office, administrative and personnel spaces. When interior columns are required, optimize the structural grid layout for open-plan arrangements.

4. Fully coordinate structural grids with exterior window systems to align columns with window frames or wall systems.

5. When structure is exposed, provide an organized appearance and coordinate with mechanical, electrical, plumbing, fire protection, information technology, and communications systems.

6. Limit the use of specialty systems (such as space frames, vaults or domes) and structure as a visual feature. Specialty systems and structure used as a visual feature can be approved by 50 CES/CENM on a case by case basis.

7. Cost-effectively design interior bearing walls as thermal mass.

8. Foundation design should avoid connecting paving elements, which are subjected to frost heave, to the foundation. Detail stoops so that frost heave does not render doors inoperable.

9. Manufacturers listed below are only provided to establish a baseline of equivalency among all applicable manufacturers.

D08.2. Structural Systems Materials

Note: Apply the below base-wide standards for Structural Systems (products, materials and color). Then refer to the Appendix and apply any additional requirements specifically related to the Facility District in which the project is located.

D08.2.1. Concrete

☐ Applicable ☒ N/A

D08.2.2. Insulated Concrete Forming (ICF)

☐ Applicable ☒ N/A
## D08.2.3. Steel

**Type:** Rigid Framing  
**Applies to:**  
- Group 1  
- Group 2  
- Group 3  
- Group 4  
- Other  
**Mfr:** US Steel  
**Color:** Shop primed  
**Finish:** Matte  
**Model #:** Structural steel shapes  
**Other:** N/A  
**UFGS:** Section 05 12 00 Structural Steel  
[http://www.wbdg.org/FFC/DOD/UFGS/UFGS 05 12 00.pdf](http://www.wbdg.org/FFC/DOD/UFGS/UFGS 05 12 00.pdf)

## D08.2.4. Pre-Engineered Steel

**Type:** Moment Frame  
**Applies to:**  
- Group 1  
- Group 2  
- Group 3  
- Group 4  
- Other  
**Mfr:** Local TBD  
**Color:** Factory primed  
**Finish:** Matte  
**Model #:** Moment Frame  
**Other:** Draped insulation may be used behind wall systems. Deflection criteria must follow IBC.  
**UFGS:**  
- Section 13 12 00 Steel Building Systems (Not Available on UFGS)  
- Section 13 34 19 Metal Building Systems  

## D08.2.5. Masonry

**Applicable**  
**N/A**
### D08.2.6. Heavy Timber

- Applicable: ☐
- N/A: ☑

### D08.2.7. Light-gauge Steel

- Applicable: ☑
- N/A: ☐

<table>
<thead>
<tr>
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<th>Light Gauge Steel Framing</th>
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<tbody>
<tr>
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</tr>
<tr>
<td>Color:</td>
<td>Hot-dipped galvanized metal</td>
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<tr>
<td>Finish:</td>
<td>Matte</td>
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<tr>
<td>Model #:</td>
<td>Standard Structural Shapes</td>
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<td>Other:</td>
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</tbody>
</table>

UFGS: Section 05 45 00 Light Gauge Steel Framing System
(Not Available on UFGS)

### D08.2.8. Lumber Framing

- Applicable: ☑
- N/A: ☐

<table>
<thead>
<tr>
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<tr>
<td>Mfr:</td>
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<tr>
<td>Model #:</td>
<td>Structural dimensional lumber</td>
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<td>Other:</td>
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UFGS: Section 06 10 00 Rough Carpentry
http://www.wbdg.org/FFC/DOD/UFGS/UFGS 06 10 00.pdf
Section 06 11 00 Wood Framing and Sheathing
(Not Available on UFGS)
D08.2.9. Other

☐ Applicable  ☒ N/A
D09. MECHANICAL, ELECTRICAL AND PLUMBING

Comply with AF Corporate Standards for Facilities Exteriors:
http://afcfs.wbdg.org/facilities-exteriors/index.html

Comply with AF Corporate Standards for Mechanical, Electrical and Plumbing:

Insert 3 photos for each facility group.

Group 1

Group 2

Group 3

Group 4
D09.1. Passive and Active Systems

1. Fully integrate passive heating and cooling systems into facility designs whenever practical for the local climate, which is dominated by mechanical heating loads, prior to the design of active mechanical systems.

2. Provide optimized passive and active systems; design active mechanical systems to supplement thermal mass walls and floors.

3. Develop renewable energy systems including geo-exchange (ground source heat pumps) when life cycle cost effective.

4. Performance display screens, which report energy performance and utility savings, are encouraged; when provided locate these in building lobbies or common areas.

5. Solar domestic hot water systems are required when life cycle cost effective.

6. Integrate shading into building exteriors to reduce solar heat gain during the summer.

D09.2. Functionality and Efficiency

1. Fully coordinate Mechanical, Electrical, Plumbing (MEP) and Fire Protection systems with each other and with the building structure, enclosure, thermal envelope and interior design.

2. Ensure direct exterior access is provided (for CE) to main Mechanical and Electrical rooms.

3. Screen exterior equipment from primary views (landscape, building masses, screen walls) and comply with ATFP requirements.

4. Keep equipment away from main building entrances; locate service area/yard on least visible side of a building.

5. Coordinate the location of all exterior meters, equipment and devices to provide convenient access and an overall coordinated and orderly appearance.

6. Design emergency generator systems integrally with all other building systems and avoid incompatible building additions; locate generators near service areas and not visible from primary entrances.

7. When structure is exposed as a finished ceiling, fully integrate MEP and Fire Protection systems to provide an organized uncluttered appearance.

8. Conceal ducts, piping, conduits, devices, etc., when permanent walls, suspended ceilings or raised floors are provided; locate sprinkler heads in orderly configuration.

9. Limit interior wall-mounted equipment in occupied personnel spaces; avoid surface-mounted conduit and pipes.

   a. For SCIF (Sensitive Compartmented Information Facilities) walls follow IC Tech Spec-for ICD/ICS 705 and UFC 4-010-05 Sensitive Compartmented Information Facilities Planning, Design, and Construction. Refer to section E01.1; 11.

10. Provide efficient utility rooms with layouts to facilitate system performance and maintenance; provide convenient access to controls, clearly label systems and include operating and maintenance instructions.

11. Separate Mechanical and Electrical and Communications rooms.

   a. Provide roof access hatch with ladder on an interior wall of the Mechanical Room.

12. Integrate recessed and wall-mounted fixtures such as fire standpipe cabinets and drinking fountains within permanent walls.
E. FACILITIES INTERIORS

Comply with Air Force Corporate Standards for Facilities Interiors:
http://afcfs.wbdg.org/facilities-interiors/index.html

Insert 3 photos for each facility group.

Image Tool 250 x 188

Group 1

Group 2

Group 3

Group 4

Schriever Air Force Base IFS
E01. Building Configurations
Comply with Air Force Corporate Standards for Building Configurations:

1. Provide open-plan configurations for office, administrative, operational and related activities and spaces for maximum flexibility. Use a “core and shell” approach in which all building systems, infrastructure and permanent interior partitions anticipate two or more uses (operations) during a facility’s lifespan.

2. Create flexible interior configurations using Furniture, Fixtures & Equipment (FF&E) and limit private offices and private rooms. Refer to AFMAN 32-1084 for space requirements. To the greatest extent, limit permanent partitions to core areas such as toilet rooms, stairs, mechanical and utility rooms.

3. Use more durable long-lasting finishes in core areas for walls, ceilings, floor coverings and built-in casework. Coordinate interior FF&E layouts with structural grids during space planning.

4. Provide high-performance building configurations following UFC 1-200-02. Ensure passive design strategies are cost effectively incorporated before active mechanical systems are designed.

5. Comply with UFC 1-200-01, general building requirements. UFC 1-200-01 provides applicability of model building codes and government unique criteria for typical design disciplines and building systems, as well as for accessibility, antiterrorism, security, high performance and sustainability requirements, and safety.


7. Comply with AFCFS for supporting mission requirements, addressing human comfort and well being, and creating highly flexible interiors while satisfying metrics for high performance and sustainable buildings.

8. Provide a level of quality for interior features, materials and finishes that is appropriate for the Facility Group number. Group 1 may receive higher quality than Groups 2 thru 4. Refer to Facility Hierarchy.

9. Through open-plan configurations, preserve all passive and natural design strategies and fully integrate facility interiors with overall building systems.

10. Professional interior designers, or architects with significant interior design experience, must accomplish the design and review of applicable new construction, renovations and maintenance projects.

11. Consult with the State Historic Preservation Officer (SHPO) and base-level Historic Preservation offices regarding proposed changes to properties listed on or eligible for listing on the National Register of Historic Places. Follow requirements of The National Historic Preservation Act and Secretary of the Interior Standards for the Treatment of Historic Properties.

12. Maintain architectural compatibility following AFCFS and this Installation Facilities Standards (IFS) document to create continuity while avoiding monotony.

E01.1. Layout and Common Areas
Comply with Air Force Corporate Standards for Layout and Common Areas:

1. Create open-plan interior environments to accommodate changes.

2. Limit interior partitions, private offices and rooms; use furniture or modular systems to provide privacy and acoustic control.

3. When partitions are functionally justified such as for conference rooms, use systems furniture and moveable (demountable) floor-to-ceiling wall systems for acoustical or visual privacy.

4. Proportion lobbies and common spaces based on type of function, activity and facility group and flexibility to support multiple missions over time. Provide distinct boundaries for waiting areas with a variety of comfortable and moveable furniture arranged in small flexible groupings to accommodate the widest range of persons and families.
5. Design common areas to accommodate and manage a sudden influx of people that rapidly reaches the maximum occupant load.

6. Allow no direct sight lines into restrooms.

7. Situate utility and core areas to minimize impact on daylighting and to maximize use as thermal buffers.

8. Ensure electrical, lighting and communications systems can be adaptable to configuration changes.

9. Avoid power poles to the maximum extent; when poles are necessary minimize the number and coordinate locations with furniture placement and other elements.

10. Avoid sloping floors to maintain flexibility and eliminate future structural changes.


   • http://www.wbdg.org/ffc/dod/unified-facilities-criteria-ufc/ufc-4-010-05

---

E01.1.1. Interior Design Process

1. Comply with UFC 3-120-10 for the Comprehensive Interior Design (CID,) which includes both Structural Interior Design (SID) and Furniture, Fixtures & Equipment (FF&E) design services.

2. Use a collaborative, integrated planning and design team, composed of user, government support staff, and appropriate professionals. Integrate architectural features using simple detailing to create a professional appearance; avoid extravagant or excessive detailing.

3. Ensure interior designs satisfy the functional requirements within the context of flexibility, sustainability and the building’s energy performance.

4. Base space planning on square foot allocations from AFM 32-1084. Identify special requirements if any, such as privacy separation, VIP areas, gathering spaces and storage. Note: The occupant’s rank and position will influence the square footage and selection of materials.

5. Provide clear circulation and pathway finding for both horizontal and vertical directions that accommodate the number of personnel in the facility.

6. Maximize efficiencies in the space plan for functional relationships and adjacencies for all facility users. Efficiently create and situate rooms and support rooms such as conference / meeting rooms and break rooms.

7. Provide interior design building-related illustrations, drawings, schedules, materials selections, specifications and cost estimates as listed in UFC 3-120-10. Refer to Furnishings in this IFS also.

8. SID Format shall follow UFC 3-120-10.

9. Base the FF&E package on the furniture footprint developed in the SID. Identify all new or existing equipment needed and its users within each facility or each area of the facility. Provide specific information on: equipment sizes, electrical requirements, ventilation requirements, weight (if heavy), quantity, and security level if required. Presume all administrative spaces have computers and supporting equipment.

---

E01.1.2. Codes and Regulations

1. Refer to UFC 1-200-01 for modifications to the International Building Code (IBC) to determine applicable sections of the IBC. Both the IBC Chapter 3 and UFC 3-600-01 govern “Use and Occupancy Classification” for example.
2. Fire code requirements shall be as defined in the International Building Code (IBC) and must be used where dictated by UFC 1-200-01 DoD Building Code (General Building Requirements) except where noted in UFC 3-600-01 (Fire Protection Engineering For Facilities).

3. National Fire Protection Association (NFPA) 101 must be utilized to determine the occupancy classification as it relates to fire/smoke resistance rating of interior non-load bearing partitions (other than occupancy separation), means of egress, interior finish, features of fire protection (including vertical openings) and associated requirements.

E01.2. Quality and Comfort

Comply with Air Force Corporate Standards for Quality and Comfort:

1. Include durability in the life cycle cost analysis for best-value material selections with long life expectancies that do not show excessive wearing.

2. Select long-lasting materials and finishes for permanent core areas such as lobbies, restrooms and stairs.

3. Select low-maintenance materials and products that reduce ongoing servicing and repair and that are easy to clean.

4. Relate the visual quality of finishes to the Facility Group number.

5. Building and interior configurations should address both operations and climatic responses.

6. Convey a professional image; avoid trendy patterns and textures.

7. Use materials and finishes that provide a healthy indoor environment.

8. Orient interior spaces toward views while maintaining cost-effective building performance and efficiency.


E02. Floors

Comply with Air Force Corporate Standards for Floors:
http://afcfs.wbdg.org/facilities-interiors/floors/index.html

E02.1. Floor Materials

**Facility Group 1**

- **Primary:** Prepared Slabs (Ground, Polished)
- **Secondary:** Porcelain tile
- **Tertiary:** Carpet, Rubber Stair Treads

**Facility Group 2**

- **Primary:** Prepared Slabs (Ground, Polished)
- **Secondary:** Ceramic tile
- **Tertiary:** Carpet, Rubber Stair Treads

**Facility Group 3**

- **Primary:** Prepared Slabs (Ground)
- **Secondary:** Prepared Slabs (Sealer)
- **Tertiary:** N/A

**Facility Group 4**

- **Primary:** Carpet
- **Secondary:** Ceramic tile
- **Tertiary:** N/A
1. Select floor materials in response to the amount of foot traffic a floor receives and to local conditions to provide the greatest long-term value.

2. Floor treatments (patterns and layouts) should convey the designation of the Facility Groups (Group 1, 2, 3 or 4), type of use, and type of space while considering a life cycle cost analysis. Facility Group 1 may receive higher quality treatments than Facility Groups 2 through 4, but should not convey an excessive use of resources.

3. Lower the initial cost of flooring in new construction while providing durability appropriate for the facility type.

4. Carpet must comply with requirements for performance, aesthetics, functional use and maintenance; refer to UFGS 09680 Carpet and ETL 07-4 Air Force Carpet Standard. Coordinate carpet selections and specifications with installation design standards.

5. Natural stone and terrazzo flooring may be used in high traffic areas of Group 1 as approved on a case basis.

6. Resilient and rapidly renewable flooring may be used in low traffic areas in Group 1, 2 and 4.

7. Acceptable resilient floor includes rubber, VCT, LVT, cork, and linoleum. Resilient flooring may be used for stairs, office break rooms, dining areas, fitness areas, and (rubber) floor base.

8. Use carpet tiles under system furniture installations. Refer to TARR Rating for carpets following AF criteria. Refer to AFCFS.

9. Manufacturers listed below are only provided to establish a baseline of equivalency among all applicable manufacturers.

**Note:** Apply the below base-wide standards for Floors (products, materials and color). Then refer to the Appendix and apply any additional requirements specifically related to the Facility District in which the project is located.

### E02.1.1. Prepared Slabs

- **Type:** Style 1, Ground and Polished
- **Applies to:**
  - Group 1
  - Group 2
  - Group 3
  - Group 4
  - Other
- **Mfr:** Local (TBD)
- **Color:** Natural gray cement, light to dark beige aggregates
- **Finish:** Fine polished texture
- **Model #:** Medium to small aggregate
- **Other:** N/A
- **UFGS:** Section 03 35 45 Polished Concrete Finishing (Not Available on UFGS)
### Concrete

- **Type:** Concrete
- **Applies to:** Group 1, Group 2, Group 3, Group 4, Other
- **Mfr.:** Local (TBD)
- **Color:** Natural gray cement, light to dark beige aggregates
- **Finish:** Medium polished texture, slip resistant
- **Model #:** Medium to small aggregate
- **Other:** N/A

**UFGS:**
- Section 03 35 45 Polished Concrete Finishing
- (Not Available on UFGS)

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### Granite

- **Type:** Granite
- **Applies to:** Group 1, Group 2, Group 3, Group 4, Other
- **Mfr.:** TBD
- **Color:** Black and Gray (real or cultured)
- **Finish:** Polished or hydrothermal
- **Model #:** N/A
- **Other:** See Building 210

**UFGS:**
- Section 09 63 40 Stone Flooring
- (Not Available on UFGS)
- Section 09 66 13 Portland Cement Terrazzo Flooring
## E02.1.3. Quarry Tile

- **Type:** Style 1
- **Mfr.:** Daltile
- **Color:** Earth tones
- **Finish:** Matte, slip resistant
- **Model #:** N/A
- **Other:** Use in commercial kitchen flooring.

**UFGS:** Section 09 30 10 Ceramic, Quarry, and Glass Tiling

## E02.1.4. Ceramic Tile

- **Type:** Style 1 Porcelain
- **Mfr.:** Daltile
- **Color:** Earth tones
- **Finish:** Matte, slip resistant
- **Model #:** Porcelain tile
- **Other:** Use in high traffic areas. Epoxy grout is recommended.

**UFGS:** Section 09 30 10 Ceramic, Quarry, and Glass Tiling
**Type:** Style 2 Ceramic  

**Applies to:**  
- Group 1  
- Group 2  
- Group 3  
- Group 4  
- Other

**Mfr:** Daltile

**Color:** Earth tones

**Finish:** Matte, slip resistant

**Model #:** Ceramic tile

**Other:** Use in low traffic area toilet rooms.

**UFGS:** Section 09 30 10 Ceramic, Quarry, and Glass Tiling  

---

**E02.1.5. Resilient Floor**

- Applicable  
- N/A  
- Number of base standards 1

**Type:** Style 1 Stair Treads

**Applies to:**  
- Group 1  
- Group 2  
- Group 3  
- Group 4  
- Other

**Mfr:** Roppe

**Color:** Neutral tones

**Finish:** Factory

**Model #:** Raised design rubber tread

**Other:** Stair treads material

**UFGS:** Section 09 65 00 Resilient Flooring  
http://www.wbdg.org/FFC/DOD/UFGS/UFGS_09_65_00.pdf
E02.1.6. Carpet

Type: Style 1

Applies to: Group 1, Group 2, Group 3, Group 4, Other

Mfr: Mohawk Group

Color: Neutral multi-colored tones/patterned/solid

Finish: Yarn: Nylon 6 or 6.6/cut pile or loop pile

Model #: Broadloom, 6’ wide rolled, carpet tiles, entry walk-off carpet

Other: N/A

UFGS: UFGS 09 68 00 Carpeting
http://www.wbdg.org/FFC/DOD/UFGS/UFGS 09 68 00.pdf

Type: Style 2

Applies to: Group 1, Group 2, Group 3, Group 4, Other

Mfr: Mohawk Group

Color: Earth tones

Finish: Factory

Model #: Broadloom, residential loop, “Smartstrand”

Other: N/A

UFGS: UFGS 09 68 00 Carpeting
http://www.wbdg.org/FFC/DOD/UFGS/UFGS 09 68 00.pdf

E02.1.7. Rapidly-Renewable Products

Applicable

N/A
E02.1.8. Other

- **Applicable**: Yes
- **N/A**: No
- **Number of base standards**: 1

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<tr>
<td>Group 1</td>
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<tr>
<td>Mfr: Johnsonite</td>
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<tr>
<td>Color: Follow one of the three color schemes</td>
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<tr>
<td>Finish: rubber</td>
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<td>Model #: Traditional wall base cove</td>
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<tr>
<td>Other: Rubber 1/8&quot; x 4&quot;</td>
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<td>UFGS: N/A</td>
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**E03. Walls**

Comply with Air Force Corporate Standards for Walls:

**E03.1. Wall Materials**

**Facility Group 1** wall materials shall be as follows.

- **Primary**: Brick (or other as approved by the BCE)
- **Secondary**: Gypsum board (painted)
- **Tertiary**: N/A

**Facility Group 2** wall materials shall be as follows.

- **Primary**: Brick
- **Secondary**: Gypsum board (painted)
- **Tertiary**: Ceramic tile (restrooms)

**Facility Group 3** wall materials shall be as follows.

- **Primary**: Ground face block, sealed (do not paint)
- **Secondary**: N/A
- **Tertiary**: Ceramic tile (restrooms)

**Facility Group 4** wall materials shall be as follows.

- **Primary**: Gypsum board (painted)
- **Secondary**: N/A
- **Tertiary**: Ceramic tile (restrooms)

1. Provide durable low-maintenance wall materials and finishes for a long life span with the possibility of one or more uses of spaces during that time. Apply wall finishes assuming a 10-year lifespan. Color shall be cohesive and of consistent quality throughout a facility.
2. Comply with Unified Facilities Criteria for Sound Transmission Loss (TL), Noise Reduction (NR) and Sound Transmission Class (STC) ratings.

3. Follow UFC 3-450-01 (Vibration and Noise Control) for acoustic design issues including speech privacy, sound isolation or sound masking.

4. Provide a level of finish following UFGS Section 09 29 00 Gypsum Board.

5. Select and apply paint with sheens (gloss levels) appropriate for the application following UFGS Section 09 90 00 Paints and Coatings.

6. Provide ceramic tile on wet walls of kitchens, toilet rooms, locker rooms, etc., in all facility groups.

7. Neutral split-face or ground-face integrally colored block with a clear sealer may be used in Group 3. Do not paint concrete block.

8. Provide rubber base on drywall partitions in Groups 1 and 2.

9. Hardwood base may only be used in Group 1 as approved on a case basis.

10. Hardwood chair rails / bumper rails other than oak (unless matching existing) may be used in high-use areas of Groups 1 and 2; aqueous clear finishes are preferred to reduce maintenance; plastic chair rails are permitted only in medical applications.

11. Corner guards are permitted in all high traffic areas such as corridors, lobbies, elevator areas, large open offices, service areas. Use 2” solid color vinyl in office areas; use satin stainless steel angle in service areas and other areas of heavy use.

12. Decorative moldings may be used only in Group 1 when approved on a case basis.

13. Corner guards are permitted only in high traffic spaces with wheeled or cart use such as private service areas in Groups 1 and 2; stainless steel corners guards with a satin finish may be judiciously used in Group 3.

14. Group 4 may use painted composite wood base.

15. Manufacturers listed below are only provided to establish a baseline of equivalency among all applicable manufacturers.

Note: Apply the below base-wide standards for Walls (products, materials and color). Then refer to the Appendix and apply any additional requirements specifically related to the Facility District in which the project is located.

E03.1.1. Concrete

☐ Applicable  ☐ N/A
E03.1.2. Masonry

Applicable  N/A

Number of base standards 1

Type: Sandstone

Applies to: Group 1  Group 2  Group 3  Group 4  Other

Mfr: Local (TBD)

Color: Buff (real or cultured) Sandstone

Finish: light texture

Model #: coursed unit masonry

Other: Concrete block may only be used in Group 3 when approved by BCE.

UFGS: Section 03 33 00 Cast-In-Place Architectural Concrete
http://www.wbdg.org/FFC/DOD/UFGS/UFGS 03 33 00.pdf

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E03.1.3. Ceramic Tile

Applicable  N/A

Number of base standards 1

Type: Style 1

Applies to: Group 1  Group 2  Group 3  Group 4  Other

Mfr: Local (TBD)

Color: Red blend

Finish: Light texture

Model #: Coursed unit masonry

Other: Brick is preferred. Concrete block may only be used in Group 3 when approved by the BCE.

UFGS: Section 09 30 10 Ceramic, Quarry, and Glass Tiling
E03.1.4. Gypsum Board

Type: Style 1

Applies to: Group 1  Group 2  Group 3  Group 4  Other

Mfr: Daltile

Color: Earth tones

Finish: Gloss, Semi-gloss

Model #: Ceramic wall tile

Other: Located on wet walls in restrooms

UFGS: Section 09 29 00 Gypsum Board
http://www.wbdg.org/FFC/DOD/UFGS/UFGS 09 29 00.pdf
Section 09 90 00 Paints and Coatings
http://www.wbdg.org/FFC/DOD/UFGS/UFGS 09 90 00.pdf

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E03.1.5. Metal Panels

- Applicable
- N/A

E03.1.6. Wood Paneling

- Applicable
- N/A

E03.1.7. Rapidly-Renewable Products

- Applicable
- N/A
E03.1.8. Other

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<td>Scranton Products</td>
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<td>Finish:</td>
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<td>Eclipse Partitions</td>
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E04. Ceilings

Comply with Air Force Corporate Standards for Ceilings:
http://afcfs.wbdg.org/facilities-interiors/ceilings/index.html

E04.1. Ceiling Materials

**Facility Group 1** ceiling materials shall be as follows.

- **Primary:** Exposed Framing (Roof / Floor Structure Above)
- **Secondary:** Grid and Acoustical Tile
- **Tertiary:** Gypsum board (painted) (restrooms)

**Facility Group 2** ceiling materials shall be as follows.

- **Primary:** Exposed Framing (Roof / Floor Structure Above)
- **Secondary:** Grid and Acoustical Tile
- **Tertiary:** Gypsum board (painted) (restrooms)

**Facility Group 3** ceiling materials shall be as follows.

- **Primary:** Exposed Framing (Roof / Floor Structure Above)
- **Secondary:** Exposed Framing (Roof / Floor Structure Above)
- **Tertiary:** Gypsum board (painted) (restrooms)

**Facility Group 4** ceiling materials shall be as follows.

- **Primary:** Gypsum board (painted)
- **Secondary:** N/A
- **Tertiary:** N/A

1. Accent ceiling materials such as metal, wood, and rapidly renewable may be used in Group 1 as approved on a case basis.
2. Structural roof/floor decks and other components (mechanical, plumbing, electrical, communications) may be exposed when cost effective to eliminate or minimize secondary suspended ceilings. Exposed structure and building components shall be painted a consistent, flat, neutral paint color.

3. Follow UFC 3-450-01, Noise and Vibration Control, for acoustic design issues including speech privacy, sound isolation or sound masking.

4. All individual elements placed in ceiling or suspended from ceiling shall be coordinated throughout and have an ordered appearance. Light fixtures shall be symmetrical and balanced throughout a room. Suspended ceilings shall be centered in each room. Fixtures such as detectors, fire sprinklers, annunciators, etc. shall be centered in the ceiling tiles.

5. Limit the transmittance of sound through building components, the reflectance of sound within interior spaces and address acoustic design issues including speech privacy, sound isolation or sound masking as outlined in UFC 3-450-01, Noise and Vibration Control.

6. Accent ceiling materials such as metal, wood and rapidly renewable may be used in Group 1 as approved on a case by case basis.

7. Manufacturers listed below are only provided to establish a baseline of equivalency among all applicable manufacturers.

**Note:** Apply the below base-wide standards for Ceilings (products, materials and color). Then refer to the Appendix and apply any additional requirements specifically related to the Facility District in which the project is located.

### E04.1.1. Exposed Framing (Roof / Floor Structure Above)

- **Applicable**: ☑
- **N/A**: ☐
- **Number of base standards**: 1

#### Type: **Style 1**

#### Applies to:
- ☑ Group 1
- ☑ Group 2
- ☑ Group 3
- ☐ Group 4
- ☐ Other

#### Mfr: Vulcraft

#### Color: Neutral colors reviewed on a case basis

#### Finish: Field painted (Sheen per UFGS)

#### Model #: Formlok floor and roof decking

#### Other: N/A

**UFGS:** Section 05 30 00 Steel Decks

[http://www.wbdg.org/FFC/DOD/UFGS/UFGS 05 30 00.pdf](http://www.wbdg.org/FFC/DOD/UFGS/UFGS 05 30 00.pdf)

### E04.1.2. Exposed Concrete

- **Applicable**: ☐
- **N/A**: ☑
E04.1.3. Grid and Acoustical Tile

Type: **Style 1**

Applies to: 
- Group 1
- Group 2
- Group 3
- Group 4
- Other

Mfr: Armstrong

Color: White

Finish: Factory

Model #: 2’x2’ Tegular with reveal edge and fine texture, grid 15/16”

Other: Performance characteristics are Class A; NRC-0.70; CAC-40; LR-0.86; minimum recycled content 82%.

UFGS: Section 09 51 00 Acoustical Ceilings
http://www.wbdg.org/FFC/DOD/UFGS/UFGS_09_51_00.pdf

E04.1.4. Gypsum Board

Type: **Style 1**

Applies to: 
- Group 1
- Group 2
- Group 3
- Group 4
- Other

Mfr: US Gypsum

Color: Solid neutral colors

Finish: Paint (sheen per UFGS)

Model #: Tapered edge

Other: N/A

UFGS: Section 09 29 00 Gypsum Board
http://www.wbdg.org/FFC/DOD/UFGS/UFGS_09_29_00.pdf
Section 09 90 00 Paints and Coatings
http://www.wbdg.org/FFC/DOD/UFGS/UFGS_09_90_00.pdf

E04.1.5. Metal Panels

Applicable

Number of base standards 1

Image Tool 250 x 188

UFGS: N/A

Recommended Image:
Detail of Grid and Acoustical Tile
Size image to: 250 pixels width x 188 pixels height
Click here to insert image

Recommended Image:
Detail of Gypsum Board Ceiling
Size image to: 250 pixels width x 188 pixels height
Click here to insert image
E04.6.1. Wood
☐ Applicable  ☒ N/A

E04.1.7. Rapidly-Renewable Products
☐ Applicable  ☒ N/A

E04.1.8. Other
☐ Applicable  ☒ N/A

E05. Doors and Windows
Comply with Air Force Corporate Standards for Doors and Windows:

E05.1. Doors and Windows and Frames Materials
### Facility Group 1
*door (frame) and window frame materials shall be as follows.*

<table>
<thead>
<tr>
<th></th>
<th>Primary</th>
<th>Secondary</th>
<th>Tertiary</th>
</tr>
</thead>
<tbody>
<tr>
<td>Primary</td>
<td>Aluminum, clear anodized</td>
<td>Hollow metal (painted)</td>
<td>N/A</td>
</tr>
<tr>
<td>Secondary</td>
<td>Hollow metal (painted)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tertiary</td>
<td>N/A</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Facility Group 1
*door (leaf) materials shall be as follows.*

<table>
<thead>
<tr>
<th></th>
<th>Primary</th>
<th>Secondary</th>
<th>Tertiary</th>
</tr>
</thead>
<tbody>
<tr>
<td>Primary</td>
<td>Hardwood veneer</td>
<td>Hollow metal (painted)</td>
<td>N/A</td>
</tr>
<tr>
<td>Secondary</td>
<td>Hollow metal (painted)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tertiary</td>
<td>N/A</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Facility Group 2
*door (frame) and window frame materials shall be as follows.*

<table>
<thead>
<tr>
<th></th>
<th>Primary</th>
<th>Secondary</th>
<th>Tertiary</th>
</tr>
</thead>
<tbody>
<tr>
<td>Primary</td>
<td>Aluminum, clear anodized</td>
<td>Hollow metal (painted)</td>
<td>N/A</td>
</tr>
<tr>
<td>Secondary</td>
<td>Hollow metal (painted)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tertiary</td>
<td>N/A</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Facility Group 2
*door (leaf) materials shall be as follows.*

<table>
<thead>
<tr>
<th></th>
<th>Primary</th>
<th>Secondary</th>
<th>Tertiary</th>
</tr>
</thead>
<tbody>
<tr>
<td>Primary</td>
<td>Hardwood veneer</td>
<td>Hollow metal (painted)</td>
<td>N/A</td>
</tr>
<tr>
<td>Secondary</td>
<td>Hollow metal (painted)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tertiary</td>
<td>N/A</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Facility Group 3
*door (frame) and window frame materials shall be as follows.*

<table>
<thead>
<tr>
<th></th>
<th>Primary</th>
<th>Secondary</th>
<th>Tertiary</th>
</tr>
</thead>
<tbody>
<tr>
<td>Primary</td>
<td>Hollow metal (galvanized, painted)</td>
<td>Hollow metal (galvanized, painted)</td>
<td>N/A</td>
</tr>
<tr>
<td>Secondary</td>
<td>Hollow metal (galvanized, painted)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tertiary</td>
<td>N/A</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Facility Group 3
*door (leaf) materials shall be as follows.*

<table>
<thead>
<tr>
<th></th>
<th>Primary</th>
<th>Secondary</th>
<th>Tertiary</th>
</tr>
</thead>
<tbody>
<tr>
<td>Primary</td>
<td>Hollow metal (galvanized, painted)</td>
<td>Hollow metal (galvanized, painted)</td>
<td>N/A</td>
</tr>
<tr>
<td>Secondary</td>
<td>Hollow metal (galvanized, painted)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tertiary</td>
<td>N/A</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Facility Group 4
*door (frame) and window frame materials shall be as follows.*

<table>
<thead>
<tr>
<th></th>
<th>Primary</th>
<th>Secondary</th>
<th>Tertiary</th>
</tr>
</thead>
<tbody>
<tr>
<td>Primary</td>
<td>Hardwood veneer</td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td>Secondary</td>
<td>Composite solid core</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tertiary</td>
<td>N/A</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Facility Group 4
*door (leaf) materials shall be as follows.*

<table>
<thead>
<tr>
<th></th>
<th>Primary</th>
<th>Secondary</th>
<th>Tertiary</th>
</tr>
</thead>
<tbody>
<tr>
<td>Primary</td>
<td>Wood solid core</td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td>Secondary</td>
<td>Composite solid core</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tertiary</td>
<td>N/A</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

1. Hardwood casings may be provided over metal frames in Group 1 as approved on a case basis.
2. Paneled textured doors are preferred in Group 4.
3. Do not use hollow-core wood doors.
4. Match original hardware in renovations.
5. Manufacturers listed below are only provided to establish a baseline of equivalency among all applicable manufacturers.

**Note:** Apply the below base-wide standards for Doors and Windows (products, materials and color). Then refer to the Appendix and apply any additional requirements specifically related to the Facility District in which the project is located.
**E05.1.1. Aluminum**

- **Type:** Style 1
- **Applies to:** Group 1, Group 2, Group 3
- **Mfr:** Kawneer
- **Color:** Clear anodized
- **Finish:** Factory
- **Model #:** InFrame Interior Framing, (2x4 nominal framing)
- **Other:** Satin stainless steel hardware

**UFGS:**
- Section 08 41 13 Aluminum-Framed Entrances and Storefronts
- Section 08 71 00 Door Hardware
  [https://www.wbdg.org/FFC/DOD/UFGS/UFGS 08 71 00.pdf](https://www.wbdg.org/FFC/DOD/UFGS/UFGS 08 71 00.pdf)

**E05.1.2. Hollow Metal**

- **Type:** Steel Doors
- **Applies to:** Group 1, Group 2, Group 3, Group 4
- **Mfr:** Steelcraft
- **Color:** Neutral colors
- **Finish:** Paint (Sheen per UFGS)
- **Model #:** Hollow metal, 2” w. frames, 16 gauge (welded corners) grouted solid
- **Other:** Provide in Group 3 and in utility areas of Group 1 and 2. Provide A25 "galvannealed" coating. All interior steel doors shall have a factory applied primer finish. Provide satin stainless steel hardware.

**UFGS:**
- Section 08 11 13 Steel Doors and Frames
- Section 08 71 00 Door Hardware
  [https://www.wbdg.org/FFC/DOD/UFGS/UFGS 08 71 00.pdf](https://www.wbdg.org/FFC/DOD/UFGS/UFGS 08 71 00.pdf)
### E05.1.3. Wood

<table>
<thead>
<tr>
<th>Applicable</th>
<th>N/A</th>
<th>Number of base standards 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>✓</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Type:** Steel Frames

**Applies to:**
- Group 1
- Group 2
- Group 3
- Group 4
- Other

**Mfr:** Steelcraft

**Color:** Neutral colors

**Finish:** Paint (Sheen per UFGS)

**Model #:** Steelcraft

**Other:** Satin stainless steel hardware

**UFGS:**
- Section 08 11 13 Steel Doors and Frames
- Section 08 71 00 Door Hardware
  - [https://www.wbdg.org/FFC/DOD/UFGS/UFGS 08 71 00.pdf](https://www.wbdg.org/FFC/DOD/UFGS/UFGS 08 71 00.pdf)

---

**E05.1.3. Wood**

<table>
<thead>
<tr>
<th>Applicable</th>
<th>N/A</th>
<th>Number of base standards 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>✓</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Type:** Style 1, Administrative

**Applies to:**
- Group 1
- Group 2
- Group 3
- Group 4
- Other

**Mfr:** Simpson

**Color:** Natural hardwood veneer

**Finish:** Clear Sealer, satin (aqueous)

**Model #:** 3'x7'x 1 ¾", solid core

**Other:** Satin stainless steel hardware, Glass lites may be used. Stained birch veneer face, 5 ply construction, rotary cut finish.

**UFGS:**
- Section 08 14 00 Wood Doors
  - [http://www.wbdg.org/FFC/DOD/UFGS/UFGS 08 14 00.pdf](http://www.wbdg.org/FFC/DOD/UFGS/UFGS 08 14 00.pdf)
- Section 08 71 00 Door Hardware
  - [https://www.wbdg.org/FFC/DOD/UFGS/UFGS 08 71 00.pdf](https://www.wbdg.org/FFC/DOD/UFGS/UFGS 08 71 00.pdf)
E05.1.4. Other

☐ Applicable  ☐ N/A

E06. Casework Systems

Comply with Air Force Corporate Standards for Casework Systems:
http://afcfs.wbdg.org/facilities-interiors/casework-systems/index.html

E06.1. Casework Materials

1. Select casework systems and materials considering durability, maintenance requirements and LCCA.

2. Natural stone and cast stone countertops may only be used in Group 1 with approval on a case basis.

3. Metal cabinets and countertops shall be provided in heavy-use operations and in Group 3.

4. Refer to AFCFS for approved materials.

5. Manufacturers listed below are only provided to establish a baseline of equivalency among all applicable manufacturers.
### E06.1.1. Plastic Laminate

- **Applicable:** Yes
- **Mfr.:** Formica
- **Color:** Medium Earth tones and neutral tones
- **Finish:** Light textured
- **Model #:** High pressure laminate
- **Other:** Combine with matching solid-surface banding on casework edges.

#### UFGS:
Section 06 41 16.00 10 Plastic-Laminate-Clad Architectural Cabinets
http://www.wbdg.org/FFC/DOD/UFGS/UFGS 06 41 16.00 10.pdf

### E06.1.2. Solid Polymer Surface

- **Applicable:** Yes
- **Mfr.:** Corian
- **Color:** Medium Earth tones and neutral tones
- **Finish:** Light textured
- **Model #:** Solid Surface
- **Other:** Faces and edge banding

#### UFGS:
Section 12 36 00 Countertops
http://www.wbdg.org/FFC/DOD/UFGS/UFGS 12 36 00.pdf
E06.1.3. Rapidly-Renewable Products

Applicable: Yes, N/A: No
Number of base standards: 1

**Type:** Style 1 Moderate Use Areas

**Applies to:**
- Group 1
- Group 2
- Group 3
- Group 4
- Other

**Mfr:** Plyboo

**Color:** Natural or amber

**Finish:** Satin

**Model #:** Flat grain bamboo plywood

**Other:** FSC® Certified 100%.

**UFGS:** Section 12 32 00 Manufactured Wood Casework
http://www.wbdg.org/FFC/DOD/UFGS/UFGS 12 32 00.pdf

---

E06.1.4. Metal

Applicable: Yes, N/A: No
Number of base standards: 1

**Type:** Style 1

**Applies to:**
- Group 1
- Group 2
- Group 3
- Group 4
- Other

**Mfr:** Steel Sentry

**Color:** Natural stainless steel or neural colors (steel)

**Finish:** Mill (stainless) or Powder coated (steel)

**Model #:** Lab, workbench, computer workstation

**Other:** Provide highly durable fabrications and finishes in Group 3 which are subjected to heavy use.

**UFGS:** Section 12 31 00 Manufactured Metal Casework
http://www.wbdg.org/FFC/DOD/UFGS/UFGS 12 31 00.pdf

---

E06.1.5. Other

Applicable: No, N/A: Yes
Number of base standards: 1

Schriever Air Force Base IFS
### E06.2. Countertop Materials

#### E06.2.1. Plastic Laminate

- **Type:** Style 1, Low Use Areas
- **Group Applies to:**
  - Group 1
  - Group 2
  - Group 3
  - Group 4
  - Other
- **Mfr.:** Formica
- **Color:** Medium Earth tones and neutral tones
- **Finish:** Light textured
- **Model #:** High pressure laminate
- **Other:** Only use rounded half or full bullnose and integral backsplash. Do not use plastic laminate edge banding on front edges.

UFGS: Section 06 41 16.00 10 Plastic-Laminate-Clad Architectural Cabinets
http://www.wbdg.org/FFC/DOD/UFGS/UFGS 06 41 16.00 10.pdf

#### E06.2.2. Solid Polymer Surface

- **Type:** Style 1, High Use Areas
- **Group Applies to:**
  - Group 1
  - Group 2
  - Group 3
  - Group 4
  - Other
- **Mfr.:** Corian
- **Color:** Medium Earth tones and neutral tones
- **Finish:** Light Textured
- **Model #:** Solid Surface
- **Other:** Faces and edges

UFGS: Section 12 36 00 Countertops
http://www.wbdg.org/FFC/DOD/UFGS/UFGS 12 36 00.pdf
E06.2.3. Natural Stone

Applicable: Yes  N/A: No  Number of base standards: 1

Type: **Style 1, Group 1 High Visibility, Heavy Use**

Applies to: Group 1 □ Group 2 □ Group 3 □ Group 4 □ Other

Mfr: Local (TBD)

Color: Neutral tones

Finish: High polish, sealer

Model #: Custom cut slabs

Other: N/A

UFGS: Section 12 36 00 Countertops

http://www.wbdg.org/FFC/DOD/UFGS/UFGS 12 36 00.pdf

---

E06.2.4. Cast Stone

Applicable: Yes  N/A: No  Number of base standards: 1

Type: **Style 1, Group 1 High Visibility, Heavy Use**

Applies to: Group 1 □ Group 2 □ Group 3 □ Group 4 □ Other

Mfr: Local (TBD)

Color: Neutral tones

Finish: High polish, sealer

Model #: Custom cast or cut slabs

Other: N/A

UFGS: Section 12 36 00 Countertops

http://www.wbdg.org/FFC/DOD/UFGS/UFGS 12 36 00.pdf
### E06.2.5. Metal

**Type:** Metal  

**Applies to:** |
- Group 1
- Group 2
- Group 3
- Group 4
- Other

**Mfr.:** Local (TBD)  

**Color:** Natural stainless steel  

**Finish:** Mill  

**Model #:** Custom fabricated countertops  

**Other:** Provide integral fronts, sides and backsplash

**UFGS:** Section 12 31 00 Manufactured Metal Casework  

[http://www.wbdg.org/FFC/DOD/UFGS/UFGS 12 31 00.pdf](http://www.wbdg.org/FFC/DOD/UFGS/UFGS 12 31 00.pdf)

### E06.2.6. Other

**Applicable:** N/A

### E07. Furnishings

Comply with Air Force Corporate Standards for Furnishings:  

### E07.1. Durability and Serviceability

Comply with AF Corporate Standards for Durability and Serviceability:  

### E07.2. Accessories

Comply with AF Corporate Standards for Accessories:  

### E08. Interior Signs

Comply with Air Force Corporate Standards for Interior Signs:  

### E08.1 Types and Color
E08.2. Interior Signs Materials

1. Natural stone, masonry and cast stone signs may only be used in Group 1 with approval on a case basis.

E09. Lighting, Power and Communication


E09.1. Functionality and Efficiency

Comply with Air Force Corporate Standards for Functionality and Efficiency:

E09.2. Types and Color

Not applicable.
F. APPENDIX - Facility Districts

- Applicable
- N/A

Comply with Air Force Corporate Standards for Facility Districts:
http://afcfs.wbdg.org/facility-districts/index.html

Facilities Districts Overview Map:

![Facility Districts Map]

**Note:** Apply the base-wide standards in this IFS for Installation Elements, Site Development, Facilities Exteriors and Facilities Interiors (products, materials, color, etc.). Following application of the base-wide standards, refer to the Appendix and apply any additional requirements specifically related to the Facility District.

Enter No. of Facility Districts  0

The following Facility Districts list exceptions to the base standards that are unique to each district. Please refer to the Site Development, Facilities Exteriors, and Facilities Interiors sections of this IFS for base standards.
Name of District: Basewide Standards

Map of District

Photos for each facility group within the Facility District as applicable.

<table>
<thead>
<tr>
<th>Group</th>
<th>Applicable</th>
<th>N/A</th>
</tr>
</thead>
<tbody>
<tr>
<td>Group 1</td>
<td>☑</td>
<td></td>
</tr>
<tr>
<td>Group 2</td>
<td>☑</td>
<td></td>
</tr>
<tr>
<td>Group 3</td>
<td>☑</td>
<td></td>
</tr>
<tr>
<td>Group 4</td>
<td>☑</td>
<td></td>
</tr>
<tr>
<td>Other</td>
<td>☑</td>
<td></td>
</tr>
</tbody>
</table>
FACILITY DISTRICTS

Schriever Air Force Base is divided into districts that align with permitted land use functions as defined in the Installation Development Plan. Each district has designated uses that support the base's operations. Generally, match adjacent facilities in new construction to promote architectural compatibility throughout the installation. Please refer to Section D03.2 and contact the Base Civil Engineer for additional information. A brief description of each district follows.

1. Restricted Area District
   The Restricted Area District includes facilities that are expressive of operational functionality and an architectural style popular during their original design. Generally, match adjacent buildings in new facilities and renovations to ensure architectural compatibility and follow standards for Facility Groups 1 and 2 as defined in this IFS.

2. West District
   The West District should be pedestrian in scale. Application of the installation prevailing architectural theme, which is expressive of high technology and innovation, should be implemented during major renovations or new construction as appropriate and shall follow standards for Facility Group 1 and 2 as defined in this IFS.

3. Community District
   Facilities in the Community District should continue to generally be a mix of community service and residential character, and pedestrian in scale. Application of the Family Housing area’s prevailing architectural theme, contemporary vernacular, should be implemented during major renovations or new construction as appropriate.

4. Industrial District
   The Industrial District includes a mix of maintenance, outdoor recreation, and training functions. Application of the installation prevailing architectural theme, which is expressive of high technology and innovation, should be implemented during major renovations or new construction as appropriate and shall follow standards for Facility Group 2 and 3 as defined in this IFS.

5. East District
   The East District consists of proposed utility and training structures including renewable energy systems. Facilities in this district shall follow standards for Facility Group 3 as defined in this IFS.

G. APPENDIX - References

Comply with Air Force Corporate Standards:
http://afcfs.wbdg.org/index.html

50th CIVIL ENGINEER SQUADRON
D03. Architectural Features